The status of canary rockfish (*Sebastes pinniger*) in the California Current in 2015

by

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Executive Summary

Stock

This benchmark assessment reports the status of the canary rockfish (*Sebastes pinniger*) resource off the coast of the United States from southern California to the U.S.-Canadian border using data through 2014. This assessment uses a three-area model, corresponding approximately to state boundaries (32-42°, 42-46°, 46-49°N) to account for spatial variation in exploitation history among strata.

Catches

Recent catches have been at historical lows (Table a), with 2012 and 2013 having the lowest catches in nearly one-hundred years (since fishing increased in 1916). Our current (2015) catch reconstruction shows that the first recorded catches commenced in the Oregon non-trawl fishery in 1892, and annual catches reached two peaks, in 1945 (4,187 mt) and again in 1982 (5,652 mt). Catches since 1892 have totaled nearly 128,800 mt. This is lower than the total catch reported in the 2007 assessment (148,000 mt), although update assessments in 2009 and 2011 reported a lower total catch (2009: 112,000 mt, 2011: 120,000 mt) due to ongoing updates in the catch reconstruction for California Current groundfishes. The stock has historically had greatest catches from the domestic and foreign trawl fishery, although the non-trawl fishery has increased its relative proportion (from 20% in the mid-1990s) to a larger share (25-40% since 2010) of a much smaller total. Similarly, the recreational fishery first exceeded 10% of total catch in 1995, and has ranged widely in annual catch since then. Catch limits and total realized catches were reduced by an order of magnitude starting in 2000 to promote stock rebuilding.

Table a: Recent Catches

Year	Catch (mt)
2005	57.6
2006	53.7
2007	47.0
2008	36.8
2009	47.3
2010	44.3
2011	60.1
2012	34.1
2013	35.8
2014	41.6

Figure a: Historical canary rockfish catch for all fleets (left column: by fishing gear where TWL is trawl, NONTWL is non-trawl, REC is recreational, ASHOP is at-sea-hake, FOR is foreign, and SURVEY is West Coast groundfish and triennial bottom trawl surveys; right

column: apportioned by stratum where CA is 32-42°N, OR is 42-46°N, and WA is 46-49°N).

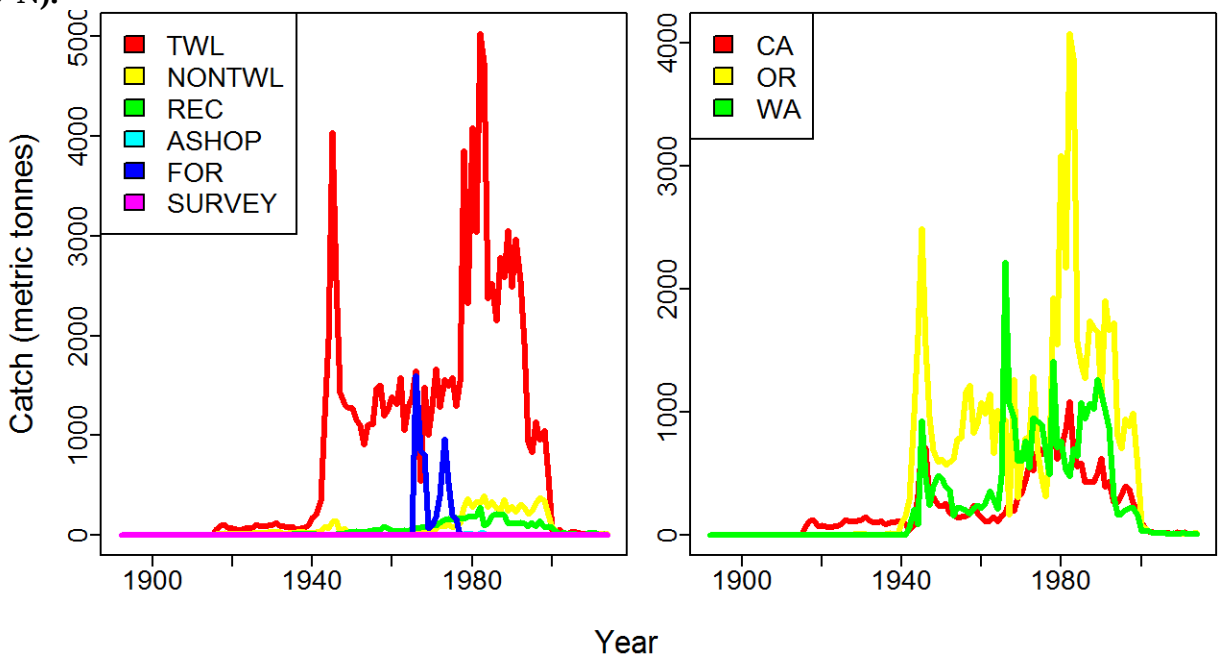
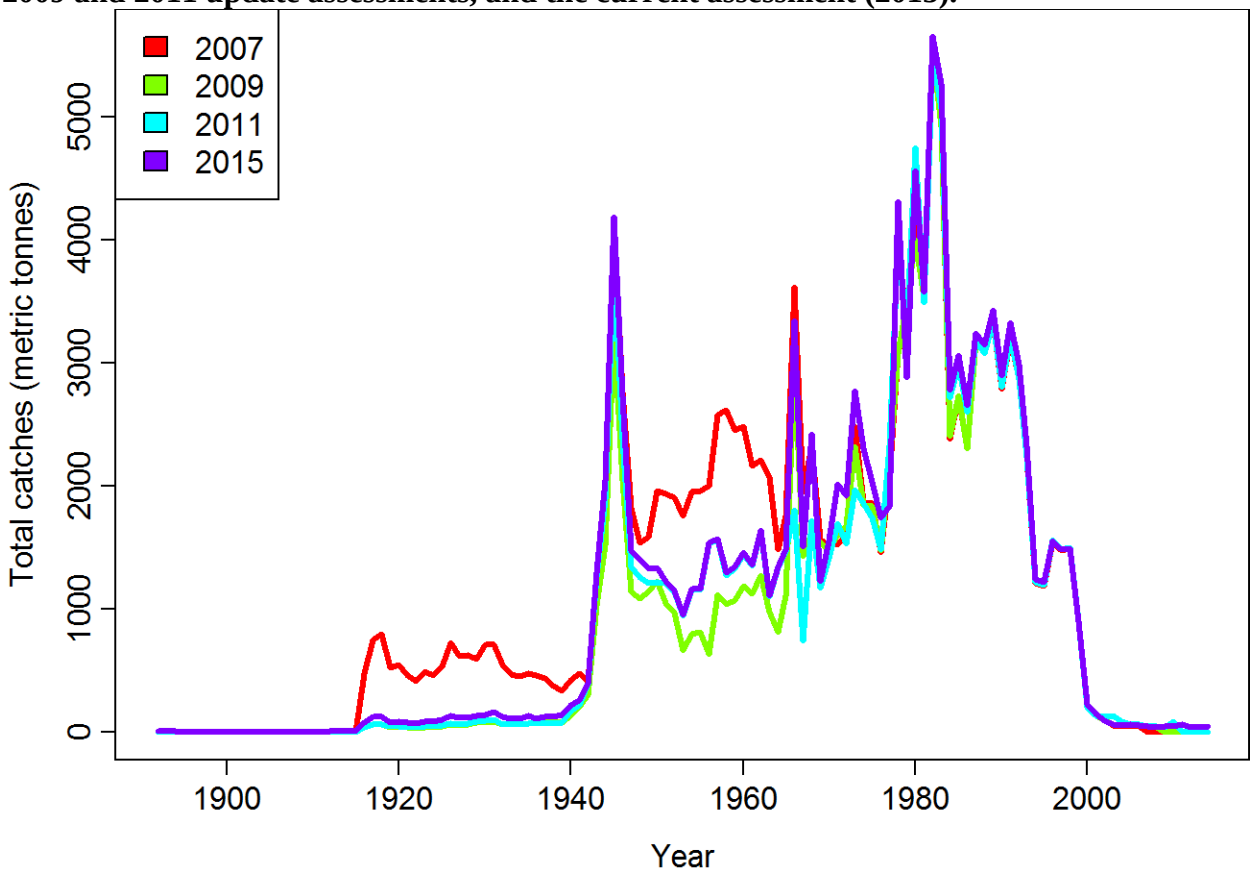


Figure b: Comparison of total canary rockfish catch included in the 2007 assessment, the 2009 and 2011 update assessments, and the current assessment (2015).



Data and assessment

This benchmark assessment uses the newest version of Stock Synthesis available (3.24v), which differs from v3.24u by including an additional feature regarding mirroring of movement parameters (as explored in a subsequent sensitivity analysis). The model includes three spatial strata, uses Pope's approximation to the catch equation, and assumes that expected recruitment is a function of stock-wide spawning output. Change in assessment results from 2011 due to software updates was negligible. The model includes abundance index, length, and conditional age-at-length samples from the West Coast Groundfish Bottom Trawl Survey (WCGBTS) 2003-2014, and the Alaska Fisheries Science Center triennial sampling program (1980-2004). The model also includes fishery data from the trawl and non-trawl fisheries, as well as the recreational, foreign, and at-sea hake fisheries, where each fishery is apportioned among strata. Fishery data include total catch (landings plus estimated dead discards) as well as length and age composition samples where available. The Southwest Fisheries Science Center (SWFSC)/NWFSC/Pacific Whiting Conservation Cooperative (PWCC) coast-wide pre-recruit survey provides an updated indicator of recent recruitment strength. We include time blocks in trawl and non-trawl fishery selectivity which change between 1999/2000 (to account for changes in fisher behavior following the overfished declaration in 2000), and again for the trawl fishery in 2010/2011 (to account for changes in fishery behavior following the introduction of ITQs).

As in previous benchmark and update assessments, the base-case assessment model includes parameter uncertainty from a variety of sources. However, parameter uncertainty does not account for uncertainty about model structure or the value of parameters that are fixed at values that are established externally to the model (MacCall, 2013). For this reason, in addition to asymptotic confidence intervals (based upon the model's analytical estimate of the variance of estimated parameters near their maximum likelihood estimates), we also include a comparison of the base model with two alternative states of nature, which reflect different assumptions regarding the strength of recruitment compensation for the population. Specifically these states of nature involve fixing steepness at values that represent the upper and lower 25% of the prior estimated in 2015 for California Current rockfishes (i.e., h=0.600, or h=0.946).

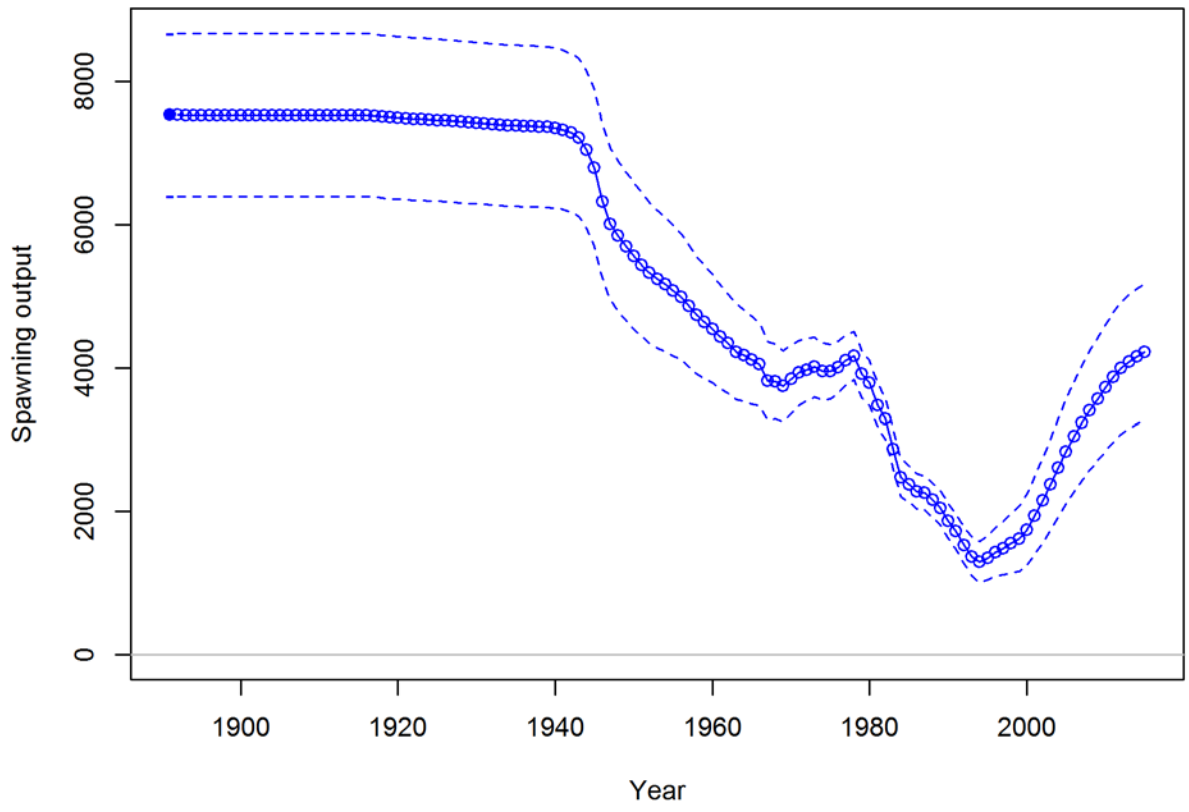
Stock biomass

The canary rockfish stock was relatively lightly exploited until the early 1940s, when catches increased and a decline in biomass began. The rate of decline in spawning biomass accelerated during the early 1980s, and finally stabilized in the late 1990s in response to management measures drastically reducing total catch. The canary rockfish spawning output reached an estimated low in 1994, but has been steadily increasing since that time. The estimated relative depletion level in 2015 is 56.0% (~95% interval: 51-61%). The 95% confidence interval is based upon the model's analytical estimate of the estimation variance of estimated parameters near their maximum likelihood estimates in the base model configuration.

Table b: Recent trend in beginning of the year spawning output and depletion

Year	Spawning Output (millions eggs)	~95% Confidence Interval	Estimated Depletion (%)	~95% Confidence Interval
2006	2,975	2,159-3,791	39.7	30.1-49.3
2007	3,162	2,311-4,012	42.2	32.3-52.1
2008	3,332	2,453-4,211	44.5	34.4-54.5
2009	3,494	2,590-4,397	46.6	36.5-56.8
2010	3,650	2,724-4,575	48.7	38.5-59.0
2011	3,796	2,851-4,741	50.7	40.4-60.9
2012	3,919	2,959-4,879	52.3	42.1-62.5
2013	4,017	3,048-4,987	53.6	43.5-63.7
2014	4,093	3,119-5,067	54.6	44.8-64.5
2015	4,156	3,181-5,132	55.5	45.8-65.1

Figure c: Spawning output trajectory (in units millions of eggs) with 95% confidence interval indicated by dashed lines



Recruitment

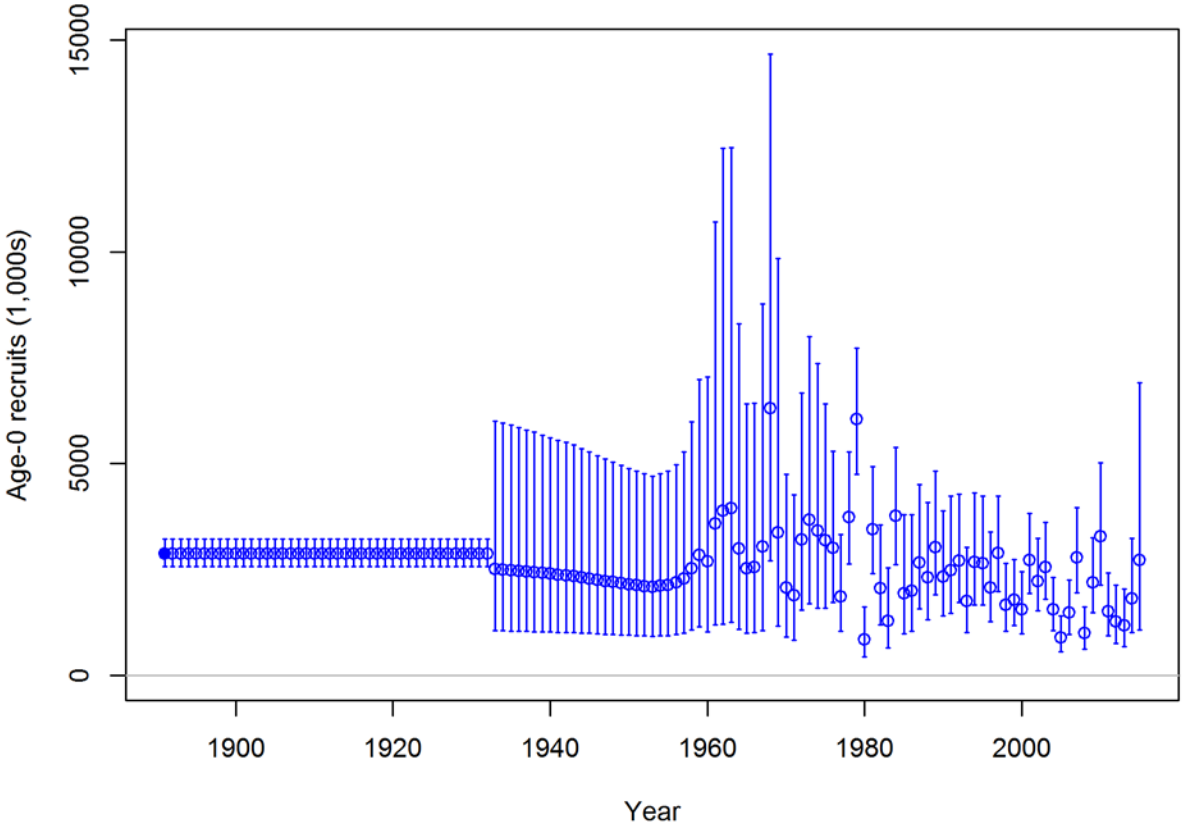
The estimate of rebuilding rate for canary rockfish in this assessment is informed by prior information regarding the strength of recruitment compensation in other rockfishes. In 2015, this prior information indicates that recruitment compensation for rockfishes is in-line with other taxa

worldwide (i.e., a steepness of 0.773). Given this high level of recruitment compensation, recruitment is not estimated to have substantially declined for canary during the decreased spawning output in the 1980s-2000s (Fig. d), such that 1984 and 1997 both have estimated recruitment near the estimated average level for the unfished population. Recovery after the decrease in fishing during the 2000s has been particularly aided by strong recruitment 2001-2003, and again by strong cohorts in 2007 and 2010 (which are projected to impact spawning output in the coming years).

Table c: Recent recruitment

Year	Estimated Recruitment (1,000s)	~95% Confidence Interval
2006	1,471	950-2,279
2007	2,901	2,022-4,162
2008	925	565-1,517
2009	2,293	1,536-3,425
2010	3,212	2,078-4,962
2011	1,501	928-2,427
2012	1,258	742-2,132
2013	1,169	669-2,044
2014	1,806	998-3,268
2015	2,699	1,062-6,863

Figure d: Recruitment estimates (blue circles) and 95% confidence intervals (whiskers)



Exploitation status

Rockfishes in the California Current are managed to have a target spawning potential ratio (SPR) of 50% of its equilibrium value in a population given current fishing. By contrast, the fishing intensity for canary rockfish for all recent years (2005-2014) would result in an equilibrium SPR of >96% (Table d). Current fishing corresponds to a harvest rate (i.e., total catch divided by biomass of all fishes aged 5 and older) of 0.09-0.2% for all recent years. Harvest rates were previously as high as 20% in the 1980s and early 1990s, and fishing rates were above the level that would result in 50% equilibrium spawning potential ratio for the majority of years from 1966-1999. Large decreases in harvest rate were accomplished between 1993/1994 (1993: 17.1%, 1994: 9.4%) and 1999/2000 (1999: 4.8%, 2000: 0.8%).

This extremely low harvest rate (when interpreted in conjunction with the higher magnitude of recruitment compensation estimated by recent meta-analyses for rockfishes in the California Current) is estimated to have resulted in a rapid rebuilding of spawning output. In retrospect, spawning output dropped below the target of 40% in 1982, and dropped below the limit of 25% in 1988. During subsequent rebuilding, the population is estimated to have increased above the limit again in 2001 and above the target stock size in 2006.

Table d. Recent trend in spawning potential ratio (entered as 1-SPR) and summary exploitation rate (catch divided by biomass of age-5+ and older fish)

Year	Estimated 1-SPR (%)	~95% confidence interval	Harvest rate (proportion)	~95% confidence interval
2005	3.10	1.89-4.32	0.0023	0.0017-0.0029
2006	2.70	1.78-3.63	0.0020	0.0015-0.0026
2007	3.35	2.22-4.48	0.0017	0.0012-0.0021
2008	1.97	1.30-2.63	0.0012	0.0009-0.0016
2009	4.57	3.14-5.99	0.0015	0.0011-0.0019
2010	3.62	2.25-4.99	0.0014	0.0011-0.0018
2011	2.29	1.41-3.16	0.0019	0.0014-0.0023
2012	2.25	1.60-2.90	0.0010	0.0008-0.0013
2013	2.36	1.59-3.14	0.0011	0.0008-0.0013
2014	2.56	1.81-3.31	0.0012	0.0009-0.0015

Figure e. Estimated relative depletion with approximate 95% asymptotic confidence intervals (dashed lines) for the base case assessment model.

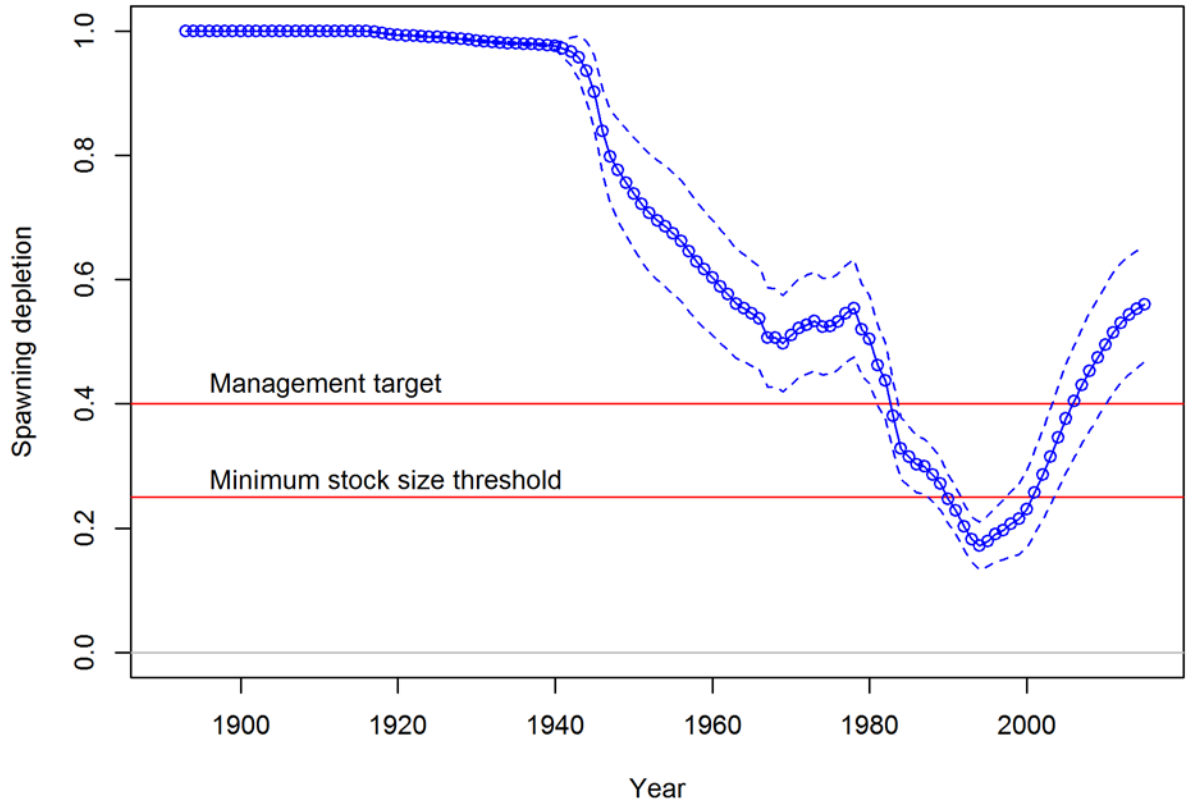


Figure f. Time-series of estimated summary harvest rate (total catch divided by age-5 and older biomass) for the base case model (round points) with approximate 95% asymptotic confidence intervals (grey lines).

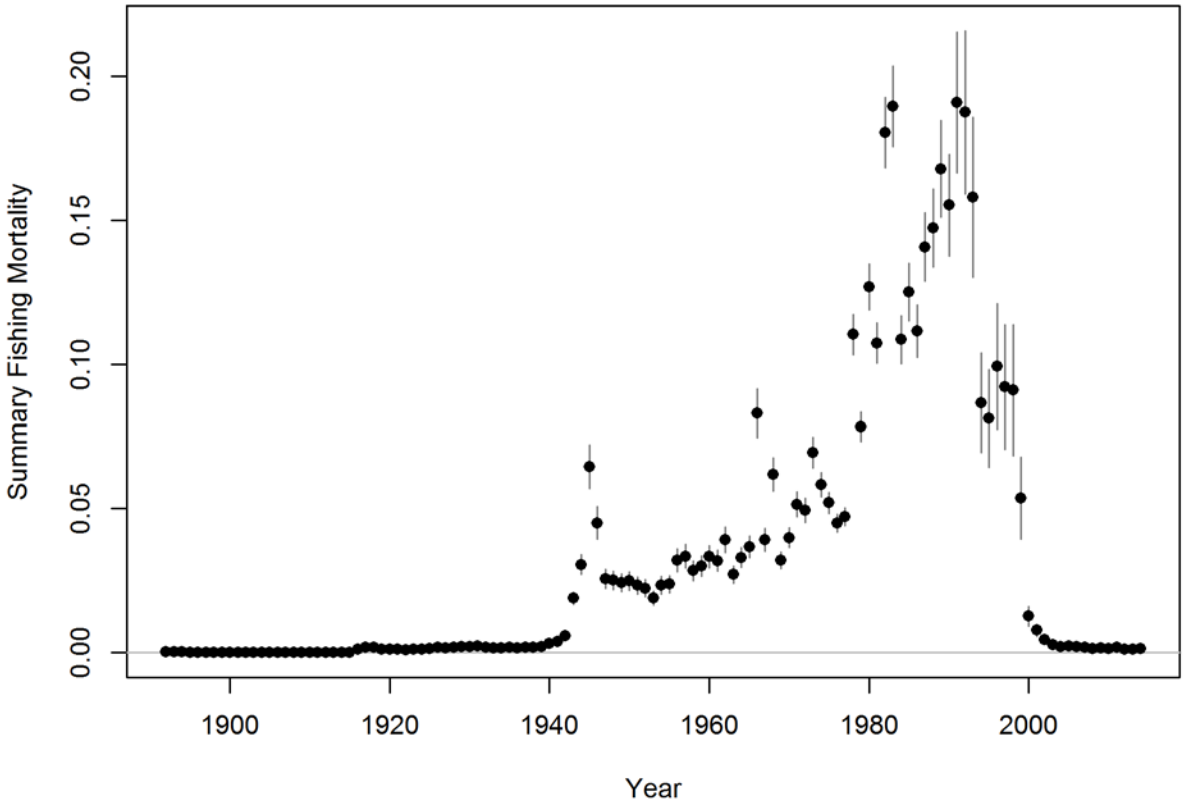


Figure g. Estimated spawning potential ratio (SPR) for the base case model with approximate 95% asymptotic confidence intervals. One minus SPR is plotted so that higher exploitation rates occur on the upper portion of the y-axis. The management target is plotted as red horizontal line and values above this reflect harvests in excess of the overfishing proxy based on the $SPR_{50\%}$.

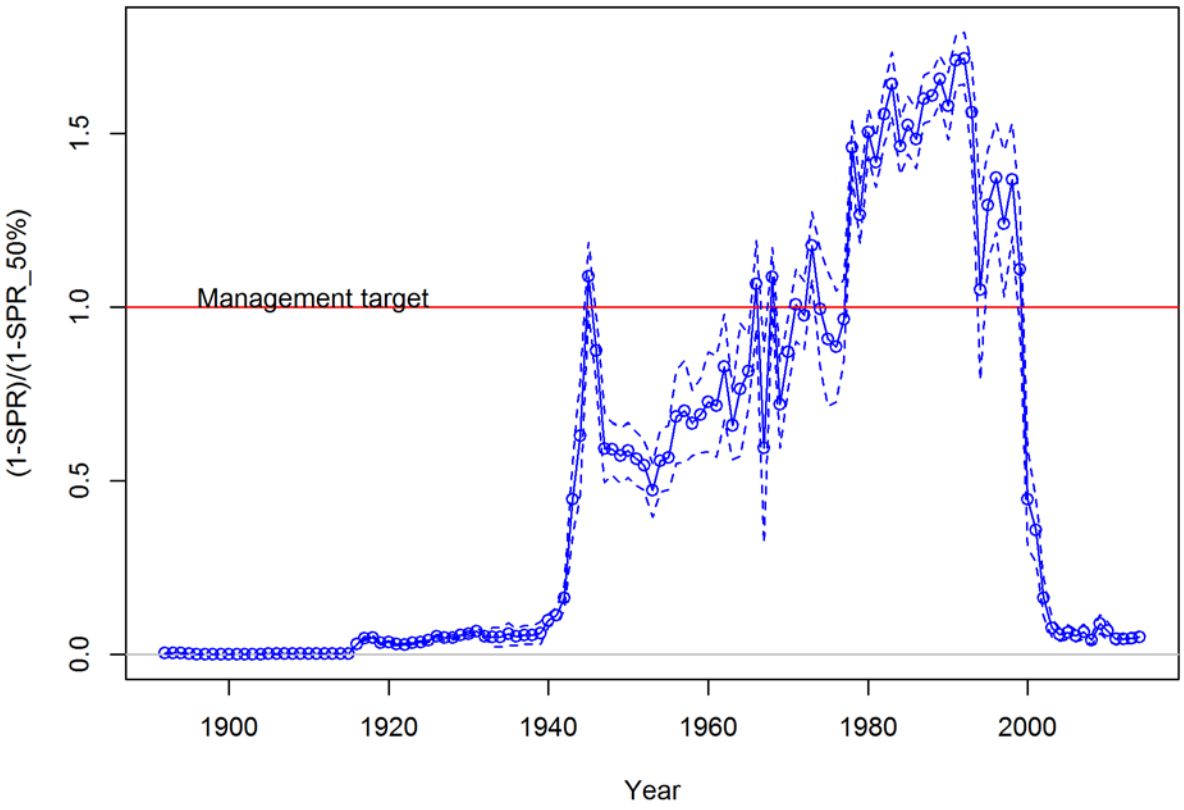
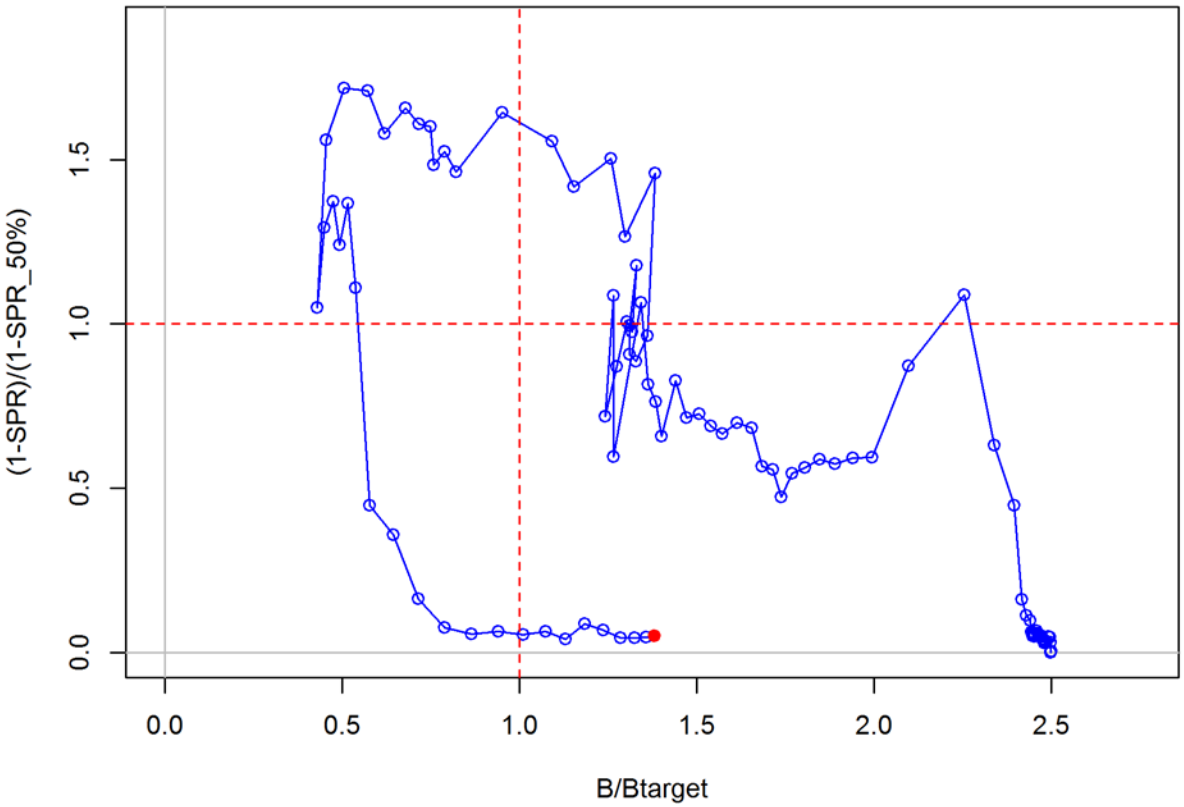


Figure h. Phase plot of estimated relative (1-SPR) vs. relative spawning biomass for the base case model. The relative (1-SPR) is (1-SPR) divided by 0.50 (the SPR target). Relative depletion is the annual spawning biomass divided by the spawning biomass corresponding to 40% of the unfished spawning biomass.



Ecosystem considerations

In this assessment, ecosystem considerations were not explicitly included in the analysis. This is primarily due to lack of relevant data and results of analyses (conducted elsewhere) that could contribute ecosystem-related quantitative information for the assessment.

Reference points

Average unfished spawning biomass is estimated to be 26,610 mt. This is directly comparable to previous assessments, despite our use of an updated maturity-at-length schedule, and is slightly lower than the estimate of 27,846 mt in the 2011 update assessment. Average unfished spawning output is estimated to be 7,491 million eggs, and relative spawning output (often termed "depletion" in West Coast assessments) is estimated to be 0.559 in 2015. A comparison among historical assessments shows that this rate of rebuilding is faster than previously estimated due to our updated prior for the strength of recruitment compensation (termed "steepness"). Our base model estimates a target spawning output of 3,449 million eggs using a biological reference point proxy of $SB_{40\%}$ and 2,111 million eggs using a proxy targeting a 50% reduction in spawning potential relative to average unfished levels. Maximum sustainable yield is estimated to be 1,289 mt, and this estimate is considerably higher than the value (803 mt) estimated in the 2011 update assessment.

Table e. Summary of reference points for the base case model (please note that reference points based on MSY and SPR proxy values are identical because the SPR_{MSY} value was estimated to be 50%, which is identical to the SPR_{MSY} proxy).

Quantity	Estimate	~95% Confidence Interval
Unfished Spawning output (millions eggs)	7,491	6,349-8,633
Unfished age 5+ biomass (mt)	72,073	64,169-79,977
Unfished recruitment (R0)	2,858	2,531-3,186
Depletion (2015)	55.48	45.83-65.14
Reference points based on $SB_{40\%}$		
Proxy spawning output ($B_{40\%}$ millions eggs)	2,996	2,540-3,453
SPR resulting in $B_{40\%}$ ($SPR_{50\%}$)	0.444	0.444-0.444
Exploitation rate resulting in $B_{40\%}$	0.044	0.041-0.048
Yield with $SPR_{50\%}$ at $B_{40\%}$ (mt)	1,226	1,074-1,379
Reference points based on SPR proxy for MSY		
Spawning output (millions eggs)	3,449	2,923-3,974
SPR_{50}	0.50	
Exploitation rate corresponding to SPR_{50}	0.036	0.033-0.040
Yield with SPR_{50} at SB_{SPR} (mt)	1,159	1,014-1,305
Reference points based on estimated MSY values		
Spawning output at *MSY* ($SB_{MSY,}$ millions eggs)	2,111	1,805-2,417
SPR_{MSY}	0.34	0.327-0.342
Exploitation rate corresponding to SPR_{MSY}	0.066	0.061-0.070
MSY (mt)	1,289	1,131-1,446

Management performance

Following the overfished declaration in 2000, the canary rockfish optimum yield (OY, currently termed the ACL) was reduced by over 70% in 2000 and by the same margin again over the next three years. Managers employed several tools in an effort to constrain catches to these dramatically lower targets. These included: reductions in trip/bag limits for canary and co-occurring species, the institution of spatial closures, and new gear restrictions intended to reduce trawling in rocky shelf habitats and the coincident catch of rockfish in shelf flatfish trawls. From 2004-2007 (table f), the total mortality was somewhat above the allowable biological catch but well below the overfishing limit, and from 2008-2014 the total mortality has been below the ABC/OFL and ACL/OY. The highest mortality in these past 10 years (2011: 60 mt) is approximately 1% of the peak catch that occurred in the early 1980s.

Table f. Recent trend in estimated total catches relative to the management guidelines. Total catch reflect the commercial landings plus the discarded biomass from commercial trawl and non-trawl, recreational, at-sea hake, and research catches from 2004-2014.

Year	OFL (mt) (termed ABC prior to 2011)	ABC (mt)	ACL (mt) (termed OY prior to 2011)	Estimated Total Catch (mt)
2004	256	NA	47.3	50.0
2005	270	NA	46.8	57.6
2006	279	NA	47	53.7
2007	172	NA	44	47.0
2008	179	NA	44	36.8
2009	937	NA	105	47.3
2010	940	NA	105	44.3
2011	614	586	102	60.1
2012	622	594	107	34.1
2013	752	719	116	35.8
2014	741	709	119	41.6

Unresolved problems and major uncertainties

We note several important sources of uncertainty regarding our base model:

1. We have adopted a spatially stratified assessment model to account for spatial variation in exploitation history, which would otherwise invalidate the assumption of a single well-mixed population. However, we note that portside estimates of strata-specific landings are likely to represent an imperfect estimate of spatial variation in the distribution of catch at sea. We therefore present estimates from a non-spatial model as a sensitivity analysis, in addition to alternative treatments of selectivity.

2. Another consequence of using a spatial model is that we must implicitly or explicitly account for movement of adults, as well as the degree to which recruitment in each stratum is a function of local or stock-wide spawning output. Adult movement rates among spatial strata are largely unknown, although previous tagging work and anecdotal information support a localized movement for adults (i.e. low movement among large spatial areas). We have explored the impact of different levels of movement as a sensitivity analysis, but recommend future localized tagging studies (using pop-off tags to avoid the necessity of recovering tagged individuals). While localized tagging studies will never give a clear estimate of coast-wide average movement rates, they can still provide an upper bound on plausible movement rates (which generally will not exceed the rate of emigration seen at fine spatial scales). The relative importance of local vs. stock-wide spawning output on recruitment in each stratum is also unknown. We have therefore taken the common approach of assuming that expected recruitment is a function of stock-wide spawning output. However, we encourage further research regarding the topic.

3. We have fixed the magnitude of recruitment compensation (termed “steepness”) and the natural mortality rate for juvenile female and male individuals at the median of the prior distribution estimated for rockfishes in general. However, we note that considerable

uncertainty remains regarding these life history parameters for canary rockfish (and for many other species nation-wide and globally). We have explored the impact of different values of steepness as alternative states of nature.

Decision table (groundfish only)*

As indicated above, the status and allowable catch for canary rockfish depends strongly on the magnitude of recruitment compensation (steepness), and the rate of natural mortality for juvenile females and males of all ages. In this assessment, both of these parameters have been fixed at values predicted from meta-analysis. We therefore seek to provide information regarding predicted trends in spawning output arising from different potential harvest strategies given uncertainty in the values of these important life history parameters.

As alternative states of nature for steepness, we use values that represent the upper and lower 25% of the prior probability for this parameter (i.e., lower: $h=0.600$, upper: $h=0.946$). As alternative states of nature for natural mortality rate, we use values that result in a similar level of spawning output relative to unfished levels as the states of nature for steepness (i.e., lower: $M=0.025$, upper: $M=0.060$). Projecting catches using the estimated ACL given the lower state-of-nature for natural mortality (Table h.1) results in a large decrease in stock biomass, resulting in the fishery being unable to attain the ACL for all years starting in 2022. Similarly, projecting catches using the estimated ACL given the lower state-of-nature for steepness (Table h.2) results in declining spawning biomass from 2017-2026 (i.e., a 2026 spawning biomass relative to average unfished levels of 32.5% for the lower steepness level). By contrast, projecting catches using a target SPR of 88.7% results in a small increase in spawning output over time (i.e., a 2026 relative spawning biomass of 37.4% and 44.7% respectively). Similarly, projecting catches using the estimated ACL and either the base-model values or the upper states of nature for steepness and natural mortality rate results in a steady decline in spawning output towards the target level of 40%. Finally, projecting catches using a target SPR of 88.7%, given either the base values or upper state-of-nature for steepness or natural mortality results in a gradual increase in spawning output over ten years.

Table h.1. Summary table of 10-year projections beginning in 2017 for alternate states of nature based on natural mortality for males and young females. Columns range over low, mid, and high state of nature based on natural mortality for males and young females, and rows range over the ACL catch level and the catch predicted based on the rebuilding SPR harvest rate of 88.7%. Years in italics and indicated with an asterisk (i.e., 2022-2026 for the low M state of nature) represent years where the fishery is not able to attain the full ACL catch due to the stock having too low values of biomass.

			State of nature					
			Low M_{BASE} = 0.025		Base case M_{BASE} = 0.0521		High M_{BASE} = 0.06	
Relative probability of ln(SB_2015)			0.25		0.5		0.25	
Management decision	Year	Catch (mt)	Spawning biomass (mt)	Depletion	Spawning biomass (mt)	Depletion	Spawning biomass (mt)	Depletion
ACL	2017	1714	2265	43.3%	4261	56.9%	5441	67.6%
	2018	1526	2118	40.5%	4152	55.4%	5300	65.9%
	2019	1415	1974	37.7%	4041	53.9%	5164	64.2%
	2020	1346	1829	35.0%	3918	52.3%	5017	62.4%
	2021	1297	1688	32.3%	3788	50.6%	4861	60.4%
	2022	1260	*1557**	*29.8%*	3661	48.9%	4711	58.6%
	2023	1231	*1446**	*27.7%*	3553	47.4%	4586	57.0%
	2024	1210	*1375**	*26.3%*	3471	46.3%	4494	55.9%
	2025	1194	*1326**	*25.4%*	3414	45.6%	4433	55.1%
	2026	1180	*546**	*10.4%*	3379	45.1%	4399	54.7%
SPR = 88.7% Catches	2017	217	2265	43.3%	4261	56.9%	5441	67.6%
	2018	216	2272	43.4%	4309	57.5%	5459	67.9%
	2019	218	2273	43.5%	4352	58.1%	5474	68.0%
	2020	223	2265	43.3%	4377	58.4%	5469	68.0%
	2021	229	2250	43.0%	4384	58.5%	5445	67.7%
	2022	236	2235	42.7%	4386	58.5%	5418	67.3%
	2023	242	2233	42.7%	4400	58.7%	5408	67.2%
	2024	248	2248	43.0%	4437	59.2%	5425	67.4%
	2025	253	2284	43.7%	4497	60.0%	5469	68.0%
	2026	258	2337	44.7%	4577	61.1%	5537	68.8%

Table h.2. Summary table of 10-year projections beginning in 2017 for alternate states of nature based on steepness. Columns range over low, mid, and high state of nature based on steepness, and rows range over the ACL catch level and the catch predicted based on the rebuilding SPR harvest rate of 88.7%.

			State of nature					
			Low h = 0.60		Base case h=0.773		High h=0.946	
Relative probability of ln(SB_2015)			0.25		0.5		0.25	
Management decision	Year	Catch (mt)	Spawning biomass (mt)	Depletion	Spawning biomass (mt)	Depletion	Spawning biomass (mt)	Depletion
ACL	2017	1714	3259	42.8%	4261	56.9%	5019	67.7%
	2018	1526	3135	41.2%	4152	55.4%	4901	66.1%
	2019	1415	3017	39.6%	4041	53.9%	4784	64.6%
	2020	1346	2895	38.0%	3918	52.3%	4653	62.8%
	2021	1297	2771	36.4%	3788	50.6%	4510	60.9%
	2022	1260	2656	34.9%	3661	48.9%	4367	58.9%
	2023	1231	2565	33.7%	3553	47.4%	4242	57.2%
	2024	1210	2501	32.8%	3471	46.3%	4143	55.9%
	2025	1194	2462	32.3%	3414	45.6%	4071	54.9%
	2026	1180	2445	32.1%	3379	45.1%	4021	54.3%
SPR = 88.7% Catches	2017	217	3259	42.8%	4261	56.9%	5019	67.7%
	2018	216	3292	43.2%	4309	57.5%	5065	68.3%
	2019	218	3324	43.6%	4352	58.1%	5102	68.9%
	2020	223	3344	43.9%	4377	58.4%	5118	69.1%
	2021	229	3352	44.0%	4384	58.5%	5112	69.0%
	2022	236	3361	44.1%	4386	58.5%	5096	68.8%
	2023	242	3385	44.5%	4400	58.7%	5091	68.7%
	2024	248	3434	45.1%	4437	59.2%	5105	68.9%
	2025	253	3508	46.1%	4497	60.0%	5141	69.4%
	2026	258	3602	47.3%	4577	61.1%	5197	70.1%

Table h.3. Summary table of 10-year projections beginning in 2017 for the base case model with 1,526 mt catches taken in 2017 and 2018

Year	OFL	ACL	Projected Catch (mt)	Spawning biomass (mt)	Depletion
2017	1793	-	1526	4261	56.9%
2018	1677	-	1526	4167	55.6%
2019	1594	1524	1524	4058	54.2%
2020	1486	1420	1420	3925	52.4%
2021	1411	1348	1348	3783	50.5%
2022	1357	1297	1297	3646	48.7%

2023	1319	1260	1260	3529	47.1%
2024	1290	1233	1233	3439	45.9%
2025	1268	1211	1211	3375	45.1%
2026	1249	1194	1194	3334	44.5%

Research and data needs

We recommend the following research be conducted before the next benchmark assessment model:

1. The canary rockfish stock has high density near the US-Canadian border, so previous assessment authors and STAR panel reports have recommended an assessment model that incorporates landings, abundance index, and compositional data from both US and southern British Columbia regions. However, we do not believe that incorporating heterogeneous data from different sampling programs and management jurisdictions is feasible without using a spatial model (e.g., our base model), both because different jurisdictions are likely to have different exploitation histories, and because different regions are likely to have different data sources (invalidating the second-stage expansion used in coast-wide models). Given the use of a spatial model, we recommend that efforts proceed to gather, document, analyze, and evaluate Canadian data sources for a joint assessment.

2. Direct observation of canary rockfish suggests that individuals are often associated with rocky habitat, and therefore may not be available to the bottom trawl gear used to obtain coast-wide fishery-independent data in the California Current. Recent research suggests that, when (1) a portion of the population is unavailable to survey sampling gear, and (2) the proportion of the population that is unavailable varies among years (e.g., due to density-dependent habitat selection), then survey indices are likely not representative of stock-wide trends in abundance. Therefore, we highly encourage a coast-wide pilot study for an alternative sampling method (e.g., hook-and-line sampling), as well as its calibration against the existing bottom trawl survey via paired sampling methods (J. T. Thorson et al., 2013).

3. A spatial model replaces problematic assumptions in a coast-wide model (i.e., an equally mixed stock in which every individual fish and fishing operation has equal probability of encounter, no spatial variation in density or exploitation history) with other difficult assumptions (Punt et al., 2015). In particular, our base model represents the assumption that movement is negligible among strata. We therefore recommend that tag-resighting studies be initiated to estimate interannual movement rates.

4. We also note that this assessment, like many other rockfish assessments in the California Current (e.g., darkblotched rockfish) is highly sensitive to assumptions regarding life history characteristics including natural mortality rate and the steepness of the stock-recruit relationship. We therefore recommend ongoing research for these and other life history parameters that form the primary axis of uncertainty for many rockfishes. In particular, research regarding steepness could involve exploration of the impact of autocorrelation within a species, cross-correlation among species, and model mis-specification leading to

bias in the reconstruction of spawning output for species included in the prior. Steepness research could also involve a management strategy evaluation to evaluate the potential impact of rapid changes in the assumed value of steepness on management performance (i.e., false positives in detecting overfished or rebuilt stocks). Research regarding natural mortality could involve continued investigations of the relationship between natural mortality and the Brody growth coefficient, as well as how to incorporate prior information regarding this relationship into Stock Synthesis.

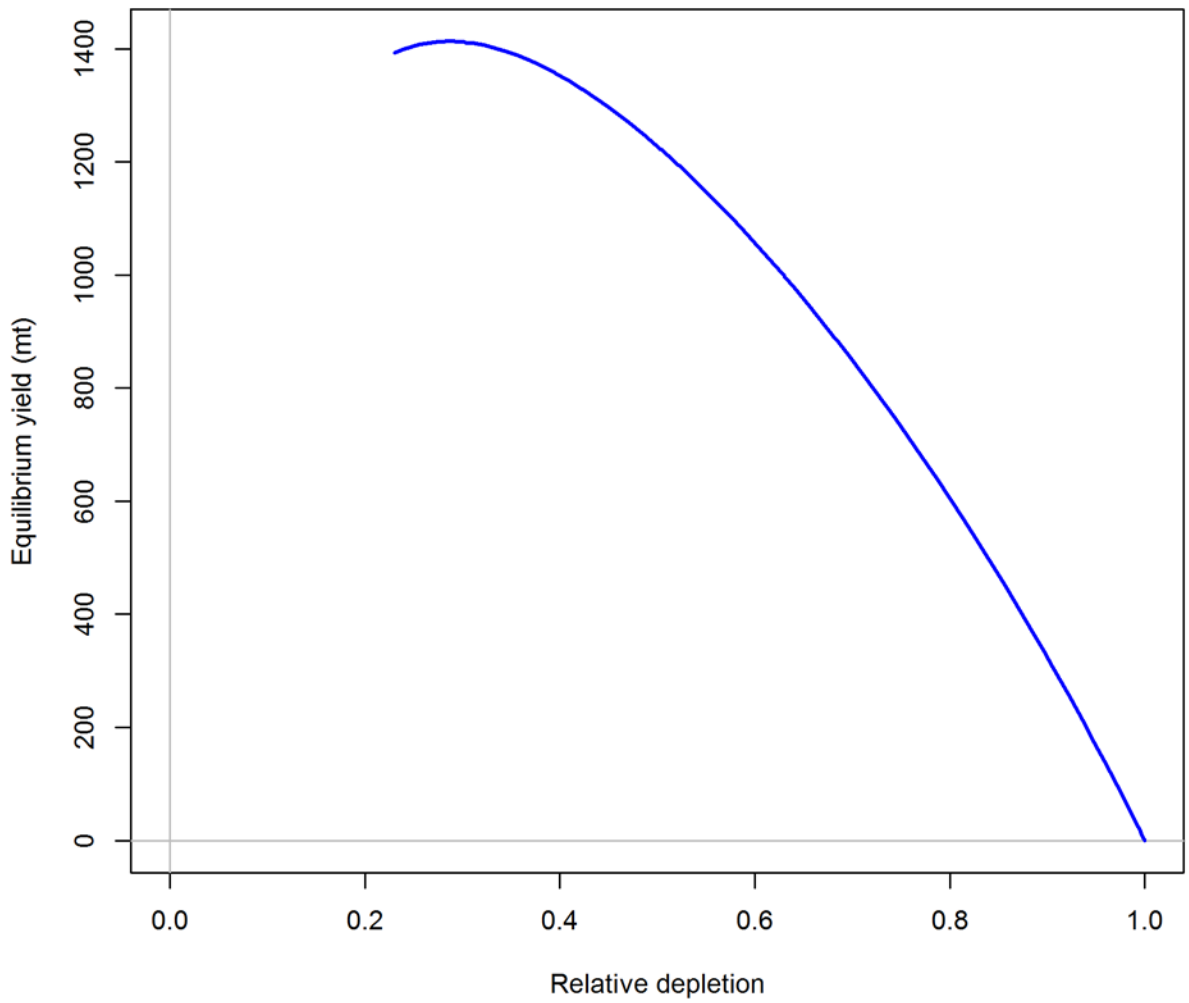
Rebuilding projections

The assessment estimates that the canary stock is fully rebuilt, and has been since 2006. As stated previously (and demonstrated in subsequent sensitivity analyses), the increased rate of rebuilding estimated in this assessment relative to previous assessments is informed in large part by changes in the meta-analytic prior on steepness since the last full canary assessment in 2007. Given that we estimate the stock to have rebuilt, we do not provide any rebuilding projections.

Table i. Summary table of the results.

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Commercial landings (mt)	7.76	12.02	8.16	11.7	14.3	14.82	15.6	14.66	16.72	NA
Total catch (mt)	53.63	47.05	36.81	47.3	44.36	60.06	34.15	35.79	41.61	NA
OFL (mt)	279	172	179	937	940	614	622	752	741	733
ACL (mt)	47	44	44	105	105	102	107	116	119	122
1-SPR	0.03	0.03	0.02	0.05	0.04	0.02	0.02	0.02	0.03	NA
Exploitation rate (catch/ age 5+ biomass)	0.002	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.001	NA
Age 5+ biomass (mt)	26,670	28,090	29,610	30,775	31,561	32,343	33,478	34,000	34,826	35,966
Spawning Output (millions eggs)	2,975	3,162	3,332	3,494	3,650	3,796	3,919	4,017	4,093	4,156
~95% Confidence Interval	2,159-3,791	2,311-4,012	2,453-4,211	2,590-4,397	2,724-4,575	2,851-4,741	2,959-4,879	3,048-4,987	3,119-5,067	3,181-5,132
Recruitment	1,471	2,901	925	2,293	3,212	1,501	1,258	1,169	1,806	2,699
~95% Confidence Interval	950-2,279	2,022-4,162	565-1,517	1,536-3,425	2,078-4,962	928-2,427	742-2,132	669-2,044	998-3,268	1,062-6,863
Depletion (%)	39.7	42.2	44.5	46.6	48.7	50.7	52.3	53.6	54.6	55.5
~95% Confidence Interval	30.1-49.3	32.3-52.1	34.4-54.5	36.5-56.8	38.5-59.0	40.4-60.9	42.1-62.5	43.5-63.7	44.8-64.5	45.8-65.1

Figure h. Equilibrium yield curve (derived from reference point values reported in Table i) for the base case model.



1 Introduction

1.1 Basic Information

Canary rockfish (*Sebastes pinniger*) are distributed in the northeastern Pacific Ocean from the western Gulf of Alaska to northern Baja California; however, the species is most abundant from British Columbia to central California (Miller and Lea 1972, Hart 1973, Love et al. 2002). A map showing the California Current, as well as the major landmarks and dividing lines between the five International North Pacific Fisheries Commission (INPFC) areas is shown in Figure 1. Adults are primarily found along the continental shelf shallower than 300 m, although they are occasionally observed in deeper waters. Juvenile canary rockfish are found in shallow and intertidal areas (Love et al., 2002).

As in past assessments, this assessment treats the U.S. canary rockfish resource from the Mexican border to the Canadian border as a single coast-wide stock. However, unlike past assessments, the model explicitly tracks differences in age-structure and stock status in each of three spatial strata, divided by the 42°N and 46°N parallels, and informally referred to as CA (32-42°N), OR (42-46°N), and WA (46-49°N). The model tracks spatial differences in demographics because previous research indicates that spatial differences in exploitation rates or history can result in time-varying selectivity when analyzed using a nonspatial model (Sampson and Scott, 2011), and because the common "areas-as-fleets" approach is not likely to account for differences in exploitation history in many cases (Cope and Punt, 2011).

1.2 Life History

Canary rockfish are a medium to large-bodied rockfish; achieving a maximum size of around 70 cm. Female canary rockfish reach slightly larger sizes than males. Canary rockfish are relatively long-lived, with a maximum observed age of 84 years. However, in both the California Current and the coastal waters off British Columbia, only males are commonly observed above the age of 50, while females tend to be rare above age 30. The degree to which this pattern reflects behavioral differences translating to reduced availability to fishery and survey fishing gear, or an increase in relative mortality for older females has been the focus of much discussion and remains unclear. A similar pattern has been observed for yellowtail rockfish (*Sebastes flavidus*), a closely related but more pelagic species with a similar distribution (Wallace and Lai, 2005). Since the 2002 assessment, this pattern has been accommodated within the stock assessment model by allowing female natural mortality to increase at approximately the age of first sexual maturity. Benchmark and update assessments starting in 2002 have included an increased rate of female natural mortality post-maturity, as justified by an increase in behavioral risk or physiological stress resulting from female spawning.

Adult canary rockfish primarily inhabit areas in and around rocky habitat. They form very dense schools, leading to an extremely patchy population distribution that is reflected in both fishery and survey encounter rates. This distribution strongly affects the calculation and interpretation of population indices and age- or size-composition data. In particular, a patchy spatial distribution, combined with a low rate of encounter, results in an estimated index of abundance that has large estimation intervals and is relatively uninformative about trends in population abundance. Juvenile canary rockfish are found in shallow and intertidal areas (Love et al. 2002). Canary rockfish spawn in the winter, producing pelagic larvae and juveniles that

remain in the upper water column for 3-4 months (Love et al. 2002). These juveniles settle in shallow water around nearshore rocky reefs, where they may congregate for up to three years (Boehlert, 1980; Sampson, 1996) before moving into deeper water. The mean size of individuals captured in the trawl survey shows a characteristic ontogenetic shift to deeper water with increasing body size. The degree to which this ontogenetic shift may be accompanied by a component of latitudinal dispersal from shallow rocky reefs is unknown.

There exists little direct information regarding the stock structure of canary rockfish off the U.S. Pacific coast. Limited tagging research conducted off Oregon found that of 10 canary rockfish recovered, 4 moved over 25 km, and 3 moved more than 100 km over a period of several years (DeMott, 1982). A single canary from that study moved 326 km to the south, and those that moved the farthest also moved to much greater depths than the shallow reefs at which they had been tagged. Early genetic research found patterns suggestive of some population structuring between the northern California/southern Oregon and northern Oregon/southern Washington, but this work was based on limited sampling and also found evidence of reduced gene flow between shallow and deeper areas (Wishard et al., 1980). There is ongoing research on the population genetics of canary rockfish, which may be more tractable with modern methods (Gomez-Uchida et al. 2003), and preliminary research by J. Budrick (pers. comm. May 2015) indicates little support for population structure within the California Current.

There are few biogeographic boundaries clearly applicable to rockfish on the U.S. and Canadian west coasts. However, canary rockfish are not found in large numbers south of Point Conception. The divergence zone at the northern edge of Vancouver Island likely creates a barrier for pelagic dispersal and productivity for many species (Ware and McFarlane, 1989); therefore it is the southern portion of the B.C. canary resource that is most likely to have dynamics linked to the U.S. resource. It is likely that canary rockfish cross the U.S. Canadian border as pelagic larvae, juveniles, and possibly adults making their ontogenetic shift to deeper water or moving between areas of rocky habitat.

The 2002 assessment integrated what had previously been separate north-south assessments based on the observations of highest density occurring near headlands and International North Pacific Fisheries Commission (INPFC) boundaries commonly used to delineate management and assessment areas (Methot and Piner, 2002). They reasoned that splitting stocks or assessments at any INPFC boundaries would divide high-density areas that most likely are biologically linked. This logic was followed in the 2005 benchmark assessment and subsequent 2007 and 2009 update assessments, separating fishing fleets geographically to account for potential spatial patterns while retaining a coast-wide assessment area. All U.S. assessments have used the U.S.-Canadian border as the northern boundary for the stock, although the basis for this choice appears to be largely based on both (1) consistency with current management needs, and (2) data availability and feasibility of expanding data from multiple jurisdictions within a single stock assessment.

1.3 Ecosystem Considerations

Canary rockfish are reported to have a diverse diet. Pelagic juveniles consume copepods, amphipods and krill while adults consume krill and many species of small fish (Love et al., 2002). The degree to which variability in food supply may affect body condition, spawning success or annual growth is unknown. Canary rockfish are a medium to large-bodied rockfish

that achieve a maximum size of around 70 cm. Female canary rockfish reach slightly larger sizes than males.

Although ecosystem factors have not been explicitly modeled in this assessment, there are several important aspects of the recent California current ecosystem that appear to warrant consideration. Lingcod, a potentially important predator of small canary, have rebuilt over the last two decades (Hamel et al., 2009). To the extent that the component of natural mortality of canary rockfish added by predation from lingcod and other predators has been increasing over recent years, recruitment may be underestimated. This effect could also lead to longer than predicted rebuilding times for canary rockfish. The effects of the Pacific Decadal Oscillation (PDO) on California current temperature and productivity (Mantua et al. 1997) may also contribute to non-stationary dynamics for canary rockfish. The prevalence of a strong 1999 year-class for many west coast groundfish species suggest that environmentally driven recruitment variation may be correlated among species with relatively diverse life-history strategies (Stachura et al., 2014; J. Thorson et al., 2013). Much research is currently underway to explore these phenomena, and it appears likely that more explicit exploration of ecosystem processes and influences may be possible in future canary rockfish stock assessments.

1.4 Fishery Information

The rockfish fishery off the U.S. Pacific coast developed first off California late in the 19th century and was catching an average of almost 2,500 metric tons per year over the period 1916-1940 (with an increase in catches in 1916, during World War I). To the north, the rockfish fishery developed slowly and became established during the early 1940s, when the United States became involved in World War II and wartime shortages of red meat created an increased demand for other sources of protein (Alverson et al., 1964; Harry and Morgan, 1961). Rockfish catches dropped somewhat following the war, and were generally stable from the 1950s to the 1960s.

Historically, the vast majority of canary rockfish off the U.S. Pacific coast have been harvested by commercial trawling vessels, followed by hook-and-line (primarily vertical longline), shrimp trawls, and various miscellaneous gears (e.g., nets and pots). In 1977, when the Magnuson Fishery Conservation and Management Act (MFCMA) was enacted, the large foreign-dominated rockfish fishery that had developed since the late 1960s had its catches eliminated, and the domestic trawl fishery subsequently increased its catches. Canary rockfish were also sought by recreational anglers and considered to be a moderately important species caught in the private vessel and charter boat fisheries off Washington, Oregon, and northern California.

Inspection of the historical catch reconstruction for canary rockfish (Section 2.1.2) shows that reconstructed catches from 1892 to 2014 (Figure 2) were highest historically in the trawl and foreign fisheries. The trawl fishery was high during the end of WWII (1945: 4,034 mt), but decreased during the 1950s-1960s. A foreign fleet operated 1966-1976, and nearly exceeded the domestic trawl landings in 1966 (TWL: 1,647, FOR: 1,599 mt), and was replaced by the domestic bottom trawl fleet following the Magnuson-Stevens Act (1978: 3,853 mt). The trawl fishery reached a peak in the early 1980s (1982: 5,029 mt) and subsequently decreased after the establishment of strict management restrictions starting in the mid-1990s. The decrease in the trawl fishery has allowed the recreational and non-trawl fisheries to take a larger proportion of total catch in the 2000s, and catches during bottom trawl survey operations have also been a

nontrivial portion of total fishing mortality in the past decade. Catches also varied considerably among spatial strata, with the OR stratum having highest catches during the 1950-1960s, and again during the 1980s. Differences in exploitation history are considerable among areas, and support the use of a spatially stratified assessment model.

1.5 Management History and Performance

The first regulations established on the canary rockfish fishery off the U.S. Pacific coast were implemented in 1983 as trip limits (40,000 lb. per trip) on the entire Sebastes complex (a market category that at the time included all rockfish species except Pacific Ocean perch and widow) harvested from the U.S. Vancouver and Columbia INPFC areas (Pacific Fishery Management Council, 2002). Commercial vessels were not required to separate most rockfish catches into individual species, but rather, only into mixed-species categories, such as the Sebastes complex. Port biologists in each state routinely sample market categories (e.g., Sebastes complex) to determine the actual species composition of these mixed-species categories. Since 1967, various port sampling programs have been utilized by state and federal marine fishery agencies to determine the species compositions of the commercial groundfish landings off the U.S. Pacific coast (Sampson and Crone, 1997). Stratified, multistage sampling designs are currently used in the port sampling programs for purposes of evaluating the species compositions of the total landings, as well as for obtaining biological data on individual species (Crone, 1995; Sampson and Crone, 1997).

From 1983 through 1994, canary rockfish were monitored as part of the Sebastes complex, with various trip limits imposed over this 10-yr span. In 1993 and 1994, commercial fishermen communicated that fewer canary rockfish were being caught in their rockfish tows (Pacific Fishery Management Council, 2002). The 1994 canary rockfish stock assessment (Sampson and Stewart, 1994) confirmed that the observed declines in the field were likely the result of a population that had not responded favorably to recent levels of fishing pressure and further recommended that the canary rockfish quota (Acceptable Biological Catch or ABC) be reduced to allow the stock to recover. Beginning in 1995, the ABC for canary rockfish was reduced nearly 60%, to 1,250 mt. In 1995, trip limits specific to canary rockfish (cumulative monthly trip limit of 6,000 lb.) were imposed and commercial vessels were required to sort canary rockfish from other rockfishes. In 1998, catches of canary rockfish were regulated using a two-month cumulative trip limit of 40,000 lb. for the Sebastes complex, of which, no more than 15,000 lb. (38%) could be composed of canary rockfish, i.e., although this species was allocated its own market category, it was still being managed as part of the mixed-species complex. The ABC was further reduced to 1,045 mt.

The two stock assessments conducted in 1999 (California and Washington-Oregon) found the stock to be depleted and an overfished determination was made in 2000. Subsequently, commercial and recreational fishing opportunities were severely restricted and recent removals have been from bycatch. Canary rockfish have become a limiting species for fisheries that target other commercially important species on the continental shelf. The OY in 2003 was 44 mt; which was only about 1% of the peak annual catches in the early 1980s. Management regulations were sufficiently strict to keep the catch that year to only 51 mt. Canary rockfish remains one of the most intensively followed species by regulatory agencies, NGO's and industry. Table 1 summarizes the coast-wide ABC's and catch in recent years.

Beginning in 2000, shelf rockfish species (including canary) could no longer be retained by vessels using bottom trawl footropes with a diameter of greater than 8 inches. The use of small-footrope gear increases the risk of gear loss in rocky areas, and this restriction was intended to discourage trawlers from fishing in high-relief, rocky habitat. The impact of the change in gear regulations was reinforced through reductions in landing limits for all other shelf rockfish species.

During 2002 the trawl and non-trawl "Rockfish Conservation Area" (RCA) were implemented to reduce bycatch of overfished rockfish species such as canary in the northern portion of the coast and Boccaccio rockfish in the south. The RCA has since been used as a management tool in each year. Specific boundaries for the trawl RCA have varied across bimonthly periods within and among years in response to changing discard rates and fishery dynamics. In 2003, the shoreward boundary of the RCA ranged from the shoreline to 100 fm. (183 m), and the seaward boundary from 200 to 250 fm. (366-457 m). Small-footrope gear was required shoreward of the RCA when these areas were open, and retention of canary rockfish was limited to 100 to 300 lbs. per month for the limited entry trawl fisheries north and south of 40º10'. Retention of canary rockfish was prohibited in the limited entry fixed gear fishery. In 2004, the shoreward boundary of the RCA ranged from the shoreline to 75 fm. and the seaward boundary from 150 to 250 fm. (274-457 m). This dynamic pattern of the closed area extending from the shoreline (or 75 fm.) out to 150 fm. (274 m), 200 fm. (366 m) or 250 fm. (457 m) has continued through 2015. Deeper depths are generally closed in the winter months and there are a number of latitudinal differences in the extent of the current RCA, however the large majority of depths deeper than 75 fm. (137 m) where canary rockfish occur are now closed to all commercial on-bottom fishing for groundfish. It is possible that by closing most of the depth range of the species the RCA has influenced the size range of canary rockfish available to the fishery. Smaller canary rockfish are available to the commercial fishery when the shoreward boundary is set at 137 m, while some of the larger fish may occur in the closed area. Juvenile canary rockfish are also available to the nearshore commercial and recreational fisheries.

Bimonthly trip limits have remained very small in recent years. Beginning in 2005, the modified "flatfish" trawl gear has been required shoreward of the RCA. This gear was found to reduce the catch-per-unit-effort of canary rockfish relative to standard commercial gear in pilot experiments (King et al., 2004).

Recreational limits have also been substantially reduced for more than a decade. After first reducing bag limits, since 2003 all three states have allowed no retention of canary rockfish during recreational fishing. Mortality associated with this fishery is now comprised of discard mortality from fish that are caught while targeting other species such as Pacific halibut (*Hippoglossus stenolepis*) or other rockfish.

Beginning in 2000, when the stock was first managed as an overfished species management harvest guidelines were dramatically curtailed. Since that time, the fishery has been far below ABC levels (< 300 mt).

A groundfish trawl rationalization program was commenced in 2010 via Amendment 20 to the Groundfish Fisheries Management Plan. Under this program, groundfish limited entry trawl vessels making shoreside deliveries are managed primarily through a system of individual fishing quotas (hereafter referred to as ITQs). Trawl permit holders were provided with quota share percentages of the allowable catch of major species and assemblages, based on historical

fishery participation. After Annual Catch Limits are set for species for a given year, the shares are used to calculate individual quotas (in weight) that represent the amount of species' catch the permitted individual (and associated vessel) are entitled to catch. Unlike previous management, which relied on limiting the landings of vessels, the new system holds individual vessels responsible for retained and discarded catch. Discard amounts are verified by 100% at-sea observation of participating vessels. Vessel accountability for discards has generally led to a reduction in fleet discards since implementation for Pacific rockfishes as a whole. A system for tracking quota balances was also created, and vessels are not allowed to fish when they have negative balances for any species/assemblage. Quota pounds have been transferable between permit holders since the program's beginning, and now the shares of most species may be sold. Accumulation of shares or pounds is subject to accumulation and usage caps. Additionally, the program provided the opportunity for trawl pounds to be fished with other gears on qualified vessels ("gear switching").

Catch accountability for motherships and associated catcher-vessels in the mothership sector for Pacific hake was achieved through a system of regulated cooperatives. Pacific hake catcher-processors operated for years as a voluntary cooperative, and that arrangement was formalized by provisions of Amendment 20. Cooperatives in both of these sectors receive annual poundage allocations of hake and non-hake species, based on the entitlements of cooperative members, and these amounts are not transferable between cooperatives. There is also no provision for voluntary transfers of pounds or shares between fishery sectors.

1.6 Fisheries off Canada, Alaska, and/or Mexico

Canary rockfish in Canadian waters appear to have similar life-history characteristics (Stanley et al., 2005). Longevity appears consistent with the U.S. coast, with a maximum observed age of 84 years. The rapid disappearance of females older than age 20-25 is clearly observed in the Canadian samples summarized in 2005 (Stanley et al., 2005, p. 11). The canary rockfish resource in Canadian waters is estimated to be stable in each of three areas: the coast of Vancouver Island, central Queen Charlotte Sound and the north coast (Stanley et al., 2005). Removals by the trawl fishery have been relatively stable since 1996 at just under 500 mt for the Vancouver Island area, but were around twice that level over the preceding decade.

It is difficult to conclude what the current status of canary rockfish is off Alaska. In the federal waters off the Gulf of Alaska, canary rockfish are assessed and managed as a minor part of an assemblage including seven species of demersal shelf rockfishes (Green et al., 2014). The primary component of this 'non-commercial' group is yelloweye rockfish (*Sebastes ruberrimus*), although quillback (*Sebastes maliger*), copper (*Sebastes caurinus*), China (*Sebastes nebulosus*), tiger (*Sebastes nigrocinctus*) and rosethorn (*Sebastes helvomaculatus*) are also included. The primary biomass estimate of yelloweye rockfish is based on submersible observations. No direct indices of canary abundance in the Gulf of Alaska have been reported.

2 Assessment

2.1 Data

2.1.1 Data sources used in the assessment

This assessment uses data from the following sources, which includes all data that was used in the 2011 update assessment and additional data that have not previously been included in any canary assessment. All data sources (including abundance index, length composition, age composition, and catch time series) are split among three spatial strata. We split data sources among strata to allow for examination of strata-specific patterns in model residuals (Punt et al., 2015), and because subsequent comparison demonstrates that spatial partitioning improves fit to the available data. Each data sources is summarized here, and then discussed in more detail below:

1. Data regarding total removals of canary rockfish, from all fisheries and surveys, are reconstructed for years 1892-2014. These data are obtained from several sources:
    a. Landed catch for commercial fisheries are compiled by PacFIN (1981-2014)
    b. Recreational catches are compiled by RecFIN for Oregon and California (1981-2014) with recreational estimates provided by California for earlier years (1928-1979). Recreational catches for Washington were compiled from information provided by WDFW (1967-2014).
    c. State provided historical catch reconstructions for Oregon (1892-1986) and California (1916-1980). Washington historical catches (1935-1980) for the trawl fleet were based on estimates from the previous full assessment in 2007, published by Hongskul (1975), Tagart and Kimura (1982), and WDFW fish ticket estimates.
    d. Foreign trawl fleet catches from 1966-1976.
    e. Total discards for recent years (2003-2014) are estimated in the annual mortality report using data from a variety of sources including the West Coast Groundfish Observer Program, and are publicly available: http://www.nwfsc.noaa.gov/research/divisions/fram/observation/data_products/species_management.cfm.
    f. Discard rates for 1981-1994 are obtained from the Pikitch study as analyzed by J. Wallace.
    g. Catches from triennial and WCGBT surveys are available from their respective repositories.
2. Fishery-independent data are included from three different surveys:
    a. The Triennial survey conducted by the Alaska Fisheries Science Center provides abundance index, length composition, and age-composition samples and was included for years 1980-2001;
    b. The West Coast Groundfish Bottom Trawl Survey (WCGBTS) conducted by the Northwest Fisheries Science Center also provides abundance index, length composition, and age-composition samples, and was available for years 2003-2014;
    c. The pre-recruit survey, which combines data collected by the Southwest Fisheries Science Center, Northwest Fisheries Science Center, and Pacific Whiting Conservation Cooperative provides a relative index of density for pre-recruit fish, and was included for years 2001-2013.
3. Fishery-dependent data are included from the following sources:
    a. Length and age data from PacFIN
    b. Length data from RecFIN
    c. Length and age data from state sampling programs for Oregon and Washington

    d. Length and age data from at-sea hake bycatch
4. Estimates of life history parameters are generated from various sources, and include:
    a. Updated maturity schedule, which now incorporates the average rate of skipped spawning, wherein mature individuals do not spawn in every year
    b. Updated fecundity information as provided by E.J. Dick
    c. Updated prior for natural mortality rate as provided by O. Hamel
    d. Updated prior on steepness, as computed by J. Thorson following methods developed by M. Dorn
    e. Updated weight-at-length relationship as estimated from fishery independent data sources listed above
    f. Updated estimates of ageing error, which now estimates bias and imprecision for surface-read otoliths, as necessary for their inclusion in the current assessment

These data sources are illustrated in Figure 3.

2.1.2 Total removals

Removals (1892-20014) for canary rockfish were compiled from multiple data sources. This assessment includes total removals (landings plus dead discards) by stratum for the following fleets: trawl, non-trawl, recreational, foreign trawl, at-sea hake, and research removals. A summary of total removals are provided in Table 5, Table 6, and Figure 2.

2.1.2.1. Washington

The historical landings (1935-1965) for Washington were retained from the last full assessment (see Stewart 2007 for additional details). The landings from 1966-1980 were compiled from three different sources; 1966 from Hongskul (1975), 1967-1969 from Tagart and Kimura (1982), and 1970-1980 from WDFW fish ticket estimates.

In 1966, the Washington Department of Fish and Wildlife (WDFW) initiated a sampling program to estimate landings of each rockfish species within these mixed species complexes. Tagart and Kimura (1982) described methodology employed in calculating rockfish landings by species based on data collected by the WDFW sampling program, providing a time series of canary rockfish landings by year between 1967 and 1969. and Tagart and Kimura (1982) The rockfish landings for 1966 were compiled by Hongskul (1975). However, no species-specific catches were estimated. To derive estimates of canary rockfish from rockfish landings for 1966, the proportion of canary rockfish in landings from 1967-1969 was estimated from the Tagart and Kimura (1982) data set. There was no available information for historical non-trawl landing in Washington. Recent landings (1981-2014) for these two gear types were obtained from PacFIN (Pacific Fisheries Information Network (PacFIN) retrieval dated March 3, 2015, Pacific States Marine Fisheries Commission, Portland, Oregon; www.psmfc.org).

2.1.2.2. Oregon

Historical reconstructed trawl and hook & line landings of canary rockfish from Oregon for the years 1892–1986 were obtained from Vladlena Gertseva (NWFSC, NOAA). A description of the methods can be found in Karnowski et al. (2011). Recent landings (1987-2014) for these two gear types were obtained from PacFIN (Pacific Fisheries Information Network (PacFIN)

retrieval dated March 3, 2015, Pacific States Marine Fisheries Commission, Portland, Oregon; www.psmfc.org).

2.1.2.3. California

Historical commercial fishery landings of canary rockfish were obtained from the online database of the California Cooperative Groundfish Survey, also known as CALCOM (128.114.3.187) for the years 1916–1980. A description of the methods can be found in Ralston et al. (2010). Recent landings by trawl and hook & line gear types (1981-2014) were obtained from PacFIN (Pacific Fisheries Information Network (PacFIN) retrieval dated March 3, 2015, Pacific States Marine Fisheries Commission, Portland, Oregon; www.psmfc.org).

2.1.2.4. At-sea hake fishery

Catches of canary rockfish are monitored aboard the vessel by observers in the At-Sea hake Observer program (ASHOP) and were available for the years of 1975-2014. Observers use a spatial sample design, based on weight, to randomly choose a portion of the haul to sample for species composition. For the last decade, this is typically 30-50% of the total weight. The total weight of the sample is determined by all catch passing over a flow scale. All species other than hake are removed and weighed, by species, on a motion compensated flatbed scale. Observers record the weights of all non-hake species. Non-hake species total weights are expanded in the database by using the proportion of the haul sampled to the total weight of the haul. The catches of non-hake species in unsampled hauls is determined using bycatch rates determined from sampled hauls. Since 2001, more than 97% of the hauls have been observed and sampled.

2.1.2.5. Recreational Fishery

Estimates of recreational catch from 1928-2014 were generated through use of the RecFIN information system and also obtained directly from the states. The RecFIN information system contains data for the years of 1980-2014 with estimates in the early period based on data gathered using Marine Recreational Fisheries Statistics Survey (MRFSS) sampling protocols. However, in more recent years, estimates for some segments of the recreational fishery have relied primarily on data collection programs administered by the state agencies. The MRFSS procedure has generally been used to estimate effort of recreational fishermen, through use of phone surveys, and species catch composition and CPUE through port sampling of individual trips. Recreational landings were compiled from the following sources by state and time period: Washington, 1967-1986 and 1990-2014 from state sampling program (P. Weyland, personal communication). The Washington recreational catch for the missing three years (1987-1989) were obtained from RecFIN. Oregon: 1981-1989 and 1993-2013 from RecFIN. California: Historical estimates from 1928-1979 were obtained from the California historical catch reconstruction available through CALCOM. Recreational catches for California from 1981-1989 and 1993-2013 were obtained from RecFIN. Missing data from 1990-1992 were interpolated based on adjacent years for Oregon and California. The removals for 1980 contained in RecFIN were not used due to survey quality problems (Karpov et al. 1995, Cope and Key 2009). The catch for this year for California and Oregon were estimated by extrapolating between the removals in 1979 and 1981.

Recreational length-frequency distributions were compiled from data available through RecFIN for California and Washington select years, while data were obtained from Oregon (A. Dauble, personal communication) and Washington (P. Weyland, personal communication). Age-frequencies were only available for Washington (P. Weyland, personal communication)

2.1.2.6. Foreign Catches

From the 1960s through the early 1970s, foreign trawling enterprises harvested considerable amounts of rockfish off Washington and Oregon, and along with the domestic trawling fleet, landed large quantities of canary rockfish. Foreign catches of individual species were estimated by Rogers (2003) and attributed to INPFC areas for the years of 1966-1976 for canary rockfish. However, INPFC areas do not coincide with the spatial strata defined in this assessment. INPFC catches were translated to strata in the following manner: catches from the US Vancouver and Columbia INPFC areas were designated to the 46-49°N stratum, catches in the Eureka INPFC area were allocated to the 42-46°N stratum, and catches from the Monterey INPFC area were assigned to the 32-42°N stratum.

2.1.2.7. Discards

Estimates of dead discards are combined with landed catch when computing the "catches" input into the Stock Synthesis model (Table 8). The ratio of discarded weight to landed weight (here termed the "discard ratio") for the domestic trawl and non-trawl fisheries were assumed at the following values: 1892-1980 using 1% discard ratio, based on the assumption that discard rates were low prior to management actions, due to the high-value nature of the fishery (and in agreement with previous assessments, Stewart 2007), 1981-1994 using a 5% discard ratio, (at approximately the value calculated by J. Wallace using data from (Pikitch et al., 1988), 1995-1999 using a 20% discard ratio, and 2000-2001 using the average discard ratio 2002-2004 for all states combined (i.e., 77% for the trawl, and 210% for the nontrawl). Discard amounts for the domestic trawl, non-trawl, and at-sea hake fisheries from 2002-2013 were calculated from estimates provided by the West Coast Groundfish Observer Program, which estimates dead discards for each fishery and state. The average discard amounts from 2011-2013 was used to calculate the amount of discards in 2014. Discards for the recreational fishery are calculated directly from RecFIN for Oregon and California, and discards in the foreign fishery are assumed to be negligible. Discards for the Washington recreational fishery were estimated directly from number of released fish provided by the state where discard mortality was assumed to 42%, an estimated weighted average based on the death by depth data (PFMC 2014).

2.1.3 Fishery-independent data

Fishery-independent data are derived from three main sampling programs: the triennial survey (1980-2004), the West Coast groundfish bottom trawl survey (WCGBTS; 2003-2014), and the pre-recruit survey. Each source of information is used to generate an index of abundance. The triennial and WCGBTS also provide age and length-composition sampling data.

2.1.3.1. WCGBT Survey

The NWFSC survey is based on a random-grid design, covering the coastal waters from a depth of 55 m to 700 fm. (Bradburn et al., 2011). This design uses four vessels per year (except in years 2004 and 2014, when only three vessels were available), assigned to a roughly equal

number of randomly selected grid cells divided into two 'passes' of the coast executed from north to south. Two vessels fish during each pass. This design therefore incorporates both vessel-to-vessel differences in catchability as well as variance associated with selecting a relatively small number (~700) of possible cells from a very large population of possible cells spread from the Mexican to the Canadian border. Much effort has been expended on appropriate analysis methods for this type of data (Helser et al., 2004; Shelton et al., 2014; Thorson et al., 2015b, 2012a, 2011; Thorson and Ward, 2013, 2014).

The NWFSC survey encounters canary infrequently, generally in less than 10% of the total tows conducted (Table 3, including slope tows, beyond the depth distribution for canary). However, when canary aggregations are encountered catches can be as large as 4.9 mt in a single 12-15 minute tow; this equates to an average density of approximately 1 kg·2.5 m^{-2}. During the period 2003-2006, there were only 10 tows that captured more than 500 kg of canary rockfish, 2004: 924 kg, 2005: 907 kg, 2006: 4,942, 1,250 and 653 kg, 2008: 536 kg, 2010: 1289 kg., 2011: 560 kg., 2012: 822 kg, 2014: 1588 kg. These large tows are located primarily off the northern Washington coast near the Canadian border, with some located off the Oregon or Northern California coasts. The presence of infrequent very large tows creates a strongly right-skewed distribution of catch rates, still visible after log-transformation. These very large catches do not appear to be dominated by either very large individuals or very small individuals, indicating that these areas represent neither recruitment 'hot-spots', nor unexploited 'pockets' of very old canary rockfish.

2.1.3.2. Triennial survey

The longest-running source of fishery-independent data regarding the abundance of canary rockfish is the triennial shelf trawl survey conducted by NMFS starting in 1977 (Dark and Wilkins, 1994). The sampling methods used in the survey over the 24-year period are most recently described in Weinberg et al. (2002); the basic design was a series of equally spaced transects from which searches for tows in a specific depth range were initiated. In some parts of the coast this led to a very non-random allocation of stations with regard to the entire shelf area (Figure 4). In general, all of the surveys were conducted in the mid-summer through early fall: the survey in 1977 was conducted from early July through late September; the surveys from 1980 through 1989 ran from mid-July to late September; the survey in 1992 spanned from mid-July through early October; the survey in 1995 was conducted from early June to late July; the 1998 survey ran from early June through early August; and the 2001/2004 surveys were conducted in May-July. The initial year of the survey in 1977 was based on a sampling design that spanned from 50 to 260 fm. (91 to 475 m), i.e., it did not come as far inshore (30 fm.) as the subsequent surveys conducted on a triennial basis from 1980 to 2001.

When estimating an index of abundance, we restrict analysis to depths from 55-366m and excluded tows outside to the US exclusive economic zone (i.e., in Canadian waters) to produce the only consistent time-series available. Surveys that have extended south of Monterey have detected only very small abundances relative to the north, so lack of sampling in this area does not influence the relative index. Because of the large number of 'water hauls' eliminated in 1977, especially in the US Vancouver INPFC area, and because the sampling depths were not the same as the other years, the 1977 survey year was not used in the assessment. A full description of the water haul issue can be found in Zimmerman et al. (2001).

2.1.3.3. Pre-recruit survey

A mid-water trawl survey of pre-recruit pelagic juvenile rockfish (Sebastes sp.) and Pacific hake (*Merluccius productus*) has been conducted by the Southwest Fisheries Science Center since 1981. Until 2000, this survey consisted of 1-3 passes over a relatively limited area from 36º-39º North latitude (the "core-area") off the central California coast (roughly 25% of the U.S. coastline). Beginning in 2001, the PWCC/NWFSC contributed a second vessel, and the geographic extent of this survey was dramatically increased to cover nearly the entire U.S. coastline. The survey spanned 35º-45º from 2001-2003, 33º-47º in 2004, and 33 º-48 º in 2005-2006. In 2006, a workshop was held to evaluate the application of pre-recruit indices as auxiliary information to estimate and predict year class strengths in stock assessments and to better understand how the distribution of specific species and the extent of survey coverage might influence the use of these data. In this assessment, we use strata-specific estimates of pre-recruit densities, as provided by J. Field and S. Ralston (pers. comm., 2015)

2.1.3.4. Index standardization

Data from the triennial and WCGBT surveys are typically analyzed using either design-based or delta-generalized linear mixed model methods. The design-based method has the advantage of easy interpretation, but fails to account for the correlation among samples generated by the same vessel in the same year. Failing to account for intra-class correlation, such as this, will generally cause the estimated standard error of an index to be negatively biased relative to the standard error with nominal coverage. For this reason, indices of abundance on the West Coast are typically generated using the delta-GLMM model-based framework (Helser et al., 2004). Design-based estimators may also represent a statistically inefficient use of available data (i.e., an estimation variance greater than a model-based estimator). The delta-GLMM analysis framework separately estimates the probability of encountering at least one canary (as a logistic mixed regression) and the distribution of catches for tows with at least one canary (a generalized linear mixed model). The delta-GLMM also includes each vessel in each year as an independent random effect, representing the selection of vessels for the contracted survey from a population of potential fishing vessels on the US West Coast bottom trawl fishery.

Recent research has termed the large and infrequent catches observed for canary and many other rockfishes "extreme catch events" (ECEs; (Thorson et al., 2011)). Thorson et al. (2011) dealt with them during index standardization by treating the distribution of positive catches as a mixture distribution composed of the distributions for solitary individuals, and the distribution for fish shoals (treated as a loglinear offset from the distribution of solitary individuals). Simulation testing indicates that this treatment of fish shoals decreases the sampling variance that otherwise occurs from a few infrequent observations have large leverage (Thorson et al., 2012a).

More recent research has advocated the use of geostatistical delta-GLMMs for analyzing survey data of patchy species such as canary rockfish (Shelton et al., 2014). This advice was supported by a recent comparison of stratified and geostatistical delta-GLMMs for West Coast species, where the geostatistical method decreased the imprecision of estimated abundance indices on average for simulated data (Thorson et al., 2015b). The geostatistical approach to index standardization treats spatial variation in either encounter rates of positive catch rates as a random function, where the value of this random function at 1000 pre-defined locations

("knots") is treated as a random effect. In this way, annual variation and the magnitude of residual variation and variation among vessels can be treated as fixed effects, and estimated via maximum marginal likelihood.

We analyze data from the triennial survey using version 1.0.0 of the Bayesian stratified delta-GLMM, implemented as an R package *BayesDeltaGLM* and publicly available here: https://github.com/nwfsc-assess/nwfscDeltaGLM. A full description of this model can be found in Thorson and Ward (2013, 2014). We include Julian calendar date as a covariate during analysis of data 1980-2004 to account for differences in availability due to changes in timing of the survey (i.e., before and after 1995). We include three spatial strata, corresponding to the three strata in our base model, and also exclude any data with depth <55m or >366m (i.e., only using data for within the range of depths where canary are present). We select among eight candidate models, formed from the combination of four potential distributions for positive catch rates (lognormal, gamma, lognormal-ECE, gamma-ECE) and two potential treatments of spatiotemporal variation (including or not including the interaction of spatial stratum and year as a random effect). All models are run using three independent Markov chain Monte Carlo simulations, where each simulation involves 100,000 samples as burn-in, followed by 100,000 monitored samples, with a thinning rate of 100 (i.e., retaining 3,000 samples across all three simulations). We checked for evidence of non-convergence by visual inspection of mixing in sampling chains for all estimated and derived parameters, and found no evidence of non-convergence. DIC was used to select among candidate models, and supported the use of the gamma-ECE model with a stratum-year interaction treated as random. To check for evidence of poor model fit, we display the Bayesian quantile-quantile plot, generated by calculating the posterior quantile of each datum relative to the predictive distribution of the fitted model, and then comparing the distribution of mean-quantiles with a null distribution. This Q-Q plot (Figure 5) reveals no evidence that the stratified delta-GLMM fails to capture the variability present in the positive catch rates of the triennial data. We then extract indices of abundance for each of the three strata. These indices show similar trends in abundance in all three strata, where relative abundance reached a low-point around the 1995 survey and has since exhibited some degree of rebuilding (Figure 6).

We analyze data from the WCGBTS using version 3.2.0 of the geostatistical model, implemented as an R package *SpatialDeltaGLMM* and publicly available here: https://github.com/nwfsc-assess/geostatistical_delta-GLMM. This software uses Template Model Builder (Kristensen, 2014; Kristensen et al., 2016) to integrate across the latent probability of random effects, when maximizing the marginal likelihood function (Thorson and Minto, 2015). We additionally include pass (levels: first or second) as a covariate in the model, to account for unbalanced sampling between the first and second passes in years 2004 and 2014. We select among four potential model treatments, i.e., treating positive catch rates as following a lognormal, gamma, lognormal-ECE, or gamma-ECE distribution. The model using the gamma-ECE distribution did not converge, and AIC indicated greatest support for the lognormal-ECE distribution among other model options. We therefore used the geostatistical model with the lognormal-ECE distribution to generate an index of abundance for the WCGBTS for years 2003-2014. Following advice from the Science and Statistical Committee, we display the Quantile-Quantile plot, generated by comparing each observed datum with its predicted distribution under the fitted model, calculating the quantile of that datum, and comparing the distribution of

quantiles with its expectation under a null model (i.e., a uniform distribution). This Q-Q plot is shown in Figure 7, and shows no evidence that the model fails to capture the shape of dispersion shown in the positive catch rate data. The estimated spatial distribution of canary densities is shown in Figure **8**, and shows that the highest densities are predicted to occur in Northern Washington, where the extreme catch events are most often clustered. This estimated density throughout the WCGBTS sampling domain is then post-processed to generate three separate indices of abundance, corresponding to the three spatial strata used in the base model (CA: 32-42°N, OR: 42-46°N, WA: 46-49°N), and coast-wide areas between depths of 55 and 366 m. These indices are shown in Figure 9 and, as expected, the greatest estimated abundance occurs in WA, followed by OR and with substantially lower abundance in CA.

As recommended by the PFMC Science and Statistical Committee (SSC) during its review of the geostatistical index standardization approach, we also estimated an index of abundance while analyzing the WCGBTS using the Bayesian stratified delta-GLMM (again using v1.0.0 of the R package *BayesDeltaGLM*). We select among the same either models as were explored when analyzing data from the triennial survey. For each model, we use three chains with 100,000 burn-in and 100,000 monitored samples with a thin rate of 100 per chain. We again check for evidence of non-converge using trace-plots, the Gelman-Rubin R-hat statistic, and autocorrelation plots, and find no evidence of non-convergence for any model. DIC selects a model using the gamma-ECE distribution with a random strata-year interaction, and the Quantile-Quantile plot for this model (Figure 10) provides no evidence for a lack of model fit.

A comparison of stratified and geostatistical indices of abundance, with the design-based estimate also shown (Figure 11) illustrates that the design-based index is highly sensitive to extreme catch events, as previously reported (Thorson et al., 2011). The stratified and geostatistical indices are generally similar coast-wide and for each individual stratum, although the geostatistical model has slightly smaller intervals, as predicted by Thorson et al. (2015b). We later present a sensitivity analysis when including the index estimated by the stratified model in the base assessment model, compared with using the geostatistical index.

2.1.3.5. Expansion of length and age-composition samples

Twenty-eight bins from 12 to 66 cm were used to summarize the length frequency of the survey catches in each year, the first bin including all observations less than 12 cm and the last bin including all fish larger than 66 cm. For the length-composition samples from the WCGBTS, these bins are populated with a modest, but consistent degree of sampling: 32-75 tows and 423-1467 fish per year (Table 1). The Triennial survey (Table 2) has a similar number of tows per year (13-95) but considerably larger numbers of fish per year (407-3119). Input sample sizes for length-composition data are calculated using the same formula as was used in the 2007 benchmark assessment. In summary, this method was based on analysis of the input and model-derived effective sample sizes from stock assessments completed in 2005 for west coast groundfish. It makes the input sample size a function of both the number of fish sampled and the number of trips or hauls sampled. A piece-wise linear regression was used to estimate the increase in effective sample size per sample based on fish-per-sample and the maximum effective sample size for large numbers of individual fish:

$$N_{input} = \begin{cases} N_{tows} + 0.138N_{fish} & \text{when } \dfrac{N_{fish}}{N_{tows}} < 44 \\ 7.06N_{tows} & \text{when } \dfrac{N_{fish}}{N_{tows}} \geq 44 \end{cases}$$

These values are likely to represent a reasonable starting point that generally reflects the degree of observation error commensurate with sampling a given number of fish from a given number of samples. They were used most recently in the 2013 darkblotched rockfish benchmark assessment (Gertseva and Thorson, 2013).

Age-frequency data from the Triennial and WCGBT surveys were compiled as conditional age-at-length distributions by sex and year. Individual length- and age-observations can be thought of as entries in an age-length key (matrix), with age across the columns and length down the rows. The approach consists of tabulating the sums within rows as the standard length-frequency distribution and, instead of also tabulating the sums to the age margin, instead the distribution of ages in each row of the age-length key is treated as a separate observation, conditioned on the row (length) from which it came. This approach has several benefits for analysis above the standard use of marginal age compositions. First, age structures are generally collected as a subset of the fish that have been measured. If the ages are to be used to create an external age-length key to transform the lengths to ages, then the uncertainty due to sampling and missing data in the key are not included in the resulting age-compositions used in the stock assessment. If the marginal age compositions are used with the length compositions in the assessment, the information content on sex-ratio and year class strength is largely double-counted as the same fish are contributing to likelihood components that are assumed to be independent. Using conditional age-distributions for each length bin allows only the additional information provided by the limited age data (relative to the generally far more numerous length observations) to be captured, without creating a 'double-counting' of the data in the total likelihood. The second major benefit to using conditional age-composition observations is that in addition to being able to estimate the basic growth parameters (L age-1, L age-30, K) inside the assessment model, the distribution of lengths at a given age, usually governed by two parameters; the CV of length at some young age and the CV at a much older age, are also quite reliably estimated. This information could only be derived from marginal age-composition observations where very strong and well-separated cohorts existed, that were quite accurately aged and measured; rare conditions at best. By fully estimating the growth specifications within the stock assessment model, this major source of uncertainty is included in the assessment results, and bias due to size-based selectivity is avoided. Therefore, to retain objective weighting of the length and age data, and to fully include the uncertainty in growth parameters (and avoid potential bias due to external estimation where size-based selectivity is operating) conditional age at-length compositions were developed for the triennial and WCGBT survey data.

Age distributions included 35 bins from age 1 to age 35, with the last bin including all fish of greater age. Input sample sizes were fixed at the number of unique fish within a given length bin. The age samples consists of approximately one-quarter as many fish, as the samples for length (Table 3 and Table 4). These distributions show a tight range of ages at a given length, and clearly show the growth trajectory of females reaching larger sizes than males for a given age. It is often useful for interpretation to compute the marginal age-compositions, and include

these in the assessment model (with the likelihood contribution turned off, so they do not affect model fit in any way) for comparison of the 'implied' fit to the margin of the age-length key. Although these NWFSC age distributions seem to show some diagonal structure, close inspection reveals that it does not track consistently through any of the recent cohorts. This time series is short, and does not encompass the period when substantial reductions in the canary population occurred, and so may be relatively uninformative in the assessment model, except for estimation of growth parameters.

2.1.4 Fishery-dependent data

Commercial landings of rockfish and the biological characteristics of these landings were not consistently sampled for scientific purposes until the early 1960s (Niska, 1976). Statewide sampling programs to determine species compositions of the landed catches began in the late 1960s. The first rigorous monitoring programs that included routine collection of biological data (e.g., sex, age, size, maturity states, etc.) were begun in 1980. Currently, port biologists employed by each state fishery agency (California Department Fish and Game, Oregon Department of Fish and Wildlife - ODFW, and Washington Department of Fish and Wildlife - WDFW) collect species-composition information and biological data from the landed catches of commercial trawling vessels that have completed their fishing trips. The sampling sites are commonly processing facilities located at ports along the coasts of California, Oregon and Washington. The monitoring programs currently in place are generally based on stratified, multistage sampling designs.

Commercial length-frequency distributions were developed for each fleet for which observations were available, following the same bin structure as was used for research observations. For each fleet, the raw observations (compiled from the PacFIN) were expanded to the sample level, to allow for any fish that were not measured, then to the trip level to account for the relative size of the landing from which the sample was obtained. These expanded length observations were then combined within years for each fleet. Age frequencies were computed in the same manner. Sampling statistics for each fleet and year are given in Table 5, Table 6, Table 7, Table 8, Table 9, Table 10, Table 11, and Table 12, and clearly show the different sampling targets employed over different time periods and between state agencies.

The weighted length-frequency distributions are shown in Figure 12- Figure 23. The annual observations were recorded as unidentified sex; both sexes were combined and are treated as such in the model. By fleet, a number of important patterns are visible in the data. The trawl fleets for each state, although the data are noisy, appear to show a decline in mean length of the catch from 1978 to 2000 (Figure 12, Figure 13, and Figure 14), with an increase in the mean length for recent years of the landed catch. The length composition data from the non-trawl fleet are much sparser compared to the trawl fleet making it difficult to discern a pattern in the mean length landed (Figure 15, Figure 16, and Figure 17). The at-sea hake fishery was comprised of larger lengths relative to the trawl fishery, with the majority of length samples from Washington (Figure 18, Figure 19, and Figure 20). All three recreational fleets appear to generally target smaller fish relative to the other fleets (Figure 21, Figure 22, and Figure 23).

Marginal commercial age-frequency distributions were compiled and are presented in Figure 24 - Figure 33. Age composition samples are expanded similarly to the commercial

length samples (i.e., first by sample, and then by trip). We expand age composition samples independently for each state, and also separately for three age determination categories: (1) ages read by using break-and-burn methods by ODFW or CAPS, (2) ages read by break-and-burn methods by WDFW, and (3) ages read using surface methods by any lab. Age data for California were very sparse (no data between 1986 and 2000), but the majority of observed fish being younger than age 19 in recent years (Figure 24). Age compositions for the Oregon trawl fleet show a clear decline in both males and females older than ~ age 20 from the mid-1980s to recent years (Figure 25). In Washington, although missing age data from much of the time-series, there are larger proportions of older ages compared to the other two states (Figure 26). Age data for the non-trawl fleet for all states is sparse enough that little pattern can reliably be discerned (Figure 27-Figure 29). Age data from the at-sea hake fishery was available for 2003-2013 and shows little pattern. Washington is the only state with age data from the recreational fleets, and these data show a larger portion of the sample fish being less than 10 years of age (Figure 33).

In aggregate, the biological data from fishery sources shows no evidence of strong year-classes moving through the population. This could be due to low recruitment variability, noisy data, or both. Further, declines in mean size and age seem to show a latitudinal cline, with more extreme declines to the south, and limited declines observed in Washington and Oregon.

2.1.5 Estimates of life history parameters

The stock assessment model requires specifying several life history parameters from analyses external to the model. These parameters include the maturity schedule, fecundity (the relationship between female weight and egg production), the natural mortality rate for males, the steepness of the stock-recruit relationship, individual condition (the relationship between individual weight and length), and estimates of error for determinations of individual age from reading otoliths.

2.1.5.1. Maturity schedule

We estimate the maturity schedule using all histological measurements of female ovaries available. This included 205 ovaries collected and read by Oregon Department of Fish and Wildlife, which were collected between March 4 and September 2, 2014 from Astoria (n=184) and Newport (n=21), as well as 436 ovaries collected during the WCGBTS between 2009-2014 (2009: 49, 2010: 83, 2011: 82, 2012: 52, 2013: 54, 2014: 116) from a range of depths (56-218 m.) and latitudes (35.7-48.3 N). Maturity for each ovary was determined by whether there were oocytes within developmental stages 3 or later, and additionally, and ovary where there was significant (>25%) atresia were classified as “immature”. Maturity therefore included information regarding both the probability of being at an age/length after the development of viable oocytes, as well as the rate at which otherwise mature individuals will skip spawning in a given calendar year. This latter process is termed “skipped spawning” and has been documented previously for canary rockfish (Stokes et al., In preparation).

The maturity schedule was then estimated by a three-parameter logistic regression model:

$$p_i = \hat{p}_{max} \frac{e^{\hat{\beta}(l_i - \hat{l}_{mid})}}{1 + e^{\hat{\beta}(l_i - \hat{l}_{mid})}}$$

$$O_i \sim Bernoulli(p_i)$$

where l_i is the length of individual i, *Bernoulli*(p_i) is a Bernoulli probability mass function with probability p_i, p_i is the probability that ovary i is mature, 1-$\hat{p}_{max}$ is the probability of skipped spawning for mature individuals, $\hat{\beta}$ is the estimated slope of the logistic function, and $\hat{l}_{mid}$ is the length at which half of individuals are mature. Parameters for this model were estimated using Template Model Builder, and the expected maturity schedule was calculated using the generalized delta-method. Examination of the estimated maturity schedule (Figure 34) illustrates a nearly 7.1% chance that mature individuals will skip spawning in a given calendar year, and that the length of 50% maturity occurs around 42 cm.

2.1.5.2. Fecundity

Fecundity information was updated based on the dissertation of E.J. Dick (Dick, 2009). Comparison of old and new fecundity relationships (Figure 35) illustrates that the new relationship has a somewhat increased benefit of old and large females relative to young and small females in terms of contribution to spawning output. The new relationship has also decreased spawning output somewhat overall, but this has no effect on model results given that spawning output is defined relative to unfished levels and hence the absolute scale is unimportant.

2.1.5.3. Natural mortality rate

We update the prior for the natural mortality rate from the value (M=0.06) used in the previous 2007 benchmark and maintained in the 2009 and 2011 update assessments. The prior is computed by O. Hamel (Hamel, 2015) and for rockfishes it is computed using a single number, maximum age, using the relationship developed by Hoenig (1983). Maximum age is poorly defined for long-lived species, given that the oldest observed individual may exceed the next-to-oldest individual by many years. We therefore obtain maximum age from the same source that regression-based approaches usually obtain it from, e.g., a well-respected reference for a given taxa. For canary rockfish, we obtain a maximum age of 84 yrs. from Love et al. (2002), and this value results in a lognormal prior with a log-mean of -2.955 and a log-standard deviation of 0.5323. O. Hamel (personal communication 2015) recommends using as fixed value the median of the prior, which corresponds to 0.0521.

2.1.5.4. Steepness

Steepness is defined as the proportion of average recruitment for an unfished population that is expected for a population with 20% of unfished spawning output. It represents a measure of compensation in the spawner-recruit relationship, which is the only source of compensation included in this, and most other assessment models. It is typically difficult to estimate using data for a single population (Conn et al., 2010), which has led to a series of meta-analyses to estimate its likely value (Dorn, 2002; Myers et al., 1995).

The Scientific and Statistical Committee of the PFMC has recommended for use in the 2015 assessment cycle an update of the method developed by M. Dorn. This method computes a likelihood profile for estimates of steepness from the most recent assessment of all Category-1 assessed Pacific rockfish stocks. This prior is then treated as a marginal likelihood and a hyper-distribution for steepness in Pacific rockfishes is estimated using maximum marginal likelihood (in this case, using a Bayesian paradigm). The prior for 2015 has a predictive mean of 0.773 and a standard deviation of 0.147. We fix the value for steepness for canary rockfish at the prior mean.

2.1.5.5. Individual condition

Individual condition is defined broadly as the relationship between individual length and weight in fishes. Condition is estimated externally to the assessment model using a regression model:

$$w_i = \hat{a} l_i^{\hat{b}} e^{\varepsilon_i}$$
$$\varepsilon \sim Normal(0, \sigma^2)$$

where w_i and l_i are weight (kg) and length (cm) for individual i, and $\hat{a}$ and $\hat{b}$ are estimated parameters representing the weight-length relationship. To estimate these parameters, we compile all observations of weight and length from the triennial and WCGBT surveys. The triennial provides a sample size of 2,039 unique individuals (female: 942, male: 1,087), while the WCGBTS provides a sample size of 4,639 unique individuals (female: 2,057, male: 2,582). Parameters are estimated using Template Model Builder, and a plot of data and model estimates provides no evidence of lack of model fit for either males or females. The updated relationship (Figure 36) indicates that males increase weight faster than females as a function of length, and both male and female condition increase weight with length faster than assumed in the previous 2011 update assessment.

2.1.5.6. Bias and imprecision in age determination

In the 2005 assessment, a single ageing error key determining the level of bias in observed vs. true age and imprecision (the degree of variability in observed age at true age) was used to 'smear' model expectations in the observation sub-model of SS2 and generate appropriate predictions to compare with observed age-frequency data (Methot and Wetzel, 2013). This treatment is similar to a full treatment via maximum marginal likelihood, given that it computes the expectation for a data stream (e.g., age composition) after integrating across values on a latent variable (true ages) and an observation process (the ageing error pattern). All historically surface-read ages were excluded, due to known (but not quantified in the assessment) levels of bias and imprecision associated with using this method for a long-lived species (Boehlert and Yoklavich, 1984).

For the 2007 benchmark assessment, all sources of ageing information for break-and-burn reads of otoliths were revisited through inspection of the various cross- and double-read efforts. Ageing bias and imprecision was estimated simultaneously using the first generation of the ageing error software developed by A. Punt, as subsequently published (Punt et al., 2008). The 2007 assessment also explored the bias and imprecision of surface reads, but surface reads were not subsequently included in the 2007 benchmark or 2009/2011 update assessments.

There has been some debate regarding validation of age determination from break-and-burn reads. The 2005 and 2007 assessments assumed that break-and-burn ages from the ODFW/CAPS lab were negatively biased, based on radiocarbon validation methods (Piner et al., 2005), while ages from the WDFW ageing lab were believed to be approximately in-line with ages determined from radiocarbon. However, subsequent analysis of bomb radiocarbon has suggested delayed timing of detectable carbon signatures in the California Current relative to other regions, which could explain the bias of the ODFW/CAPS labs relative to radiocarbon signal (Hamel et al., 2008). Additional exploration using the 2005 model has claimed that significant negative bias in the ODFW/CAPS lab is inconsistent with available data at that time (Stewart and Piner, 2007). We therefore adopt as base case the assumption that the ODFW/CAPS lab is unbiased, and estimate linear bias in WDFW break-and-burn, and curvilinear bias in surface reads from all labs, relative to ODFW/CAPS reads. We also present a comparison of the base case with a model that assumes that WDFW reads are unbiased (results presented later).

In this assessment, we obtain all available double read data and re-estimate bias and imprecision for reads provided by ODFW, WDFW, and CAPS labs using either break-and-burn or surface read techniques. This includes 2,307 unique otoliths with double-reads primarily among readers at the CAPS laboratory, obtained from P. McDonald (personal communication, Nov. 20, 2014), as well as 6,544 unique otoliths with double-reads between CAPS or ODFW laboratories and the WDFW laboratory, obtained from P. Weyland (personal communication, Dec. 17, 2014). Exploratory analysis indicated memory problems with the analysis software unless reads were restricted to those aged 60 or younger, and this restriction decreased the total sample size to 8,812 (from 8,851). All reads were classified by laboratory and reader method, resulting in five unique categories for ageing error: CAPS break-and-burn (4,991 unique reads); ODFW break-and-burn (2,400 unique reads); WDFW break-and-burn (10,180 unique reads); ODFW surface reads (199 unique reads); and WDFW surface reads (576 unique reads), where the total number of unique reads for each lab exceeds the number of unique otoliths because otoliths are read twice or three times each.

We analyzed this data set using the ageing error software provided by Andre Punt (Punt et al., 2008), and using release 1.0.0 of the R package *nwfscAgeingError* (Thorson et al., 2012b) for input/output and diagnostics, publicly available at: https://github.com/nwfsc-assess/nwfscAgeingError. This software estimates the latent (unobserved) age structure of the sampled population as fixed effects for all ages between a minimum and maximum specified age, and then estimates the proportion at age for ages above or below these minimum/maximum ages as declining exponentially. Exploratory analysis indicated few samples with read age above 30 years, so this age was chosen as the age above which proportion at age declines exponentially. We assumed that ages from the CAPS ageing laboratory were unbiased, and estimated a linear bias for break-and-burn reads from ODFW and WDFW ageing labs. We also estimated an identical, curvilinear form for bias in the surface reads provided by ODFW and WDFW labs, and estimated a constant coefficient of variation (CV) for imprecision for break-and-burn reads from CAPS, ODFW, WDFW, and surface reads from either lab. Results indicate a somewhat irregular shape for the latent (unobserved) distribution of proportion at age for the sampled population (Figure 37), but where the estimated and observed proportion at age approximately

matches by eye. The estimated pattern for bias and imprecision indicates that ODFW break-and-burn reads are almost unbiased relative to CAPS break-and-burn reads. However, the WDFW break-and-burn reads have a positive bias relative to CAPS break-and-burn reads (+3.76 yrs. at age 30). Most significantly, the surface reads provided by ODFW and WDFW have a substantial curvilinear bias for ages past 20 years. However, for ages lower than 20 years, the bias is never greater than +2 years relative to the true age.

2.1.6. Environmental or ecosystem data included in the assessment

This assessment does not include any environmental or ecosystem data.

2.2. History of Modeling Approaches Used for this Stock

2.2.1. Previous assessments

The first formal assessment of the canary rockfish resource off the U.S. Pacific coast was done in 1984 (Golden and Demory, 1984).The final results from the initial assessment in 1984 were largely based on qualitative examinations of trends in age and size distributions generated from both fishery and survey data. The 1984 research also included exploratory efforts to fit dynamic models to time series data, using tools such as Virtual Population Analysis and Stock Reduction Analysis. However, due largely to highly variable sample data and its lack of availability in all years, results from the modeling were not considered scientifically valid. The 1984 assessment concluded that the canary rockfish resource was generally stable at that time and that the current restrictions were still applicable, i.e., the ABC for canary rockfish was roughly 2,700 mt in the early 1980s.

The canary rockfish assessment conducted in 1990 (Golden and Wood, 1990) was the first evaluation to incorporate separable catch-at-age analysis and in particular, the first to use the Stock Synthesis Model. All subsequent stock assessments have used the Stock Synthesis Model to evaluate the status of the canary rockfish population off the U.S. Pacific coast, although the model has undergone considerable development since the first program was presented in 1988. Data sources included in the 1990 assessment model were commercial landings from the fishery (1967-89), age-distribution data from the fishery (1980-88), commercial trawl effort index from the fishery (logbook data from 1980-87), CPUE index from the survey (1977-89), and size-distribution data from the survey (1977-89). The Columbia INPFC area was the only portion of the canary rockfish resource formally modeled in 1990. The 1990 assessment was the first to propose two broad assumptions (alternative scenarios or states of nature) regarding the absence of old females in the sample information relative to males: (1) the females are subject to a different rate of natural mortality than males (e.g., age-dependent natural mortality for females or possibly, constant, but elevated natural mortality rates for females); or (2) the females are less vulnerable to the fishing and sampling gears (e.g., dome-shaped selectivity for females and asymptotic selectivity for males). Based on a $F_{35\%}$ management model, results from the 1990 assessment indicated the ABC for the canary rockfish resource in the Columbia INPFC area should be decreased by roughly 30% from 2,100 mt to 1,500 mt; no changes were recommended for ABCs for the other INPFC areas (800 mt for the U.S. Vancouver INPFC area and 600 mt for the Eureka INPFC area). Through 1989, the fishery had not achieved the ABCs recommended for canary rockfish.

The assessment conducted in 1994 again utilized the age-based version of the Stock Synthesis Model to evaluate the status of the canary rockfish population in the Columbia, INPFC area, as well as the U.S. Vancouver INPFC area (Sampson and Stewart, 1994). The data sources in the previous assessment (1990) were updated with statistics from the 1990s, with the exception of the commercial trawl effort index from the fishery, which was omitted from the set of data sources due to sample and estimation biases associated with logbook data. Results from the 1994 assessment clearly indicated that the current level of F exerted on the canary rockfish population exceeded $F_{20\%}$ (the overfishing threshold at that time) and thus, the researchers recommended that the ABC be reduced to allow the stock to recover (Sampson and Stewart 1994). Ultimately, the Pacific Fishery Management Council (PFMC) adopted an ABC for canary rockfish of 1,250 mt for 1995-96, which was a substantial reduction (nearly 60%) from the previous ABC of 2,900 mt (1991-94).

In 1996, the canary rockfish stock was assessed using similar modeling methods and configurations as were used in the previous assessment conducted in 1994 (Sampson, 1996). Data sources were again updated with newly derived statistics (1995-96) and an age-based version of the Stock Synthesis Model was employed. One difference between the 1994 and 1996 assessments was the manner in which error associated with age-distribution data from the fisheries was accommodated. In the 1996 assessment, a single, percent-agreement error structure was used to describe the variability in the age-related data, whereas in 1994, an error-transition matrix was used to standardize multiple sets of age estimates generated from two age readers. Newly obtained data supported findings from the 1994 analyses and final results further indicated that the canary rockfish stock had suffered fishing in excess of $F_{20\%}$. For both scenarios, annual yields based on $F_{35\%}$ were estimated to be roughly 1,200 mt per year for 1997-99.

In 1999, two age-structured stock assessments were adopted. An assessment was completed by Williams et al. (1999) for the southern INPFC areas (Eureka and Monterey). A separate assessment was conducted for the Northern INPFC areas (Columbia and US Vancouver) by Crone et al. (1999). Both assessments concluded that the abundance of canary rockfish was below the overfished threshold. A major source of uncertainty was the role that natural mortality and adult movements played in the relative lack of old females. The northern assessment was performed using an age-based stock synthesis model and relied on age distributions to summarize changes in the age-structure. The Southern assessment was a length-based (although still age-structured) model in an ADMB format. The paucity of otolith-aged fish in the Southern area was the reason why lengths were used in the south to describe changes in the age-structure. That assessment also tried to account for effects of sized-based removals on population growth. The subsequent rebuilding analysis relied upon recruitment information from the northern area where the larger portion of the stock occurs.

The 2002 assessment (Methot and Piner, 2002) unified the previous northern and southern assessments into a coast-wide model. New data that had become available since the previous assessment conducted in 1999 were: Commercial fisheries landing data for 1999-2001; Biological data from the commercial trawl fisheries for 1999-2001, including sex, age, and length information, research survey data from the NMFS shelf trawl survey for 2001, including CPUE and biological data and the CPUE from the California recreational fishery. However, previously assembled fishery size- and age-composition data were not re-compiled. This

assessment focused on the exploration of two states of nature that were considered in previous assessments: age-dependent natural mortality for females versus dome-shaped female selectivity. Together with the STAR panel, it was concluded that these need not represent discrete hypotheses and that both scenarios could be modeled simultaneously. The 2002 assessment concluded that the canary stock was still at very low levels, 8% of the estimated unexploited conditions.

The 2005 assessment (Methot and Stewart, 2005) converted and updated the 2002 effort using Stock Synthesis 2. The largest changes were:

- Re-configure the spatial separation of fisheries to separate northern and southern California due to the north-south difference in occurrence of larger fish and the varying north-south distribution of fishery sampling. Fishery removals were divided among 10 fleets: 1) Southern California trawl, 2) Northern California trawl, 3) Oregon trawl, 4) Washington trawl, 5) Southern California non-trawl, 6) Northern California non-trawl, 7) Oregon and Washington non-trawl, 8) Southern California recreational, 9) Northern California recreational, 10) Oregon and Washington recreational. Oregon and Washington non-trawl and recreational landings were combined due to the relatively small total removals by those fisheries and their low level of consistent biological sampling.
- Recalculate all the fishery catch, size and age composition data.
- Introduce the mean size-at-age data from the survey and fishery to provide additional information on growth and to attempt to better differentiate age selectivity from size-selectivity.
- Extend the modeled period back to 1916 when first significant catches occurred.
- Extend maximum age in the data file to 35+ per request from previous review.
- Switch from age-based selectivity to length-based selectivity. That pattern assumed asymptotic selectivity for males and allowed dome-shaped selectivity for females.

Selectivity was the subject of much exploration, ultimately leading to the choice of a length-based parameterization. Information from radiocarbon studies of canary ageing techniques was included to guide the degree of bias likely occurring in production ageing, and the degree of ageing precision was re-estimated from double-read projects. Differential male-female selectivity was allowed for the data sources with suitable data (northern California trawl, Oregon trawl, Washington trawl, shelf trawl survey). Iterative re-weighting was used to adjust all input sample sizes and survey standard error, in some cases resulting in large increases (or decreases) in input sample size relative to the number of trips/hauls actually sampled. Trawl and recreational fishery CPUE were dropped from the model because there had been insufficient work to validate the potential degree of non-linearity in the abundance to CPUE relationship. The parameters defining the variability in size-at-age were fixed at values estimated outside the model from the trawl survey size-age data, rather than allow the model to update these values. At the SSC review of the canary rockfish assessment (Sept. 27-30, 2005; Seattle, WA) it was concluded that the parametric variance around a single base model underestimated the overall uncertainty in the canary rockfish assessment. After considerable deliberation, the SSC and STAT concluded that the Base and Alternate models were equally likely and supported a statistically based blend of the two models as the basis for the rebuilding analysis. The level of relative depletion for the 2005 base case was estimated to be 0.038 when the stock reached its minimum level in 2000,

then increasing to 0.057 in 2005. In the alternate 2005 model, the minimum was 0.065 in 1999 and the value in 2005 was estimated to be 0.113.

The 2007 benchmark assessment proceeded by rebuilding all data streams and re-examining all assumptions regarding selectivity, growth, and mortality. The 2007 assessment updated to using a double-normal selectivity option which was simpler than the double-logistic used in the 2005 assessment by 2 parameters (6 vs. 8). By fixing initial selectivity at 0, and the width of the top to a very small quantity (this parameter becomes redundant as the descending width or final selectivity become large) the 2007 assessment was able to re-create the selectivity shapes estimated in the 2005 assessment. However, this change had very little effect on assessment results. The 2007 assessment incorporated substantial new assessment data as well as the addition of the at-sea whiting fleet, research catches, the improved ageing-error definitions and the introduction of conditional age-at-length data for survey fleets. Because of the use of conditional age data in place of marginal age-frequency distributions and mean-length at age data used in 2005, the parameters describing the distribution of length at a given age were also freely estimable. These changes had a larger effect than the selectivity parameterization, serving to increase the estimate of SB0 and current stock size, but had little effect on relative trend over the time series. Changes to the stock-recruit relationship included fixing steepness at 0.35, estimating the full time series of recruitment deviations (1916+ instead of 1952+ in the 2005 assessment) and adding a ramp to bias correction, such that full bias correction for log-normally distributed recruitment was implemented in 1965, declining to no bias correction prior to appreciable signal in the data in 1925 (See SS2 User manual for a thorough discussion of this topic). The 2007 assessment also eliminated several discrete time-blocks for changes in fishery selectivity prior to recent management actions. In aggregate, these changes further scaled the estimate of the time series of spawning biomass up, but retained the relative trend.

The 2007 model was subsequently updated twice, in 2009 (Stewart, 2009) and 2011 (Wallace and Cope, 2011). Following common practice for update assessments, neither made any considerably changes to model structure or assumptions regarding life history parameters. The two main exceptions were: (1) re-running of indices of abundance for the WCGBTS, which required joint estimation using all data starting in 2003, and couldn't be updated sequentially as was done with all other data sources, and (2) updating the catch data to represent best available estimates of historical catches to reflect ongoing efforts at catch reconstruction. The 2009 update substantially decreased catches prior to WWII relative to the 2007 benchmark assessment (Figure 39), while there was relatively little change in catches between 2009 and 2011 updates. Updated data streams in the 2009 assessment resulted in a slightly more pessimistic view of stock status relative to the 2007 benchmark. The downward revision of recent spawning biomass was not attributable to a single data source, but appeared to be incrementally informed by each updated series. Addition of the revised catch history also reduced the scale of the entire time-series estimate of spawning biomass by an average of 14% (19% in the first 10 years of the series and 47% in the last 10). The 2011 update, by contrast, produced little substantial difference in spawning biomass estimates relative to the 2009 update.

2.2.2. Notes regarding STAR panel recommendations in 2005 benchmark assessment

The STAR and "Follow-up" panel reports from the 2005 review outlined a number of research and modeling recommendations that should be explored in subsequent assessments. The 2007 assessment document previously responded to these comments, and that response can be found in the 2007 assessment document. We repeat these recommendations to highlight many of the ongoing recommendations to which we have responded in the 2015 assessment.

- *Consideration of a regional analysis of fishery dynamics, and potential linkages with Canadian canary resources.*
    - Response: We have developed a spatial assessment model, and believe that this is a first step to considering a joint US-Canada assessment model for the reasons outlined previously.
- *Evaluate the determination of appropriate weighting of data sources.*
    - Response: We have incorporated new data-weighting methods developed by C. Francis (Francis, 2011). We have also provided a sensitivity analysis comparing this with an estimate of effective sample size generated using the Ianelli-McAllister method (McAllister and Ianelli, 1997), or using a naïve approach that does not account for overdispersion.
- *Field studies of relative abundance of canary rockfish in different habitats using alternative gears such as hook-and-line gear and submersible line transects should be continued. Careful thought is needed to design studies that augment traditional bottom trawl surveys and can be integrated into the assessment.*
    - Response: The NWFSC has ongoing work to develop a hook-and-line survey which may be feasible to complement trawl data sources in untrawlable habitats. We have also conducted simulation work exploring the feasibility of a survey that combines trawl samples with alternative sampling in untrawlable habitat (J. T. Thorson et al., 2013).
- *Assessment results for canary rockfish depend on distinguishing between relatively subtle processes such as increasing natural mortality for females and domed-shaped sex-specific fishery selectivity. The selection of one model configuration over another may depend more on the parametric form used to model the process rather than the underlying process itself. There needs to be more testing of stock assessment models using simulated data to get a better sense of how well these processes can be estimated.*
    - Response: Improved tools for simulation testing, as well as increased frequency of simulation testing, is ongoing for the Stock Synthesis assessment community. This includes the new *ss3sim* R package. These projects will eventually enable faster testing of tactical assessment models.
- *The approach of modeling the fisheries of each state separately as competing fisheries operating on a unit stock is needs to be investigated more fully. Differences between state fisheries could be due to different historical patterns of exploitation in each state or simply an artifact of different sampling methods.*

- Response: We have transitioned to a spatial assessment model, given the differences in exploitation history that are seen for different states. This is supported by recent research suggesting that "areas as fleets" is not adequate to account for spatial differences in exploitation history (Cope and Punt, 2011).

2.2.3. Response to recommendations for future research in the 2007 benchmark assessment

1. *Expanded Assessment Region: Given the high occurrence of canary rockfish close to the US-Canada border, a joint US-Canada assessment should be considered in the future.*
    - Response: We believe that a spatial assessment model is a first-step towards exploring the feasibility of assimilating data from the Canadian jurisdiction.

2. *Many assessments are deriving historical catch by applying various ratios to the total rockfish catch prior to the period when most species were delineated. A comprehensive historical catch reconstruction for all rockfish species is needed, to compile a best estimated catch series that accounts for all the catch and makes sense for the entire group.*
    - Response: Historical landings have been reconstructed for California and Oregon, and are ongoing for Washington.

3. *Habitat relationships: The historical and current relationship between canary rockfish distribution and habitat features should be investigated to provide more precise estimates of abundance from the surveys, and to guide survey augmentations that could better track rebuilding through targeted application of newly developed survey technologies. Such studies could also assist determining the possibility of dome-shaped selectivity, aid in evaluation of spatial structure and the use of fleets to capture geographically-based patterns in stock characteristics.*
    - Response: New geostatistical index standardization tools permit the inclusion of habitat information when analyzing catch rate data (Shelton et al., 2014). The existing software for geostatistical index standardization permits inclusion of measured habitat variables during index standardization (Thorson et al., 2015b). However, the impact of including measured habitat variables on index standardization has not been simulation-tested, or explored for multiple groundfish species. We therefore recommend future research conduct these two tests prior to using measured habitat variables during index standardization for benchmark assessment models (and are discussing this research with A. Berger).

4. *Rarity of old females: Given the premise of this and past assessments regarding the difference between age distributions of male and female canary rockfish, efforts should be undertaken that address this issue, including: (1) habitat-specific studies of the distribution of older male and female canary; (2) laboratory-based programs to rigorously evaluate the physiology of the two sexes. Current field studies to investigate occurrence of larger/older females can contribute information also, but comparison to the occurrence of older males will be difficult due to the reduction in occurrence of older males due to the long history of exploitation.*

- Response: We agree that ongoing in situ study of female canary would likely help elucidate the mechanisms for the increased mortality rate for old females relative to young females or males.

5. *Meta-population model: The spatial patterns show patchiness in the occurrence of large vs. small canary; reduced occurrence of large/old canary south of San Francisco; and concentrations of canary rockfish near the US-Canada border. The feasibility of a meta-population model that has linked regional sub-populations should be explored as a more accurate characterization of the coast-wide population's structure. Tagging of other direct information on adult movement will be essential to this effort.*
    - Response: We have proposed a spatial assessment model. This spatial model can assimilate tagging data regarding movement rates between spatial strata. We therefore recommend that future research compile tagging data coast-wide, and develop estimates of movement rates externally to the model. One method for doing this would be to estimate an annual movement kernel based on disparate tagging data, and combining this with estimates of spatial variation in average density, combined with the location of spatial divisions, to compute average movement rates between strata.

6. *Increased computational power and/or efficiency is required to move to exclusive use of conditional age-at-length approach for all fleets to avoid likelihood weighting issues and evaluate the potential for changes in growth over time.*
    - Response: We agree that improvements in run times may eventually permit inclusion of fishery age data as conditional age-at-length, rather than the current practice of only including survey data as conditional age-at-length and fishery data as marginal ages.

7. *Additional exploration of surface ages from the late 1970s and inclusion into the model, or re-aging of the otoliths could improve the information regarding that time period when the stock underwent the most dramatic decline. Auxiliary biological data collected by ODFW from recreational catches and hook-and-line projects may also increase the performance of the assessment model in accurately estimating recent trends and stock size.*
    - Response: We have included surface reads, primarily available for the trawl fishery in Oregon and Washington. These surface reads are feasible to include given our ability to estimate ageing bias for double-reads among surface and break-and-burn reads.

8. *Due to inconsistencies between studies and scarcity of appropriate data, new collection of information is needed on both the maturity and fecundity relationships for canary rockfish.*
    - Response: We have updated both the maturity, fecundity, and weight-at-length relationships for canary rockfish based on best available information.

9. *Re-evaluation of the pre-recruit index as a predictor of recent year class strength should be ongoing as future assessments generate a longer series of well-estimated recent recruitments to compare with the coast-wide survey index.*

- Response: We have included the pre-recruit index while estimating variance inflation, and believe that this is the best basis for evaluating the performance of the pre-recruit survey.

2.2.4. Consultation with AP and MT representatives

Report of consultations with AP and MT representatives regarding the use of various data sources in the stock assessment.

Following consultation with the GMT representative Dan Erickson and GAP representative Dan Waldeck, the STAT team changed the query used to extract data from RecFIN regarding Oregon recreational catches. This change was made due to concern that the previous query was including information from the MRFSS survey, rather than the intended survey for that state. The discard ratio assumed in this assessment was also developed with input from the GAP and GMT representatives, and these were the only two changes recommended by these representatives.

2.3. Model Description

2.3.1. Bridge from the 2011 update assessment

The bridge from the 2011 update assessment model to the current base case followed three general steps: 1) upgrade to the newest version of SS3, v2.24V; 2) rebuild all of the data inputs to reflect the best information currently available, including catch series, fishery biological data, and GLMM-based indices of survey abundance, 3) update life history information and auxiliary information included in the model, including fecundity, individual condition, maturity, steepness, ageing bias and imprecision, and natural mortality, and 4) re-evaluate estimation of steepness, growth and selectivity parameters. A thorough description of the 2015 assessment model is presented separately below; this section linking the two models is intended only to more clearly identify where substantive changes were made.

Rebuilding the data streams was performed as described above. Most significantly, this involved partitioning all removals (landings and discards) between three states (CA: between 32° and 42° N, OR: between 42° and 46° N, WA: between 46° and 49° N), standardizing all indices of abundance on a state-specific basis, and expanding length and age-composition samples for each state separately. Other major changes included: (1) including surface-read otoliths in the age-composition data for fisheries, (2) including removals from the triennial survey, in addition to the WCGBTS as previously included, and (3) turning on multi-area estimation, including parameters governing deviations in the distribution of recruitment among areas in each year.

Changes to life history parameters were substantial. These included fixing steepness at the mean of the 2015 prior distribution 0.773 (relative to the 2011 value of 0.511), changing natural mortality to the median of the prior distribution 0.0521 (relative to a 2011 value of 0.06), changing fecundity to emphasize the role of large females relative to small ones (Figure 35), and changing individual condition such that large individuals weigh more relative to small individuals compared with the 2011 assessment (Figure 36).

2.3.2. Definition of fleets and areas

We use a multi-area model that treats each state (defined previously) as a separate spatial stratum. We then generate all data sources as occurring in one unique area. In particular, catches (defined as landings plus dead discards) for each fleet are specific to either California, Oregon, or Washington. Fleets include:

1-3. *Trawl* -- Bottom trawl gears
4-6. *Non-trawl* – the non-trawl fleet includes a variety of sources of directed and bycatch mortality in commercial fisheries.
7-9. *Recreational*
10-12. *At-sea hake* – The at-sea hake fleet includes both tribal and non-tribal at-sea hake fisheries.
13-15. *Foreign* – The foreign fleet operated 1966-1976, and does not generally include any data regarding catch rates, length composition, or age composition. We assume that the foreign fleet has selectivity equal to that of the Trawl gear.
16-18. *WCGBTS* – The removals for the WCGBT survey are included for years 2003-2014.
19-21. *Triennial early* – Following the 2007 assessment, we analyze length and age-composition samples from the triennial survey separately for 1980-1995, and 1998-2004.
22-24. *Triennial late* – The triennial late fleets include years 1998-2004.

We additionally include as a research index:

25-27. *Pre-recruit* – The pre-recruit survey is as described previously, and a separate index is developed for each state.

Finally, we include coast-wide indices of abundance, which are mirrored to have identical selectivity to the state-specific indices. These coast-wide indices do not contribute to the model likelihood (their emphasis factor is fixed at zero), and are included to allow comparison of model predictions to coastwide indices:

28. *Coast-wide WCGBTS*
29. *Coast-wide Triennial early*
30. *Coast-wide Triennial late*
31. *Coast-wide pre-recruit*

2.3.3. Stock Synthesis version

We used Stock Synthesis 3 version 3.24V, compiled March 8, 2015 by Rick Methot using the 64-bit version of ADMB 11.1. Relative to version 3.24U, this version of stock synthesis contains a new feature which allows migration rates to be mirrored, i.e., allowing the movement rate between Oregon and Washington to be identical to the movement rate between Washington and Oregon.

2.3.4. Model likelihood components

The model contains four primary likelihood components (see Table 17 and Table 18):

1. Fit to survey indices of abundance (included for fleets 16-25)

2. Fit to length composition samples (included for fleets 1-12 and 16-24, i.e., all state-specific fleets except the foreign fleet)
3. Fit to age composition samples (marginal ages are included for fisheries, i.e., fleets 1-6 and 9-12, and conditional age-at-length samples are included for surveys, i.e., fleets 16-24).
4. Penalties on recruitment deviations and deviations in the distribution of recruitment among states, both of which range from 1933-2014.

Indices of abundance are assumed to exhibit lognormal measurement errors, where the log-standard deviation from the model used to standardize the relevant survey data is treated as an accurate estimate of measurement errors. Length, marginal age, and conditional age at length samples are all assumed to follow a multinomial sampling distribution, where the sample size is fixed at the input sample size calculated during compositional expansion, and where this input sample size is subsequently downweighted to account for additional sources of overdispersion. Recruitment deviations and deviations in the spatial distribution of recruitment are assumed to follow a lognormal distribution, where the standard deviation of this distribution is tuned as explained in section 2.6.1.2.

2.3.5. Data weighting

Given the estimated standard errors for abundance indices and estimated input sample sizes for compositional data, Stock Synthesis weights each data source according to its contribution to the joint likelihood (Francis, 2011). However, there are two problems with using these input sample sizes:

1. Input sample size may not accurately reflect additional process errors caused, e.g., by unmodeled spatial variation and aggregation among fishes of different size or length classes (Thorson, 2014).
2. Fishes that are sampled for age are generally also included in any length composition sampling protocol. Therefore, including both marginal length and marginal age composition may "double count" the same fish, and this double-counting is problematic whenever there is a strong association between length and age (i.e., the two variables are correlated).

We deal with the second concern in the following manner. Assume a fleet has an expanded sample size n for length composition samples, and an expanded sample size m for age composition samples. We treat $n^2/(n+m)$ as the input sample size for length compositions, and $m^2/(n+m)$ as the input sample size for age compositions. We deal with the first concern by subsequently decreasing these input sample sizes to account for the match between expected and observed compositional data (i.e., to account for overdispersed errors). We specifically use a new Francis weighting method that is implemented in *r4ss*. The Francis method computes the additional variance which is necessary to ensure that the standard deviation in average length/age in the sample matches the expected standard deviation in length/age in the portion of the population that is available to that fleet. In a later section, we compare alternative treatments of data weighting to illustrate that results are relatively insensitive to data-weighting decisions.

2.3.6. Constraints on parameters

We fix parameters representing the yield curve for canary rockfish, given that we have little confidence in our ability to estimate this curve internally to the model. Specifically, we fix steepness (h=0.773) and natural mortality rate for young females and males (M=0.0521). We do freely estimate the "ramp" in natural mortality rate for old females relative to young females, as well as parameters representing growth (k and L_{inf} for males and females) and variability in growth, and such that some but not all parameters that govern the yield curve are estimated (Mangel et al., 2013).

We do not include any informative priors in the model (except for penalties on recruitment deviations and deviations in the distribution of recruitment, which can be interpreted as hyperpriors). Priors are most often included for either steepness or natural mortality rates, which are both fixed in this model.

Selectivity is allowed to be dome-shaped for all surveys and fisheries, with the exception of the foreign fishery, for which length/age composition samples are not available, and which is mirrored to have identical selectivity to the domestic trawl fishery. However, we specify that selectivity is identical for a given survey/fishery among all three states.

2.3.7. Stock-recruit function

We approximate recruitment by estimating deviations around a Beverton-Holt stock-recruit relationship. We fix steepness, representing the magnitude of compensation in the stock-recruit relationship, at the mean of the 2015 prior distribution for rockfishes, 0.773, and freely estimate the average magnitude of unfished recruitment, ln(R0). Deviations around the stock-recruit relationship are penalized towards zero, and are interpreted as an Empirical Bayes approximation to their treatment as random effects (Thorson and Minto, 2015). Deviations are estimated for all years of composition data, i.e., 1968-2015, as well as for the 35 years prior to composition data (i.e., starting in 1933), to allow the population age-structure to represent plausible deviations away from its expected value upon first direct observations of length or age-structure. Deviations from 1933-1959 are classified as "early" recruitment deviations, while the period 1960-2014 is classified as "main" recruitment deviations. Deviations during the "main" period are specified to sum to zero, such that the stock-recruit relationship can be interpreted as the mean of deviations during this period. The year 1960 was selected as the year at which annual deviations became well-informed by compositional data.

In addition to recruitment deviations, we also estimate the distribution of recruitment among three spatial strata. We estimate two fixed effects, representing the expected distribution of recruitment among the three states (where the third degree of freedom is achieved by the requirement that this expected distribution sums to one). We also estimate deviations in the distribution of recruitment among the three strata (termed "dist-devs"). We estimate deviations in distribution for all strata and all years for which recruitment deviations are also estimated, i.e., 1933-2014. The magnitude of deviations in the distribution of recruitment (σ_D) is assumed to be constant for all three strata.

The magnitude of recruitment deviations (σ_R) and the distribution deviations (σ_D) are both tuned to approximate their treatment as random effects. Specifically, they are tuned to ensure

that they approximately equal the square-root of the sample variance of deviations plus the average squared-standard error of estimated deviations. Previous research indicates that this is a reasonable approximation to their estimation via maximum marginal likelihood when treating recruitment deviations as a random effect (Methot and Taylor, 2011; Thorson et al., 2015a). Tuning results in the values $\sigma_R = \sigma_D = 0.5$. Given these values, we then estimate bias-adjustment for recruitment deviations using a bias-adjustment ramp estimated using the R-package *r4ss* (Taylor et al., 2015).

2.3.8. Initialization of the model

We start the model in the first year of reconstructed catch data, i.e., 1892. The population is assumed to experience no fishing mortality prior to this year, and to start in stable age-distribution. Recruitment deviations, and deviations in the distribution of recruitment among states, are estimated starting in 1933, as justified previously.

2.3.9. Critical assumptions

We note two critical assumptions that are implied by our use of a spatial model:

1. *Low or no movement*: The base model assumes that there is no movement after the settlement of age-0 juveniles. We explore the impact of low rates of adult movement in a later sensitivity analysis (Figure 117).

2. *Accurate assignment of fishery landings among states*: The base model drives differences in population status among states by spatial variation in recruitment (estimated using deviations in the spatial distribution of recruitment) and by variation in exploitation history among states. This exploitation history is estimated by allocating reconstructed landings by stratum. In particular, data regarding fishery harvest is available by landed port. We have assumed that the quantity of fish landed in a given stratum (e.g., 46-49 N) is a close approximation to the quantity caught within that stratum. We evaluate the consequences of this assumption in a sensitivity analysis that compares performance with a nonspatial model (Figure 40).

2.4. Model Selection and Evaluation

2.4.1. Balance of realism and parsimony

We first present results for comparing (1) a nonspatial model with (2) a spatial model that lacks any deviations in the spatial distribution of recruitment. The latter model is equivalent to the base model, with all distribution-deviations turned off. Model (1) has two fewer parameters than Model (2) (i.e., it lacks the two parameters governing the relative proportion of recruitment assigned to different strata), and therefore represents a comparison of accounting or not accounting for spatial variation in exploitation history. Model (1) has a negative log-likelihood of 5738.78, while model (2) has a negative log-likelihood of 5681.48. The spatial model (which accounts for variation in exploitation history) therefore provides a substantial improvement in fit to available data.

2.4.2. Comparison of key model assumptions and alternate configurations

We compare four different configurations that provide different treatments of spatial variation in availability and temporal variation in selectivity:

1. *Base case*: The base case includes three spatial strata, interannual variation in the spatial distribution of recruitment, and time-blocks in selectivity for trawl and non-trawl fisheries between 1999 and 2000, and again between 2010 and 2011.
2. *No variation in recruitment distribution*: This sensitivity "turns off" interannual variation in the spatial distribution of recruitment.
3. *Nonspatial model*: This sensitivity eliminates all spatial variation, i.e., by turning off interannual variation in the spatial distribution of recruitment and assigning all fleets and surveys to a single, population-wide spatial stratum.
4. *No selectivity blocks*: This sensitivity is identical to the base case, but eliminates the time-blocks for selectivity.

A comparison of these four cases (Figure 40) shows that all main treatments of spatial variation in availability and temporal variation in selectivity result in similar estimates of average unfished spawning output as well as similar trends in spawning output during the fished period. Removing selectivity blocks (red line) results in slightly decreased estimates of spawning output throughout the modeled period, while removing interannual deviations in the spatial distribution of recruitment results in a somewhat decreased recovery after fishing was decreased in the early 2000s. The base and nonspatial models were most similar of the four cases.

We also compare four model scenarios that provide different explanations for the observation of increased abundance of older females in fishery and survey data:

1. *Base model*: The base model does not include any difference in fishery or survey selectivity for females and males of the same length. Instead, sex-specific mortality is implied due to sexually dimorphic growth, such that females and males of the same age do on average experience different mortality rates. The base model also estimates an increased rate of natural mortality for females greater than 14 years old, and a linear interpolation of natural mortality rates between the ages of 6 yr. and 14 yr.
2. *No M-ramp:* This sensitivity eliminates the increase in female mortality rate relative to young females or males.
3. *Male selectivity offset*: This sensitivity adds an offset in selectivity for male individuals relative to female individuals for trawl fleets in CA, OR, and WA (fleets 1-3). Specifically, it freely estimates a different parameter for the length of peak selection and a different rate of selectivity for large individuals (the "final" selectivity parameter), as well as a parameter that scales the peak selectivity for males up or down relative to females.
4. *No M-ramp and male selectivity offset*: This sensitivity combines the changes in sensitivities 2-3.

This comparison (Figure 41) shows that turning off the increase in natural mortality rate for mature females has a large impact on relative spawning output, which is <25% for runs without this ramp, and >50% for models with this ramp. The impact of including or excluding an offset in male selectivity has little impact when either including or excluding the ramp in natural mortality. We also note that models that included an offset in male selectivity relative to females were substantially less "stable", in terms of being able to achieve a local or global optimum when exploring different values for life history parameters, during retrospective runs, etc. Given

that including a male offset in selectivity had little impact on model results (and that it caused model instability), we chose to omit an offset in selectivity from the base model. The models that eliminated the ramp in natural mortality generally degraded fit (i.e., model 2 had a negative log-likelihood 49 units higher than model 1, and model 4 had a negative log-likelihood 38 units higher than model 3). We therefore retained the ramp in natural mortality in the base model on the basis of model fit.

2.4.3. Likelihood profiles over key parameters

We use likelihood profiles to assess the consequences of varying different key parameters (steepness, average unfished recruitment, and female juvenile and male natural mortality rates). We also separate the profile likelihood into contributions from different data sources to assess the degree to which different data sources agree or conflict.

Age composition data and parameter deviations (i.e., deviations in the spatial distribution of recruitment) are minimized by high values of ln(R0), while length composition data and recruitment deviations are minimized by relatively lower values of ln(R0) (Table 24, Figure 42). Survey data are relatively flat across all values of ln(R0). We therefore acknowledge a disagreement between age and length composition data in the determination of ln(R0). However, the total likelihood represents a weighting of data components that is consistent with the magnitude of fit to the data as well as determination of input sample sizes.

The likelihood profile over steepness is highly informed by both recruitment penalties and length composition data (Table 25, Figure 43). Steepness if generally minimized at high values (i.e., > 0.95) which we do not consider to be plausible for a long-lived species such as canary rockfish. We therefore fix steepness at the mean of the predictive distribution for rockfishes (h=0.773)

The likelihood profile over M is minimized for high values of natural mortality (Table 26, Figure 44), which considerably exceed the median of the prior distribution for natural mortality rate. The likelihood profile is highly informed by recruitment and length data, both of which have a minimum <0.07, while the likelihood for age data and parameter deviations continues to increase for values of natural mortality >0.08. We therefore fix natural mortality rate at the mean of the prior distribution, M=0.0521.

2.4.4. Model residuals

We display residual fits to all data sources: (1) marginal length composition, (2) marginal age composition (for fisheries where available), (3) conditional age-at-length composition (for surveys), and (4) indices of abundance.

Marginal length compositions are summarized in Figure 45, and shown for each fleet and years in Figure 46-Figure 66. Marginal length compositions for each fleet aggregated over all years (Figure 45) shows that fits are generally consistent with observed data, on average over time, for males and females for each fleet, and are highly erratic for unsexed fish (e.g., OR trawl) which generally have a lower sample size. The mode of proportion at length is generally larger for females than males, reflecting the dimorphic growth in canary. Fits are particularly good for trawl, recreational, and survey fleets, and generally poor for at-sea hake and non-trawl fleets.

Fits for individual fleets and years (Figure 46-Figure 66) confirm that length-composition fits are particularly good for sexed individuals in the trawl fisheries, although length-composition data almost never have any evidence of bimodality, and hence have little ability to inform cohorts.

Marginal age compositions are summarized in Figure 67, and shown for each fleet and year in Figure 68-Figure 77. Summarized age compositions show that general patterns of increasing selectivity for young individuals, and declining proportion at age for old individuals, are generally captured. Summaries also exhibit the greater proportion of males in the plus-group (age 35+) than females, e.g., the trawl and non-trawl fisheries. Fits in individual years show the difference in expected proportion at age for surface reads (e.g., OR trawl, Figure 69, panel 1973a4, where the expected proportion and data bin peaks for age 20, which is then treated as the plus-group for surface reads) compared with break-and-burn reads (e.g., OR trawl, panel 1980a1, where the expected proportion has a bump at the plus group, age 35 for males but not females). Many early years show the increased abundance of older males relative to females in either surface reads (e.g., OR trawl, panel 1982a4, which shows a greater proportion of males age 20+ than females) or break-and-burn reads (e.g., OR trawl, panel 1982a1, which shows a greater proportion of males to females in age 35+). Individual years for the non-trawl fisheries (fleets 4-6) and the WA recreational fishery (fleet 9) are particularly poor, and not expected to be informative regarding changes in average age over time.

Conditional age-at-length compositions are shown for each fleet and year in Figure 78-Figure 86. We use a summary plot introduced by André Punt, where a well-fitting model has a predicted average age-at-length that is within the 95% predictive interval, as is the predicted standard deviation of age-at-length. Plots for all surveys generally exhibit this behavior, which provides no evidence of poor fit to conditional age-at-length data, and furthermore suggests that a model with time-constant growth provides a satisfactory approximation to the process governing age and length.

Indices of abundance are shown for each survey fleet in Figure 87-Figure 90. These plots show that fits to the WCGBTS indices are generally within the 95% confidence interval bounds (with the exception of CA in 2003). However, there is a residual pattern for California in particular, where predictions for all years 2006-2013 are below the index, and only predictions in years 2003-2005 and 2014 are above the index Similarly, the index is within the 95% confidence interval for all years and strata for the early and late triennial indices. The early triennial survey captures the general decline in population abundance during the 1980s, although the index estimate in 1980 is generally lower than the model estimate. Similarly, the late triennial index captures the commencement of population rebuilding in all three strata. Finally, the pre-recruit indices have variable performance across all three strata. The indices in WA have extremely large confidence intervals (e.g., 2005), and are not expected to provide any meaningful information or diagnostic benefit. By contrast, the index in CA generally captures trends in estimated recruitment, with relatively high recruitment in 2011 and relatively low recruitment in 2006-2007. The pre-recruit index appears to have little predictive ability in OR, where it does estimate moderate recruitment in years that are estimated to have good recruitment (e.g., 2006) and also predicts elevated recruitment in years that are estimated to have moderate recruitment (e.g., 2009 and 2011).

2.4.5. Convergence status

The base model has a final gradient of <0.0001, and we therefore conclude that the parameter estimates represent either a local or global minimum. Three parameters are at or near a boundary, and all three parameters are regarding dome-shaped selectivity. Given that these three parameters do not negatively impact model convergence of computation of the model hessian, we have chosen to leave these parameters unfixed (such that their uncertainty is propagated during subsequent sensitivity analyses, likelihood profiles, and retrospective evaluations).

2.4.6. Evidence of search for global convergence

We re-ran the model 50 times while jittering the starting values for all parameters (except deviations in the spatial distribution of recruitment), using function SS_RunJitter in the *r4ss* package. Results are shown in Table 19, and indicate that one-fifth of jittered runs converged on the likelihood value for the base model, while another portion resulted in higher values for the negative log-likelihood, and the final portion either did not converge (had a high final gradient) or otherwise crashed during parameter optimization. Given that a Monte Carlo search of potential starting points for optimization did not result in a better final likelihood, we conclude that the base case is likely to be a global optimum.

2.4.7. Evaluation of model parameters

We estimate catchability analytically for every state-specific index of abundance (i.e., fleets 16-27, see Table 20). Estimates of catchability range from 0.234 (WA late triennial) to 1.983 (CA late triennial), except for the pre-recruit index which is not weighted by area. We are not surprised that catchability estimates are highly variable, given that indices of abundance are highly variable due to the large variability in the spatial distribution and shoaling behavior for canary rockfish (Thorson et al., 2011). We are also unsurprised that catchability is generally less than one for indices, given that a substantial portion of canary biomass is likely to unavailable to bottom trawl sampling gear, as is used for all indices of abundance (except the pre-recruit index).

2.4.8. Comparison with similar stocks and species

The recent assessments for canary rockfish in Canada have shown a decline and subsequent rebuilding of the stock in Canadian waters (COSEWIC, 2007; DFO, 2010; Stanley et al., 2005), where the magnitude of decline and the timing of the commencement of rebuilding are generally similar to the current assessment. Canadian assessments have been based upon trends in abundance in the southern portion of the Canadian stock. The Canadian model (COSEWIC 2007) was premised on a maximum age of 84 yr., and available age data clearly showed the decreased prevalence of old females relative to old males, thus supporting the increase in female natural mortality that is also used in our base model. The Alaska assessment (Green et al., 2014) has historical been based upon density estimates from manned or remotely operated vehicles, and therefore contains no information regarding catchability for bottom trawl surveys, natural mortality rates, or sex-specific age structure.

2.5. Response to STAR Panel Recommendations

The STAR panel report from the 2007 review outlined a number of recommendations for future research and data collection:

- *For the next canary rockfish stock assessment*
  - *Assumptions about stock structure and distributional boundaries should be reviewed in light of information on Canadian/Alaskan catches.*
    - Response: We have not accomplished this recommendation, although it remains a reasonable recommendation. No rockfish in the California Current has recently been assessed as a unit stock striding the US-Canada border, and there remain substantial technical and logistical difficulties in synthesizing the different data streams that are available in each jurisdiction.

  - *A catch history should be reconstructed using all available data including catch by gear and by region. The reconstruction should include an envelope of high and low values to set bounds for exploration of alternative catch histories. As has been previously recommended, the reconstruction needs to be done comprehensively across all rockfish species to ensure efficiency and consistency.*
    - Response: Catch histories have been reconstructed for landings in California and Oregon.

  - *Evaluate the feasibility of a bi-lateral assessment with Canadian scientists, perhaps through the TSC (Technical Subcommittee of US Canada groundfish working group).*
    - Response: This is a reasonable step towards accomplishing the 1st recommendation listed above. However, we believe that the first step for a joint US-Canada assessment will be transitioning to a spatial assessment model, as we have done in this assessment. A spatial model will be important because Canadian and US data sources will differ, and therefore the 2nd-stage expansion of compositional data will be impossible given that data are entirely missing from a given spatial stratum, e.g., Canadian waters when expanding compositional data from a US survey (see Thorson (2014) for details). If the spatial model is approved for use, we recommend that the next benchmark assessment explore the feasibility of a joint US-Canadian assessment. We note that this joint assessment may still not be feasible given a spatial model, if important data sources (i.e. landings and discards) are missing for Canadian waters.

  - *Investigate the importance of calendar date and other covariates on catch rates from the triennial survey and propose adjustments to account for seasonal and other variation in selectivity/availability.*
    - Response: We have included Julian calendar date as a linear covariate during standardization of catch rate data from the triennial survey. The posterior distribution for the covariate generally overlaps zero for both the encounter probability and positive catch-rate model components. However, we recommend retaining these covariates in the standardization model as design-variables, as necessary to control for the confounding impact of changes in survey timing. This argument is analogous to the argument supporting inclusion of vessel-year effects when standardizing data from the WCGBTS, regardless of the "statistical significance" of the vessel-year effect overall.

- *Generic issues for groundfish assessments*

- *Establish a meta database of all data relevant to groundfish stock assessment. The database should include enough detail about the nature and quality of the data that a stock assessment author can make a well informed decision on whether it could be useful for their stock assessment.*
  - Response: This database has not been generated. However, there has been substantial progress towards the standardization and distribution of tools for analyzing common data types, including ageing error, survey catch rate, and discard data types. The NWFSC has also generated a "Stock Assessment Handbook" (https://docs.google.com/a/noaa.gov/document/d/1KhQs8Q6q8iPDKdTjEvM7k4t3v0FIWBZmJsJKSMeXSXo/edit) that outlines the major data types and analytic methods used in assessments of West Coast groundfishes.

- *Establish accessible online databases for all data relevant to groundfish stock assessment, so that assessment authors can obtain the raw data if required.*
  - Response: The NWFSC is conducting ongoing work to make important data sources publicly available on an ongoing basis. This includes efforts by T. Haye to create an R package for accessing data from the WCGBT survey.

- *Establish a database for historical groundfish catch histories, "best" guesses and estimates of uncertainty (and processes for updating and revising the database).*
  - Response: Catch reconstruction efforts have been completed in California and Oregon. These reconstructions do not currently account for uncertainty in landings. Recent research (Shelton et al., 2012) has also developed methods for estimating uncertainty in species allocations for landings that are reported for a species complex.

- *Develop a concise set of documents that provide details of common data sources and methods used for analyzing the data to derive assessment model inputs.*
  - Response: The NWFSC "Stock Assessment Handbook" is publicly available, and many analytic tools used for pre-processing data for inclusion in stock assessments are now available at the NWFSC GitHub repository (https://github.com/nwfsc-assess).

- *Develop standard and appropriate methods for modeling age and length data, including choice of distribution, initial variance assumptions, and tuning methods (current methods can and should be improved).*
  - Response: This is a topic of ongoing research throughout the fisheries community. NWFSC authors have produced two different approaches to the calculation of input sample sizes for compositional data (Stewart and Hamel, 2014; Thorson, 2014). However, neither method has been built into the automated expansion software that is currently developed by A. Stephens. Consequently, neither method has been subject to review by the Scientific and Statistical Committee, as would be necessary before using a new method in a benchmark assessment. Additionally, we have incorporated a new method for model-based weighting of compositional data in the current assessment (Francis, 2011).

- *Routinely produce and present supporting documentation for any derived indices which are included in a stock assessment model (e.g., GLMM derived trawl survey abundance indices).*
    - Response: The NWFSC has extensively tested and documented its software tools for stratified (Thorson et al., 2012a, 2011; Thorson and Ward, 2013, 2014) or geostatistical (Shelton et al., 2014; Thorson et al., 2015b) standardization of survey catch rate data. Both methods are publicly available with simulated and real-world examples (geostatistical: https://github.com/nwfsc-assess/geostatistical_delta-GLMM; stratified: https://github.com/nwfsc-assess/nwfscDeltaGLM).

2.6. Base-Model(s) Results

2.6.1. Parameters used in the model

Table 22 lists all parameters estimated in the model. This table enumerates 13 biological parameters, 43 parameters governing selectivity and catchability, 82 recruitment deviations, and 164 distribution deviations. The 246 recruitment and distribution deviations are interpreted as random effects, resulting in 56 fixed effects. The 13 biological parameters primarily represent individual growth.

2.6.1.1. Life history parameters

The von Bertalanffy growth function was used to model the relationship between length and age in canary rockfish. Sex-specific length and age data are available, so we elected to estimate separate growth curves for males and females (Table 21). Sex-specific data were used to fit a 5-parameter growth model which includes parameters $L_1(s)$, $L_2(s)$, $k(s)$, $CV_1(s)$ and $CV_2(s)$, where $L_1(s)$ is the length for sex s at age $a_1=1$ yr., $L_2(s)$ is the length for sex s at age $a_2=30$ yr., $k(s)$ is the Brody growth coefficient for sex s, $CV_1(s)$ is the coefficient of variation in individual length at age for sex s at age a_1, and $CV_2(s)$ is the coefficient of variation in individual length at age for sex s at ages at or greater than age a_2. The CV for ages between a_1 and a_2 is linearly interpolated. We assume that males and females have identical average length at age a_1 (i.e., $L_1(s)=L_1$ for both sexes s). Growth was estimated to differ substantially between males and females, as has been noted in previous assessments (Stewart 2007), as shown in Figure 91.

2.6.1.2. Stock-recruit parameters

In this assessment the log of *R0* was estimated, while steepness was fixed at its prior mean of 0.773. This prior was estimated using a likelihood profile approximation to a maximum marginal likelihood mixed-effect model for steepness from ten Category-1 rockfish species off the U.S. West Coast (Pacific ocean perch, Boccaccio, canary, chilipepper, black, darkblotched, gopher, splitnose, widow aurora, and yellowtail rockfish). Both northern and southern assessments of black rockfish were used, although the log-likelihood for each was given a 0.5 weighting, to ensure that the together these two assessments had an equal weighting to the other species. This likelihood profile model is intended to synthesize observation-level data from assessed species, while avoiding the use of model output and thus improving upon previous meta-analyses (Dorn, 2002; Forrest et al., 2010). This methodology has been simulation tested, and has been recommended by the PFMC SSC for use in stock assessments.

We estimate lognormal deviations from the standard Beverton-Holt stock-recruit relationship for the period between 1870 and 2011. Deviations are penalized in the objective function, and the standard deviation of the penalty (σ_R) is specified as:

$$\hat{\sigma}_R = \sqrt{\frac{\sum_{y=1933}^{2014} \hat{r}_y^2}{2014-1933} + \frac{\sum_{y=1933}^{2014} \hat{v}(\hat{r}_y)}{2014-1933+1}}$$

Where $\hat{r}_y$ is the estimated recruitment deviation in year y, $\hat{v}(\hat{r}_y)$ is the estimated standard error-squared of $\hat{r}_y$, the first summand on the right-hand side represents the sample variance of the recruitment deviations; the second summand on the right-hand side represents the average standard error-squared of recruitment deviations, as recommended in the "**Estimating σ_R**" subsection of Methot and Taylor (2011) and correcting for their typo.

'Main' recruitment deviations were estimated for modeled years that had information about recruitment (as determined from the bias-correction ramp), i.e., 1960-2014. We additionally estimated 'early' deviations between 1933 and 1959 so that age-structure in the year of first compositional data (1968) would deviate from the stable age-structure for all ages with data (i.e., ages 1-35) to a degree that is consistent with estimated variability in recruitment. This resulted in an estimate of $B0$ that is also consistent with estimated variability in recruitment given the assumption that initial catch was negligible.

Recruitment deviations are also bias-corrected following Methot and Taylor (2011), by providing a proportion of the total bias correction for year y that varies depending upon how informative the data are about r_y. Specifically, we used *r4ss* (Taylor et al., 2012) to estimate a five-parameter bias-correction ramp (Figure 92).

2.6.2. Selectivity

Selectivity (Figure 93 through Figure 101) is estimated as a function of length separately for every fishery and survey, and is mirrored for a given fishery/survey among all three states. Selectivity for every fishery/survey is estimated using a double-normal selectivity pattern, which allows for dome-shaped selectivity. We specifically estimate four parameters for each selectivity:

1. the minimum length at which selectivity is one (the "peak"),
2. the width of the ascending curve for selectivity at lengths less than the peak,
3. the width of the dome, i.e., the range of lengths for which selectivity is one, and
4. the width of the descending curve for selectivity at lengths greater than the peak plus the width of the dome.

We additionally estimate a change in selectivity for the trawl and non-trawl fisheries between 1999 and 2000 (reflecting changes in fisher behavior following the declaration of overfished status for canary rockfish in 1999), and another change in selectivity for the trawl fishery between 2010 and 2011 (reflecting a change in fisher behavior following the implementation of individual transferable quotas starting in 2011). For each break-point change in selectivity, we

re-estimate all four parameters. Hence, there is no information regarding selectivity that is shared among time blocks.

For the trawl fleets, selectivity prior to 2000 is greatest at 48 cm. and then declines to nearly 80% of its peak. Selectivity changes in 2000 to be strongly dome-shaped, while targeting small individuals more strongly and large individual less. The selectivity change following ITQs similarly causes a decrease in the length of maximum selectivity, and a further shift towards selecting small individuals.

For the non-trawl fleets, selectivity is (essentially) asymptotic prior to 2000, reaching an asymptote at 43 cm. Following overfished designation in 1999, the fishery becomes slightly less asymptotic (i.e., a small dome, with selectivity declining to 90% for larger individuals), and also shifts to target slightly smaller individuals.

For the recreational fishery, selectivity is strongly dome-shaped with maximum selection at 32cm, and declining strongly for larger individuals. For the at-sea hake fishery, selectivity is also somewhat dome-shaped, with a maximum for larger (45cm) individuals, and declining somewhat for larger individuals.

Among surveys, the WCGBTS survey is estimated to have nearly uniform selectivity across a broad range of lengths. This likely reflects the synoptic spatial coverage of this survey design, combined with the fact that canary individuals are likely to be partially inaccessible to the survey (i.e., within rocky habitats) as both juveniles and adults. By contrast, selectivity for early and late triennial surveys are largely similar, with the early triennial decreasing slightly more steeply post-peak, but both peaking for large individuals (early: 55 cm; late: 51 cm), and having a slow increase across a wide range of lengths.

2.6.3. Summary time series of population status and exploitation rate

Summary time series are listed in Table 23, and visualized in Figure 102 through Figure 106. These summaries indicate that fishing mortality peaked in 1991-1992 when the stock was being overfished ($F_{SPR} > 1.7$), and that overfishing ceased ($F_{SPR} < 1.0$) in 2000, after the stock was declared overfished. Spawning output across all three strata reached its lowest level in 1994 (relative spawning output = 13.7%), and has since steadily recovered (relative spawning output = 0.552 in 2014). Recovery has been aided by strong recruitment in 2001-2003, 2007, and 2010, and the pattern of reduced recruitment 2003-2006 is consistent with many other groundfishes in the California Current (J. Thorson et al., 2013). Recovery (defined as the year of lowest spawning output, Figure 101) began earlier in Washington than either Oregon or California, and relative spawning output in Washington (Figure 103) is estimated to be higher than in Oregon or California in 2014. California is estimated to have experienced the lowest level of relative spawning output during the historical period of any state (occurring in 1999), and is estimated as having the lowest relative spawning output in 2014.

2.6.4. Estimated stock-recruit relationship

The time series of stock-recruitment residuals (Figure 107) suggests how little information is available to estimate recruitment deviations for canary rockfish, where few years have a 95% confidence interval that does not overlap zero, and where only one year (1980) has a deviation

whose absolute value is greater than one. The time-series indicates that main recruitment deviations start around the period when there is information to estimate annual variation in recruitment.

A plot comparing spawning output vs. recruitment (Figure 108) shows that the highest recruitment occurred primarily before intensive fishing (1962, 1968, 1979). It also shows the high degree of compensation that is expected for canary rockfish given the prior on steepness that was estimated for rockfishes in 2015.

Finally, a plot of the fraction of total recruitment among spatial strata (Figure 109) shows considerable spatial variation in recruitment. This variation is consistent with spatial variation in the center of gravity for pre-recruits seen in the coast-wide pre-recruit survey (J. Field, pers. comm.). Oregon generally has the largest portion of recruitment (with an expectation approaching 50%), while Washington is expected to have slightly more than 30% of recruitment, and California is expected to receive approximately 20% of recruitment.

2.6.5. Historical Harvest

In 2000, canary rockfish were declared overfished and the annual harvest limits since have been determined by a rebuilding plan. An update assessment with an updated rebuilding plan was last performed in 2011. The SPR harvest rate for rebuilding was set equal to 88.7% resulting in ACLs of 102, 107, 116, and 119 metric tons for 2011-2014 respectively. The total landings including discard have been well below the annual ACLs since 2009. The total attainment of the ACL between 2009 and 2014 has ranged from a 31 (2011) to 60% (2009).

The total catch assumed in the model included estimated discards by the trawl and non-trawl fisheries. The annual discard amount was estimated based upon assumed discard rates (Table 8). Therefore, all estimates of fishing intensity (F_{SPR}) and yield are based on the treatment of removals as landings and dead discards.

2.7. Uncertainty and Sensitivity Analyses

2.7.1. Sensitivity to leading parameters

Estimates of spawning output relative to average unfished spawning output are highly variable to the estimated value of average unfished recruitment, as well as steepness and, in particular, natural mortality. Varying the value of average unfished recruitment, ln(R0), has a large impact on estimates of relative spawning output (RSO). Low values of ln(R0) results in low final RSO, and high values of ln(R0) result in high final RSO (Figure 110). Varying the magnitude of recruitment compensation, steepness (h), also results in large variation in relative spawning output (RSO, Table 25, Figure 111). Varying the natural mortality rate for juvenile female and male individuals (while continuing to freely estimate the increased rate of natural mortality for adult females) has a larger impact on RSO than did steepness (Figure 112), where low values of M result in a low value for final RSO, and vice-versa.

2.7.2. Sensitivity to data weighting scenarios

We explore three alternative data-weighting scenarios, in addition to the base model (Figure 113):

1. Tuning each data source to ensure that the harmonic mean of the effective sample size (calculated using the Ianelli-McAllister formula) matches the tuned input sample size for each fleet.
2. Doing no model-based weighting of data sources, and instead using the input samples sizes for all length and age samples as the weight used in the model. This sensitivity is not intended as a realistic option, and is included instead to bracket uncertainty given the extreme (and unrealistic) decision to ignore overdispersion in available data.
3. Conducting Francis-based weighting of age and length composition data, but instead doing it independently for each fleet (rather than estimating a single weighting coefficient for all fleets in the same fishery or survey, as was done in the base model).

These sensitivities indicate that conducting no weighting (sensitivity #2) results in a somewhat higher estimate of average unfished spawning output (due to a highest estimate of ln(R0)). However, all models range tightly around the base model in their estimates of relative spawning output.

We also show an additional three data-weighting scenarios, which explore the impact of removing the influence of compositional data on estimates of stock status. In particular we show the following three models:

1. *Base model:* The base model includes length (and where available age) compositional samples from fisheries, and abundance index, length, and conditional-at-age-length samples from surveys, and uses data to estimate growth parameters, the ramp in mature female mortality, and selectivity for all fisheries and surveys.
2. *No compositional data:* This first sensitivity shows the impact of removing all compositional data, while fixing growth, mortality, and selectivity parameters at their estimates in the base model. This sensitivity ensures that compositional data are only informing growth, mortality, and selectivity parameters, and that compositional data are not being used to inform trends in abundance (except insofar as information regarding growth, selectivity, and mortality inform the interpretation of other data sources).
3. *No compositional data except from trawl fisheries*: This second sensitivity is identical to Model #2, except it adds back the compositional data for the trawl fisheries (fleets 1-3), and estimates selectivity for these fleets. It essentially allows compositional data for the trawl fishery to inform trends in abundance, and not compositional data from any other fleets.

This comparison (Figure 114) shows that, when all compositional data are excluded, this results in a huge increase in the estimate of average unfished spawning output, which results in an estimate of stock status near unfished biomass throughout the time series. However, including only compositional data from the trawl fishery results in an estimate of relative spawning output that is very similar to the base model. We therefore conclude that information regarding relative trends in stock status prior to the 1990s are highly influenced by compositional data from the trawl fishery (fleets 1-3).

2.7.3. Model specification uncertainty

We first demonstrate that the base model is insensitive to the choice of using either the geostatistical or stratified delta-GLMM to generate an index of abundance using WCGBTS data. Specifically we compare:

1. *Base model:* The base model uses the geostatistical delta-GLMM to standardize catch rate data from the WCGBTS.
2. *Bayesian stratified index*: As sensitivity, we substitute the indices of abundance estimated by the Bayesian stratified delta-GLMM analyzing WCGBTS data.
3. *No WCGBTS indices*: As another sensitivity, we demonstrate the impact of excluding indices estimated using WCGBTS data (i.e., fleets 16-18).

These comparisons (Figure 115) demonstrate that all three models have almost identical absolute and relative scale for estimates of spawning output. We therefore conclude that the treatment of index standardization has little impact when using an integrated age-structured model for canary rockfish.

In section 2.4.2, we have previously shown a comparison of major changes in model structure, i.e., the base model with a nonspatial model, a model without deviations in the spatial distribution of recruitment, and a model without selectivity blocks. This exercise (Figure 40) indicated little variation among models in relative spawning output, and similarity in particular between the base and nonspatial models.

We also compare three alternative treatments of ageing error:

1. *Base model*: We assume by default that the ODFW/CAPS ageing error pattern is on average unbiased.
2. *WDFW unbiased*: As a sensitivity, we show estimates of spawning output and relative spawning output when assuming that the age reads from WDFW ageing lab are unbiased.
3. *No surface reads:* As another alternative, we show a model that assumes that the ODFW/CAPS pattern is unbiased, but which also excludes all age determinations obtained from surface reads. This sensitivity therefore demonstrates the impact of including surface read information, and the degree of dependence upon correctly characterizing ageing error for surface reads.

This exercise (Figure 116) illustrates that Model #2 results in somewhat elevated estimates of spawning output relative to the base model, while Model #3 is nearly identical to the base model. Furthermore, all three models provide almost identical estimates of relative spawning output. We therefore conclude that this assumption has little impact on estimates of stock status.

Finally, we demonstrate the impact of low movement rates among strata upon estimates of stock status. We specifically re-estimate the base model when assuming that movement is negligible until age-3, reaches a constant rate by age 9.3 among all adjacent strata (i.e., an X% movement rate from CA to OR, from OR to CA, from OR to WA, and from WA to OR), and where movement rates are interpolated linearly between ages 3 and 9.3. This comparison (Figure 117) shows that elevated movement rates generally lead to increased estimates of average unfished spawning output, and also an increased rate of rebuilding since the 1990s. We therefore conclude that low movement rates are not likely to result in the stock being below the overfishing threshold.

2.7.4. Retrospective analysis

We have run eight retrospectives runs in addition the base model, which show the impact of using data through 2014, 2013, etc., through 2006, where 2006 is the final year of available data during the last benchmark assessment in 2007 (Table 27, Figure 118). This retrospective analysis indicates that models with data through 2006, 2007, or 2008 resulted in a somewhat decreased estimate of initial and final spawning output, as well as relative spawning output. However, all other models using data through 2009 or later generate similar estimates of both absolute and relative spawning output, as well as similar levels of uncertainty (as indicated using asymptotic confidence intervals). This retrospective analysis therefore indicates that the base model generates no positive or negative bias when removing recent years, relative to the model with all available data.

2.7.5. Comparison of base model and past assessments

We plot all nine benchmark and update assessments conducted for canary rockfish (Figure 119), starting in 1994. This plot indicates that the absolute scale of average unfished spawning biomass for the base model is almost identical to that estimated in the 2009 update, and is lower than other assessment models. Spawning biomass estimates in 1994 are similar for all models from 1999 onward, although the base model indicates a considerably faster rate of rebuilding than other assessment models since then. Similarly, age-0 recruits are estimated to be slightly lower for the base model than the recent 2009/2011 update assessments and to have declined less than other assessment models during the periods of low spawning biomass (e.g., the 1990s).

To explain the faster rebuilding in the base model relative to recent assessments, we provide a 2x2 cross of two assessment models (the 2015 base and the most recent 2011 update assessment) and two different steepness values (the 2015 priors, and the value used in 2011 as originating in the 2007 benchmark assessment). This comparison (Figure 120) shows that the 2015 base model, using the 2011 steepness value, is very similar in both respects to the 2011 update assessment. Similarly, the 2011 update assessment, using the 2015 steepness value, shows the rapid recovery that is seen in the 2015 base model. We therefore conclude that the rapid rate of rebuilding seen in the 2015 base model relative to past assessments is primarily caused by the increased value for steepness.

2.7.6. Subjective appraisal of uncertainty

Based upon the considerations, sensitivities, and retrospective analyses listed previously, we conclude that different treatments and assumptions regarding selectivity, spatial structure, ageing error estimates, and the inclusion of surface reads for otoliths have little impact on estimates of stock status for canary rockfish. However, we note that estimates of stock status are highly sensitive to assumptions regarding biological parameters that govern productivity and the yield curve, i.e., steepness, base natural mortality rate, and the assumption that female natural mortality is allowed to change for sexually mature individuals relative to immature females or males of any age. We therefore recommend that biological parameters form the basis for a decision table, and are prioritized as a subject for future research.

2.7.7. Comparison among alternative states of nature

We chose to vary the strength of recruitment compensation to represent alternative plausible states of nature. We use steepness for the following three reasons:

1. Recruitment compensation has been used to generate alternative states of nature in the 2007, 2009, and 2011 assessments, and represents a current topic of discussion in the Scientific and Statistical Committee of the PFMC.
2. Values for alternative states of nature can be justified by previous meta-analytic research generating a prior distribution for steepness for Pacific rockfishes (Dorn, 2002; Punt and Dorn, 2013)
3. The value of steepness has a large impact on the rate of stock rebuilding after the declaration of overfished status, and hence is highly influential in determining the degree to which the stock can be considered to be rebuilt (Figure 111). It also accounts for a large portion of the difference between the 2011 update and proposed base model (Figure 120).

To select values of steepness to use as the upper and lower states of nature, we use a normal approximation to the prior distribution for steepness with an identical mean and standard deviation to the predictive distribution from that analysis (mean=0.773, SD=0.147). We then identify the value of a normal distribution with that mean and standard deviation that is half as likely as the mode. This value is

$$h = 0.773 \pm 0.147(1.18) = (0.600,0.946)$$

where 0.600 represents the lower and 0.946 the upper state of nature.

This comparison confirms that varying the values of steepness has relatively little impact on spawning output estimates prior to the 1990s, but has a substantial impact on the estimated rate of rebuilding after 1990 (Figure 121). The high-steepness state of nature (h=0.946) results in an estimate of relative spawning output of 67.1% in 2014, while the low-steepness alternative results in 39.4% in 2014. Consequently, the low-steepness alternative has a 95% confidence interval almost exactly centered on the management target, while the base and high-steepness alternative have 95% CIs that entirely exceed the management target. Contrasting the levels of recruitment from these three models (Figure 122), we see that the high-steepness model has elevated estimates of recruitment from the 1990s onward, which explains its faster rate of rebuilding. However, there is little difference in estimated recruitment deviations otherwise, such that all three models identify a similar set of strong and poor-recruitment years.

We also represent the uncertainty in our assessment results using two alternative values for the natural mortality rate of juvenile female and adult individuals. In each state of nature, we freely estimate the natural mortality rate for adult females. To generate values for upper and lower states of nature for natural mortality rate, we first note that the upper bound generated using the probabilistic method outlined above for steepness results in an estimated population trajectory that is entirely implausible (i.e., ln_R0 goes to >11, and the fisheries is estimated to have never substantially impacted the canary population). Therefore, we instead generate upper and lower values by identifying values for natural mortality that match the final spawning output

relative to average unfished levels for the states of nature identified for steepness. This results in lower and upper natural mortality rates of *M=0.025*, and *M=0.06.*

Using these values, we find that changes in natural mortality rate have a substantial impact on both the rate of population rebuilding after decreases in fishing intensity in the 1990s, and also upon the absolute scale of the population during the entire time series. In particular, an elevated rate of natural mortality increases the total spawning output nearly 10% relative to the base model. These scenarios in particular have a large impact on the scale of recruitment. This is expected, given that changes in natural mortality rate have a large impact on yield per recruit, and we conclude that the model is compensating for decreased yield per recruit in the high-M state of nature by increasing recruitment overall (where this impact is inverted for the low-M state of nature).

3. Reference Points

Average unfished spawning biomass is estimated to be 26,610 mt. This is directly comparable to previous assessments, despite our use of an updated maturity-at-length schedule, and is slightly lower than the estimate of 27,846 mt in the 2011 update assessment. Average unfished spawning output is estimated to be 7,491 million eggs, where this number is not directly comparable to any previous assessment due to our updated fecundity relationship (which, unlike past assessments, includes a nonlinear relationship between female weight and spawning output). Relative spawning output (often termed "depletion" in West Coast assessments) is estimated to be 0.559 in 2015. A comparison among historical assessments shows that this rate of rebuilding is faster than previously estimated due to our updated prior for the strength of recruitment compensation (termed "steepness"). Exploratory analysis also suggests that the similarity of the base model to the 2011 update assessment prior to the mid-1990s is informed in large part by the compositional data from the trawl fishery (Figure 118). Our base model estimates a target spawning output of 3,449 million eggs using a biological reference point proxy of $SB_{40\%}$ and 2,111 million eggs using a proxy targeting a 50% reduction in spawning potential relative to average unfished levels. Maximum sustainable yield is estimated to be 1,289 mt, and this estimate is considerably higher than the value (803 mt) estimated in the 2011 update assessment.

4. Harvest Projections and Decision Tables

We have shown a decision table forecasting spawning biomass given two alternative harvest control rules (i.e., harvest at the annual catch limit, ACL, or the rebuilding target of 88.7 spawning potential ratio), using states-of-nature involving either alternative values for steepness or natural mortality rate (Tables h.1 and h.2). In each table, we set total catch in 2015/2016 equal to the previous estimates of annual biological catch (ABC). Projecting catches for 2017-2026 using the estimated ACL given the lower state-of-nature for either natural mortality (Table h.1) or steepness (Table h.2) results in declining spawning biomass over these 10 years (i.e., a 2026 spawning biomass relative to average unfished levels of 20.8% for the lower natural mortality rate, or 32.5% for the lower steepness level). By contrast, projecting catches using a target SPR of 88.7% given the lower natural mortality or steepness values results in a small increase in spawning output over time (i.e., a 2026 relative spawning biomass of 37.4% and 47.6% respectively). Projecting catches using the estimated ACL and either the base-model values or the upper states of nature for steepness and natural mortality rate results in a steady

decline in spawning output towards the target level of 40%. Finally, projecting catches using a target SPR of 88.7%, given either the base values or upper state-of-nature for steepness or natural mortality, results in a gradual increase in spawning output over ten years.

Given that this assessment estimates the canary stock to have rebuilt, we do not envision providing forecasts using the rebuilder software for West Coast groundfishes. We therefore envision that the decision tables presented here would be used as the basis for informing decisions regarding future, short-term harvest levels.

5. Regional Management Considerations

We have chosen to adopt a spatially stratified assessment model for the following reasons:

- In cases where there are large differences in exploitation rate in different spatial areas, the proportion of the stock in different areas will change as a function of age. This will result in a highly irregular, and potentially time-varying form for selectivity for the fishery when analyzed using a nonspatial model (Sampson and Scott, 2012, 2011).
- Given spatial variation in exploitation history, compositional data may exhibit systematic differences among spatial areas, e.g., by reflecting spatial differences in average age. A spatially stratified model may be able to explain these differences without otherwise attributing them to overdispersion (which would otherwise require extensive downweighting of available compositional data), and will generally provide information to diagnose model misspecification that is attributable to spatial variation in population dynamics, growth, or exploitation history (Punt et al., 2015).
- One alternative approach to dealing with spatial variation in stock availability is to include spatial areas for a single fishery as separate fleets. However, previous research suggests that this “fleets as areas” in some cases will not properly account for spatial variation when it is caused by spatial differences in exploitation history (Cope and Punt, 2011).
- We have also demonstrated that a nonspatial model generates similar estimates of stock-wide depletion, and that low rates of movement among spatial strata will not cause the estimated depletion to be below the management target (i.e., 40% of average unfished spawning output). We are therefore comfortable with plausible alternative treatments of spatial variation.

This spatial base model estimates substantial variation among spatial strata in spawning output relative to average unfished levels. However, determination of whether canary has completed its rebuilding is appropriately evaluated at a coast-wide level, and we interpret spatial variation as a tool to visualize and explore model residuals (Punt et al., 2015) and a method to identify time-varying selectivity at the stock-wide level (Sampson and Scott, 2011), rather than as a basis for spatially varying fisheries management.

6. Research Needs

We recommend that the following research be conducted before the new benchmark assessment for canary rockfish:

1. A spatial model has been adopted in this assessment for several reasons. First, exploitation history appears to differ greatly between states, driving differences among states in trends in average length, availability to fishing gears, and recovery rates. Second, the adoption of a joint US-Canadian assessment will almost certainly require a spatial model given differences in exploitation rate during the past two decades. However, the degree to which state-specific landings is a precise representation of spatial variation in catches remains unknown. We therefore recommend that a historical catch reconstruction be initiated with the intent of estimating spatial location of catches. Such a process has been initiated in other regions (e.g., the Northwest Atlantic, M. Pinsky, pers. comm.), and will be important to validate the assumptions that are necessary when developing spatial models.

2. We support the previous and long-running recommendation to incorporate Canadian data sources in a joint US-Canadian assessment model. Many Canadian data sources are likely to be similarly available for other rockfishes, so we endorse a systematic (rather than ad hoc and species-specific) exploration and analysis of Canadian data sources (length and age-composition, indices of abundance, landings, and discards) for several rockfishes.

3. We have continued to break the triennial index of abundance into two separate blocks (1980-1992 and 1995-2004) with different catchability. However, this break coincides with the decrease in landings for many rockfish species, and therefore eliminates a potential source of information regarding the degree of depletion for canary rockfish and many other species in the California Current. We therefore recommend that future research explore methods to stitch these time series back together (i.e., using covariates and a meta-analytic information regarding the ratio of catchability in the two periods). Given the established usage of this breakpoint, we envision that this change would likely require SSC review, and therefore have not attempted it in this assessment.

4. We note that the assessment of stock status for canary is highly sensitive upon biological parameters representing natural mortality rate and the strength of recruitment compensation. It is also uniquely sensitive to assumptions regarding the inclusion or exclusion of an increase in natural mortality rate for sexually mature females. Given that this sensitivity is also shared by other West Coast groundfish, we suggest that basic life history research be highly prioritized for future research.

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9. Tables

Table 1. Recent trend in estimated total canary rockfish catch and commercial landings (mt) relative to management guidelines.

Year	OFL (mt) (termed ABC prior to 2011)	ABC (mt)	ACL (mt) (termed OY prior to 2011)	Estimated Total Catch (mt)
2004	256	NA	47.3	50
2005	270	NA	46.8	57.6
2006	279	NA	47	53.7
2007	172	NA	44	47
2008	179	NA	44	36.8
2009	937	NA	105	47.3
2010	940	NA	105	44.3
2011	614	586	102	60.1
2012	622	594	107	34.1
2013	752	719	116	35.8
2014	741	709	119	41.6

Table 2: Sample size for length composition sampling in the Shelf-Slope survey

	California			Oregon			Washington			Coast-wide sum		
Year	# Indiv	# tows	Input sample size	# Indiv	# tows	Input sample size	# Indiv	# tows	Input sample size	# Indiv	# tows	Input sample size
2003	100.0	14.0	27.8	97.0	18.0	31.4	226.0	18.0	49.2	423.0	50.0	108.4
2004	156.0	11.0	32.5	149.0	12.0	32.6	177.0	14.0	38.4	482.0	37.0	103.5
2005	395.0	16.0	70.5	66.0	22.0	31.1	69.0	15.0	24.5	530.0	53.0	126.1
2006	172.0	14.0	37.7	165.0	12.0	34.8	286.0	6.0	42.4	623.0	32.0	118.0
2007	199.0	11.0	38.5	104.0	21.0	35.4	370.0	16.0	67.1	673.0	48.0	140.9
2008	107.0	12.0	26.8	444.0	17.0	78.3	248.0	7.0	41.2	799.0	36.0	146.3
2009	181.0	14.0	39.0	20.0	8.0	10.8	107.0	11.0	25.8	308.0	33.0	75.5
2010	60.0	11.0	19.3	176.0	19.0	43.3	259.0	21.0	56.7	495.0	51.0	119.3
2011	47.0	9.0	15.5	191.0	15.0	41.4	335.0	21.0	67.2	573.0	45.0	124.1
2012	32.0	16.0	20.4	218.0	17.0	47.1	601.0	22.0	104.9	851.0	55.0	172.4
2013	142.0	13.0	32.6	114.0	10.0	25.7	256.0	15.0	50.3	512.0	38.0	108.7
2014	257.0	19.0	54.5	510.0	27.0	97.4	700.0	29.0	125.6	1467.0	75.0	277.4

Table 3: Sample size for age composition sampling in the Shelf-Slope survey

	California # Indiv	Oregon # Indiv	Washington # Indiv	Coast-wide sum # Indiv
2003	35	59	77	171
2004	58	50	63	171
2005	68	42	50	160
2006	62	42	64	168
2007	82	70	107	259
2008	51	91	112	254
2009	60	18	79	157
2010	24	70	101	195
2011	21	66	137	224
2012	26	102	155	283
2013	69	62	64	195
2014	69	180	197	446

Table 4 Sample size of length composition sampling in the Triennial survey

	California			Oregon			Washington			Coast-wide sum		
Year	# Indiv	# Trips	Input sample size	# Indiv	# Trips	Input sample size	# Indiv	# Trips	Input sample size	# Indiv	# Trips	Input sample size
1980	130.0	1.0	7.1	447.0	6.0	42.4	131.0	6.0	24.1	708.0	13.0	91.8
1983	407.0	4.0	28.2	978.0	17.0	120.0	1734.0	24.0	169.4	3119.0	45.0	317.7
1986	92.0	4.0	16.7	394.0	11.0	65.4	2058.0	29.0	204.7	2544.0	44.0	310.6
1989	354.0	13.0	61.9	333.0	25.0	71.0	794.0	43.0	152.6	1481.0	81.0	285.4
1992	92.0	6.0	18.7	116.0	14.0	30.0	233.0	19.0	51.2	441.0	39.0	99.9
1995	242.0	14.0	47.4	323.0	20.0	64.6	52.0	8.0	15.2	617.0	42.0	127.1
1998	188.0	23.0	48.9	62.0	28.0	36.6	245.0	44.0	77.8	495.0	95.0	163.3
2001	47.0	15.0	21.5	182.0	32.0	57.1	178.0	29.0	53.6	407.0	76.0	132.2
2004	121.0	15.0	31.7	91.0	28.0	40.6	200.0	19.0	46.6	412.0	62.0	118.9

Table 5: Sample size of age composition sampling in the Triennial survey

Year	California # Indiv	Oregon # Indiv	Washington # Indiv	Coast-wide sum # Indiv
1988	89	317	96	502
1983	185	636	788	1609
1986	0	0	0	0
1989	110	19	121	250
1992	0	0	152	152
1995	71	108	53	232
1998	0	0	0	0
2001	47	181	120	348
2004	80	49	82	211

Table 6: Total catches (mt) of canary rockfish for the trawl, non-trawl and the recreational fleets used in the assessment model. See text for description of sources.

	Trawl			Non-Trawl			Recreational		
Year	CA	OR	WA	CA	OR	WA	CA	OR	WA
1892	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0
1893	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0
1894	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0
1895	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
1896	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
1897	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
1898	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
1899	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
1900	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
1901	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
1902	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
1903	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
1904	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
1905	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
1906	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
1907	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
1908	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
1909	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
1910	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
1911	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0
1912	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
1913	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0
1914	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0
1915	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0
1916	65.1	0.0	0.0	8.6	2.8	0.0	0.0	0.0	0.0
1917	103.3	0.0	0.0	14.2	2.9	0.0	0.0	0.0	0.0
1918	106.2	0.0	0.0	16.1	3.1	0.0	0.0	0.0	0.0
1919	68.6	0.0	0.0	8.4	3.2	0.0	0.0	0.0	0.0
1920	72.1	0.0	0.0	9.2	3.4	0.0	0.0	0.0	0.0
1921	61.2	0.0	0.0	8.8	3.5	0.0	0.0	0.0	0.0
1922	56.3	0.0	0.0	8.0	3.6	0.0	0.0	0.0	0.0
1923	68.3	0.0	0.0	8.8	3.8	0.0	0.0	0.0	0.0
1924	69.2	0.0	0.0	11.3	3.9	0.0	0.0	0.0	0.0
1925	77.9	0.0	0.0	15.4	4.1	0.0	0.0	0.0	0.0
1926	106.4	0.0	0.0	18.3	4.2	0.0	0.0	0.0	0.0
1927	92.4	0.0	0.0	19.5	4.3	0.0	0.0	0.0	0.0
1928	91.0	0.0	0.0	17.0	7.2	0.0	1.6	0.0	0.0
1929	100.2	0.0	0.0	16.4	12.3	0.0	3.2	0.0	0.0
1930	106.4	0.0	0.0	21.2	11.3	0.0	3.7	0.0	0.0
1931	127.9	0.0	0.0	20.9	9.0	0.0	4.9	0.0	0.0
1932	85.8	0.8	0.0	25.4	2.9	0.0	6.1	0.0	0.0
1933	86.5	0.5	0.0	12.1	4.7	0.0	7.3	0.0	0.0
1934	80.7	0.0	0.3	15.6	5.1	0.0	8.5	0.0	0.0
1935	90.7	0.4	2.3	22.8	4.6	0.0	9.7	0.0	0.0
1936	58.5	1.4	3.0	23.6	11.0	0.0	11.0	0.0	0.0
1937	70.5	2.8	2.7	17.4	13.1	0.0	13.0	0.0	0.0
1938	72.5	0.0	3.9	17.3	12.9	0.0	12.8	0.0	0.0
1939	92.6	3.9	4.1	16.2	7.3	0.0	11.2	0.0	0.0
1940	75.6	90.8	9.1	11.2	16.3	0.0	16.1	0.0	0.0
1941	63.5	139.7	3.4	14.9	21.8	0.0	14.9	0.0	0.0
1942	21.5	262.5	66.5	9.8	30.2	0.0	7.9	0.0	0.0
1943	66.4	917.6	214.8	12.8	74.8	0.0	7.5	0.0	0.0
1944	270.8	1610.2	89.3	53.5	19.2	0.0	6.2	0.0	0.0
1945	614.7	2484.5	935.7	131.2	12.3	0.0	8.3	0.0	0.0
1946	555.5	1529.8	471.7	138.1	15.1	0.0	14.2	0.0	0.0
1947	224.2	953.6	246.4	29.4	7.6	0.0	11.3	0.0	0.0
1948	237.6	679.5	400.1	55.1	12.5	0.0	22.7	0.0	0.0

Table cont.: Total catches (mt) of canary rockfish for the trawl, non-trawl and the recreational fleets used in the assessment model. See text for description of sources.

	Trawl			Non-trawl			Recreational		
Year	CA	OR	WA	CA	OR	WA	CA	OR	WA
1949	196.5	588.4	486.6	21.3	8.4	0.0	29.4	0.0	0.0
1950	189.2	616.2	467.7	16.3	7.8	0.0	35.8	0.0	0.0
1951	201.2	566.9	391.3	13.9	6.0	0.0	42.4	0.0	0.0
1952	136.0	587.2	373.1	10.1	5.7	0.0	37.1	0.0	0.0
1953	135.1	615.5	161.8	5.8	3.0	0.0	31.7	0.0	0.0
1954	95.7	781.5	232.1	11.8	3.5	0.0	39.9	0.0	0.0
1955	101.3	787.1	219.0	2.8	4.3	0.0	48.4	0.0	0.0
1956	100.7	1166.1	209.2	4.4	2.7	0.0	54.1	0.0	0.0
1957	115.7	1214.6	173.1	5.4	5.9	0.0	50.7	0.0	0.0
1958	149.6	830.1	219.1	6.8	1.2	0.0	86.3	0.0	0.0
1959	110.0	908.9	244.9	4.8	2.4	0.0	69.6	0.0	0.0
1960	87.4	1082.9	221.5	8.0	1.6	0.0	54.2	0.0	0.0
1961	69.6	982.8	262.9	3.4	4.5	0.0	38.1	0.0	0.0
1962	71.1	1148.5	366.4	4.4	4.1	0.0	46.5	0.0	0.0
1963	93.7	660.5	294.9	5.9	3.7	0.0	49.6	0.0	0.0
1964	62.8	1006.7	217.7	4.1	8.2	0.0	45.5	0.0	0.0
1965	83.7	821.7	485.2	5.2	16.7	0.0	69.4	0.0	0.0
1966	62.0	921.5	664.1	3.9	17.3	0.0	75.4	0.0	0.0
1967	83.1	132.9	324.2	5.6	31.0	0.0	79.4	0.0	0.8
1968	78.2	852.2	559.5	4.0	31.8	0.0	84.4	0.0	0.0
1969	198.3	261.1	545.4	19.0	45.4	0.0	92.3	0.0	0.0
1970	217.6	568.7	504.6	12.0	33.5	0.0	115.9	0.0	0.0
1971	329.7	757.6	578.1	21.1	38.1	0.0	101.1	0.0	0.0
1972	409.4	714.6	161.2	40.9	62.8	0.0	133.3	0.0	0.0
1973	318.2	887.6	361.2	19.6	66.7	0.0	155.2	0.0	0.0
1974	400.1	544.9	552.2	50.0	73.4	0.0	163.8	0.0	0.0
1975	435.2	387.5	759.4	35.9	45.0	0.0	158.9	0.0	3.6
1976	474.8	238.2	579.2	50.0	52.4	0.0	175.2	0.0	1.6
1977	460.4	594.0	486.1	59.5	57.0	0.0	167.5	0.0	4.1
1978	653.8	1786.0	1413.4	146.0	136.5	0.0	161.3	0.0	6.0
1979	314.6	1297.1	711.8	128.6	238.8	0.0	178.9	0.0	4.7
1980	442.7	2873.3	763.3	95.8	182.7	0.0	161.5	25.7	3.8
1981	546.8	1954.0	533.5	172.4	166.4	0.0	144.1	51.4	2.5
1982	807.1	3770.7	451.2	45.4	271.8	0.0	239.0	39.2	2.9
1983	513.1	3539.6	674.9	70.3	332.0	0.0	94.8	5.1	5.0
1984	402.1	1337.2	635.6	63.3	218.3	0.0	90.9	19.1	8.0
1985	333.2	1111.1	1076.5	117.0	221.1	0.0	135.3	57.2	3.8
1986	174.4	1044.5	932.4	56.6	213.9	0.0	199.9	12.8	6.3
1987	219.1	1515.4	1054.3	47.8	197.3	0.0	162.3	29.9	10.6
1988	235.5	1328.8	1015.6	52.7	306.1	0.0	143.2	50.6	8.9
1989	189.4	1609.3	1253.7	224.0	22.6	0.0	89.2	23.2	9.9
1990	338.0	1012.1	1140.3	216.7	73.5	0.0	77.1	29.7	9.0
1991	151.3	1809.7	1007.7	167.2	67.9	0.0	77.1	29.7	9.8
1992	233.4	1452.6	855.6	132.0	181.5	0.0	77.1	29.7	19.2
1993	93.4	1521.0	300.6	112.0	169.9	0.0	65.1	36.3	18.3
1994	124.7	656.1	155.1	97.7	119.2	0.0	43.4	32.4	10.6
1995	128.2	547.0	159.5	120.1	122.3	6.6	85.4	35.7	8.9
1996	211.8	743.1	189.1	133.2	185.4	5.8	58.3	19.2	8.4
1997	171.0	580.3	204.3	109.4	264.9	6.4	99.4	38.5	8.7
1998	155.1	694.1	203.4	85.3	255.8	7.5	26.9	41.6	13.7
1999	101.5	352.6	139.6	40.3	156.6	8.1	57.8	29.3	8.0
2000	18.8	21.0	14.7	22.3	49.9	11.2	63.2	14.6	5.6
2001	13.5	19.3	11.9	17.8	24.9	11.3	29.1	10.6	4.9
2002	20.0	20.8	23.7	0.9	1.4	3.9	6.0	8.7	2.4
2003	8.0	8.4	11.1	0.9	0.8	1.0	17.9	9.2	2.2
2004	3.5	5.8	8.6	3.6	3.2	3.5	10.0	3.2	0.9
2005	10.0	11.9	19.3	1.6	1.1	1.0	2.3	5.8	1.3

Table cont.: Total catches (mt) of canary rockfish for the trawl, non-trawl and the recreational fleets used in the assessment model. See text for description of sources.

	Trawl			Non-Trawl			Recreational		
Year	CA	OR	WA	CA	OR	WA	CA	OR	WA
2006	7.0	8.3	12.8	3.0	2.0	0.8	6.8	3.3	0.6
2007	12.1	5.7	8.7	4.3	3.1	0.4	5.5	2.7	0.7
2008	4.4	5.7	8.3	1.8	1.3	4.1	1.6	2.2	0.6
2009	2.5	5.1	6.7	2.1	1.8	3.4	19.0	2.7	0.7
2010	0.5	2.5	6.9	3.7	2.9	4.8	15.8	3.2	0.8
2011	0.4	2.9	3.6	9.0	8.2	8.2	20.9	3.2	1.2
2012	0.6	4.9	5.2	3.8	3.7	4.9	3.8	3.7	0.9
2013	1.5	5.9	4.5	5.5	5.2	2.7	4.4	3.4	1.1
2014	2.0	7.5	1.7	6.1	5.7	5.7	4.1	3.0	1.5

Table 7: Total catches (mt) of canary rockfish for the at-sea hake, foreign and the research fleets used in the assessment model. The triennial and NWFSC survey research catches are combined by state. See text for description of sources.

	At-sea hake			Foreign			Research		
Year	CA	OR	WA	CA	OR	WA	CA	OR	WA
1892	0	0	0	0	0	0	0	0	0
1893	0	0	0	0	0	0	0	0	0
1894	0	0	0	0	0	0	0	0	0
1895	0	0	0	0	0	0	0	0	0
1896	0	0	0	0	0	0	0	0	0
1897	0	0	0	0	0	0	0	0	0
1898	0	0	0	0	0	0	0	0	0
1899	0	0	0	0	0	0	0	0	0
1900	0	0	0	0	0	0	0	0	0
1901	0	0	0	0	0	0	0	0	0
1902	0	0	0	0	0	0	0	0	0
1903	0	0	0	0	0	0	0	0	0
1904	0	0	0	0	0	0	0	0	0
1905	0	0	0	0	0	0	0	0	0
1906	0	0	0	0	0	0	0	0	0
1907	0	0	0	0	0	0	0	0	0
1908	0	0	0	0	0	0	0	0	0
1909	0	0	0	0	0	0	0	0	0
1910	0	0	0	0	0	0	0	0	0
1911	0	0	0	0	0	0	0	0	0
1912	0	0	0	0	0	0	0	0	0
1913	0	0	0	0	0	0	0	0	0
1914	0	0	0	0	0	0	0	0	0
1915	0	0	0	0	0	0	0	0	0
1916	0	0	0	0	0	0	0	0	0
1917	0	0	0	0	0	0	0	0	0
1918	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	0	0
1926	0	0	0	0	0	0	0	0	0
1927	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0

Table cont.: Total catches (mt) of canary rockfish for the at-sea hake, foreign and the research fleets used in the assessment model. The triennial and NWFSC survey research catches are combined by state. See text for description of sources.

	At-sea hake			Foreign			Research		
Year	CA	OR	WA	CA	OR	WA	CA	OR	WA
1947	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1948	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	41.0	0.0	1558.0	0.0	0.0	0.0
1967	0.0	0.0	0.0	101.0	2.0	748.0	0.0	0.0	0.0
1968	0.0	0.0	0.0	30.0	385.0	395.0	0.0	0.0	0.0
1969	0.0	0.0	0.0	2.0	3.0	62.0	0.0	0.0	0.0
1970	0.0	0.0	0.0	0.0	0.0	101.0	0.0	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	188.0	0.0	0.0	0.0
1972	0.0	0.0	0.0	1.0	12.0	386.0	0.0	0.0	0.0
1973	0.0	0.0	0.0	37.0	335.0	593.0	0.0	0.0	0.0
1974	0.0	0.0	0.0	104.0	46.0	369.0	0.0	0.0	0.0
1975	0.8	0.0	0.0	28.0	35.0	141.0	0.0	0.0	0.0
1976	0.8	6.6	0.0	27.0	22.0	114.0	0.0	0.0	0.0
1977	0.0	1.4	0.0	0.0	0.0	0.0	0.4	0.9	2.0
1978	0.4	10.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	9.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.4	7.6	1.6	0.0	0.0	0.0	0.3	1.4	0.2
1981	2.6	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1982	0.1	0.2	24.6	0.0	0.0	0.0	0.0	0.0	0.0
1983	0.0	1.9	23.9	0.0	0.0	0.0	1.8	1.8	4.4
1984	0.0	1.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	4.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
1986	0.0	0.7	3.6	0.0	0.0	0.0	0.4	1.8	6.1
1987	0.0	2.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0
1988	0.1	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
1989	0.3	1.4	1.0	0.0	0.0	0.0	0.4	0.6	2.7
1990	0.1	1.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
1991	0.0	1.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
1992	0.0	0.1	2.0	0.0	0.0	0.0	0.0	0.1	0.3
1993	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
1994	0.0	0.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
1995	0.0	0.1	0.2	0.0	0.0	0.0	0.4	0.5	0.0
1996	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
1997	0.0	0.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
1998	0.0	0.2	4.6	0.0	0.0	0.0	0.2	0.1	0.2
1999	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0
2001	0.0	1.0	2.9	0.0	0.0	0.0	0.1	0.3	0.6

Table cont.: Total catches (mt) of canary rockfish for the at-sea hake, foreign and the research fleets used in the assessment model. The triennial and NWFSC survey research catches are combined by state. See text for description of sources.

	At-sea hake			Foreign			Research		
Year	CA	OR	WA	CA	OR	WA	CA	OR	WA
2002	0.0	3.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0
2003	0.0	0.3	0.7	0.0	0.0	0.0	0.1	0.1	0.5
2004	0.0	4.6	0.8	0.0	0.0	0.0	0.3	0.4	1.4
2005	0.0	0.9	1.0	0.0	0.0	0.0	1.2	0.1	0.1
2006	0.0	0.9	0.8	0.0	0.0	0.0	0.2	0.7	6.3
2007	0.0	2.0	0.9	0.0	0.0	0.0	0.4	0.1	0.5
2008	0.0	1.5	4.2	0.0	0.0	0.0	0.1	0.6	0.3
2009	0.0	0.2	2.8	0.0	0.0	0.0	0.1	0.0	0.1
2010	0.0	0.1	1.4	0.0	0.0	0.0	0.0	0.1	1.5
2011	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.2	1.0
2012	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.2	1.7
2013	0.0	0.5	0.6	0.0	0.0	0.0	0.1	0.1	0.2
2014	0.0	0.6	0.4	0.0	0.0	0.0	0.2	2.0	1.3

Table 8: Discard rates assumed for the trawl and non-trawl fleets.

	Trawl			Non-Trawl		
Year	CA	OR	WA	CA	OR	WA
1892-1980	0.01	0.01	0.01	0.01	0.01	0.01
1981-1994	0.05	0.05	0.05	0.05	0.05	0.05
1995-2001	0.20	0.20	0.20	0.20	0.20	0.20
2002	0.43	0.24	0.28	0.88	0.41	0.22
2003	0.95	0.67	0.60	0.99	0.98	0.13
2004	0.74	0.35	0.37	0.99	1.00	0.61
2005	0.90	0.67	0.73	0.96	1.00	0.24
2006	0.84	0.72	0.72	1.00	1.00	0.15
2007	0.36	0.80	0.66	1.00	1.00	0.42
2008	0.86	0.82	0.68	0.99	1.00	0.07
2009	0.59	0.38	0.38	1.00	1.00	0.01
2010	0.17	0.05	0.02	1.00	1.00	0.00
2011	0.12	0.02	0.02	1.00	1.00	0.00
2012	0.02	0.00	0.00	1.00	1.00	0.00
2013	0.01	0.00	0.01	0.98	1.00	0.02
2014	0.01	0.00	0.02	1.00	1.00	0.01

Table 9: Summary of sampling effort generating length-frequency distribution used in the assessment model for the trawl fleet.

	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	1	162
1969	0	0	0	0	2	718
1970	0	0	0	0	1	268
1971	0	0	0	0	6	1289
1972	0	0	0	0	2	501
1973	0	0	1	51	1	230
1974	0	0	4	370	0	0
1975	0	0	0	0	5	1244
1976	0	0	2	89	3	527
1977	0	0	8	750	2	481
1978	71	384	6	570	4	721
1979	32	170	6	600	9	800
1980	102	310	20	996	17	1649
1981	57	185	8	633	18	1765
1982	76	354	20	1358	13	1300
1983	125	421	30	2836	17	1650
1984	82	373	21	2064	17	1550
1985	94	447	29	1891	18	1750
1986	57	396	16	1545	18	1650
1987	60	305	35	1751	25	1300
1988	52	272	23	1148	19	950
1989	45	247	23	1130	18	900
1990	50	349	22	1099	17	850
1991	36	191	22	869	21	1050
1992	29	229	34	1364	21	1000
1993	34	252	22	1113	17	854
1994	16	151	15	750	15	750
1995	16	273	16	847	22	1100
1996	24	442	19	1162	16	751
1997	23	355	26	1447	28	870
1998	14	210	28	1560	26	846
1999	15	305	28	1517	20	753
2000	11	87	9	371	7	229
2001	17	203	31	873	14	428
2002	16	294	57	1167	31	638
2003	5	46	40	281	21	271
2004	7	15	51	356	31	334
2005	9	67	50	351	31	413
2006	6	52	58	360	26	455
2007	9	67	15	32	44	353
2008	10	23	60	202	21	305
2009	11	100	82	486	23	401
2010	10	57	32	359	13	312
2011	4	12	45	418	20	372
2012	13	167	59	494	27	455
2013	19	310	160	1175	23	386
2014	0	0	131	1118	11	127

Table 10: Summary of sampling effort generating length-frequency distribution used in the assessment model for the non-trawl fleet.

	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	1	1	1	100	0	0
1979	13	49	0	0	0	0
1980	12	45	0	0	2	27
1981	16	79	0	0	0	0
1982	10	70	0	0	0	0
1983	6	36	0	0	0	0
1984	10	33	0	0	0	0
1985	25	89	0	0	0	0
1986	29	100	0	0	0	0
1987	15	121	0	0	0	0
1988	14	94	3	287	0	0
1989	27	330	0	0	0	0
1990	19	84	1	100	0	0
1991	17	207	0	0	0	0
1992	148	1841	0	0	0	0
1993	154	1415	0	0	0	0
1994	148	2057	0	0	0	0
1995	83	1323	0	0	0	0
1996	106	1390	1	37	0	0
1997	81	1107	14	682	0	0
1998	45	387	8	335	0	0
1999	67	788	5	168	0	0
2000	18	148	32	301	2	3
2001	29	243	29	191	0	0
2002	3	22	1	6	1	8
2003	1	1	0	0	0	0
2004	0	0	0	0	3	22
2005	0	0	0	0	0	0
2006	0	0	0	0	1	35
2007	0	0	0	0	2	6
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	0	0	0	0	1	3
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	1	10
2014	0	0	0	0	0	0

Table 11: Summary of sampling effort generating length-frequency distribution used in the assessment model for the at-sea hake fleet.

	At-sea hake					
	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	0	0	0	0	0
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	37	46	71	106
2004	0	0	75	124	50	64
2005	0	0	76	134	91	165
2006	0	0	69	104	76	134
2007	0	0	187	332	75	131
2008	2	2	76	136	171	290
2009	0	0	3	4	128	217
2010	3	3	4	5	133	228
2011	0	0	1	1	95	176
2012	0	0	25	33	52	76
2013	0	0	17	22	74	112
2014	9	13	57	83	52	71

Table 12: Summary of sampling effort generating length-frequency distributions used in the assessment model for the recreational fleets.

	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	11	40
1980	170	750	0	0	26	113
1981	113	454	0	0	18	65
1982	143	647	0	0	4	12
1983	113	443	0	0	1	3
1984	131	553	0	0	10	42
1985	264	1119	0	0	2	5
1986	329	1387	0	0	2	3
1987	142	618	0	0	5	21
1988	101	395	0	0	1	1
1989	134	576	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	134	577	0	0	0	0
1994	113	438	0	0	0	0
1995	0	0	0	0	11	38
1996	235	1010	0	0	5	15
1997	415	1762	0	0	5	14
1998	168	737	0	0	2	4
1999	227	983	0	0	0	0
2000	99	393	0	0	0	0
2001	44	176	107	1005	0	0
2002	37	117	142	1540	54	197
2003	17	49	183	1845	57	229
2004	47	211	5	23	15	44
2005	102	398	4	18	18	51
2006	138	599	5	20	6	15
2007	86	348	3	9	4	10
2008	43	142	6	29	5	13
2009	44	172	3	16	5	13
2010	30	92	6	28	5	12
2011	47	205	8	47	5	11
2012	41	127	6	32	3	9
2013	42	134	5	20	2	6
2014	0	0	5	19	2	8

Table 13: Summary of sampling effort generating age-frequency distribution used in the assessment model for the trawl fleet.

	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	2	51	0	0
1974	0	0	8	359	0	0
1975	0	0	0	0	6	334
1976	0	0	0	0	4	138
1977	0	0	10	444	2	99
1978	0	0	12	564	6	249
1979	0	0	8	396	16	796
1980	99	234	38	878	34	1630
1981	73	161	16	633	34	1429
1982	85	210	40	1358	26	891
1983	175	396	58	2724	30	1230
1984	119	360	38	1856	34	1191
1985	117	401	48	1204	34	1647
1986	0	0	32	807	34	1225
1987	1	1	58	1448	34	894
1988	0	0	37	899	38	948
1989	0	0	46	1094	36	887
1990	0	0	40	998	34	850
1991	0	0	44	850	38	941
1992	0	0	64	1280	40	996
1993	0	0	44	1110	34	848
1994	0	0	8	200	30	749
1995	0	0	28	794	44	1100
1996	0	0	36	1093	30	729
1997	0	0	52	1439	34	843
1998	0	0	56	1554	34	827
1999	0	0	56	1516	30	737
2000	0	0	18	371	12	227
2001	2	28	46	727	19	304
2002	12	75	89	1002	53	595
2003	7	43	53	248	41	271
2004	7	12	72	333	46	317
2005	10	54	70	343	55	411
2006	6	31	71	238	46	453
2007	3	21	14	22	67	351
2008	0	0	85	195	30	295
2009	4	21	124	480	42	396
2010	0	0	50	334	24	307
2011	0	0	65	390	35	343
2012	0	0	97	493	48	420
2013	0	0	240	1148	43	334
2014	0	0	39	423	10	81

Table 14: Summary of sampling effort generating age-frequency distribution used in the assessment model for the non-trawl fleet.

	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	2	100	0	0
1979	0	0	0	0	0	0
1980	2	4	0	0	0	0
1981	2	8	0	0	0	0
1982	4	8	0	0	0	0
1983	4	4	0	0	0	0
1984	0	0	0	0	0	0
1985	6	30	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	0	0	0	0	0
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	6	115	0	0
1998	0	0	8	87	0	0
1999	0	0	0	0	0	0
2000	0	0	14	119	0	0
2001	0	0	8	39	0	0
2002	6	20	2	6	2	8
2003	0	0	0	0	0	0
2004	0	0	0	0	5	22
2005	0	0	0	0	0	0
2006	0	0	0	0	2	35
2007	0	0	0	0	2	6
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	0	0	0	0	2	3
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	2	10
2014	0	0	0	0	0	0

Table 15: Summary of sampling effort generating age-frequency distribution used in the assessment model for the at-sea hake fleet.

	At-sea hake					
	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	0	0	0	0	0
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	25	46	60	120
2004	0	0	50	97	17	30
2005	0	0	35	59	32	56
2006	0	0	27	51	27	50
2007	0	0	60	115	23	41
2008	1	2	27	49	56	104
2009	0	0	1	1	36	62
2010	1	3	1	2	60	113
2011	0	0	1	1	50	97
2012	0	0	14	18	17	31
2013	0	0	8	11	17	31
2014	0	0	0	0	0	0

Table 16: Summary of sampling effort generating age-frequency distribution used in the assessment model for the recreational fleet.

	California		Oregon		Washington	
Year	Ntrips	Nfish	Ntrips	Nfish	Ntrips	Nfish
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	0	0	0	0	0
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	6	12
2005	0	0	0	0	4	7
2006	0	0	0	0	3	4
2007	0	0	0	0	3	3
2008	0	0	0	0	3	3
2009	0	0	0	0	3	3
2010	0	0	0	0	3	3
2011	0	0	0	0	1	1
2012	0	0	0	0	3	5
2013	0	0	0	0	0	0
2014	0	0	0	0	3	3

Table 17 – Overview of likelihood components

	values
TOTAL	5597.94
Equil_catch	0.00
Survey	-40.33
Length_comp	674.49
Age_comp	4907.87
Recruitment	-2.10
Forecast_Recruitment	0.00
Parm_priors	0.00
Parm_softbounds	0.03
Parm_devs	58.00
Crash_Pen	0.00

Table 18 – Likelihood components that vary by fleet

	Surv_like	Length_like	Age_like
ALL	-40.33	674.49	4907.87
1_CA_TWL	0.00	110.77	94.20
2_OR_TWL	0.00	100.87	271.24
3_WA_TWL	0.00	114.75	266.01
4_CA_NTWL	0.00	144.36	58.72
5_OR_NTWL	0.00	35.83	48.38
6_WA_NTWL	0.00	12.68	38.46
7_CA_REC	0.00	50.59	0.00
8_OR_REC	0.00	47.21	0.00
9_WA_REC	0.00	66.78	21.62
10_CA_AHSOP	0.00	6.81	2.84
11_OR_ASHOP	0.00	53.56	70.78
12_WA_ASHOP	0.00	67.21	99.64
13_CA_FOR	0.00	0.00	0.00
14_OR_FOR	0.00	0.00	0.00
15_WA_FOR	0.00	0.00	0.00
16_CA_NWFSC	-4.46	16.99	848.71
17_OR_NWFSC	-7.56	11.90	1081.27
18_WA_NWFSC	-8.89	16.71	1326.46
19_CA_Tri_early	-2.08	8.54	140.82
20_OR_Tri_early	-3.84	7.25	304.64
21_WA_Tri_early	-4.38	12.50	380.25
22_CA_Tri_late	-2.63	6.23	88.81
23_OR_Tri_late	-3.45	7.83	163.80
24_WA_Tri_late	-3.58	8.39	137.45
25_CA_prerec	-0.99	0.00	0.00
26_OR_prerec	-3.69	0.00	0.00
27_WA_prerec	5.23	0.00	0.00
28_coast-wide_NWFSC	-5.05	721.28	0.00
29_coast-wide_Tri_early	-3.09	170.58	0.00
30_coast-wide_Tri_late	-2.62	247.32	0.00
31_coastw-ide_prerec	46.02	0.00	0.00

Table 19 Results for search for global convergence (i.e., 50 jitter iterations)

Negative log-likelihood	5597.94	5598.4	5598.47	Not converged
Number of runs with final value	10	13	3	24

Table 20 – Analytical estimates of catchability for each survey index of abundance

Fleet	Catchability
16_CA_NWFSC	0.641
17_OR_NWFSC	0.348
18_WA_NWFSC	0.552
19_CA_Tri_early	1.715
20_OR_Tri_early	0.399
21_WA_Tri_early	0.551
22_CA_Tri_late	1.983
23_OR_Tri_late	0.285
24_WA_Tri_late	0.234
25_CA_prerec	1.80E-04
26_OR_prerec	1.92E-04
27_WA_prerec	1.07E-04

Table 21: Canary rockfish growth parameters

Parameter	Value	SD
Females:		
Length at age 1	9.05	0.117
Length at age 20	60.05	0.227
von Bertalanffy *K*	0.129	0.002
CV of length at age 1	0.108	0.005
CV of length at age 20	0.028	0.110
Males:		
Length at age 1	9.05	NA
Length at age 20	53.58	0.004
von Bertalanffy *K*	0.224	0.014
CV of length at age 1	0.113	0.062
CV of length at age 20	0.013	0.083

Table 22: Description of model parameters in the base case assessment model.

Parameter	Number estimated	Bounds (low, high)	Prior (Mean, SD)
Natural mortality (*M*, male and female to age 6)	-	NA	Fixed at 0.0521
Natural mortality (*M*, female age 14+, as exp. offset)	1	(0,0.9)	Uniform
Stock and recruitment			
Ln(R_0)	1	(7,11)	Uniform
Steepness (*h*)	-	NA	Fixed at 0.773
Parameters for recruitment distribution among states	2	(-7,7)	Uniform
σ_R	-	NA	Iterated to 0.50
σ_{Dist}	-	NA	Iterated to 0.50
Recruitment deviations: 1933-2014	82	(-5, 5)	~N(0, σ_r)
Distribution deviations: 1933-2014 (OR and WA)	164	unbounded	~N(0, σ_{Dist})
Catchability			
Ln(*Q*) for surveys (estimated analytically)	12	unbounded	Uniform
Extra SD for indices of abundance	3	(0,3)	Uniform
Selectivity (double normal)			
Fisheries:			
Length at peak selectivity	7	(12,65)	Uniform
Width of top (as logistic)	-	NA	Fixed at -4.0
Ascending width (as exp[width])	7	(0,9)	Uniform
Descending width (as exp[width])	7	(0,9)	Uniform
Initial selectivity (as logistic)	-	NA	Fixed at -9.0
Final selectivity (as logistic)	7	(-5,5)	Uniform
Surveys:			
Length at peak selectivity	3	(12,65)	Uniform
Width of top (as logistic)	-	NA	Fixed at -4.0
Ascending width (as exp[width])	3	(0,9)	Uniform
Descending width (as exp[width])	3	(0,9)	Uniform
Initial selectivity (as logistic)	-	NA	Fixed at -9.0
Final selectivity (as logistic)	3	(-5,5)	Uniform
Individual growth			
Females:			
Length at age 1	1	(2,15)	Uniform
Length at age 30	1	(50,70)	Uniform
von Bertalanffy *K*	1	(0.02,0.21)	Uniform
CV of length at age 1	1	(0.02,0.21)	Uniform
CV of length at age 20 offset to age 1	1	(-3,3)	Uniform
Males:			
Length at age 1 offset to females	-	NA	Fixed at 0.0
Length at age 20 offset to females	1	(-3,3)	Uniform
von Bertalanffy K offset to females	1	(-3,3)	Uniform
CV of length at age 1 offset to females	1	(-3,3)	Uniform
CV of length at age 20 offset to females	1	(-3,3)	Uniform
			13 biological parameters +
			43 selectivity and catchability parameters +
			82 recruitment deviations +
			164 distribution deviations
			= 302 estimated parameters

Table 23 – Summary time series for base model

Year	Age 5+ biomass (mt)	Spawning output (millions eggs)	Spawning Depletion (%)	Age-0 recruits	Total Catch (mt)	1-SPR (%)	Relative exploitation rate
1892	73,329	7,491	100.00	2,858	6.0	0.13	0.0%
1893	73,324	7,490	100.00	2,858	6.0	0.13	0.0%
1894	73,318	7,490	100.00	2,858	6.0	0.13	0.0%
1895	73,313	7,489	100.00	2,858	1.5	0.03	0.0%
1896	73,312	7,489	100.00	2,858	0.4	0.01	0.0%
1897	73,312	7,489	100.00	2,858	0.4	0.01	0.0%
1898	73,312	7,489	100.00	2,858	0.2	0.01	0.0%
1899	73,312	7,489	100.00	2,858	0.4	0.01	0.0%
1900	73,313	7,489	100.00	2,858	0.5	0.01	0.0%
1901	73,313	7,489	100.00	2,858	0.7	0.02	0.0%
1902	73,313	7,489	100.00	2,858	0.8	0.02	0.0%
1903	73,313	7,489	100.00	2,858	1.0	0.02	0.0%
1904	73,313	7,489	100.00	2,858	1.1	0.03	0.0%
1905	73,313	7,489	100.00	2,858	1.3	0.03	0.0%
1906	73,312	7,489	100.00	2,858	1.4	0.03	0.0%
1907	73,312	7,489	100.00	2,858	1.6	0.03	0.0%
1908	73,311	7,489	100.00	2,858	1.7	0.04	0.0%
1909	73,310	7,489	100.00	2,858	1.9	0.04	0.0%
1910	73,309	7,489	100.00	2,858	2.0	0.04	0.0%
1911	73,308	7,489	100.00	2,858	2.1	0.05	0.0%
1912	73,307	7,489	100.00	2,858	2.3	0.05	0.0%
1913	73,306	7,489	100.00	2,858	2.4	0.05	0.0%
1914	73,304	7,489	100.00	2,858	2.6	0.06	0.0%
1915	73,303	7,488	100.00	2,858	2.7	0.06	0.0%
1916	73,302	7,488	100.00	2,858	79.5	1.51	0.1%
1917	73,227	7,480	99.90	2,858	125.1	2.30	0.2%
1918	73,113	7,468	99.70	2,858	130.3	2.41	0.2%
1919	72,997	7,455	99.50	2,857	83.4	1.61	0.1%
1920	72,930	7,448	99.40	2,857	88.0	1.70	0.1%
1921	72,861	7,440	99.30	2,857	76.4	1.50	0.1%
1922	72,807	7,435	99.20	2,857	70.6	1.40	0.1%
1923	72,762	7,430	99.20	2,857	84.1	1.65	0.1%
1924	72,706	7,424	99.10	2,857	87.8	1.73	0.1%
1925	72,649	7,418	99.00	2,856	101.3	1.99	0.1%
1926	72,583	7,412	98.90	2,856	134.0	2.57	0.2%
1927	72,489	7,402	98.80	2,856	120.8	2.37	0.2%
1928	72,411	7,394	98.70	2,856	121.4	2.42	0.2%
1929	72,335	7,387	98.60	2,855	137.3	2.76	0.2%
1930	72,248	7,378	98.50	2,855	148.0	2.97	0.2%
1931	72,155	7,369	98.40	2,855	168.9	3.34	0.2%
1932	72,045	7,358	98.20	2,855	125.6	2.63	0.2%
1933	71,977	7,351	98.10	2,508	115.2	2.48	0.2%
1934	71,921	7,347	98.10	2,495	114.3	2.50	0.2%
1935	71,854	7,342	98.00	2,480	151.8	2.92	0.2%
1936	71,742	7,336	97.90	2,464	143.3	2.57	0.2%
1937	71,616	7,333	97.90	2,448	151.7	2.81	0.2%
1938	71,437	7,328	97.80	2,430	158.2	2.82	0.2%
1939	71,212	7,322	97.70	2,412	176.5	3.09	0.2%
1940	70,926	7,311	97.60	2,393	261.2	4.91	0.4%
1941	70,514	7,283	97.20	2,376	337.7	5.69	0.5%

Table 23 cont. – Summary time series for base model

Year	Age 5+ biomass (mt)	Spawning output (millions eggs)	Spawning Depletion (%)	Age-0 recruits	Total Catch (mt)	1-SPR (%)	Relative exploitation rate
1942	70,026	7,242	96.70	2,359	453.2	8.16	0.6%
1943	69,371	7,177	95.80	2,341	1473.2	22.49	2.1%
1944	67,816	7,010	93.60	2,315	2659.5	31.66	3.9%
1945	65,534	6,760	90.20	2,288	5028.0	54.58	7.7%
1946	61,199	6,286	83.90	2,255	3154.6	43.83	5.2%
1947	58,430	5,978	79.80	2,226	1700.0	29.81	2.9%
1948	56,983	5,813	77.60	2,199	1748.7	29.74	3.1%
1949	55,652	5,665	75.60	2,173	1739.4	28.82	3.1%
1950	54,442	5,534	73.90	2,148	1721.7	29.54	3.2%
1951	53,270	5,410	72.20	2,123	1546.4	28.31	2.9%
1952	52,242	5,305	70.80	2,103	1459.8	27.34	2.8%
1953	51,313	5,212	69.60	2,083	1102.3	23.75	2.1%
1954	50,601	5,144	68.70	2,107	1397.5	27.99	2.8%
1955	49,696	5,055	67.50	2,129	1368.5	28.44	2.8%
1956	48,811	4,970	66.30	2,184	1764.2	34.28	3.6%
1957	47,580	4,845	64.70	2,284	1749.0	35.07	3.7%
1958	46,361	4,719	63.00	2,523	1498.4	33.40	3.2%
1959	45,459	4,625	61.70	2,834	1568.7	34.53	3.5%
1960	44,566	4,528	60.40	2,700	1669.9	36.45	3.7%
1961	43,656	4,421	59.00	3,609	1605.7	35.81	3.7%
1962	42,949	4,327	57.80	3,898	1972.0	41.46	4.6%
1963	42,117	4,210	56.20	3,948	1366.4	33.05	3.2%
1964	42,001	4,159	55.50	2,991	1555.6	38.25	3.7%
1965	41,866	4,096	54.70	2,517	1480.1	40.90	3.5%
1966	41,791	4,038	53.90	2,543	3496.4	53.42	8.4%
1967	40,031	3,805	50.80	3,020	2408.0	29.85	6.0%
1968	40,246	3,801	50.70	6,375	4586.9	54.40	11.4%
1969	39,597	3,735	49.90	3,344	2377.1	36.00	6.0%
1970	40,290	3,834	51.20	2,066	2542.3	43.51	6.3%
1971	40,803	3,924	52.40	1,888	2813.3	50.35	6.9%
1972	40,933	3,967	53.00	3,212	2298.0	48.81	5.6%
1973	41,131	4,009	53.50	3,680	3809.6	58.92	9.3%
1974	40,432	3,945	52.70	3,410	3331.4	49.77	8.2%
1975	40,168	3,947	52.70	3,177	2696.9	45.43	6.7%
1976	40,155	4,004	53.40	3,011	2590.1	44.29	6.5%
1977	40,396	4,103	54.80	1,853	3005.2	48.19	7.4%
1978	40,537	4,168	55.60	3,725	5093.1	72.98	12.6%
1979	38,172	3,911	52.20	6,053	3740.4	63.29	9.8%
1980	37,144	3,794	50.60	837	5265.1	75.12	14.2%
1981	34,597	3,478	46.40	3,444	3575.4	70.80	10.3%
1982	33,057	3,288	43.90	2,051	5652.2	77.63	17.1%
1983	29,500	2,865	38.20	1,274	5268.7	82.01	17.9%
1984	26,379	2,473	33.00	3,754	2777.4	73.05	10.5%
1985	25,667	2,377	31.70	1,909	3062.0	76.33	11.9%
1986	24,648	2,281	30.40	1,964	2653.5	74.30	10.8%
1987	23,964	2,254	30.10	2,644	3244.7	79.95	13.5%
1988	22,605	2,156	28.80	2,280	3147.1	80.41	13.9%
1989	21,276	2,043	27.30	2,998	3427.4	82.90	16.1%
1990	19,613	1,860	24.80	2,253	2900.0	79.09	14.8%
1991	18,476	1,718	22.90	2,485	3323.3	85.34	18.0%
1992	16,935	1,520	20.30	2,582	2983.7	85.83	17.6%
1993	15,750	1,364	18.20	1,667	2317.3	77.98	14.7%
1994	15,274	1,288	17.20	2,738	1242.8	50.29	8.1%
1995	15,874	1,342	17.90	2,522	1079.5	65.18	6.8%
1996	16,517	1,420	19.00	1,983	1371.6	68.81	8.3%
1997	16,846	1,470	19.60	2,902	1318.7	60.90	7.8%

Table 23 cont. – Summary time series for base model

Year	Age 5+ biomass (mt)	Spawning output (millions eggs)	Spawning Depletion (%)	Age-0 recruits	Total Catch (mt)	1-SPR (%)	Relative exploitation rate
1998	17,199	1,536	20.50	1,607	1313.4	68.77	7.6%
1999	17,545	1,593	21.30	1,755	800.7	56.14	4.6%
2000	18,441	1,710	22.80	1,561	146.4	22.88	0.8%
2001	19,976	1,904	25.40	2,682	94.2	19.32	0.5%
2002	21,523	2,110	28.20	2,169	94.3	8.88	0.4%
2003	23,088	2,326	31.00	2,580	61.2	3.83	0.3%
2004	24,635	2,549	34.00	1,554	50.5	3.01	0.2%
2005	26,158	2,769	37.00	882	57.6	3.11	0.2%
2006	27,621	2,975	39.70	1,471	54.8	2.70	0.2%
2007	28,990	3,162	42.20	2,901	47.7	3.35	0.2%
2008	30,209	3,332	44.50	925	38.1	1.97	0.1%
2009	31,362	3,494	46.60	2,293	47.7	4.57	0.2%
2010	32,392	3,650	48.70	3,212	45.6	3.62	0.1%
2011	33,316	3,796	50.70	1,501	60.5	2.29	0.2%
2012	34,194	3,919	52.30	1,258	36.5	2.25	0.1%
2013	35,061	4,017	53.60	1,169	35.6	2.36	0.1%
2014	35,872	4,093	54.60	1,806	43.3	2.56	0.1%
2015	36,592	4,156	55.50	2,699	NA	NA	NA

Table 24: Total negative log-likelihood values for the profile on R0 (no prior on this parameter for the likelihood profile).

log(R0)	7.75	7.85	7.95	8.05	8.25	8.45	8.65	8.75
M offset (females)	0.096	0.098	0.102	0.105	0.110	0.092	0.074	0.065
Lmin (females)	9.0	9.1	9.1	9.1	9.1	9.2	9.3	9.4
Lmax (females)	60.1	60.1	60.1	60.0	60.1	60.6	61.0	61.2
k (females)	0.129	0.129	0.129	0.129	0.128	0.126	0.123	0.122
CV young (females)	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10
CV old (females)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lmin (males)	9.0	9.1	9.1	9.1	9.1	9.2	9.3	9.4
Lmax (males)	53.6	53.6	53.6	53.6	53.8	54.3	55.2	55.6
k (males)	0.225	0.225	0.224	0.223	0.218	0.215	0.186	0.175
CV young (males)	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.09
CV old (males)	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05
SB0	6560	7019	7469	7937	9239	14159	23001	29779
SB2015	3129	3543	4125	4848	6880	12042	21006	27592
Depl2015	47.7%	50.5%	55.2%	61.1%	74.5%	85.1%	91.3%	92.7%
Likelihood				difference from base model likelihood				
Total	7.5	2.1	0.0	1.0	9.2	15.7	19.8	20.3
Survey	1.0	0.5	0.1	-0.5	-1.6	-3.4	-3.8	-3.9
Length	0.9	0.1	-0.1	1.0	9.3	26.2	50.8	57.0
Age	-2.3	-0.8	0.0	-0.6	-7.0	-15.2	-26.2	-27.9
Recruitment	7.7	2.4	0.1	0.1	4.9	10.5	11.8	10.7
Forecast Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Priors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Bounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Devs	0.2	-0.2	-0.1	0.9	3.6	-2.5	-12.7	-15.6

Table 25: Total negative log-likelihood values for the profile on steepness (h) (no prior on this parameter for the likelihood profile).

Steepness (*h*)	0.35	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95
M offset (females)	0.108	0.117	0.111	0.106	0.103	0.102	0.102	0.101	0.100
Lmin (females)	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Lmax (females)	60.5	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
k (females)	0.126	0.128	0.129	0.129	0.129	0.129	0.129	0.129	0.129
CV young (females)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CV old (females)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lmin (males)	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Lmax (males)	53.9	53.8	53.7	53.6	53.6	53.6	53.6	53.6	53.6
k (males)	0.228	0.221	0.222	0.223	0.224	0.224	0.224	0.224	0.224
CV young (males)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CV old (males)	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
lnR0	8.18	8.14	8.08	8.03	7.99	7.97	7.96	7.94	7.93
SB0	8942	7669	7727	7659	7586	7550	7516	7456	7430
SB2015	2526	2063	2638	3261	3845	4106	4345	4762	4943
Depl2015	28.2%	26.9%	34.1%	42.6%	50.7%	54.4%	57.8%	63.9%	66.5%
Likelihood				difference from base model likelihood					
Total	32.9	25.3	12.8	5.9	2.0	0.6	-0.6	-2.3	-2.9
Survey	-0.9	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Length	23.0	16.8	7.9	3.1	0.8	0.2	-0.2	-0.5	-0.6
Age	0.7	-4.1	-1.4	-0.2	0.2	0.1	-0.1	-0.8	-1.1
Recruitment	10.7	11.0	5.7	3.0	1.1	0.3	-0.3	-1.4	-1.8
Forecast Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Priors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Bounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Devs	-0.6	1.0	0.4	0.0	-0.1	0.0	0.1	0.4	0.6

Table 26: Total negative log-likelihood values for the profile on natural mortality (M) (no prior on this parameter for the likelihood profile).

Natural Mortality (*M*)	0.025	0.03	0.035	0.04	0.045	0.05	0.055	0.06	0.065	0.07	0.075	0.08
M offset (females)	0.089	0.091	0.093	0.095	0.098	0.101	0.104	0.110	0.115	0.104	0.106	0.108
Lmin (females)	9.0	9.1	9.1	9.1	9.1	9.1	9.1	9.0	9.1	9.2	9.2	9.2
Lmax (females)	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1	60.2	60.5	60.6	60.6
k (females)	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.128	0.126	0.126	0.126
CV young (females)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10
CV old (females)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lmin (males)	9.0	9.1	9.1	9.1	9.1	9.1	9.1	9.0	9.1	9.2	9.2	9.2
Lmax (males)	53.7	53.7	53.6	53.6	53.6	53.6	53.6	53.6	53.8	54.0	54.1	54.1
k (males)	0.225	0.224	0.224	0.224	0.224	0.224	0.224	0.222	0.218	0.222	0.221	0.220
CV young (males)	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CV old (males)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
lnR0	7.17	7.38	7.53	7.68	7.80	7.92	8.04	8.19	8.43	8.74	8.97	9.23
SB0	5260	5997	6497	6944	7238	7453	7655	8002	9147	13618	15867	19296
SB2015	2275	2578	2938	3280	3646	4041	4524	5295	7066	12002	14864	19136
Depl2015	43.2%	43.0%	45.2%	47.2%	50.4%	54.2%	59.1%	66.2%	77.2%	88.1%	93.7%	99.2%
Likelihood						difference from base model likelihood						
Total	85.5	56.9	35.8	21.3	10.7	2.8	-3.4	-9.0	-15.1	-24.5	-31.8	-38.6
Survey	3.5	3.0	2.6	2.2	1.5	0.4	-0.7	-1.9	-3.0	-3.6	-3.7	-3.7
Length	30.7	22.0	14.0	8.0	3.7	1.0	-0.6	-0.6	3.8	7.6	7.8	8.3
Age	6.8	4.7	2.2	2.0	1.5	0.5	-1.4	-5.8	-14.4	-20.8	-23.8	-26.9
Recruitment	39.5	24.5	15.8	8.5	4.0	1.0	-1.2	-2.4	-2.0	-0.5	0.1	0.8
Forecast Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Priors	1.0	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3
Parameter Bounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter Devs	4.1	2.2	0.9	0.3	-0.1	-0.1	0.4	1.7	0.5	-7.5	-12.3	-17.4

Table 27 – Comparison of growth parameters and status estimates when conducting an 8-year retrospective analysis

Retrospective	Base	Retro - 1	Retro - 2	Retro - 3	Retro - 4	Retro - 5	Retro - 6	Retro - 7	Retro - 8
M offset (females)	0.102	0.103	0.105	0.106	0.109	0.109	0.110	0.113	0.114
Lmin (females)	9.1	9.1	9.0	8.9	8.7	8.1	7.9	5.8	6.1
Lmax (females)	60.1	60.3	60.4	60.6	61.0	61.0	60.9	60.4	60.3
k (females)	0.129	0.128	0.128	0.128	0.126	0.129	0.130	0.141	0.140
CV young (females)	0.11	0.11	0.11	0.12	0.13	0.12	0.12	0.13	0.13
CV old (females)	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02
Lmin (males)	9.1	9.1	9.0	8.9	8.7	8.1	7.9	5.8	6.1
Lmax (males)	53.6	53.7	53.7	53.7	53.8	53.7	53.7	53.4	53.2
k (males)	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283
CV young (males)	0.11	0.12	0.12	0.12	0.13	0.13	0.12	0.11	0.11
CV old (males)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
lnR0	7.96	7.96	7.96	7.96	7.98	7.96	7.96	7.97	7.96
SB0	7534	7504	7404	7398	7403	7332	7255	7104	6933
SB Final Year	4218	4056	3904	3673	3807	3454	3100	2616	2473
Depletion Final Year	56.0%	54.1%	52.7%	49.7%	51.4%	47.1%	42.7%	36.8%	35.7%

Table 28 -- Projection of potential canary rockfish ABC, OY, spawning biomass and depletion for the base case model based on the 40-10 harvest rule. The estimated OFL values were adjusted to the ABC values by the category 1 stock values of P* (0.45) and sigma (0.36).

Year	OFL (mt)	ABC (mt)	Age 5+ biomass (mt)	Spawning output (millions eggs)	Depletion
2015	1,748	1,671	36,411	4,218	56.0%
2016	1,567	1,499	35,372	4,105	54.5%
2017	1,434	1,371	34,723	3,995	53.0%

Figures

Figure 1 – A map of the assessment area that includes coastal waters off three U.S. west coast states and five International North Pacific Fisheries Commission (INPFC) areas.

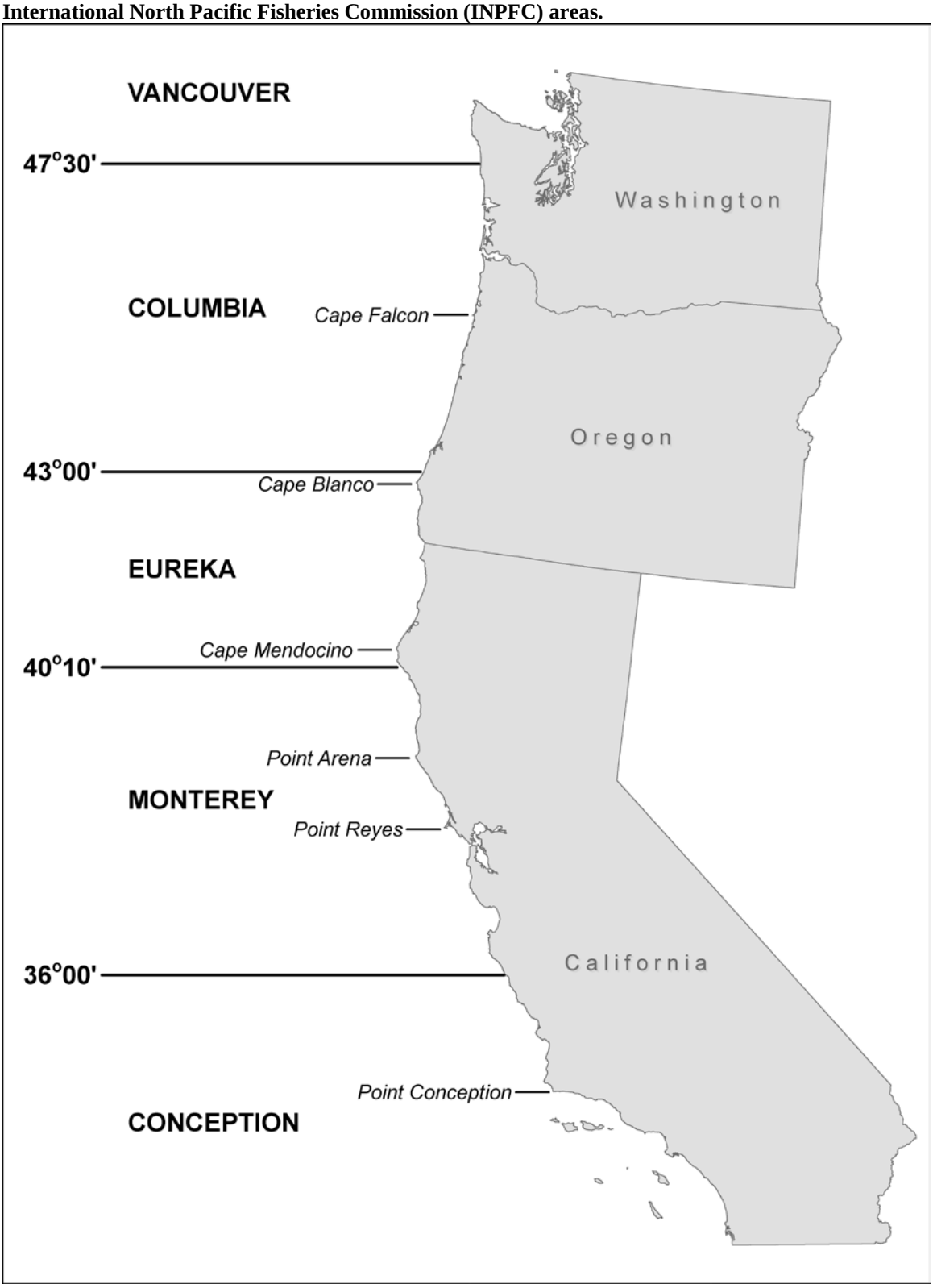


Figure 2 – Catches for each fishery across all states (left column, TWL: trawl, NONTWL: non-trawl, REC: recreational, ASHOP: at-sea hake, FOR: foreign, SURVEY: triennial and West Coast groundfish bottom trawl surveys) or for each stratum across all fishing type (right column, CA: 32-42 N, OR: 42-46 N, WA: 46-49 N) shown in natural units (metric tons, top row) or natural logarithm scale (log-metric tons, bottom row)

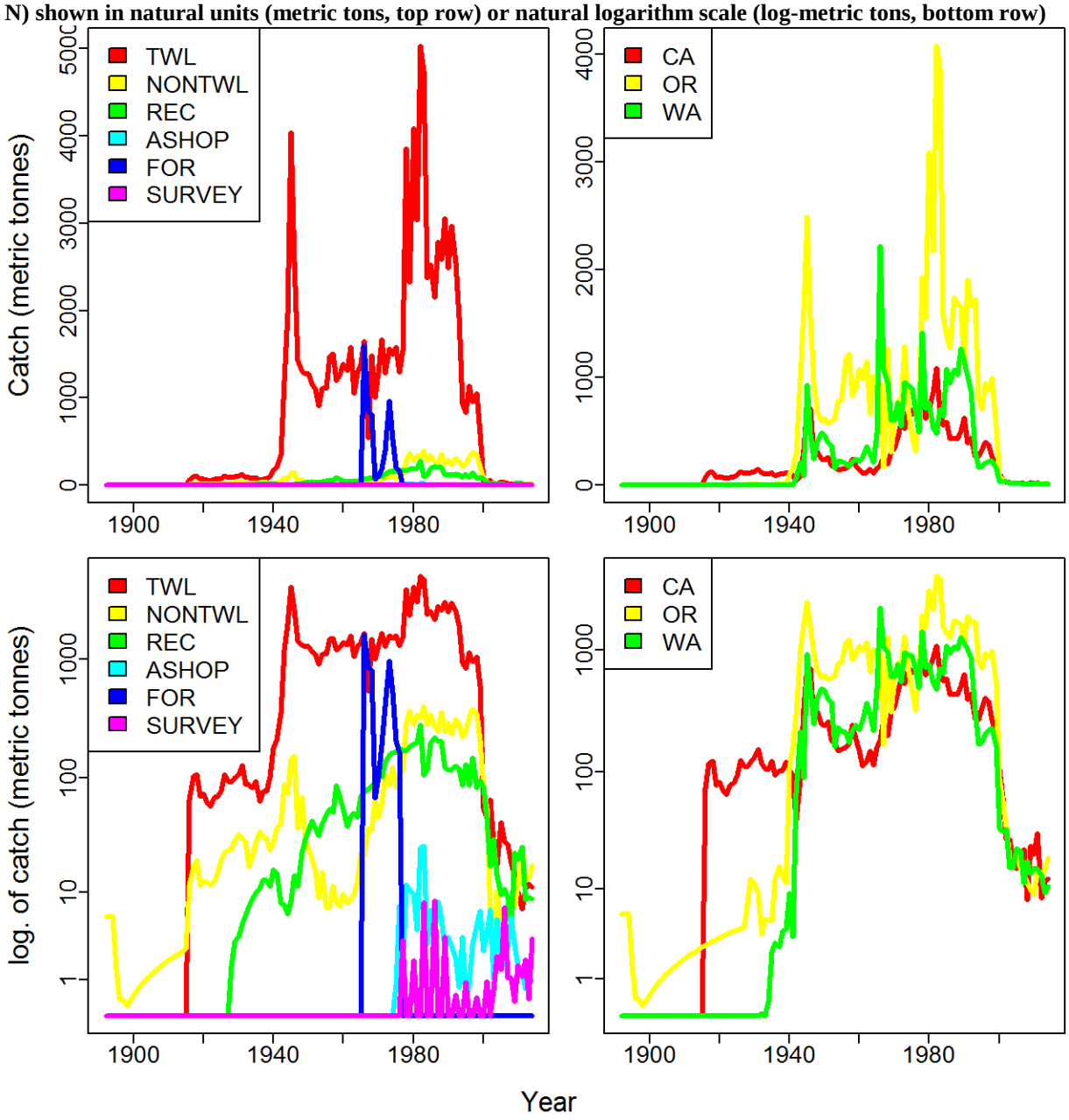


Figure 3 – Illustration of data sources available for each fleet

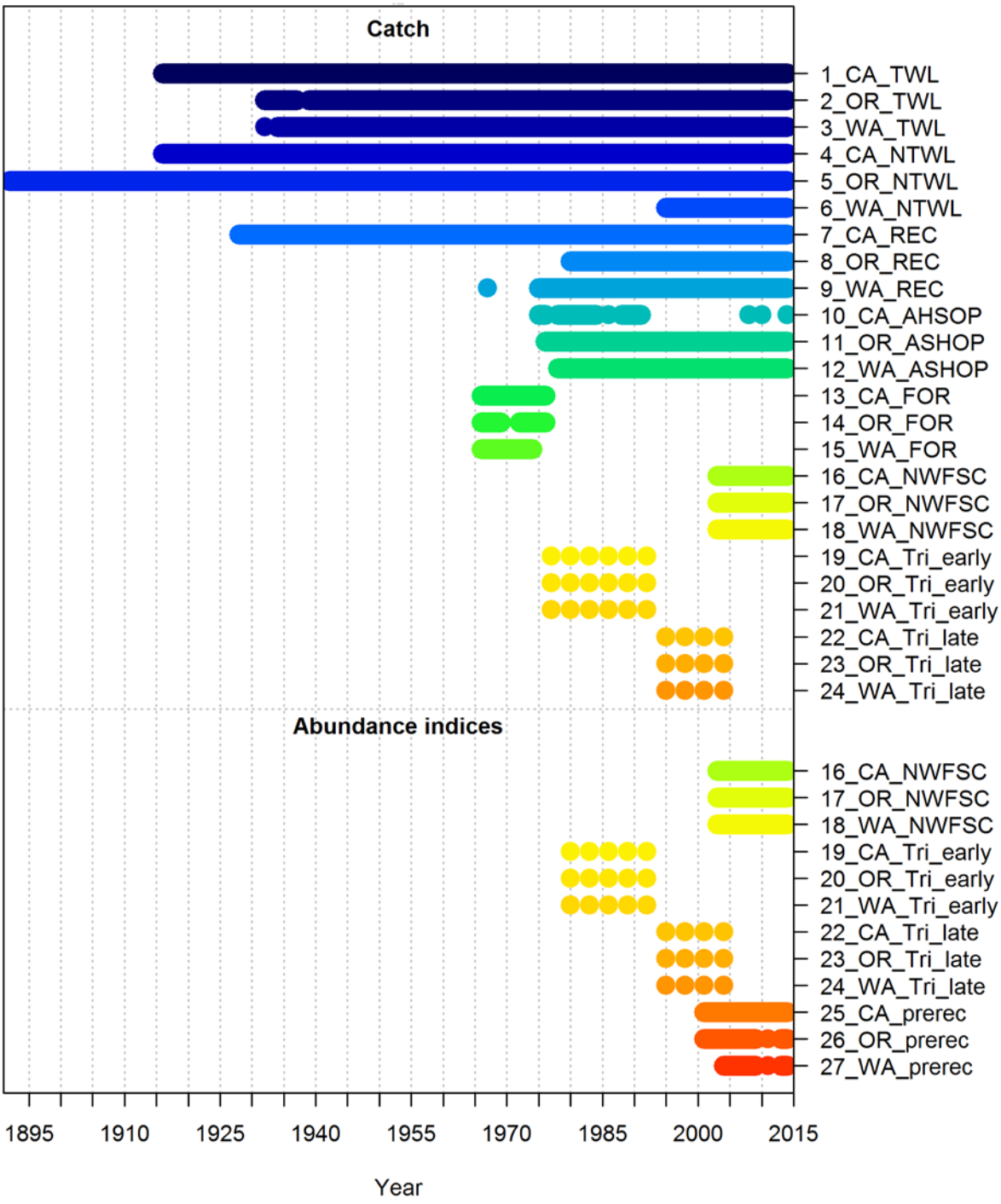


Figure 3 cont.

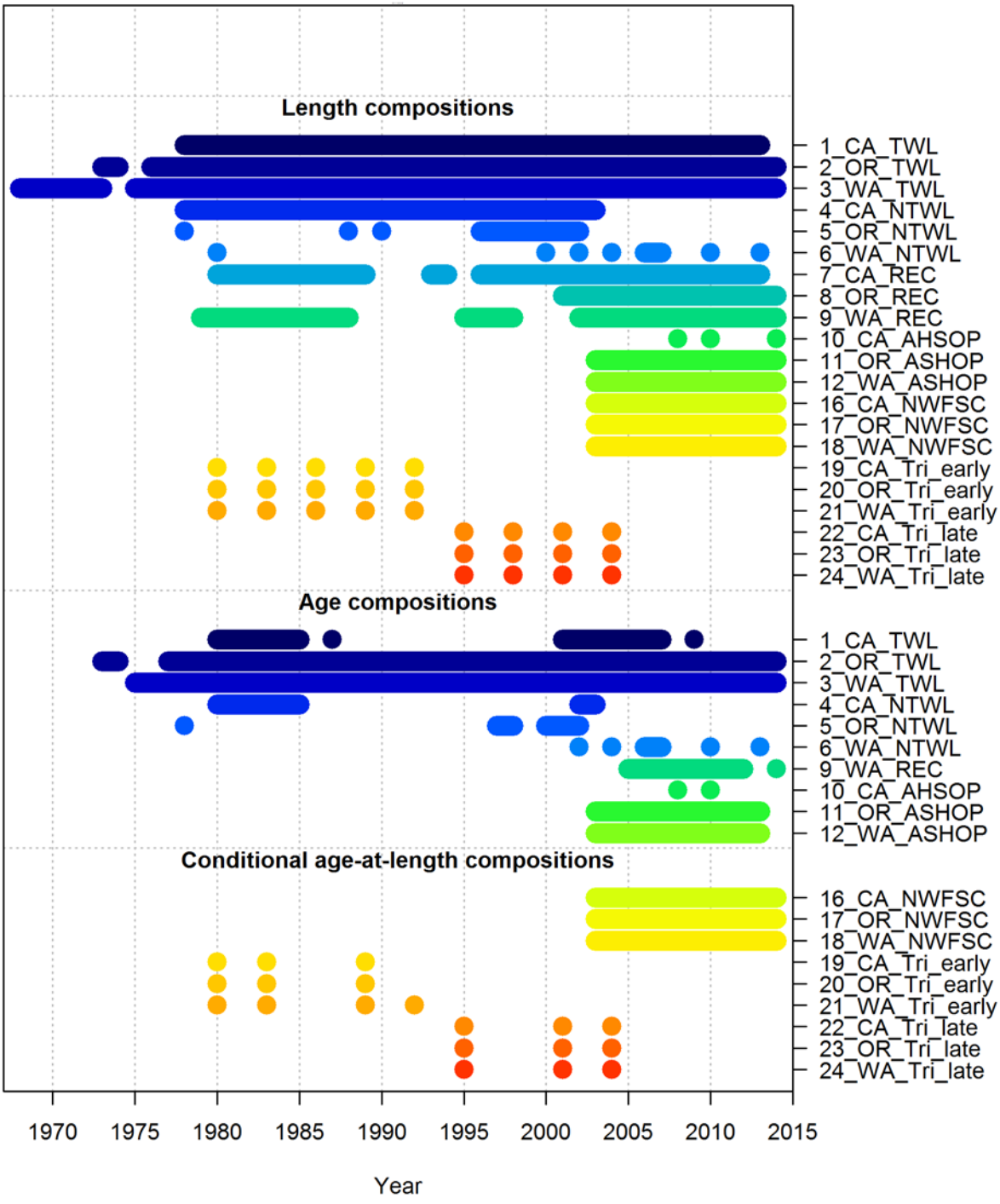


Figure 4: Survey tow locations in 2004, showing the difference in station design for the NWFSC survey relative to the Triennial trawl survey.

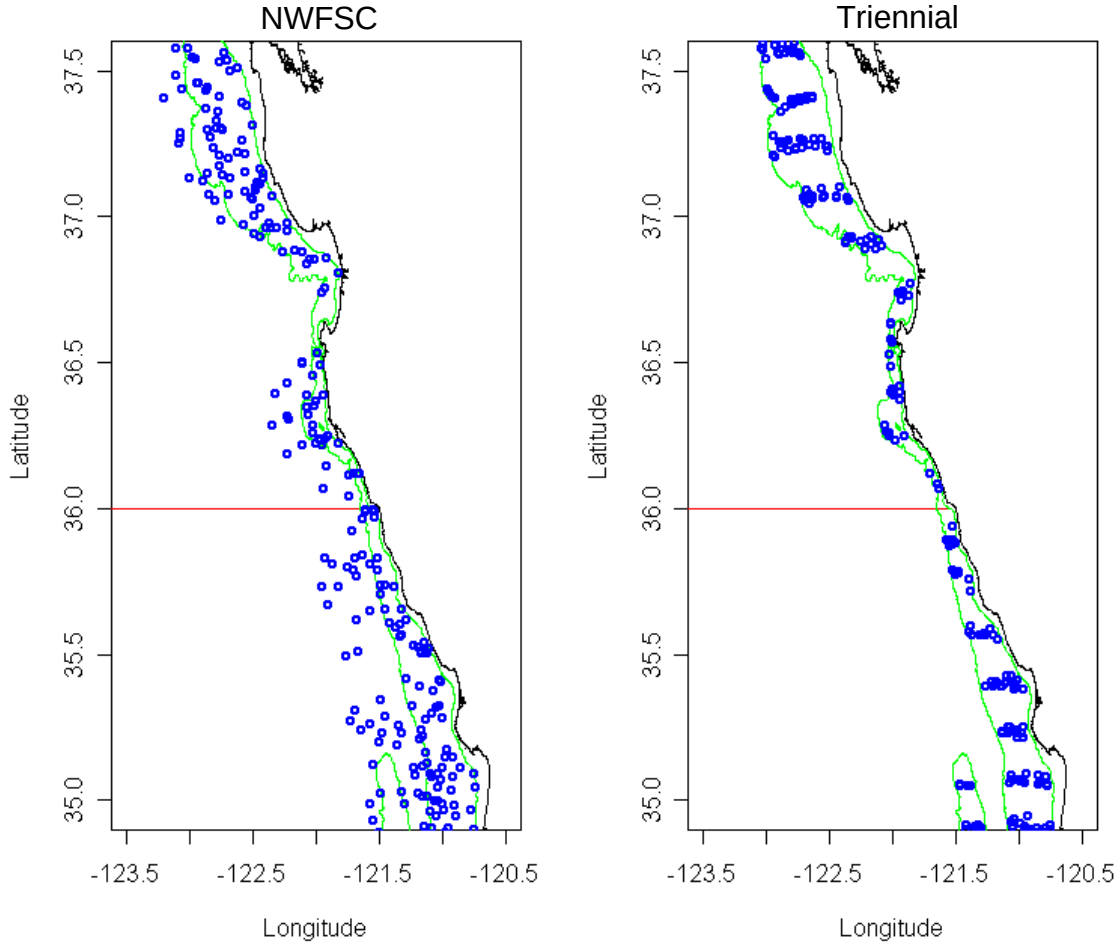


Figure 5 Bayesian Quantile-Quantile plot used to diagnose evidence of poor model fit for the Bayesian stratified delta-GLMM used to estimate an index of abundance using data from the triennial survey.

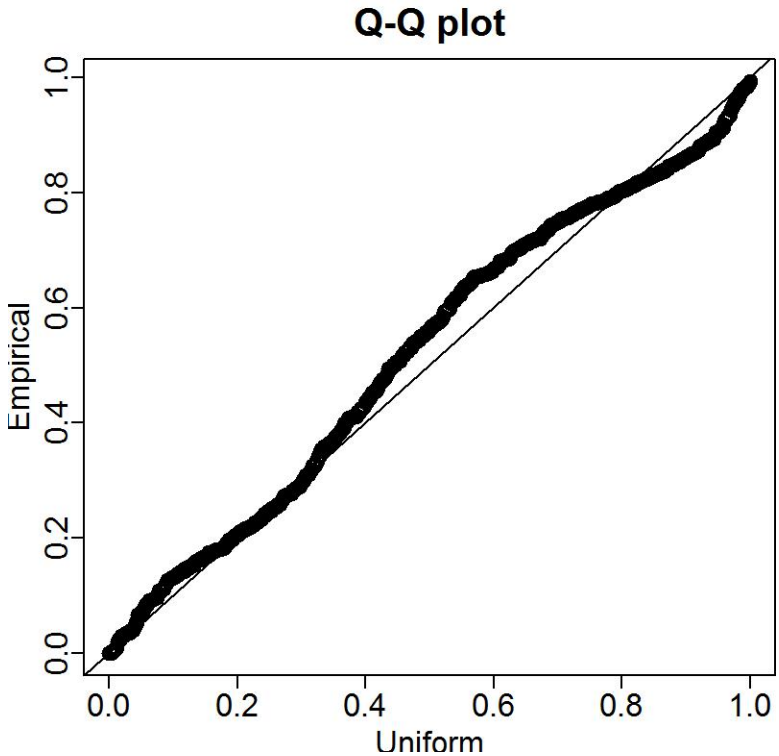


Figure 6 Estimated indices of abundance (in metric tons) for three spatial areas defined by state (CA: green; OR: blue; WA: purple), as well as coast-wide (red) using data from the triennial survey 1980-2004.

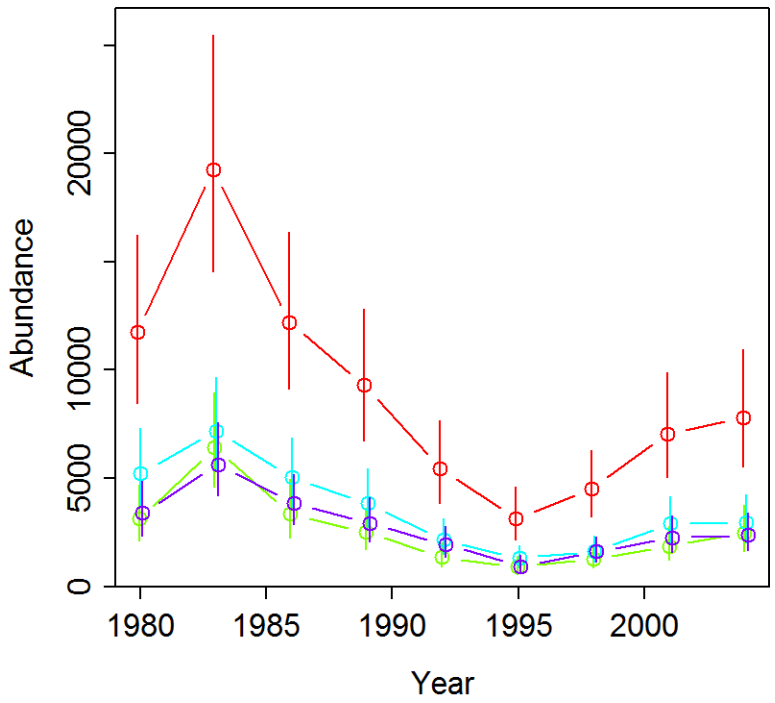


Figure 7 A Quantile-Quantile plotting used to validate the goodness of fit of the geostatistical model for the WCGBT survey index standardization model.

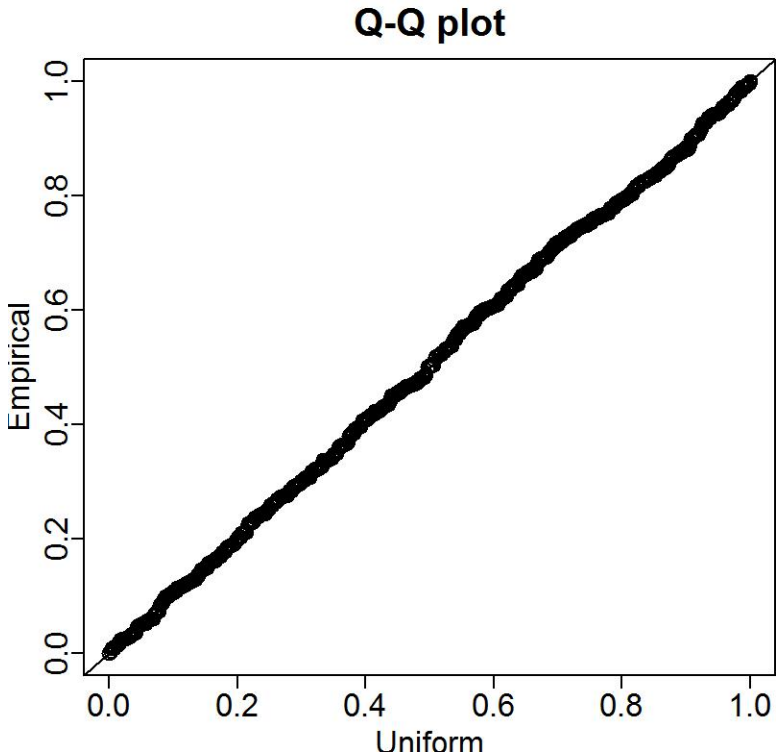


Figure 8 Spatial variation in density of canary rockfish estimated from the geostatistical delta-GLMM.

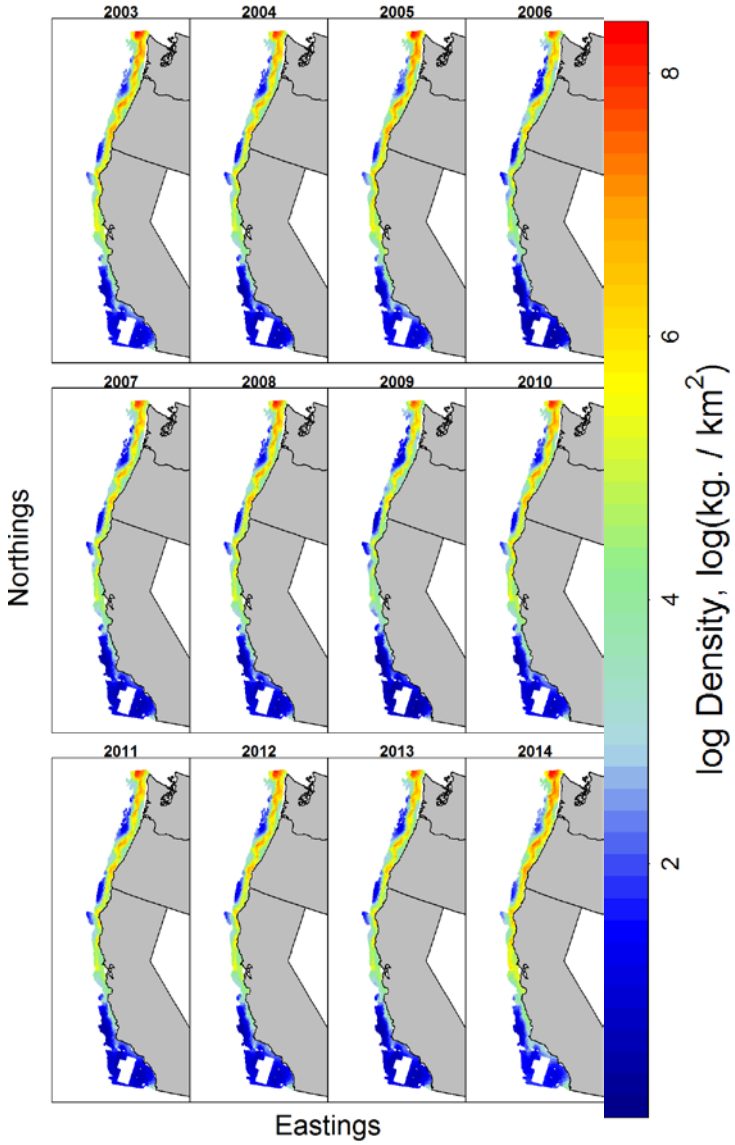


Figure 9 Estimated indices of abundance (in metric tons) for three spatial areas defined by state (CA: green; OR: blue; WA: purple), as well as coast-wide (red) using data from the WCGBT survey.

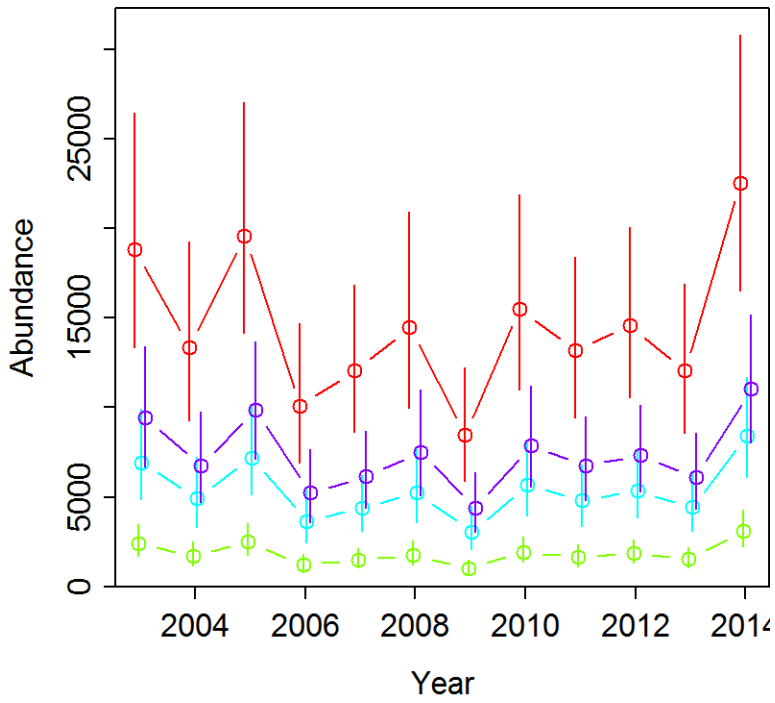


Figure 10 -- A Bayesian Quantile-Quantile plotting used to validate the goodness of fit of the stratified delta-GLMM for the WCGBT survey index standardization.

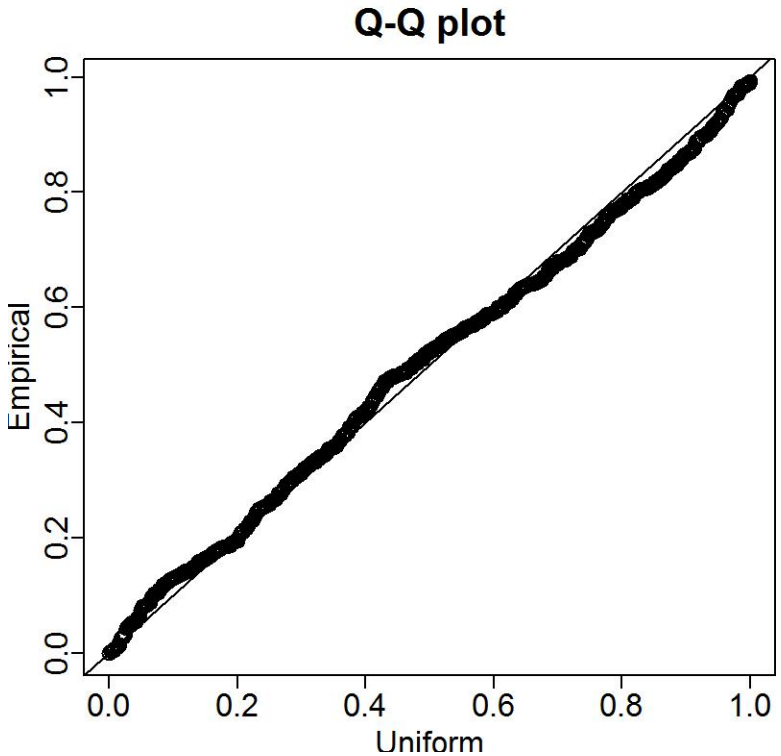


Figure 11 – A comparison of geostatistical (red), design-based (green), and stratified (blue) estimates of canary biomass analyzing data from the WCGBTS (time series lines: maximum likelihood estimate or median of Bayesian posterior, vertical lines: +/- 1 standard error or standard deviation of the Bayesian posterior distribution, as computed in log-space)

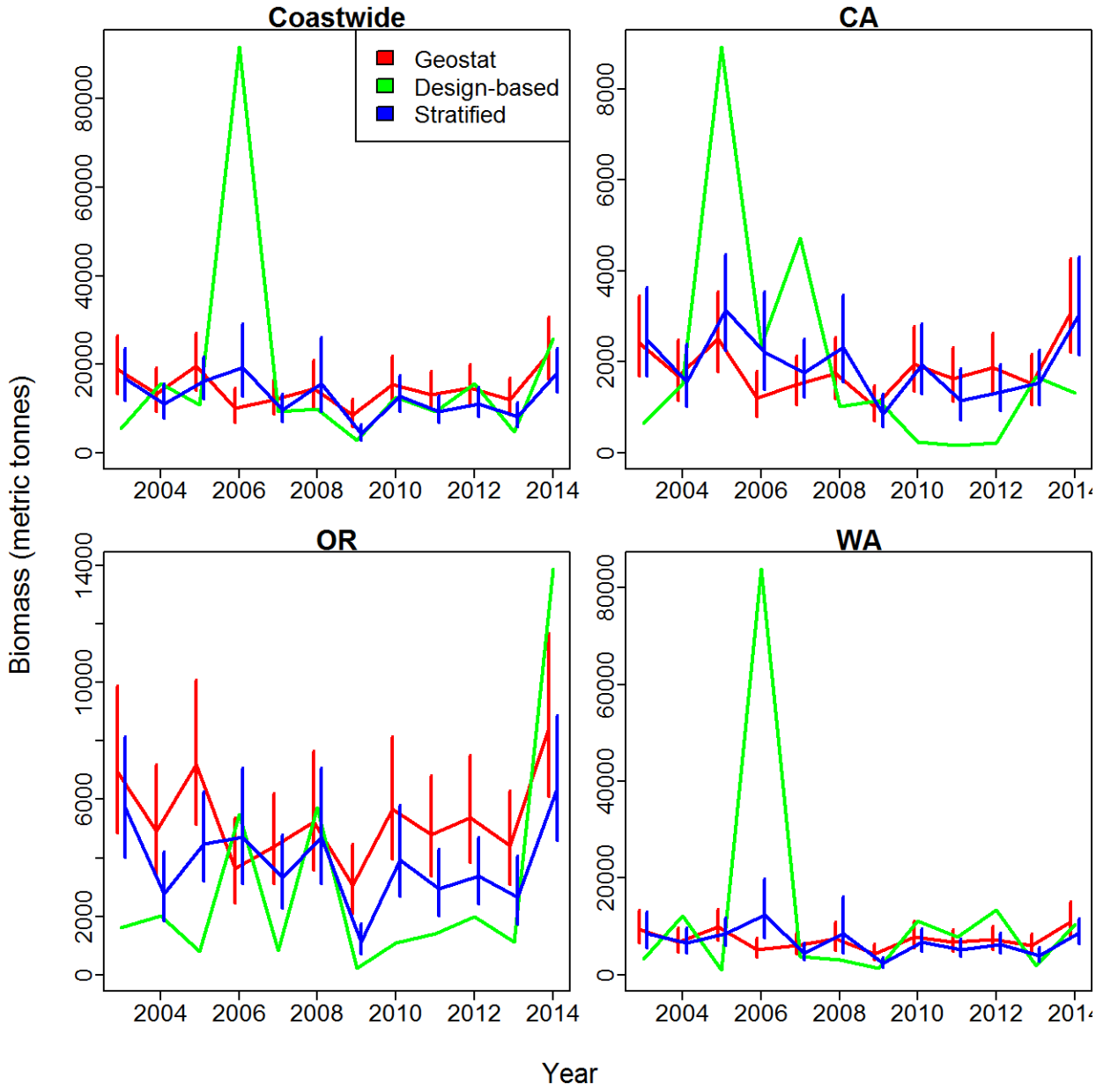


Figure 12: Length-frequency data for the California trawl fleet by sex. The largest bubble size for females is 3.1, males 4.4, and unsexed 3.9.

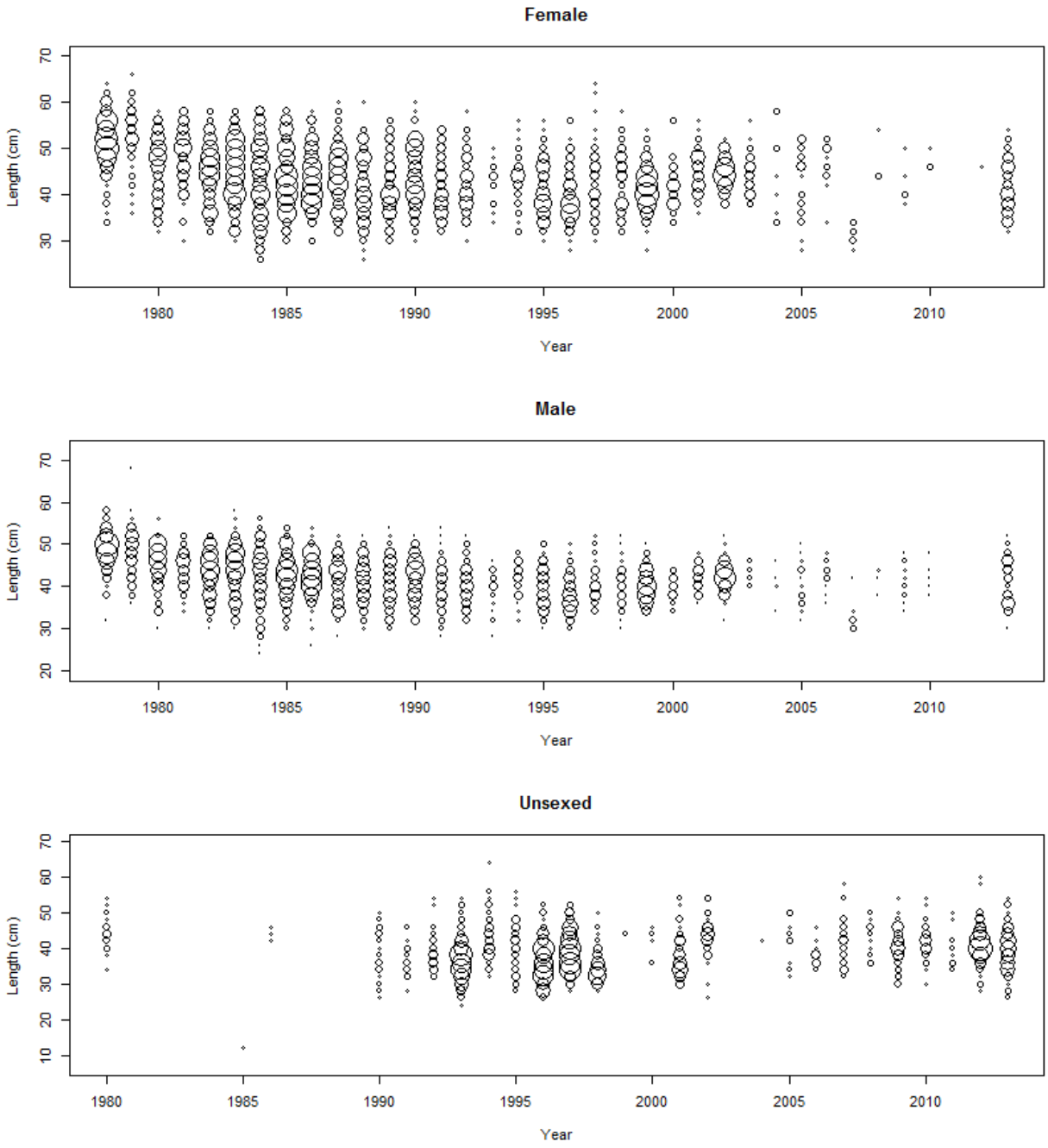


Figure 13: Length-frequency data for the Oregon trawl fleet by sex. The largest bubble size for females is 7.3, males 10.3, and unsexed 0.8.

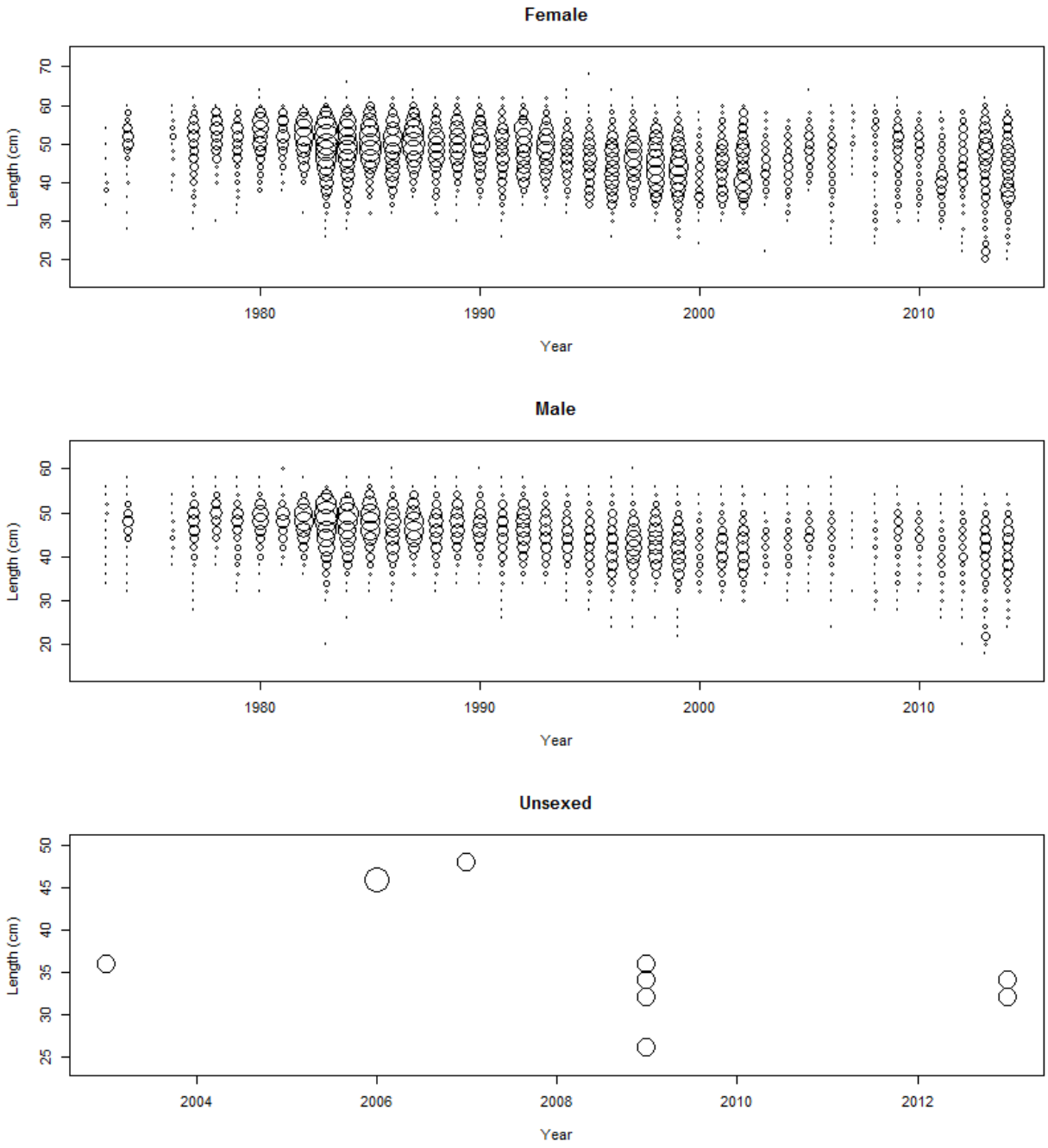


Figure 14: Length-frequency data for the Washington trawl fleet by sex. The largest bubble size for females is 6.2, males 8.6, and unsexed 7.3.

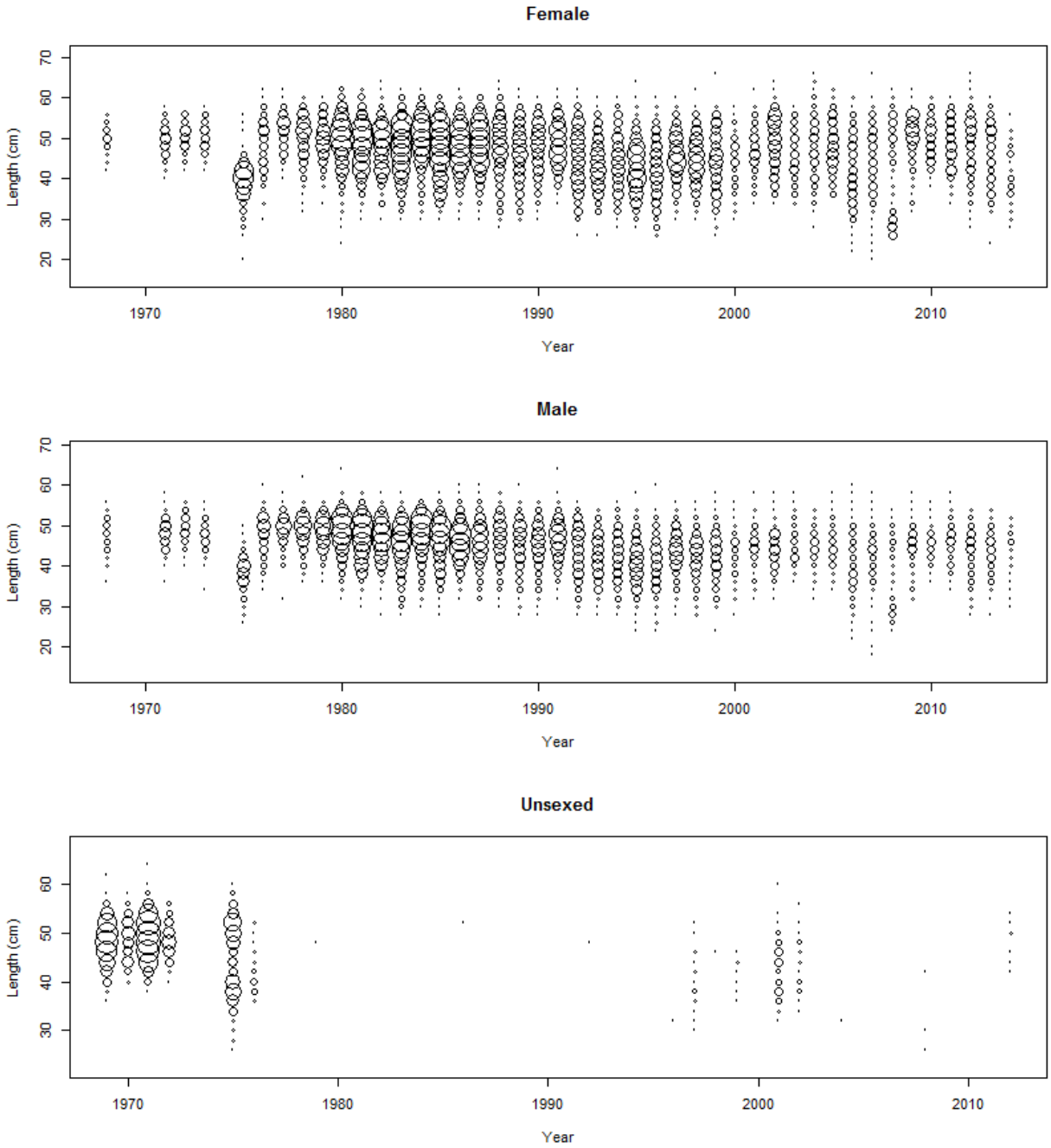


Figure 15: Length-frequency data for the California non-trawl fleet by sex. The largest bubble size for females is 3.4, males 2.3, and unsexed 8.6.

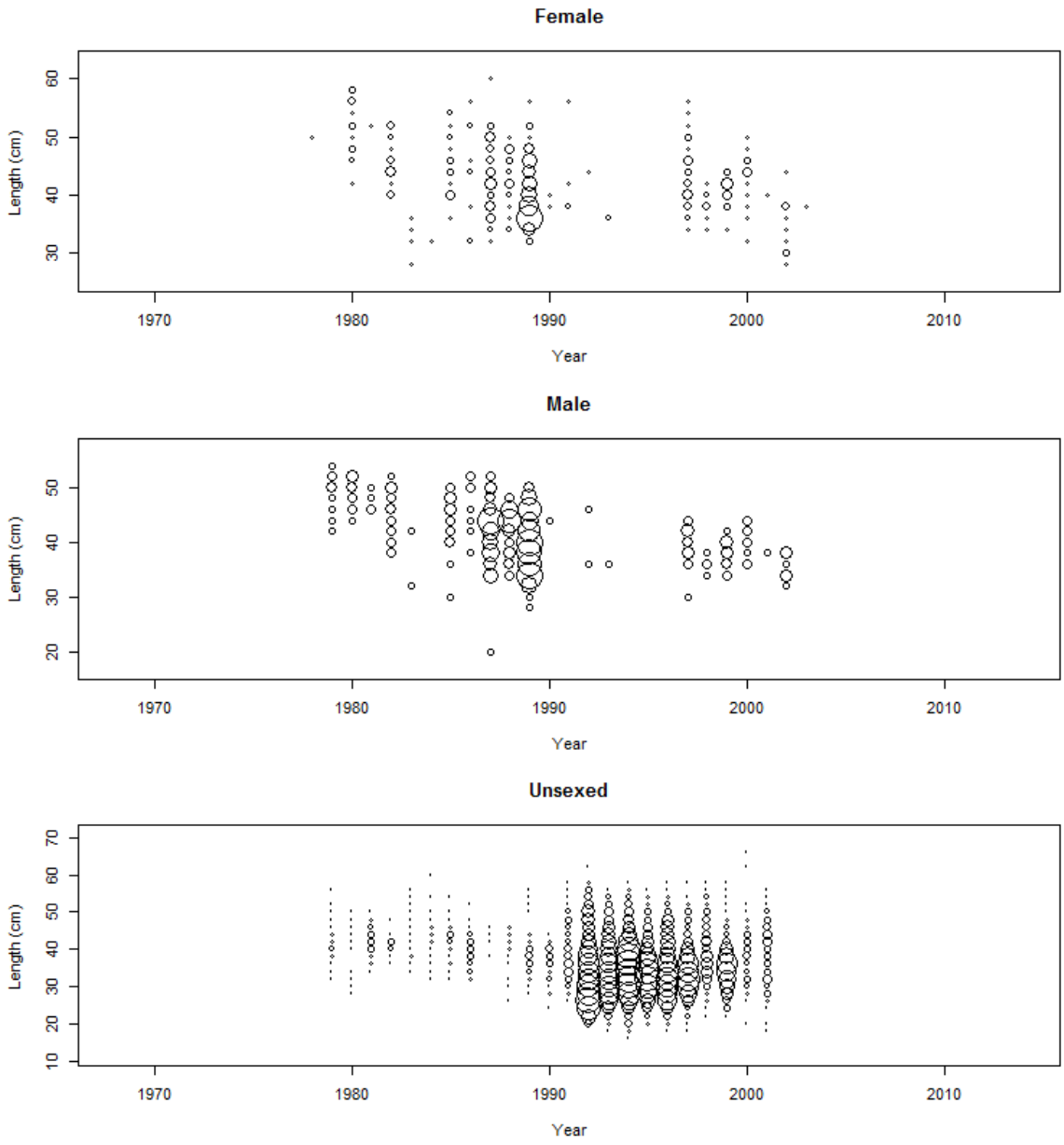


Figure 16: Length-frequency data for the Oregon non-trawl fleet by sex. The largest bubble size for females is 3.5, males 3.9, and unsexed 1.7.

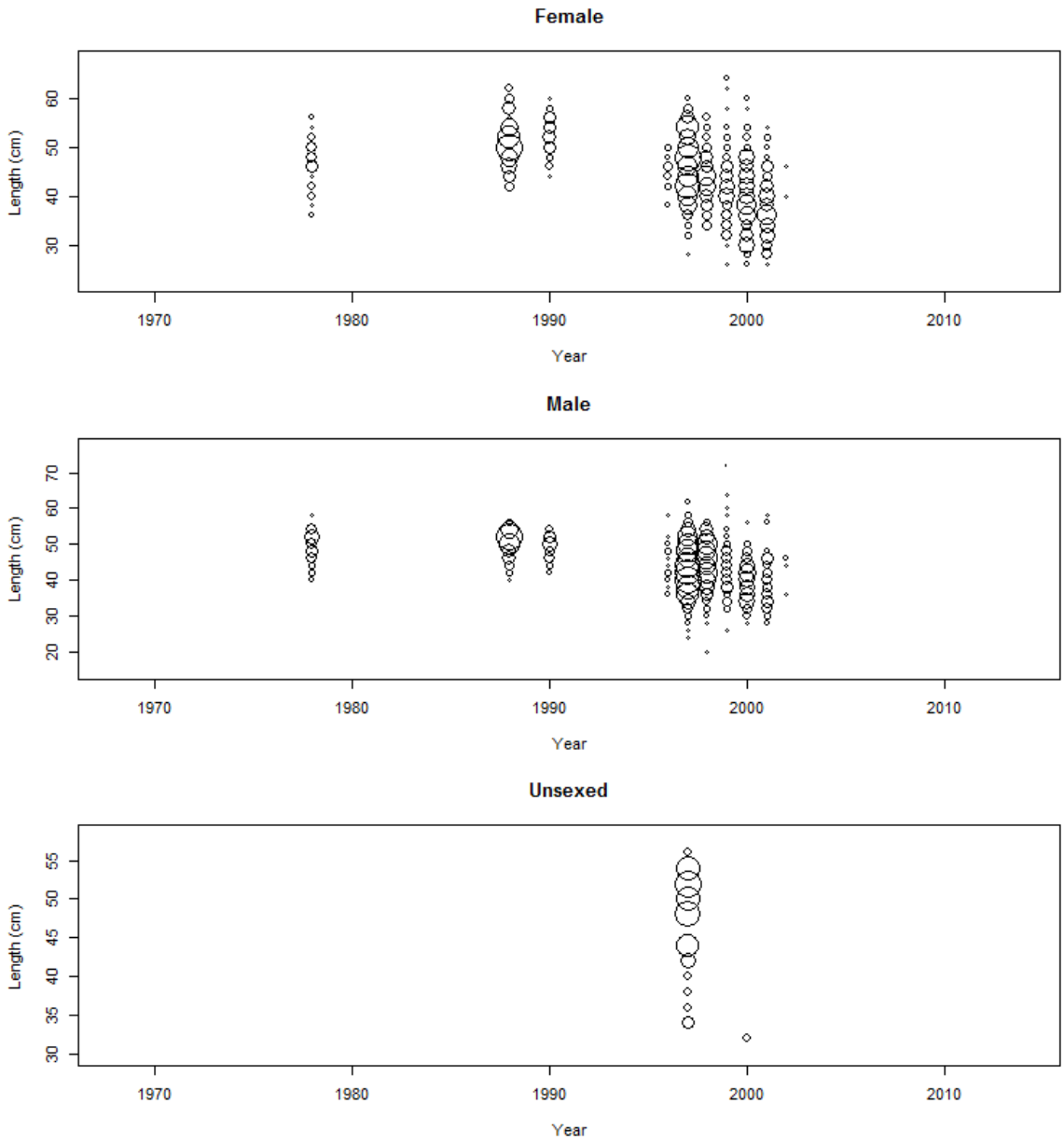


Figure 17: Length-frequency data for the Washington non-trawl fleet by sex. The largest bubble size for females is 1.7, males 1.4, and unsexed 0.6.

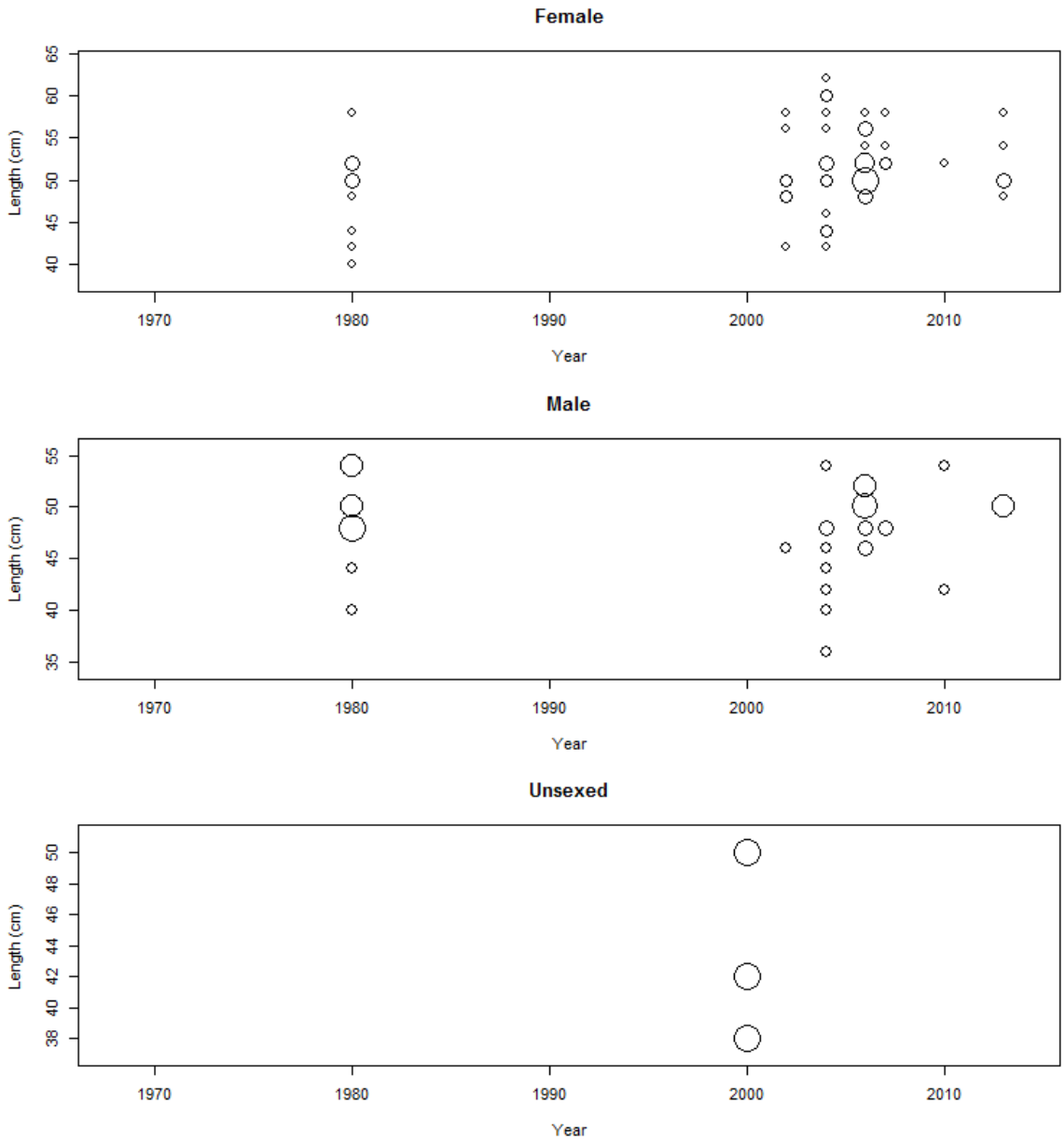


Figure 18: Length-frequency data for the California at-sea hake fleet by sex. The largest bubble size for females is 0.98, and males 0.80.

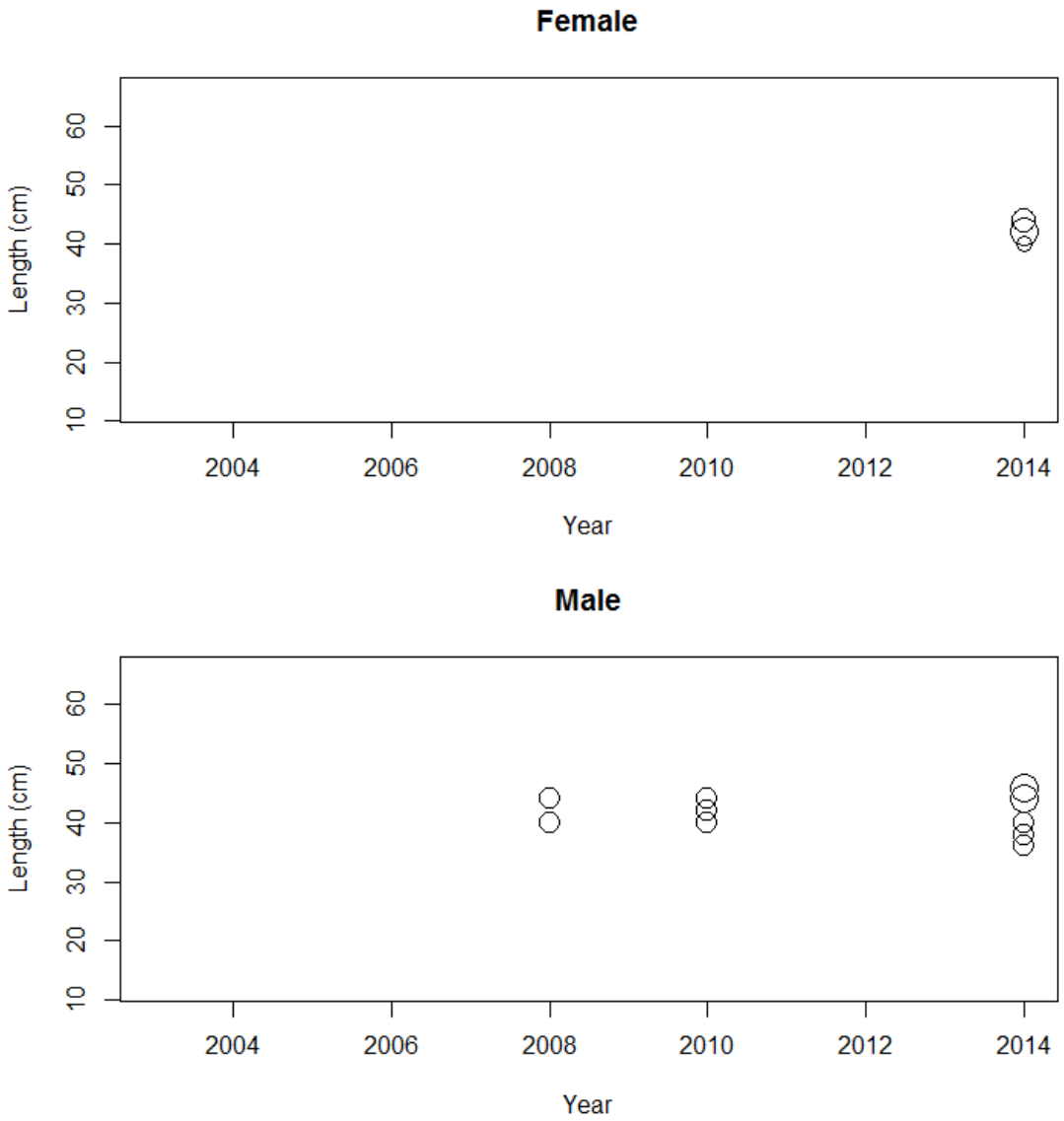


Figure 19: Length-frequency data for the Oregon at-sea hake fleet by sex. The largest bubble size for females is 3.6, and males 3.9.

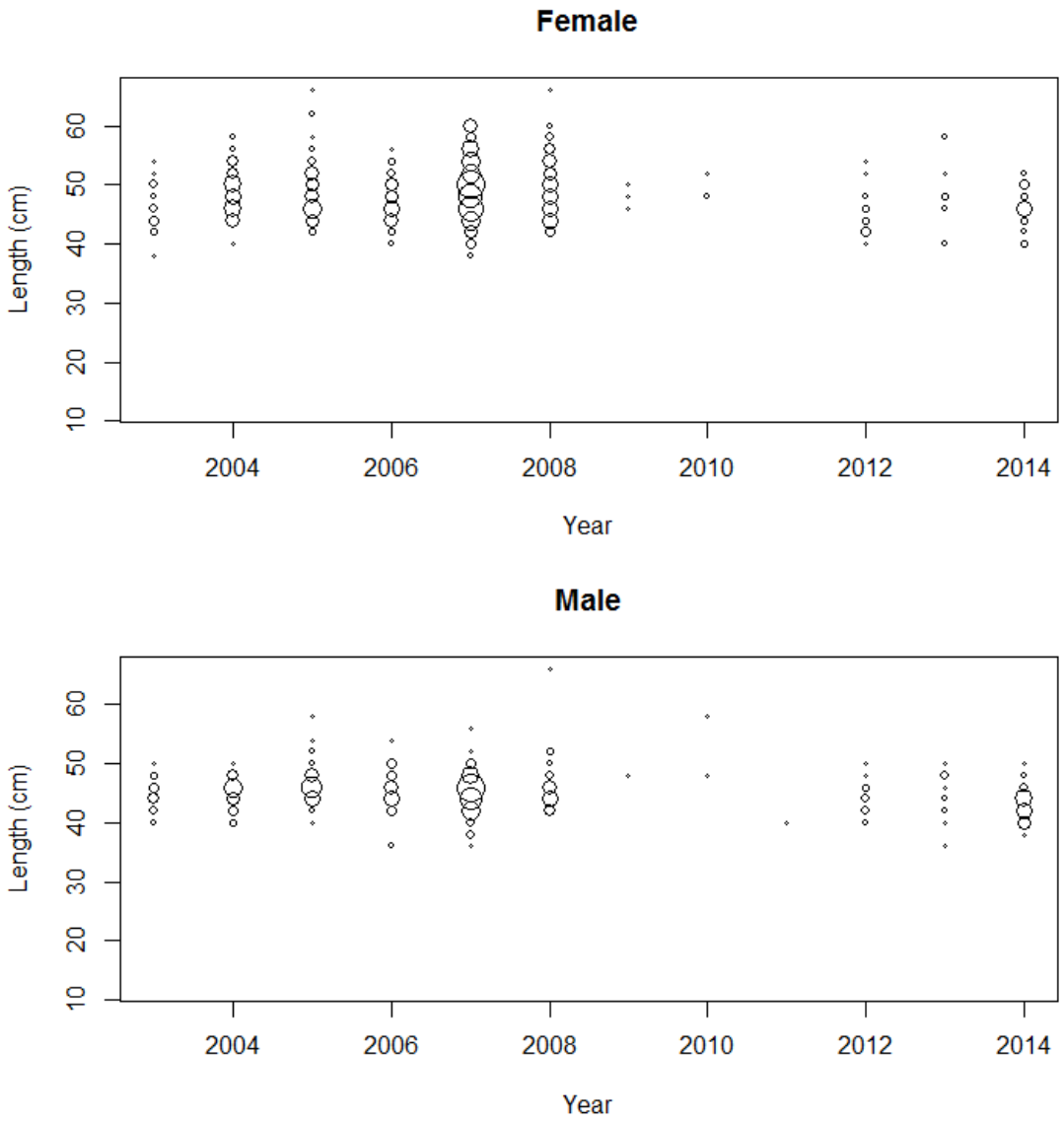


Figure 20: Length-frequency data for the Washington at-sea hake fleet by sex. The largest bubble size for females is 3.4, and males 2.9.

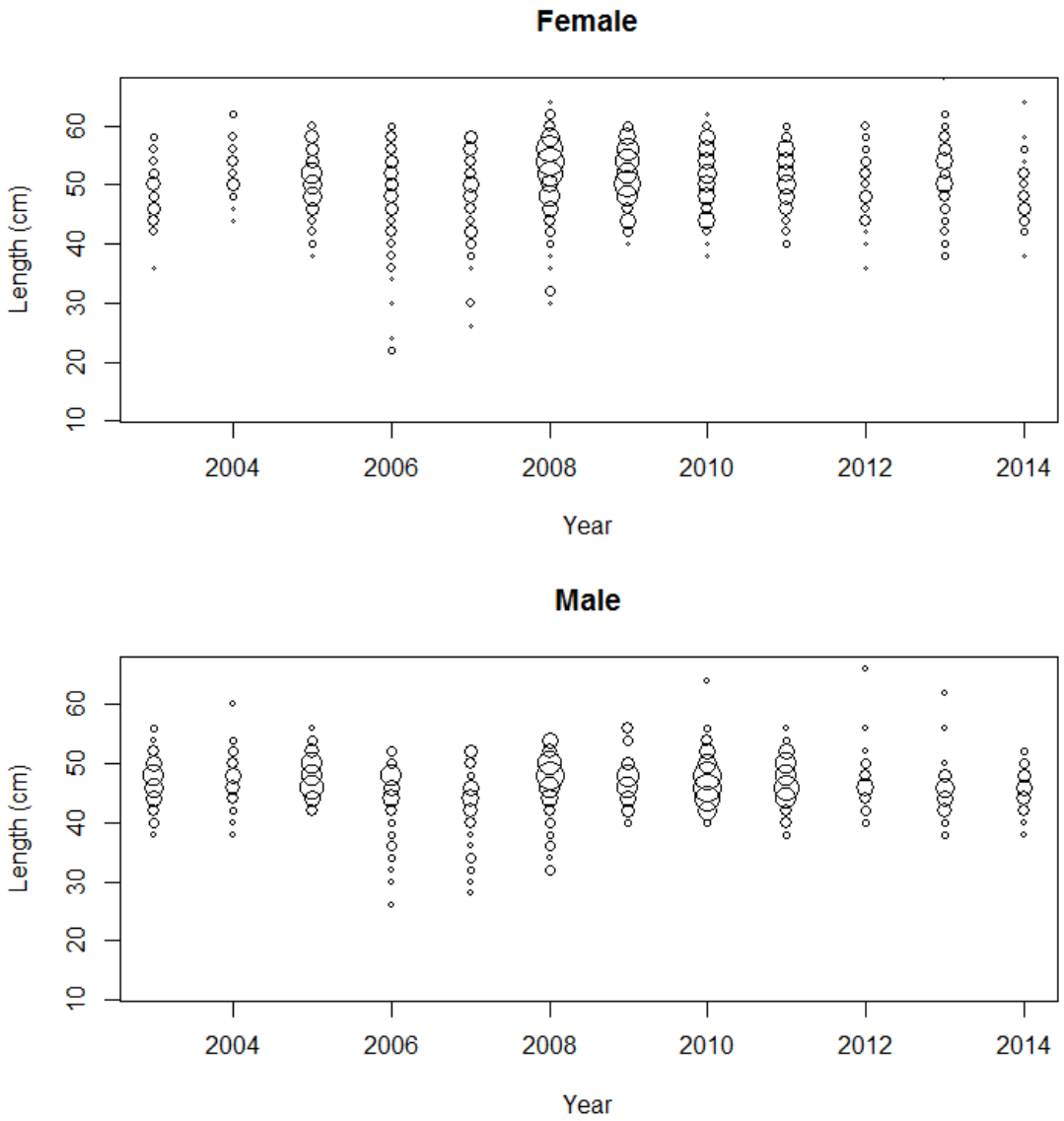


Figure 21: Length-frequency data for the California recreational fleet. The largest bubble size for unsexed fish is 8.8.

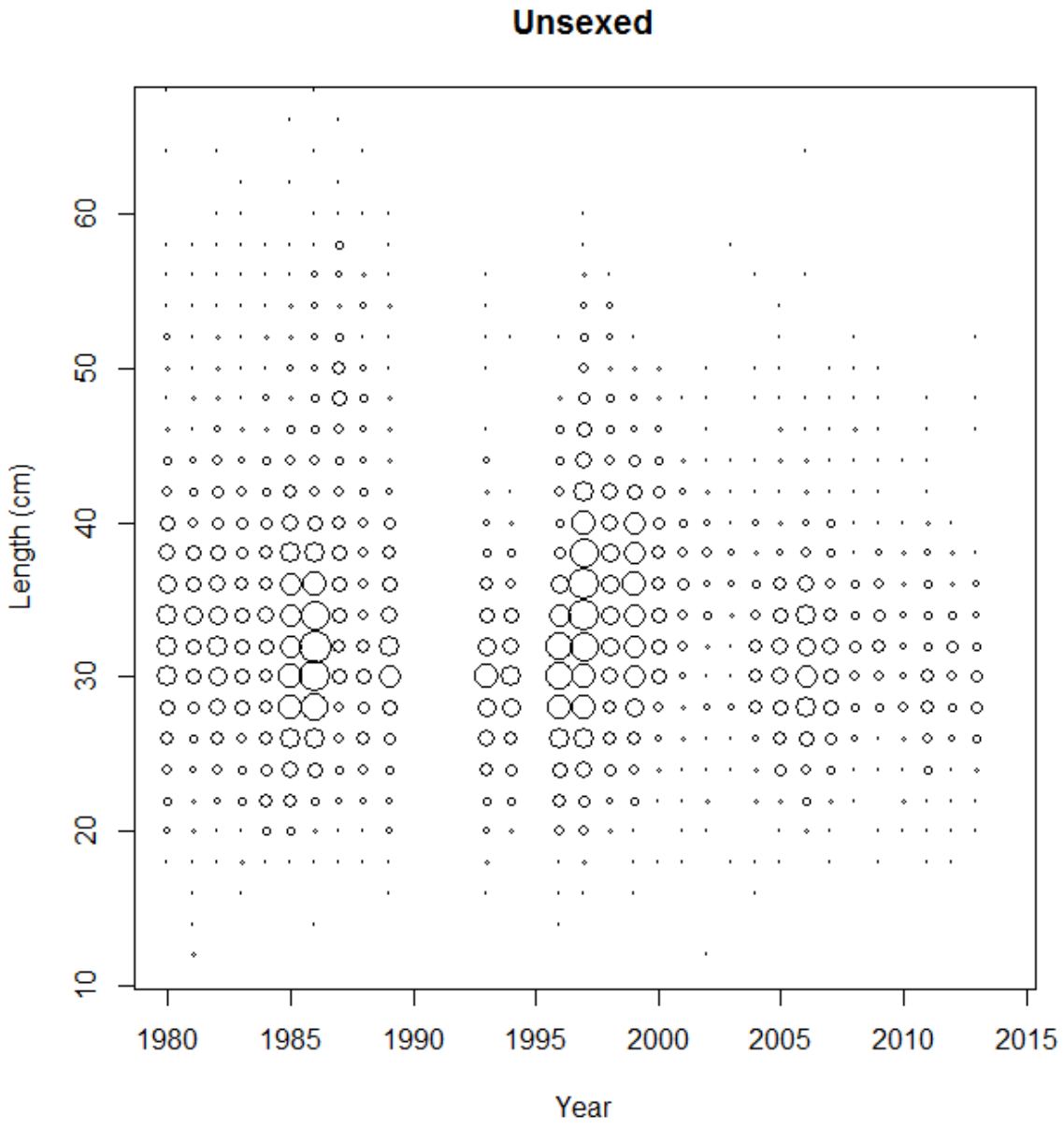


Figure 22: Length-frequency data for the Oregon recreational fleet by sex. The largest bubble size for unsexed fish is 9.6.

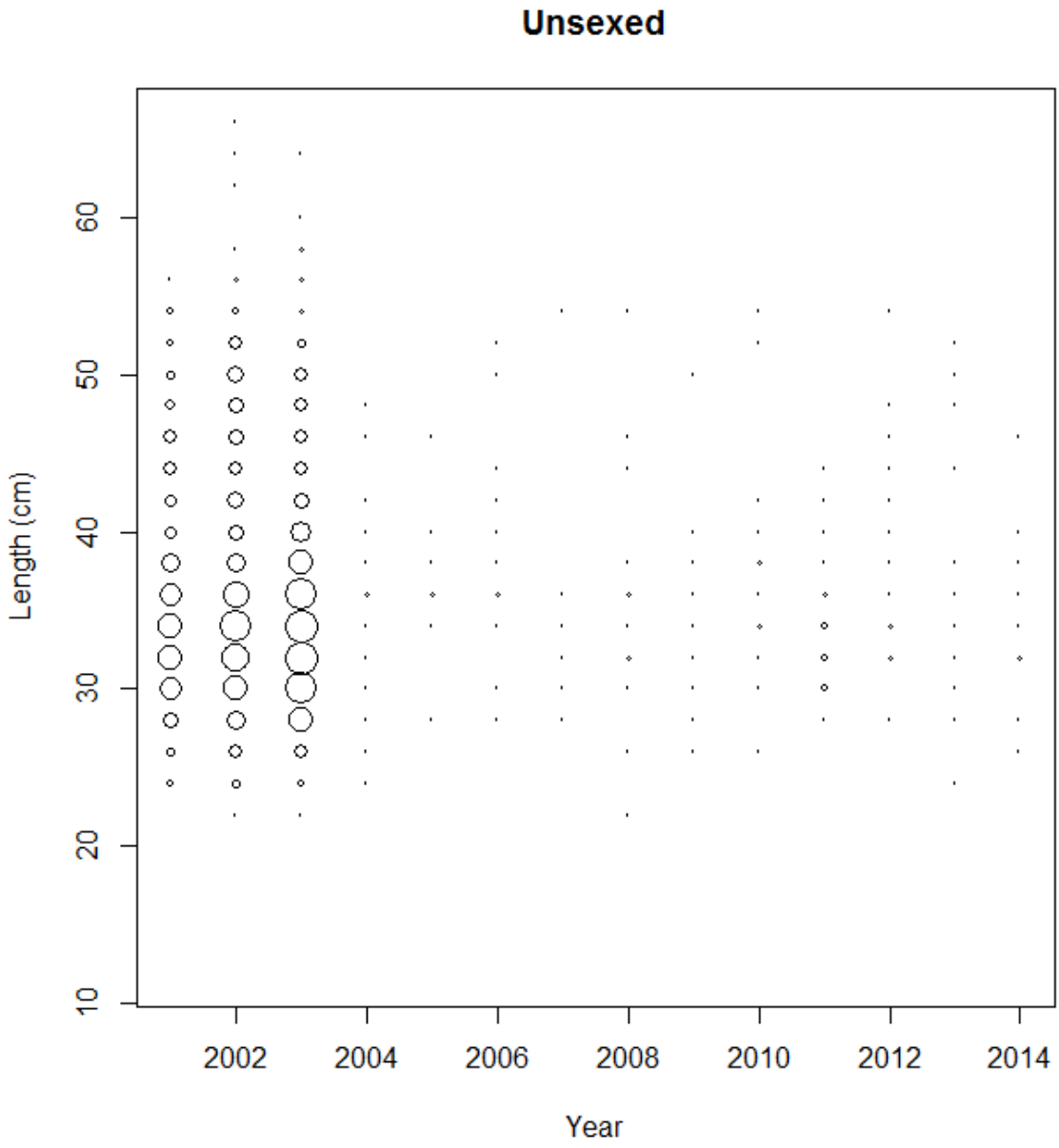


Figure 23: Length-frequency data for the Washington recreational fleet by sex. The largest bubble size for females is 3.4, males 2.2, and unsexed 2.4.

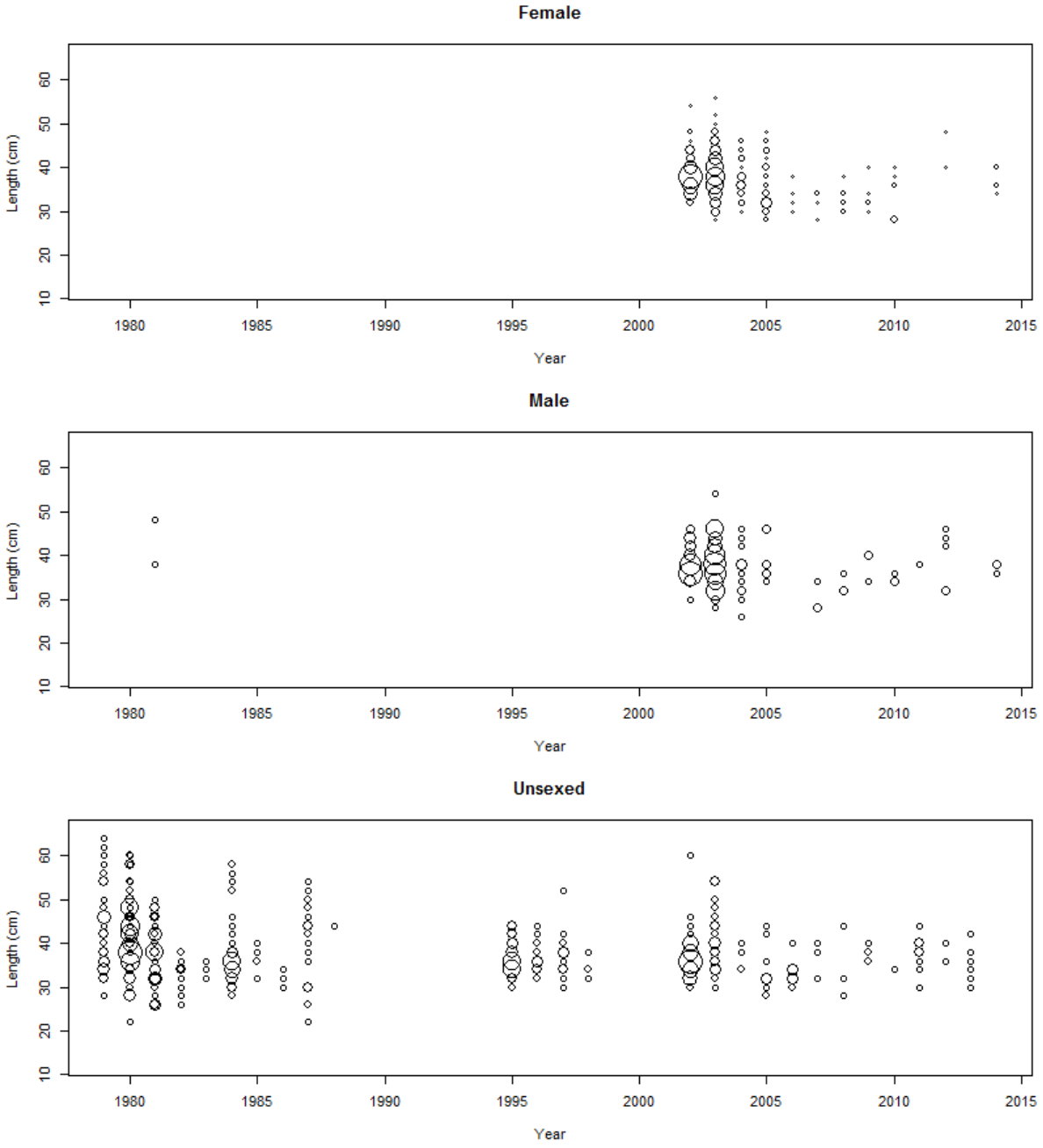


Figure 24: Age-frequency data for the California trawl fleet by sex. The largest bubble size for females is 2.8, and males 3.5.

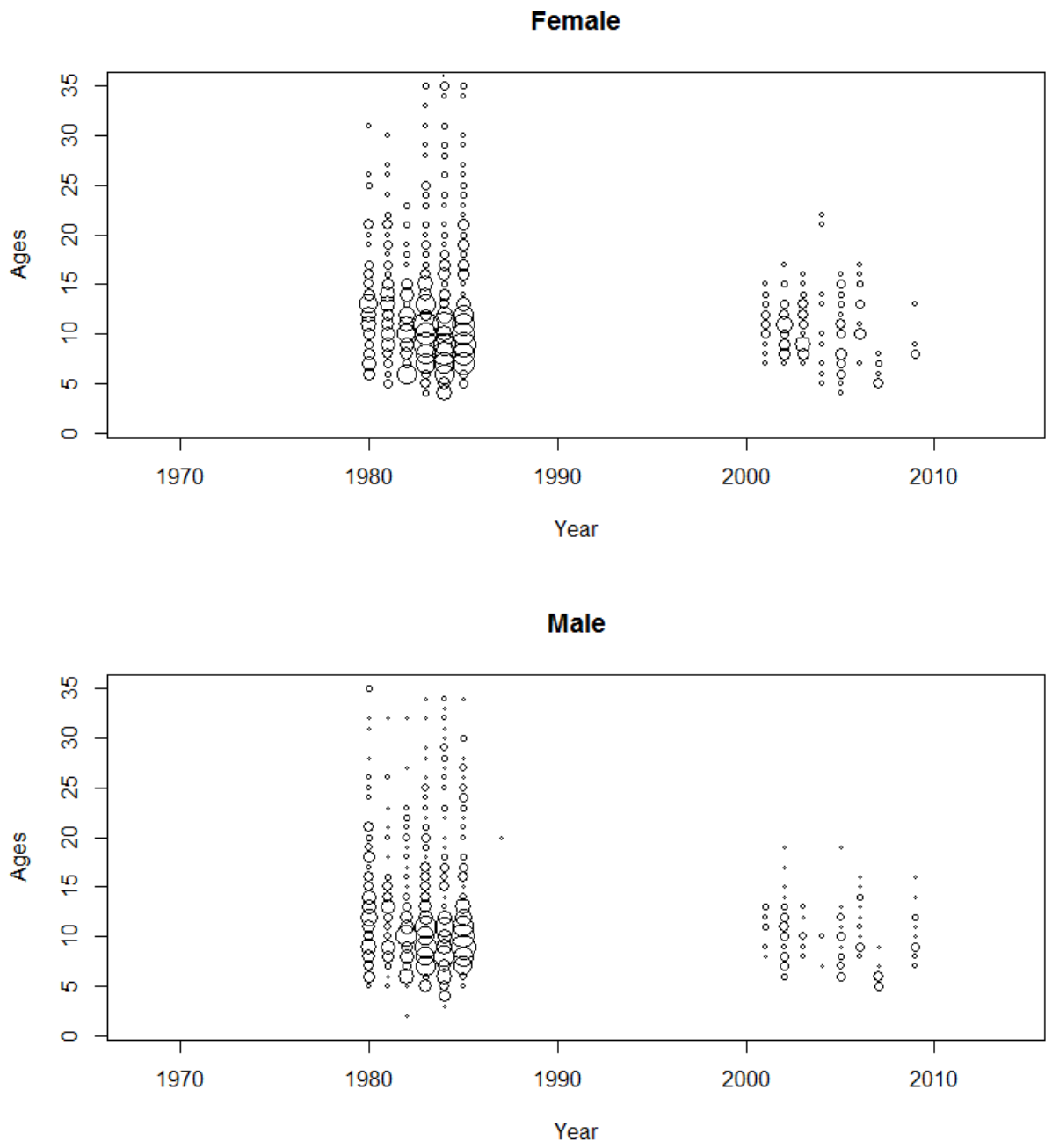


Figure 25: Age frequency data for the Oregon trawl fleet by sex. The largest bubble size for females is 6.7, and males 7.1.

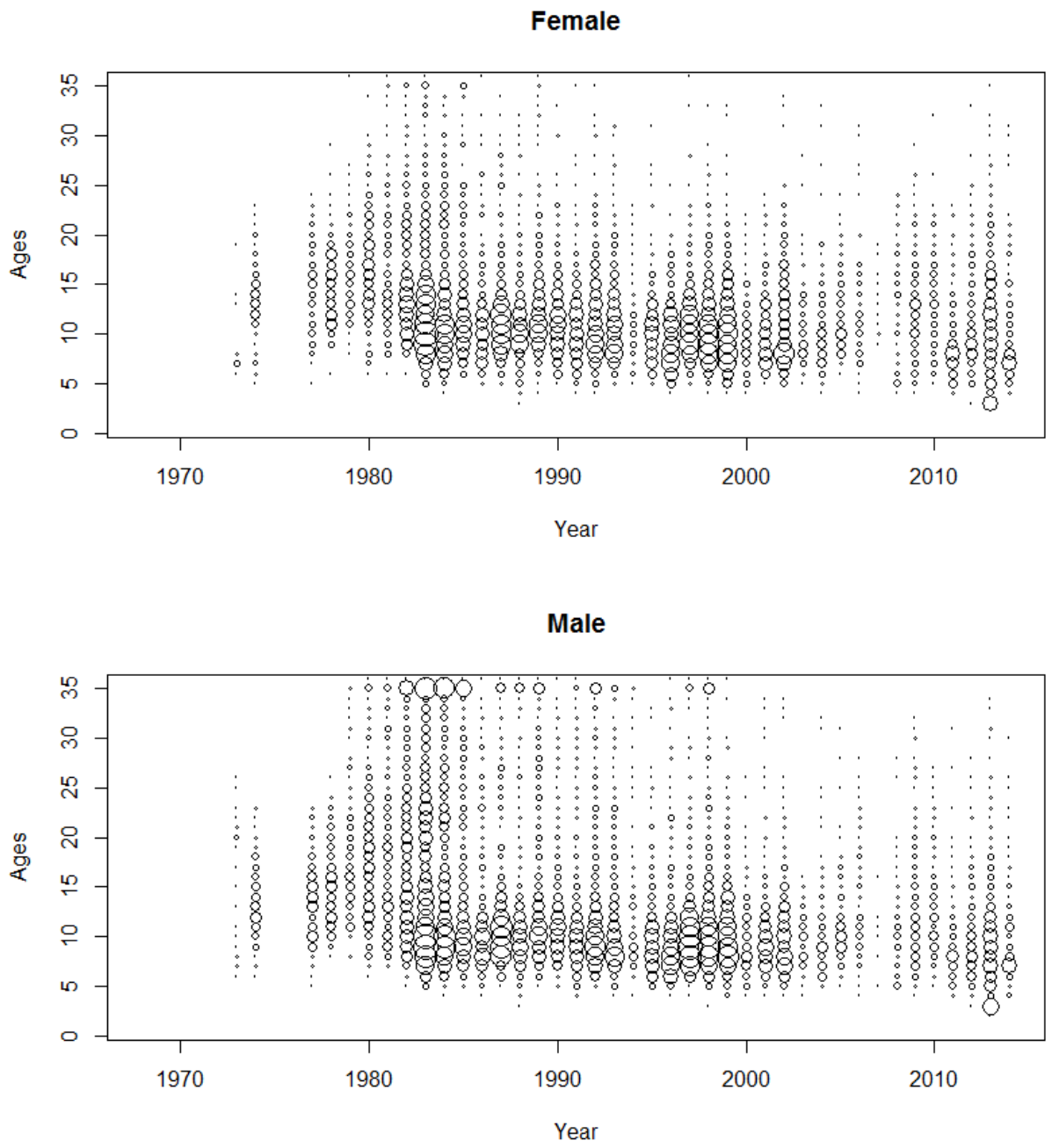


Figure 26: Age-frequency data for the Washington trawl fleet by sex. The largest bubble size for females is 3.6 and males 3.5.

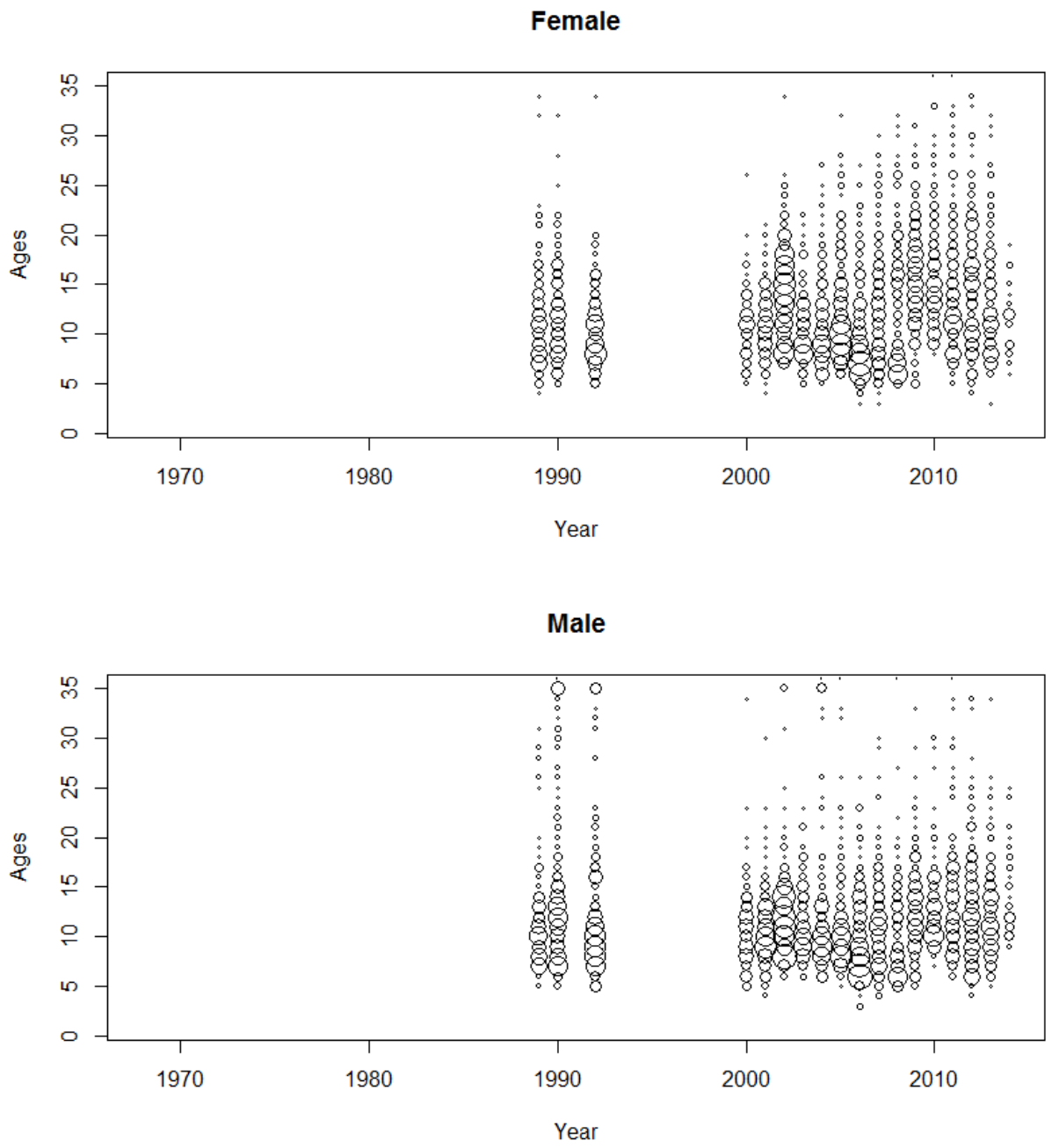


Figure 27: Age-frequency data for the California non-trawl fleet by sex. The largest bubble size for females is 1.1 and males 1.4.

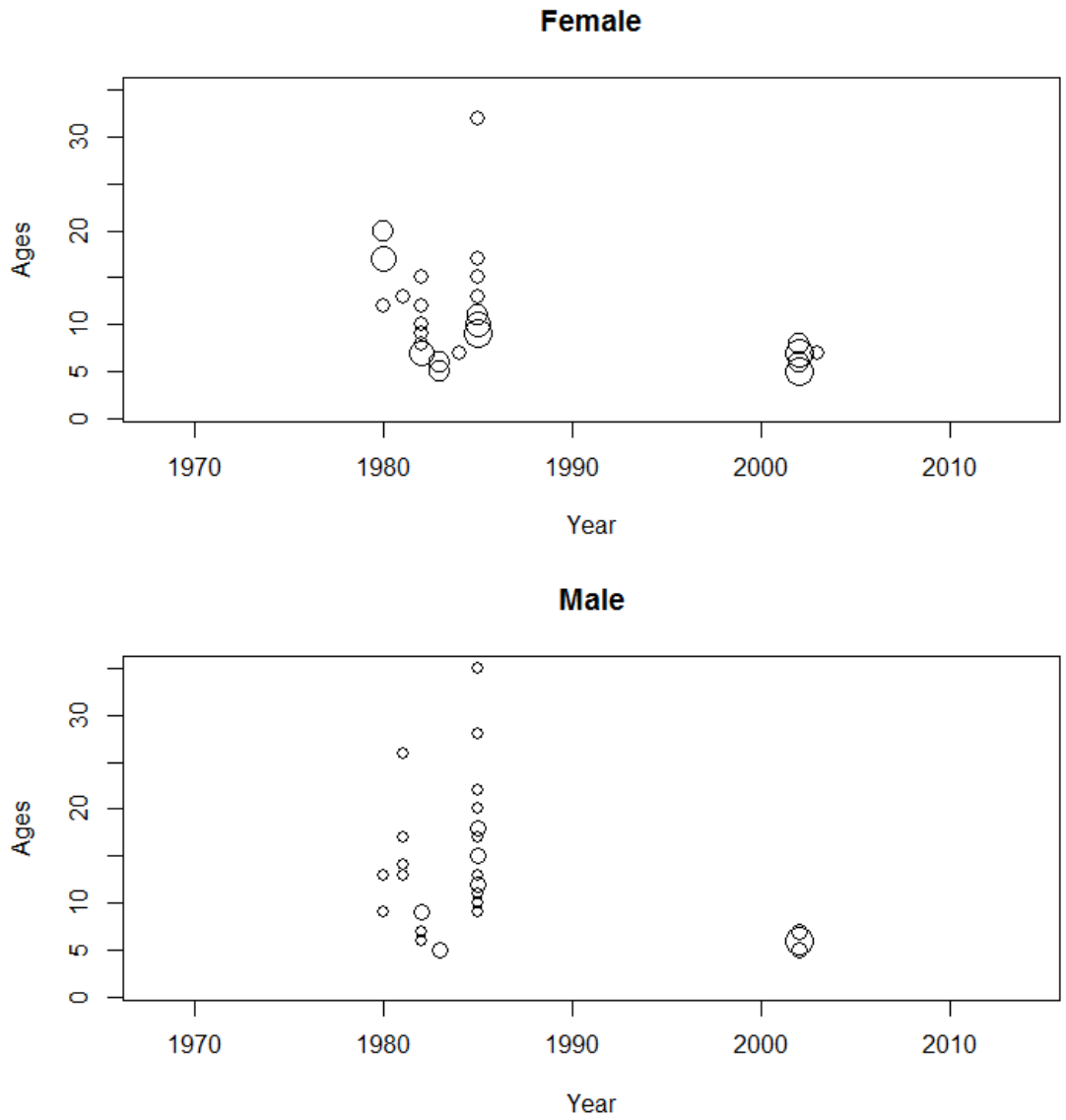


Figure 28: Age-frequency data for the Oregon non-trawl fleet by sex. The largest bubble size for females is 2.1 and males 2.3.

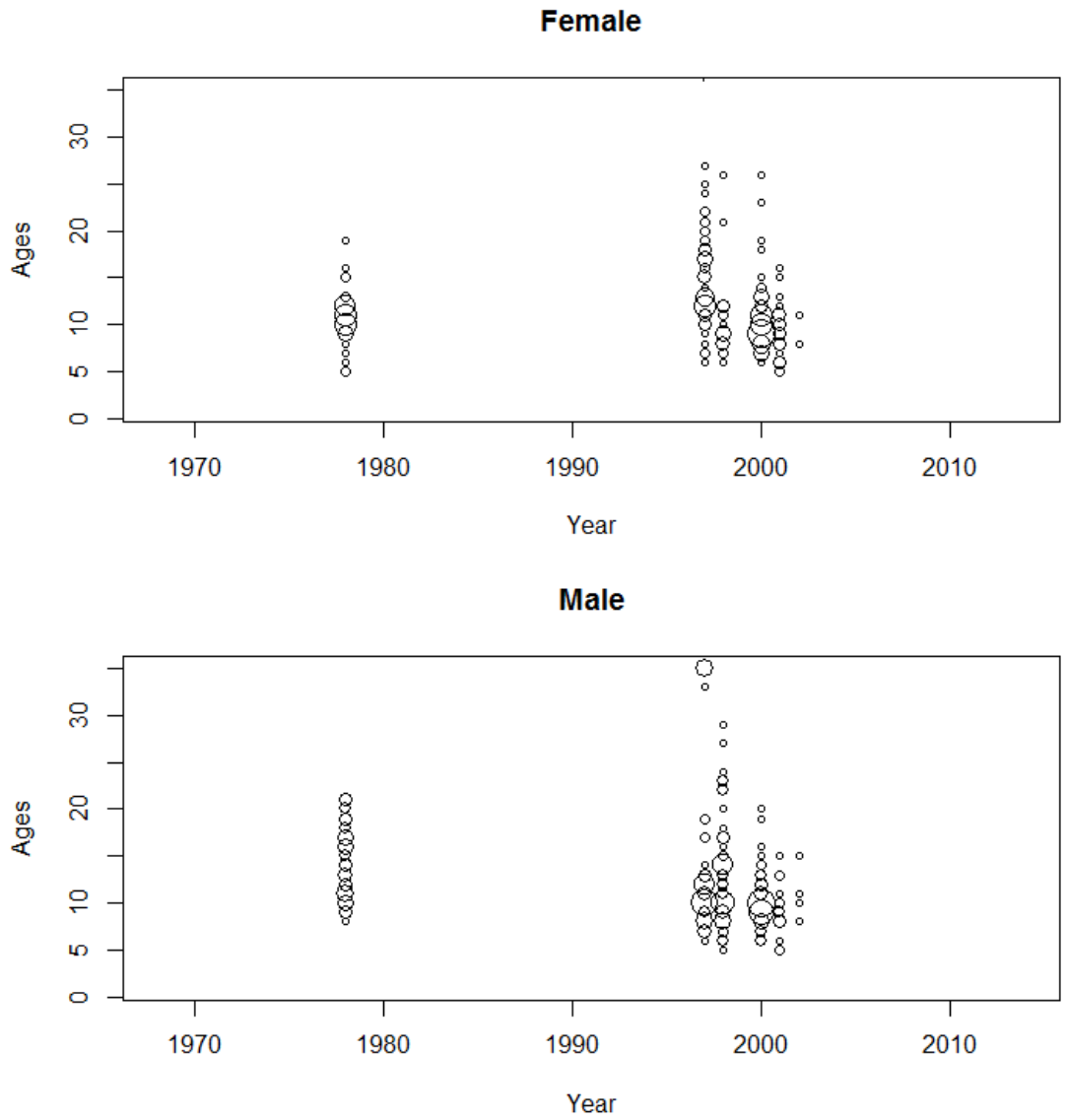


Figure 29: Age-frequency data for the Washington non-trawl fleet by sex. The largest bubble size for females is 1.1 and males 0.8.

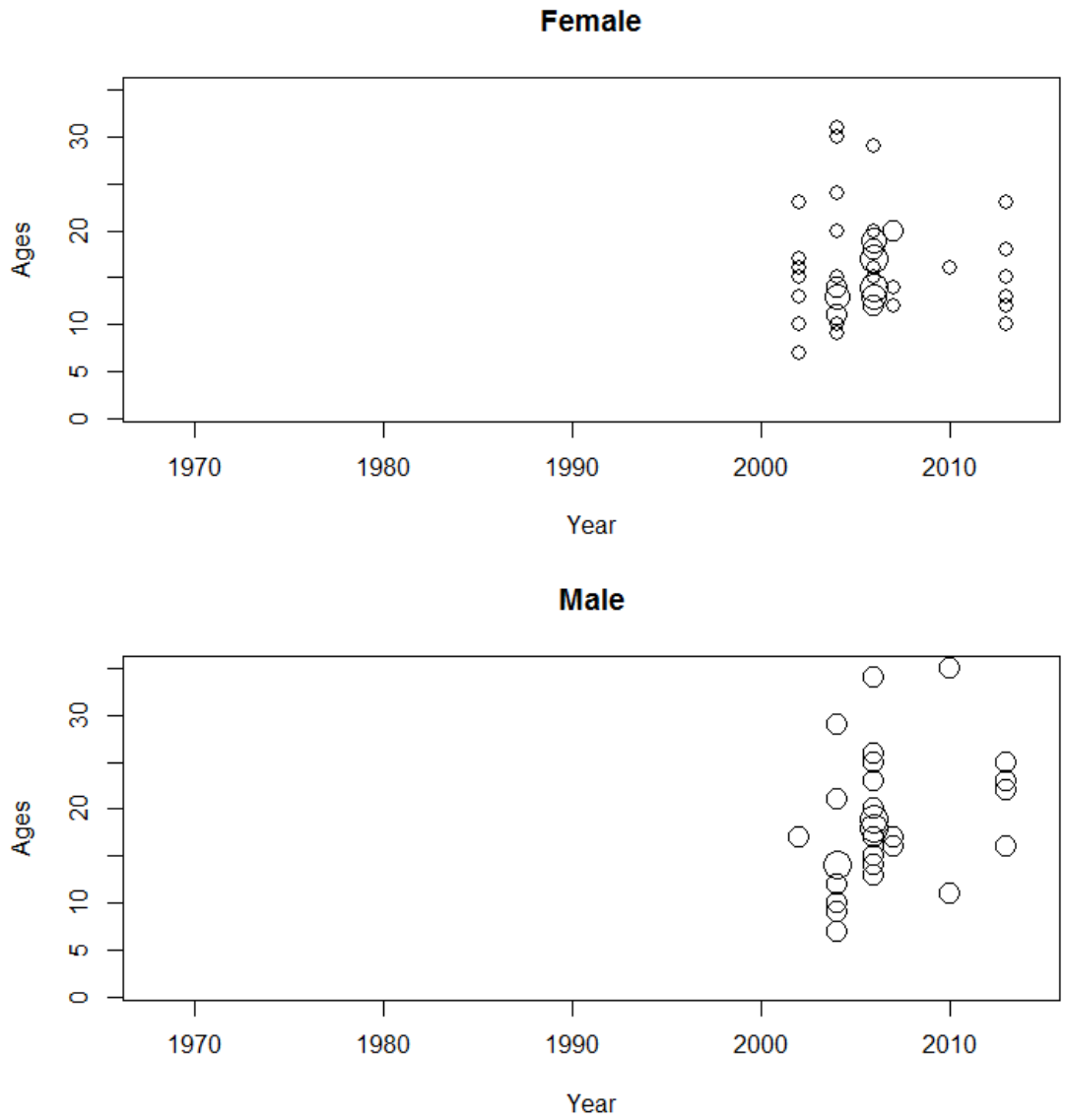


Figure 30: Age-frequency data for the California at-sea hake fleet by sex. All ages samples were male fish. The largest bubble size for males is 0.80.

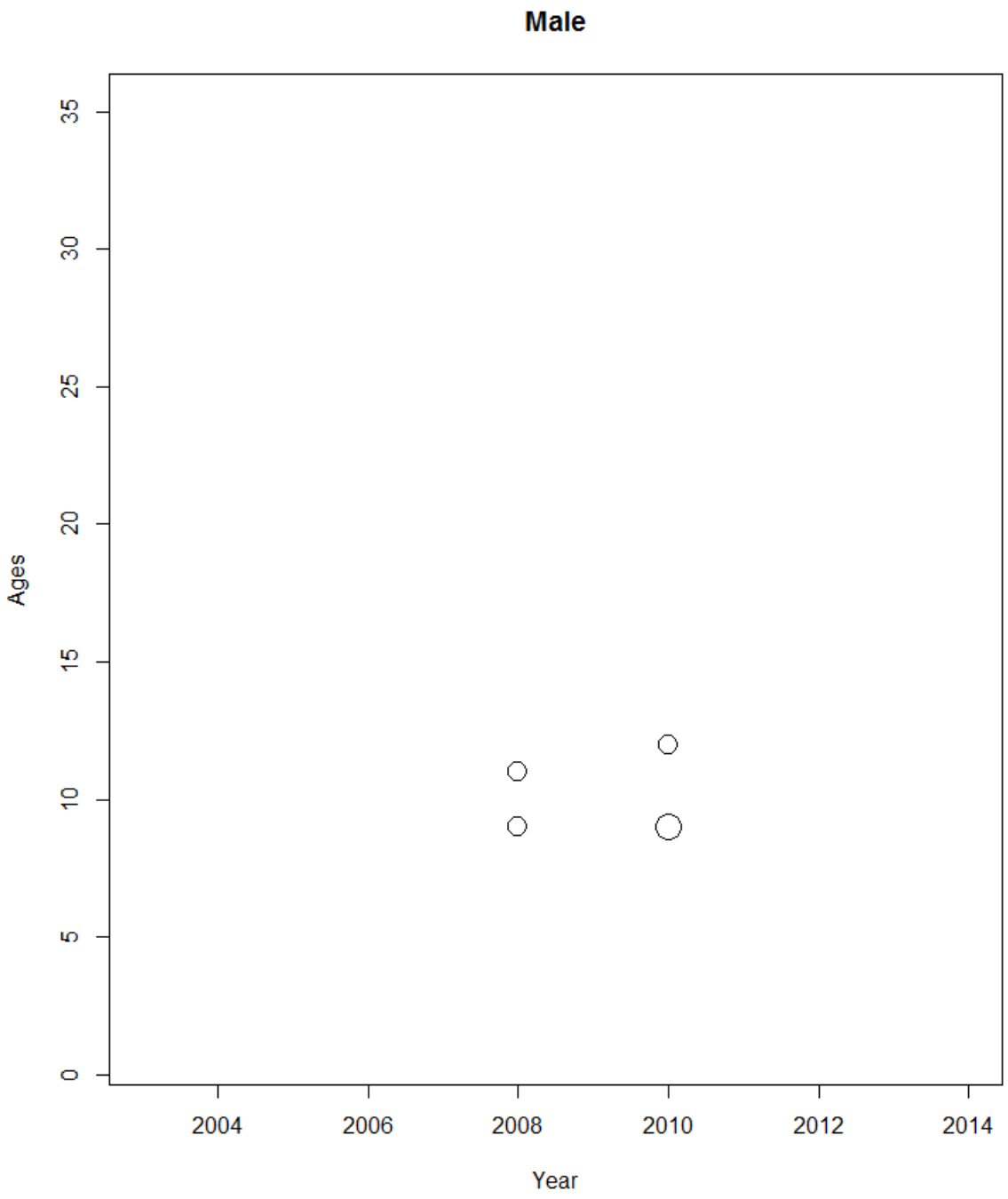


Figure 31: Age-frequency data for the Oregon at-sea hake fleet by sex. The largest bubble size for females is 3.2 and males 2.6.

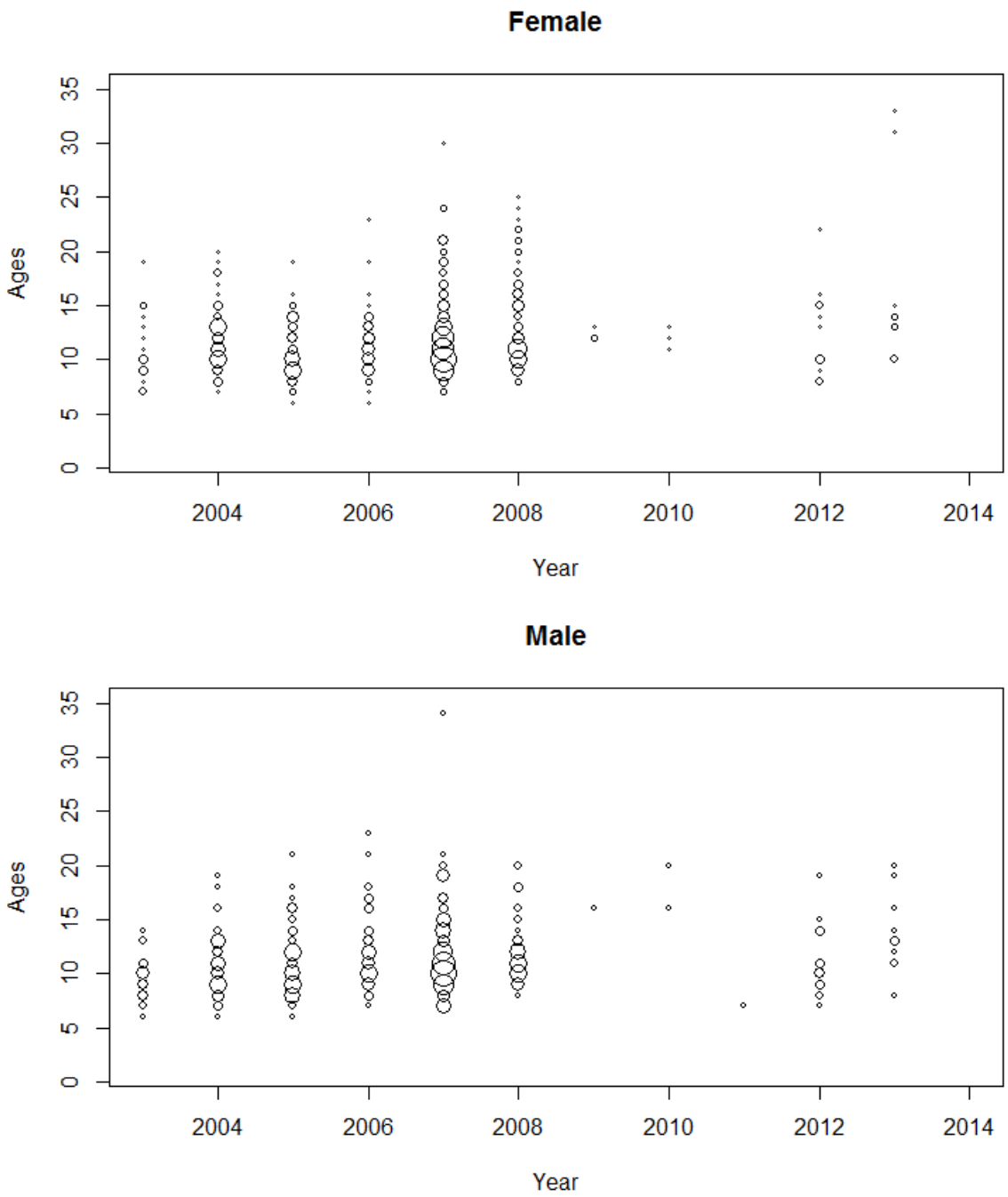


Figure 32: Age-frequency data for the Washington at-sea hake fleet by sex. The largest bubble size for females is 2.6 and males 2.2.

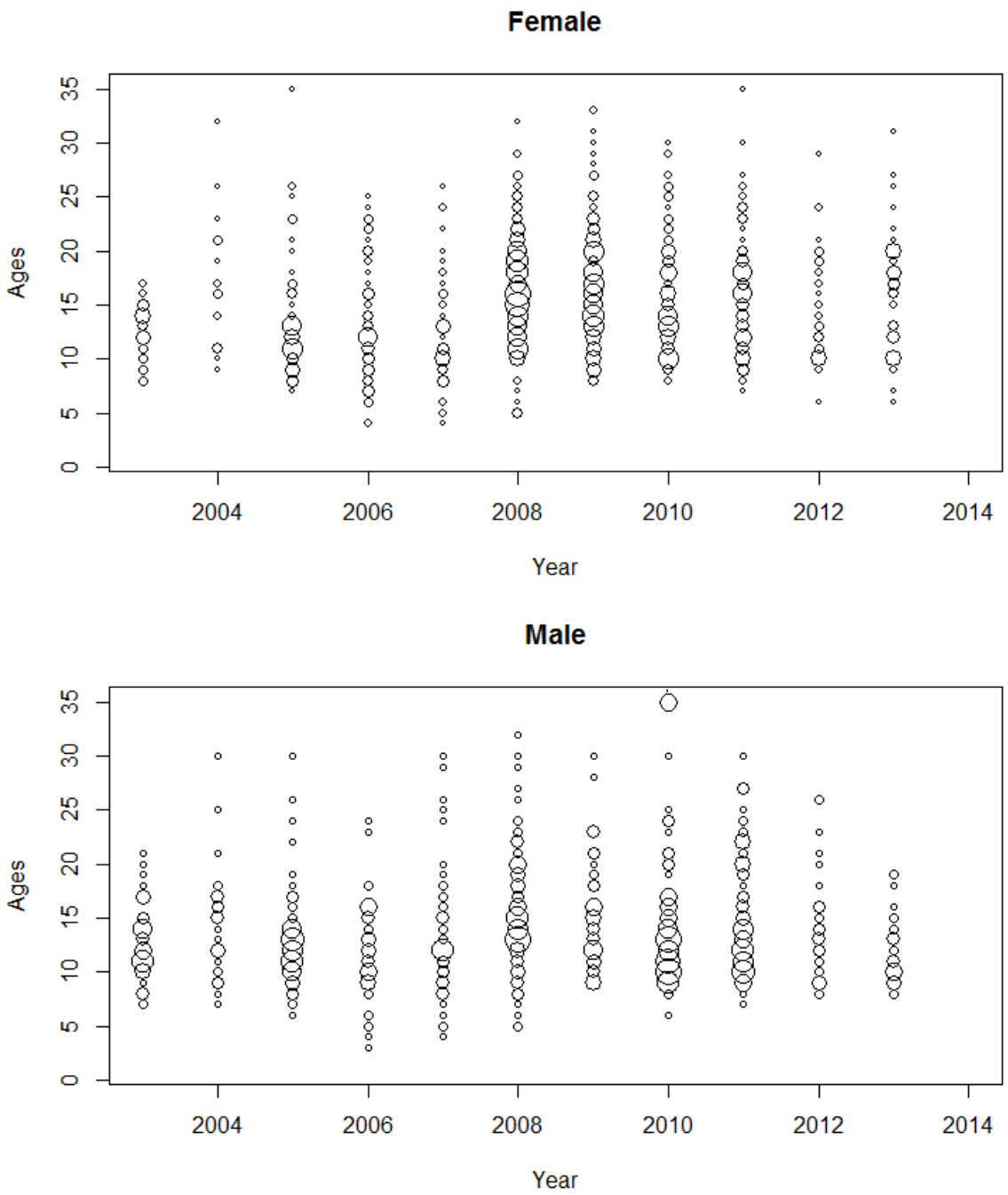


Figure 33: Age-frequency data for the Washington recreational fleet by sex. The largest bubble size for females is 1.9 and males 1.3.

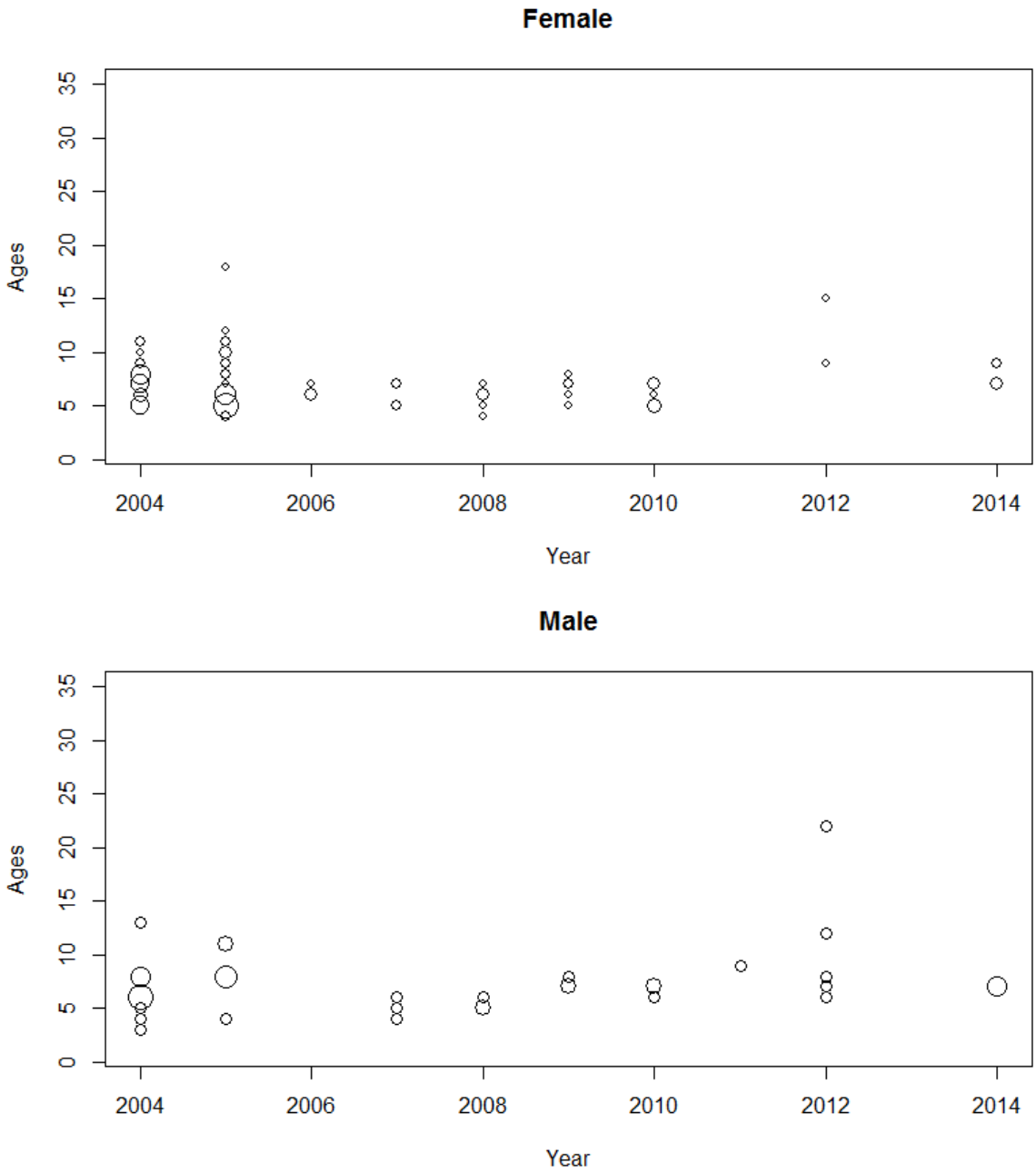


Figure 34 Estimated maturity schedule as a function of length for canary rockfish (top panel) and the sample size as a function of length (bottom panel). The non-one asymptote in the maturity schedule reflects the probability of skipped spawning for mature individuals.

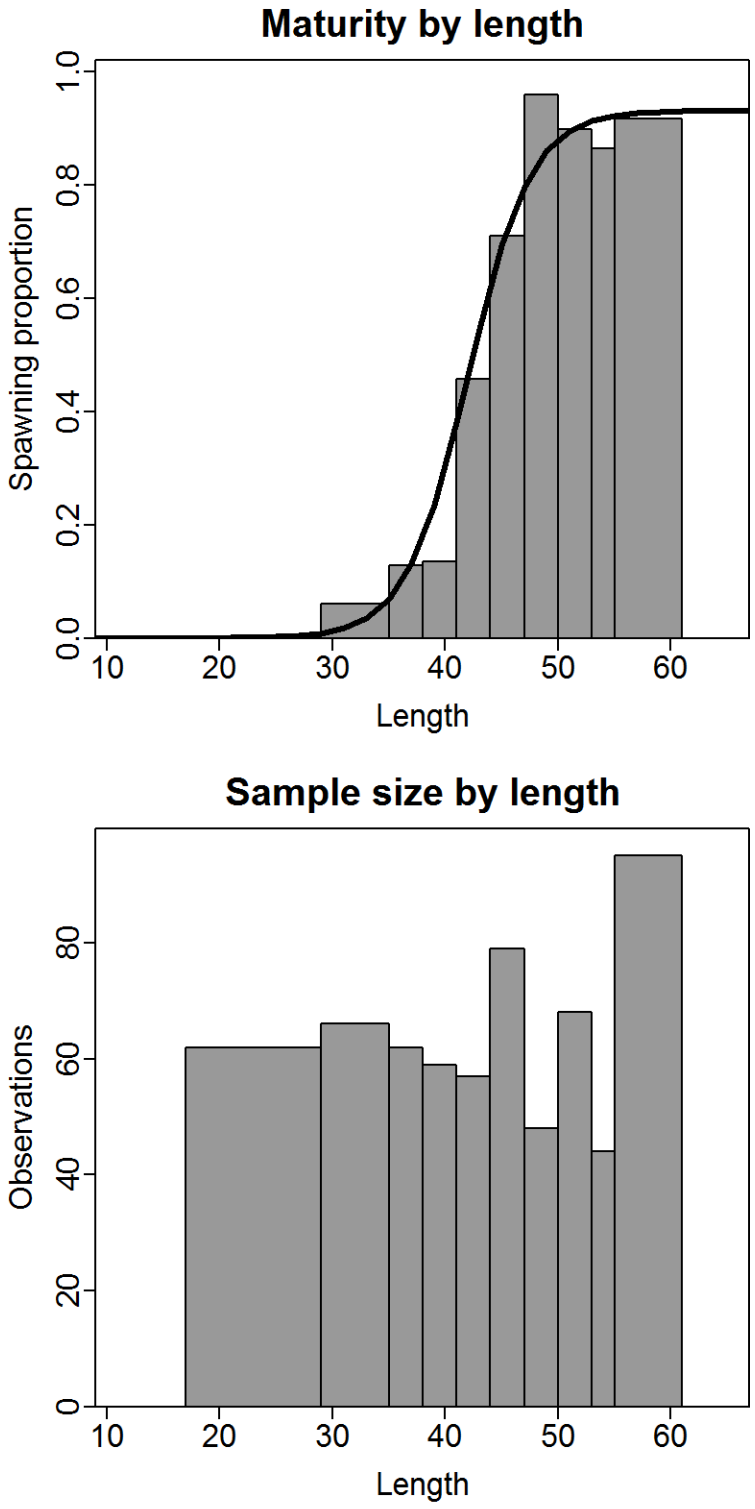


Figure 35 Comparison of old (black) and new (red) fecundity relationship (i.e., the relationship between female weight and egg output for mature females)

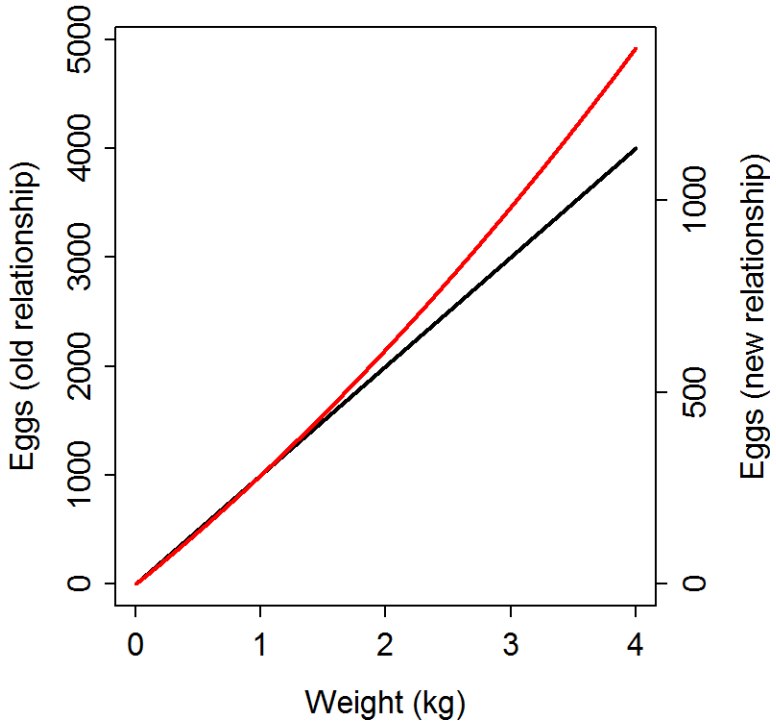


Figure 36 Plot of observed and estimated relationship (red line) between length and weight for females (left panel) and males (right panel), compared with the relationship assumed in the 2011 update assessment (blue line)

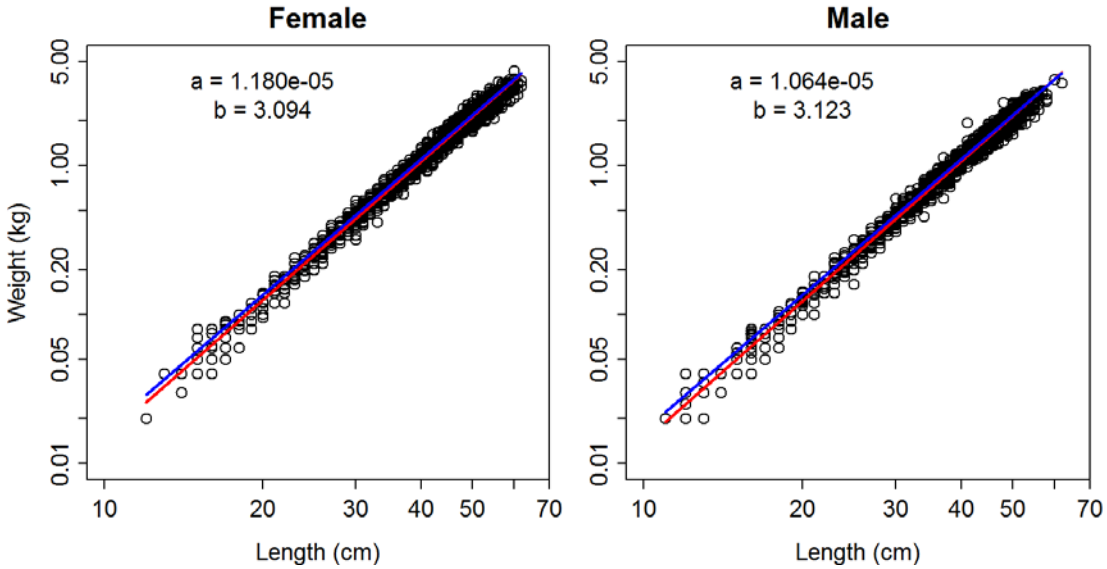


Figure 37 Observed proportion at age (red) and estimated latent (unobserved) age structure (black) for double-read samples analyzed to estimate ageing error bias and imprecision (where age 30 is treated as the age above which the latent proportion at age declines exponentially)

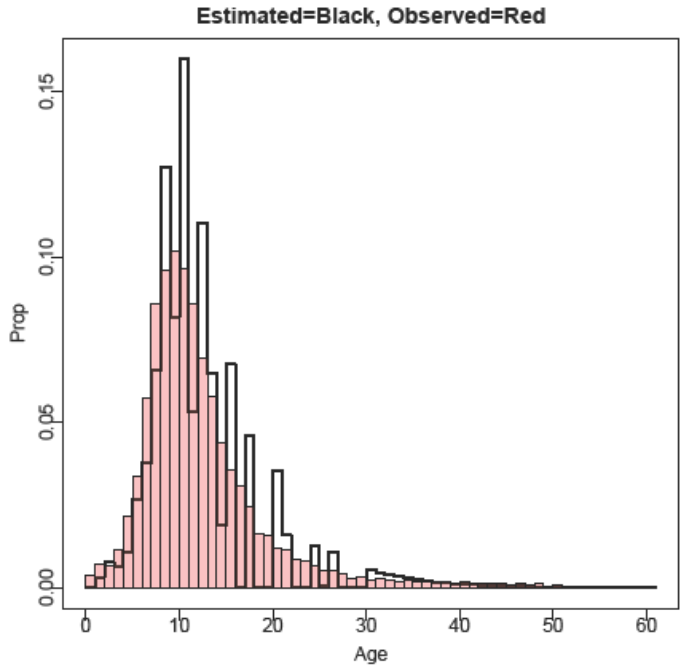


Figure 38 Estimated bias (central red line) and imprecision (blue line) for each reader category (CAPS-B: CAPS break-and-burn; ODFW-B: ODFW break-and-burn; ODFW-S: ODFW surface reads; WDFW-B: WDFW break-and-burn; WDFW-S: WDFW surface reads), and along with a plot of read age (y-axis) and Empirical Bayes estimate of true age (x-axis) for each category.

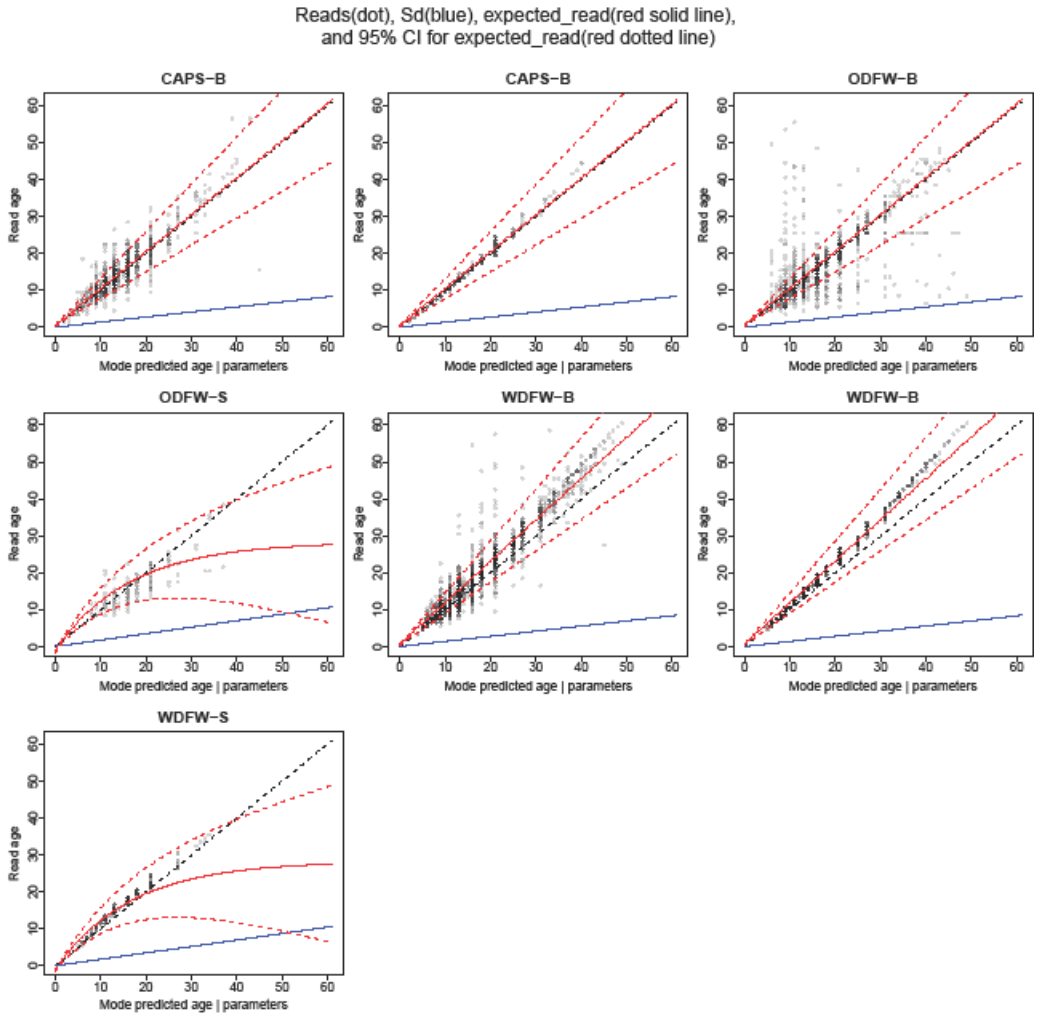


Figure 39 -- Comparison of total stock-wide catches included in the 2007 benchmark assessment, 2009 and 2011 update assessments, and the 2015 base model

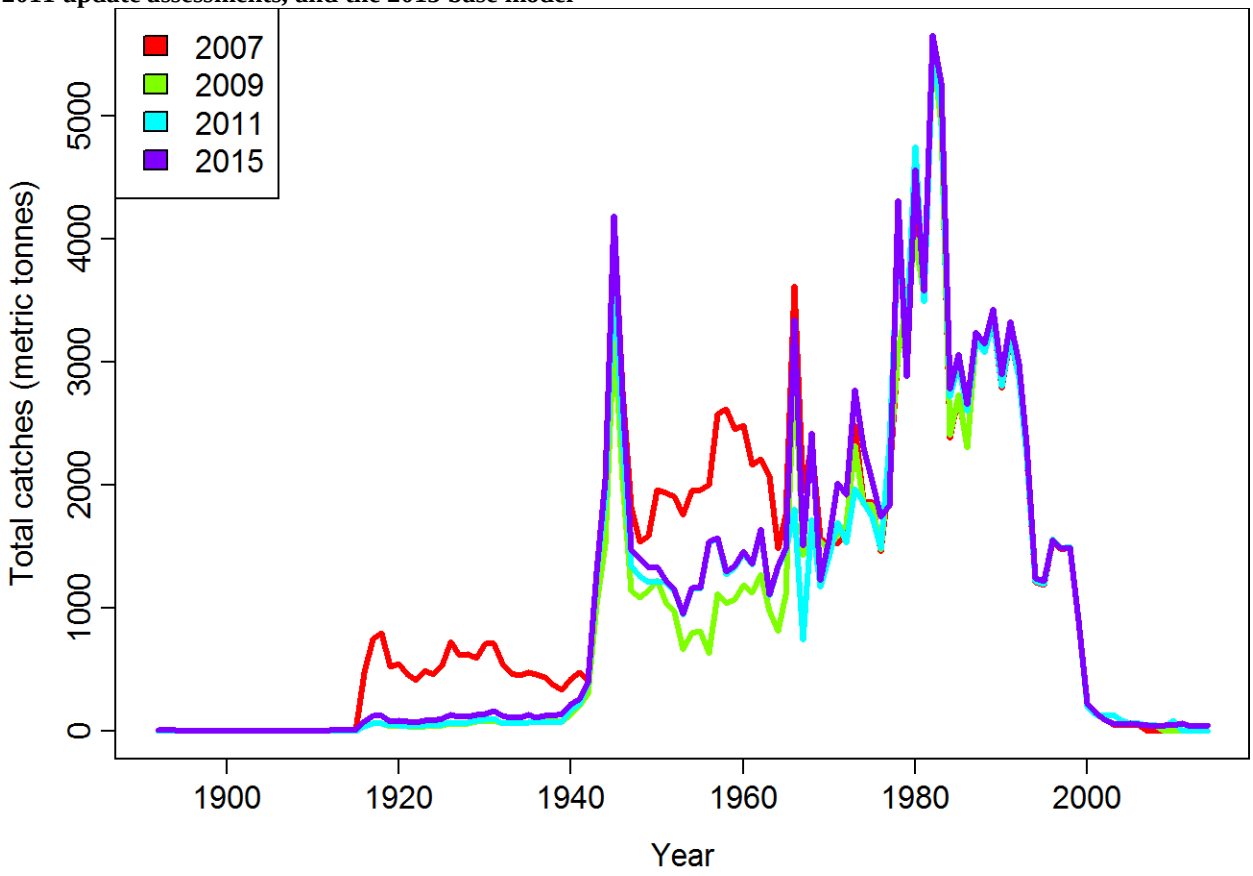


Figure 40 – Estimates of spawning output (top panel; line: maximum likelihood estimates; shaded area: 95% confidence interval) and relative spawning output (bottom panel) for the base model, a sensitivity that "turns off" interannual variation in the spatial distribution of recruitment ("No dist-devs"), a sensitivity that eliminates all spatial variation ("Nonspatial") and a sensitivity that eliminates time-blocks in selectivity ("No selex blocks").

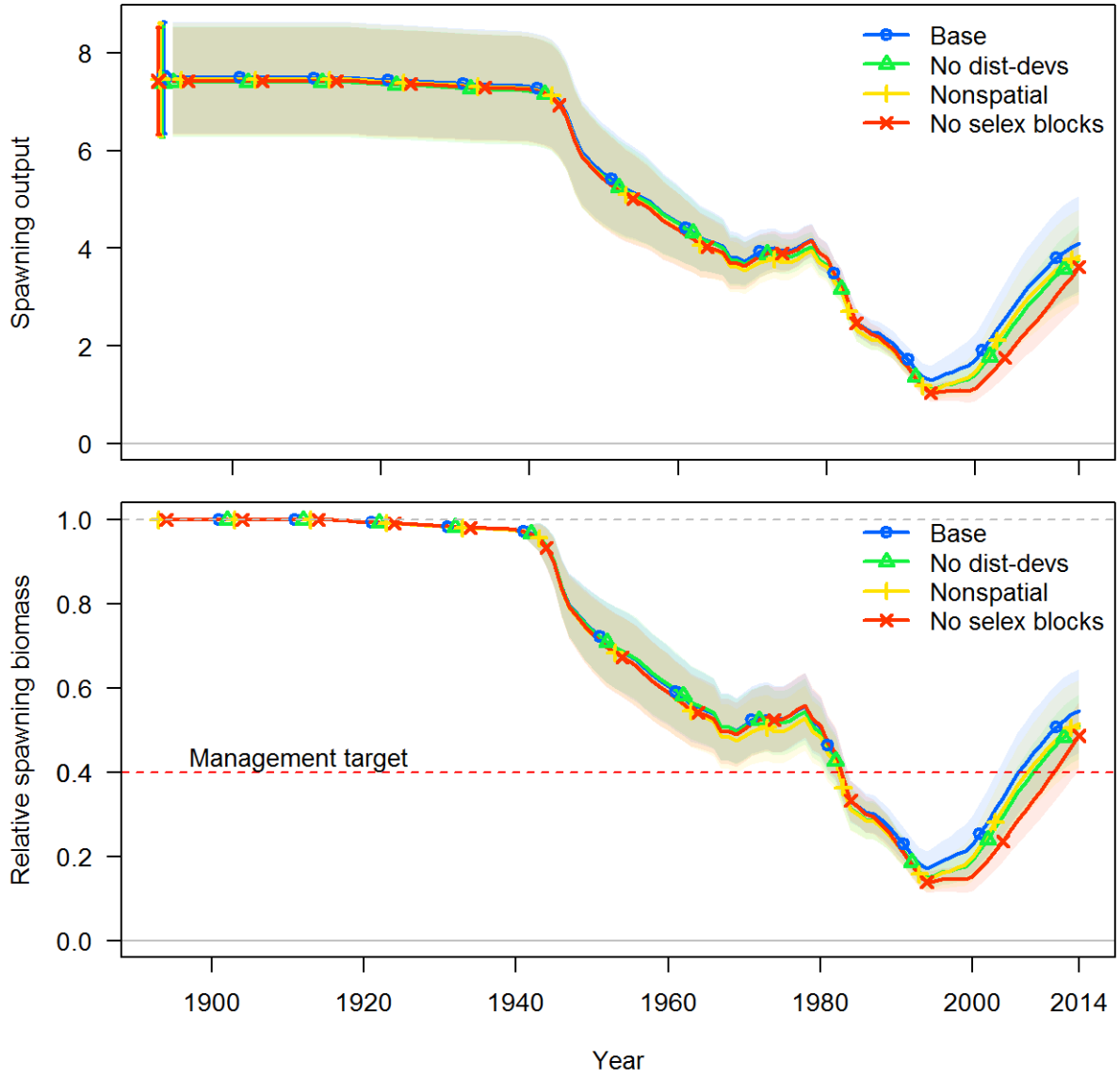


Figure 41 – Estimates of spawning output (top panel; line: maximum likelihood estimates; shaded area: 95% confidence interval) and relative spawning output (bottom panel) for the base model, a sensitivity that eliminates the increased rate of natural mortality for mature females ("Base: no M-ramp"), a sensitivity that adds an offset in male selectivity in the trawl fishery relative to female selectivity ("Base: male TWL offset") and a sensitivity both eliminates the increase natural mortality rate and adds a male selectivity offset ("Base: no M-ramp + male TWL offset").

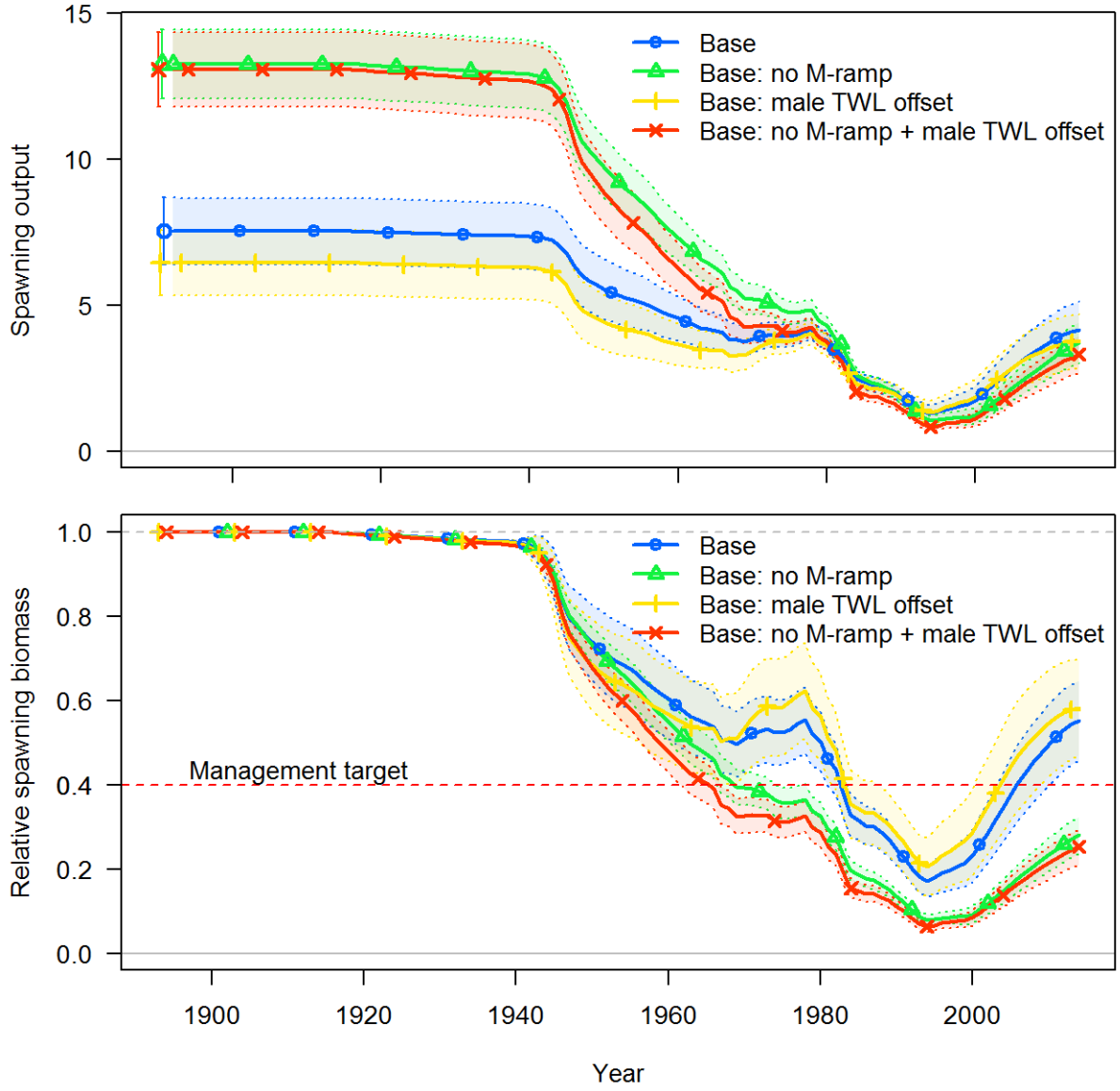


Figure 42 – A profile of different likelihood components when varying the value of ln(R0)

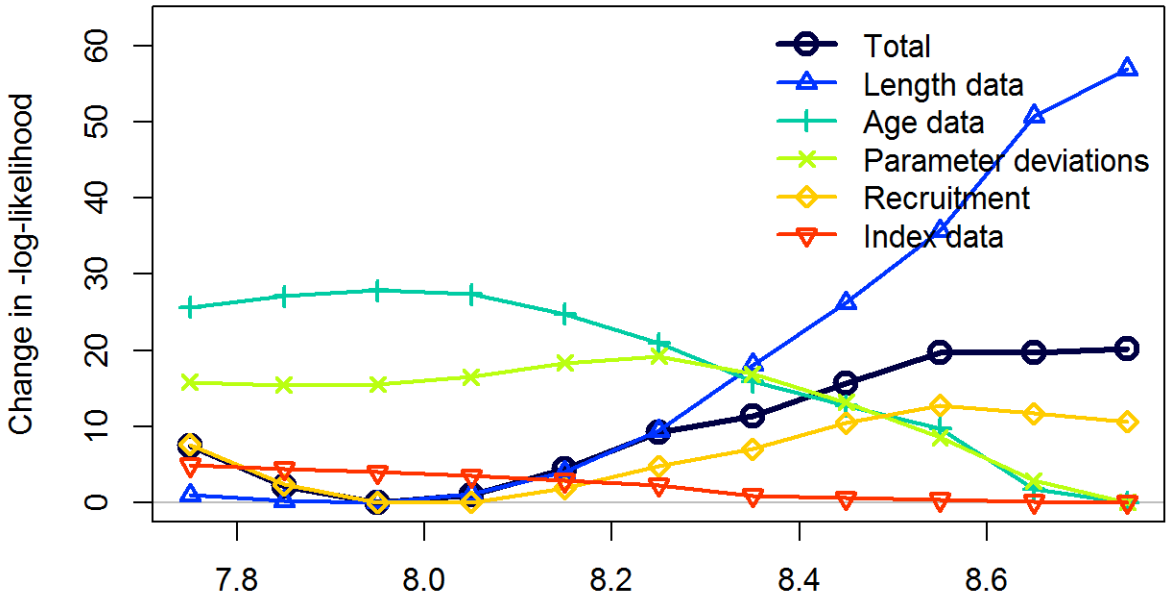


Figure 43 A profile of different likelihood components when varying the value of steepness

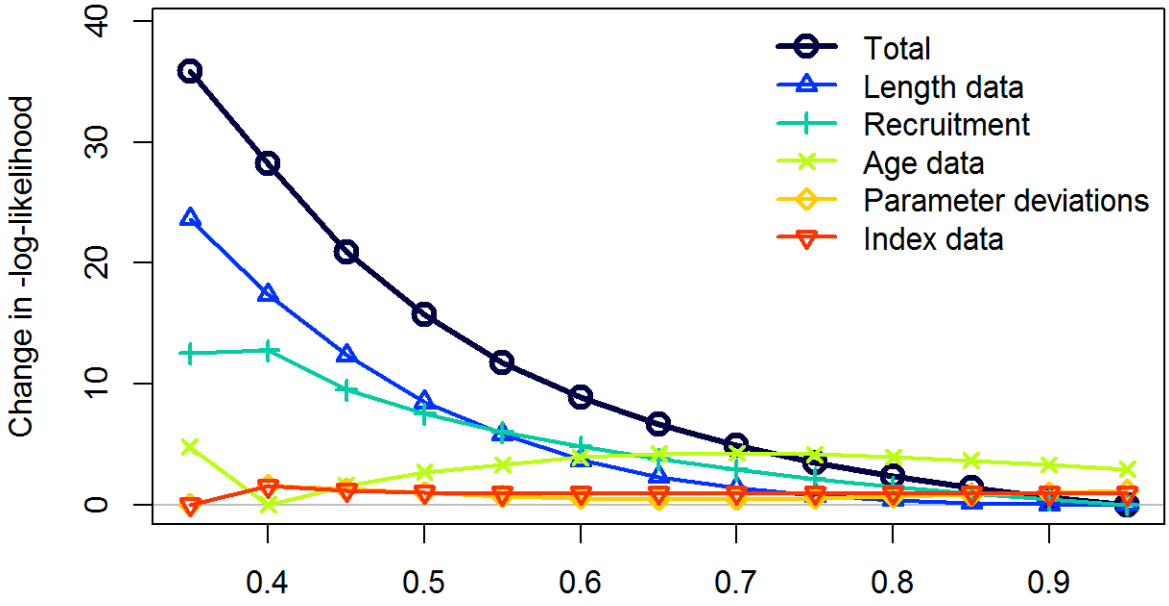


Figure 44 A profile of different likelihood components when varying the value of female juvenile and male natural mortality rate

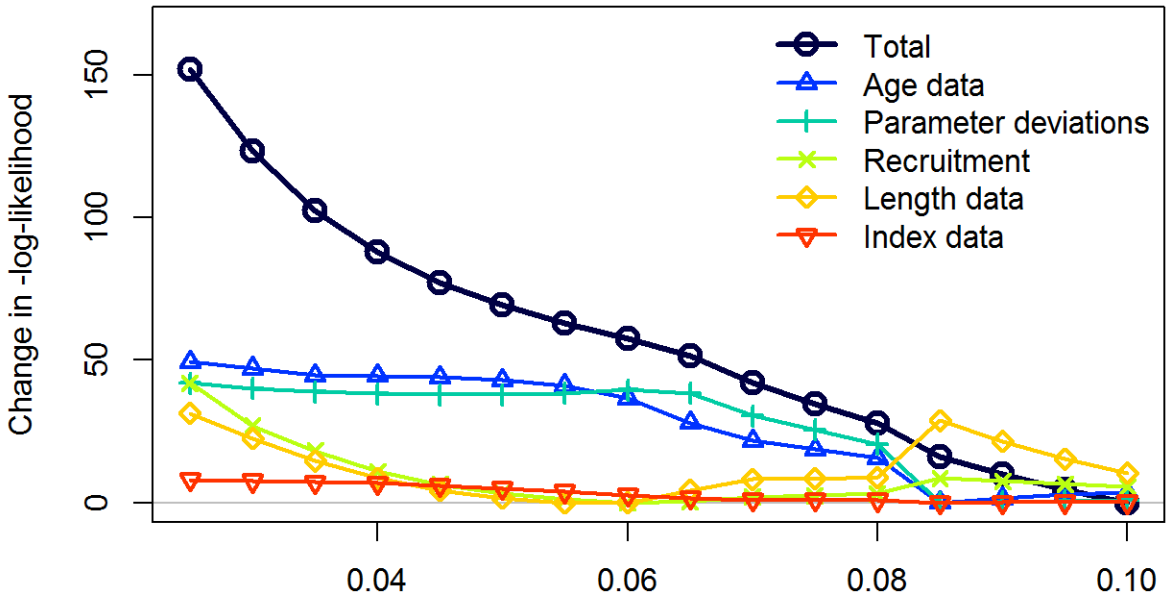


Figure 45 – Length composition samples and predictions for all fleets aggregated over all years with available data

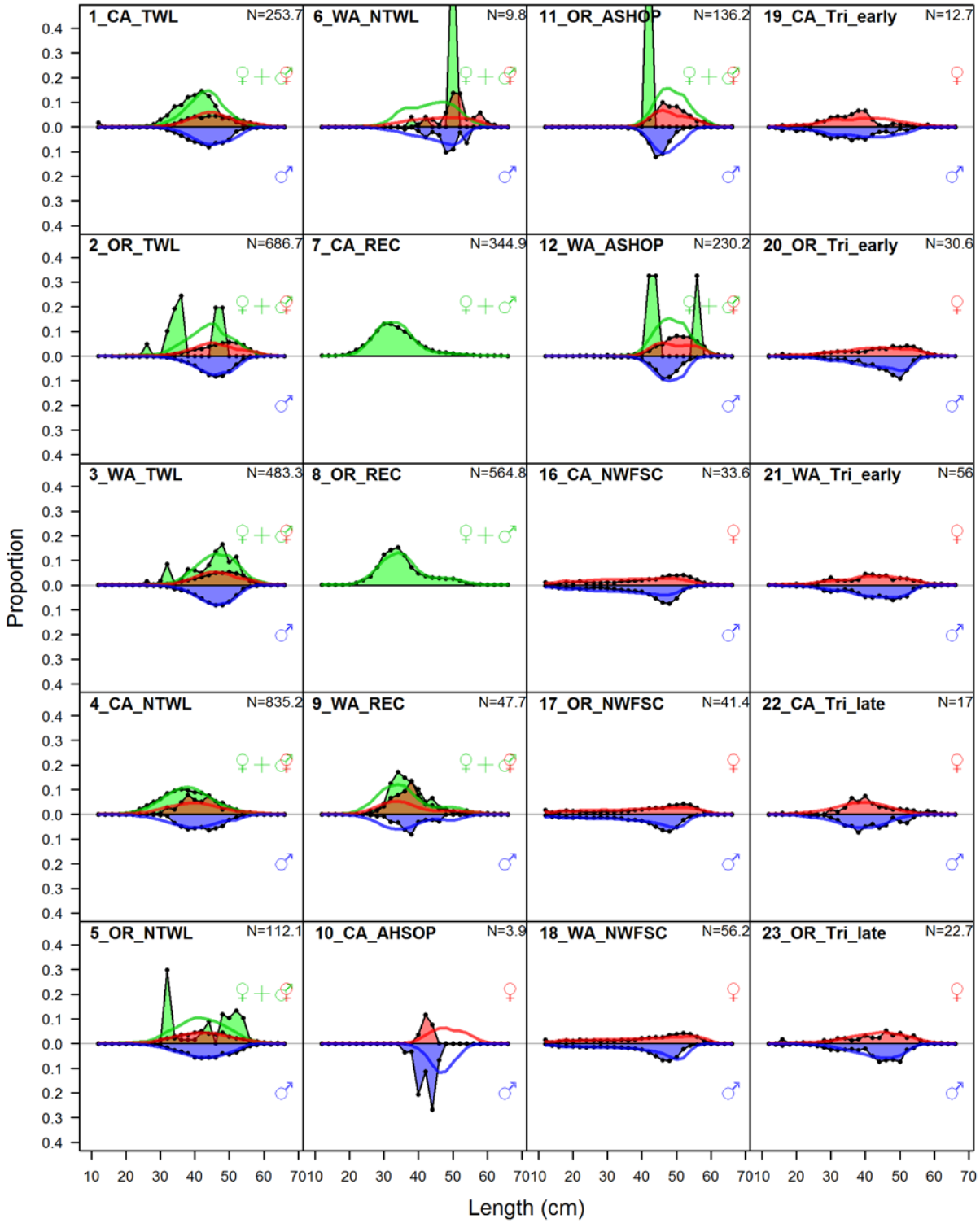


Figure 46 – Length composition samples and predictions for fleet 1 (CA Trawl)

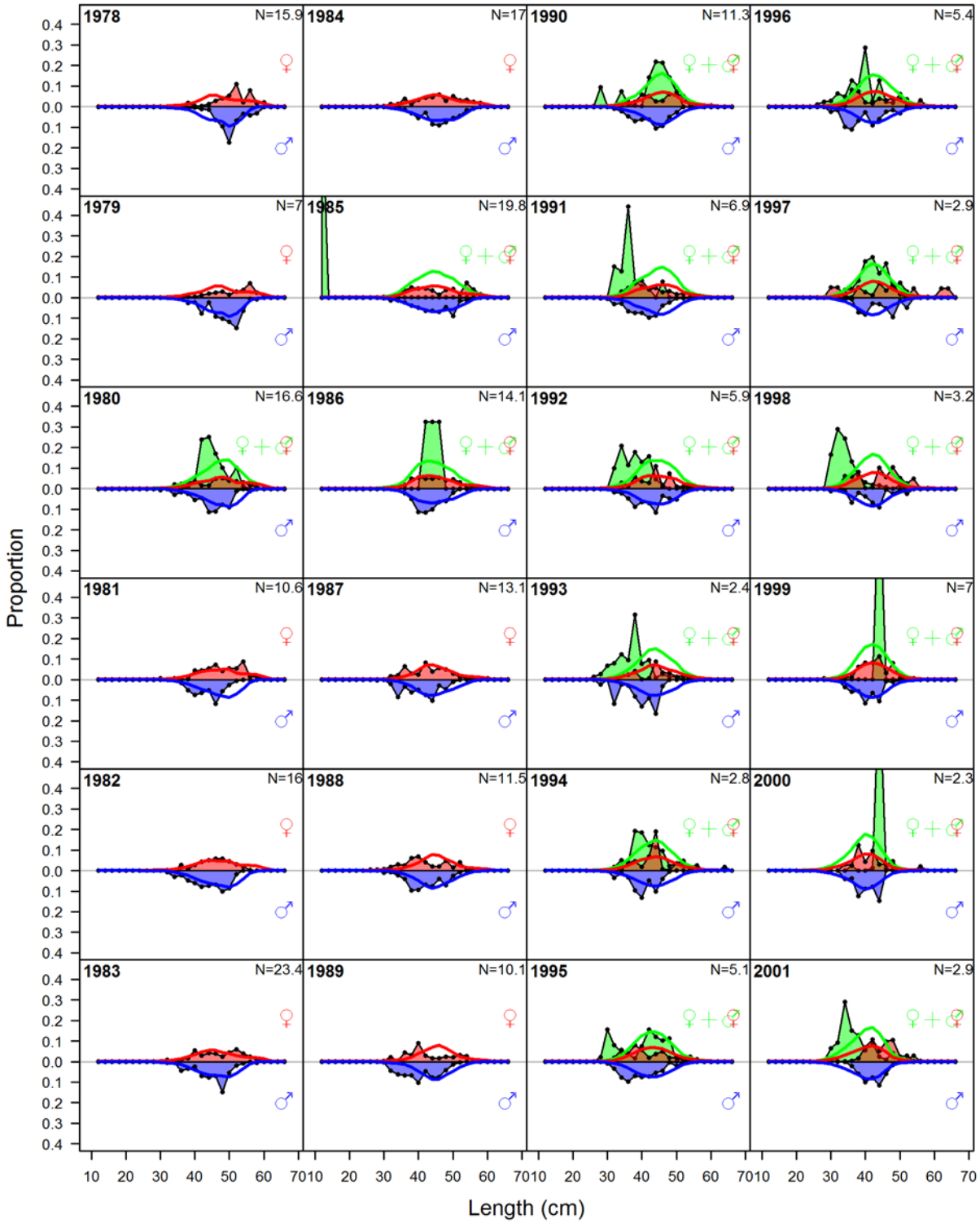


Figure 43 cont.

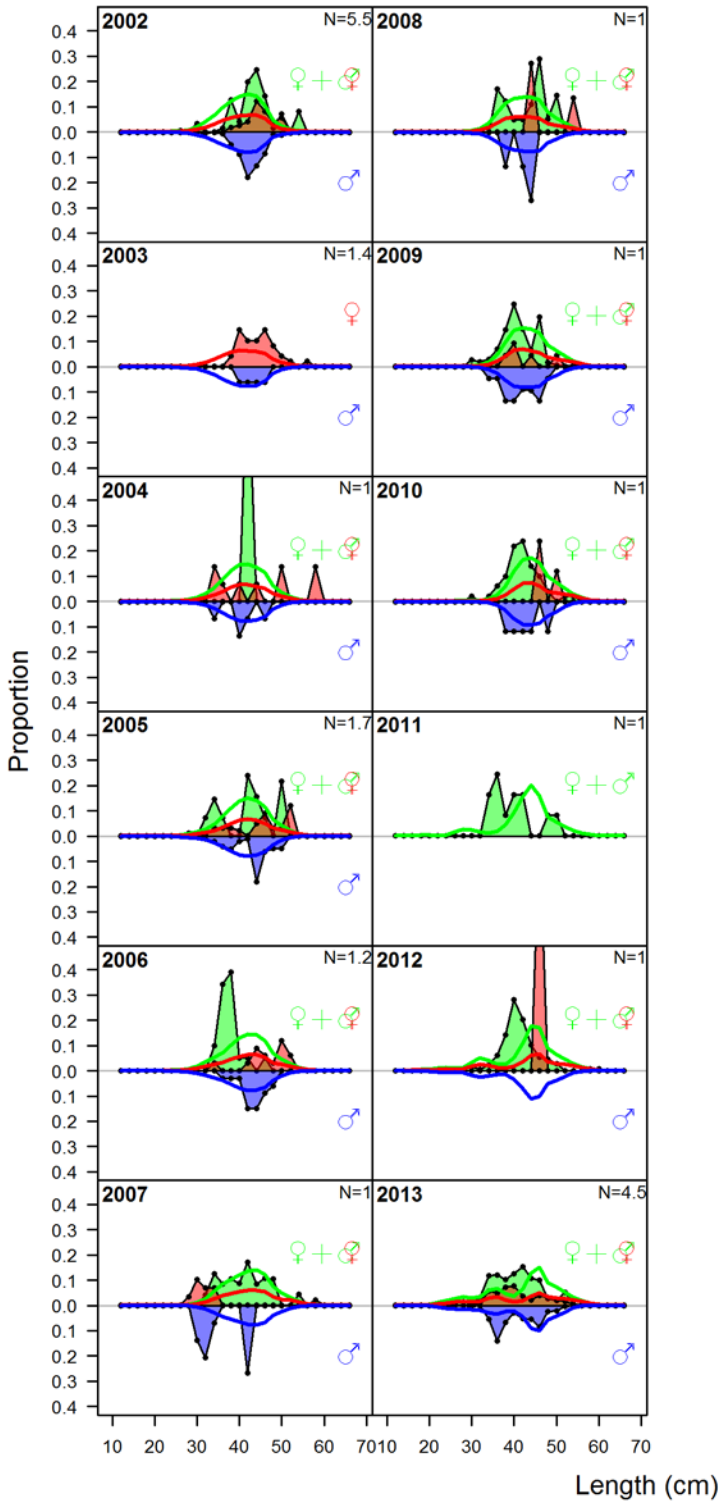


Figure 47 – Length composition samples and predictions for fleet 2 (OR Trawl)

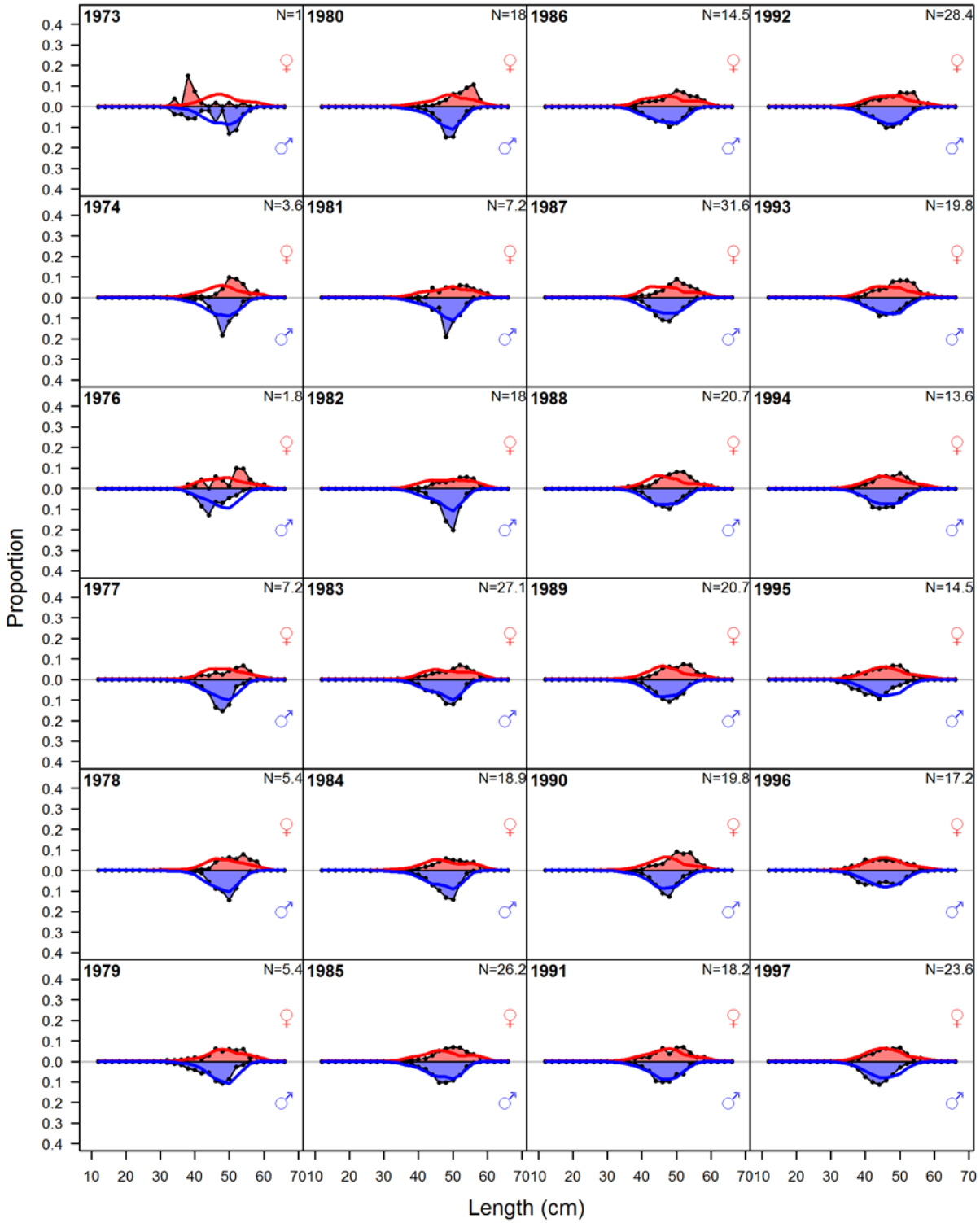


Figure 44 cont.

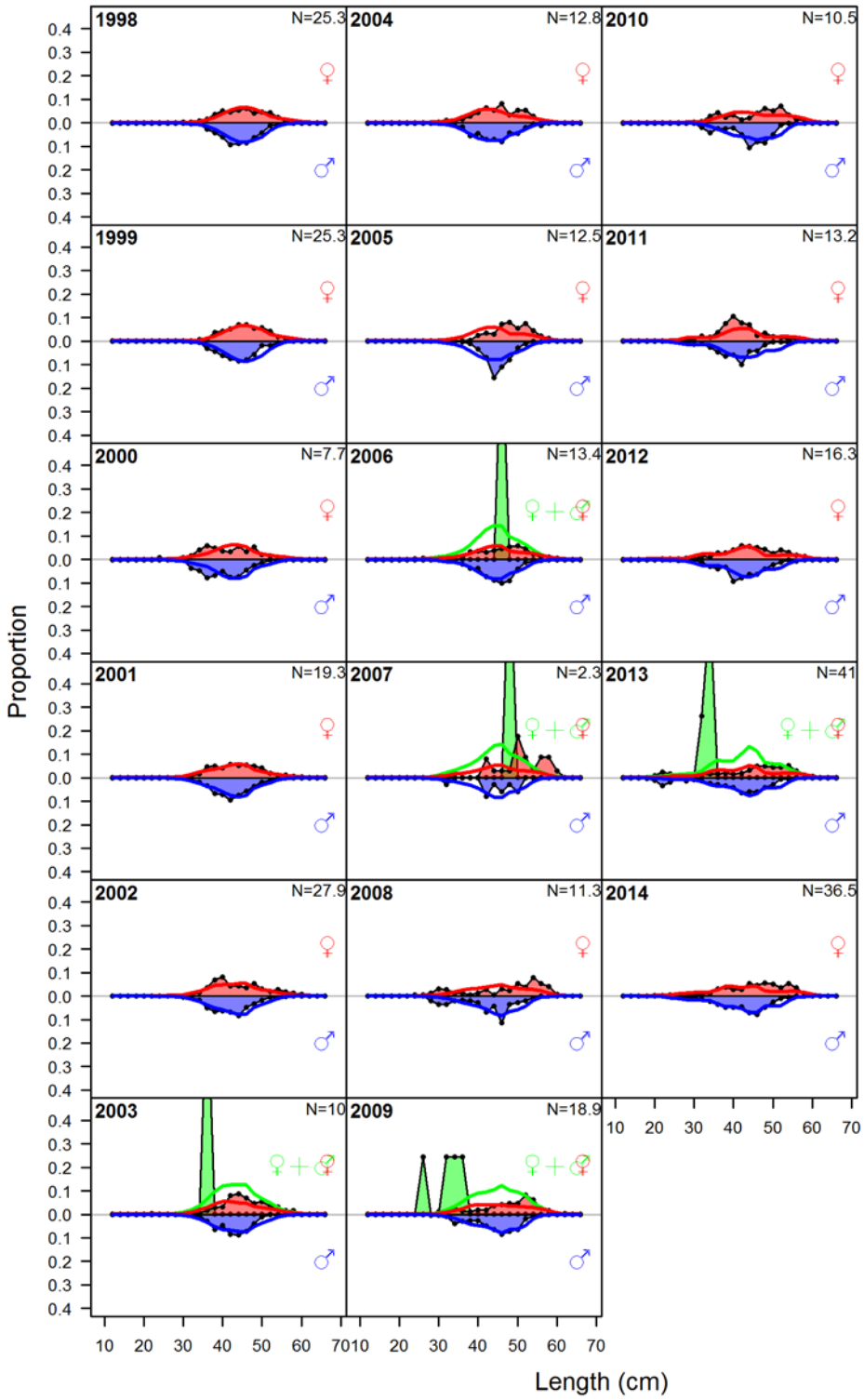


Figure 48 -- Length composition samples and predictions for fleet 3 (WA Trawl)

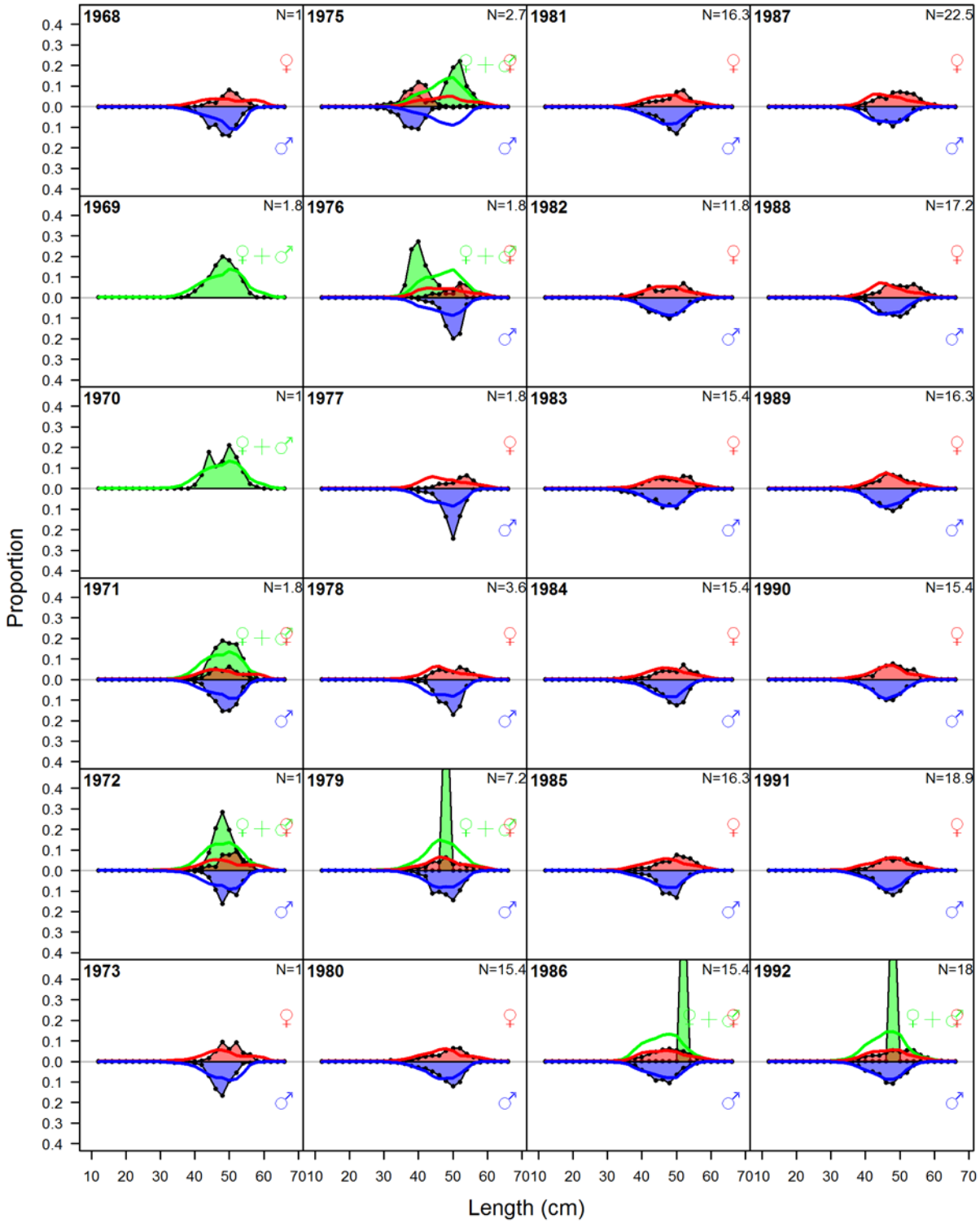


Figure 45 cont.

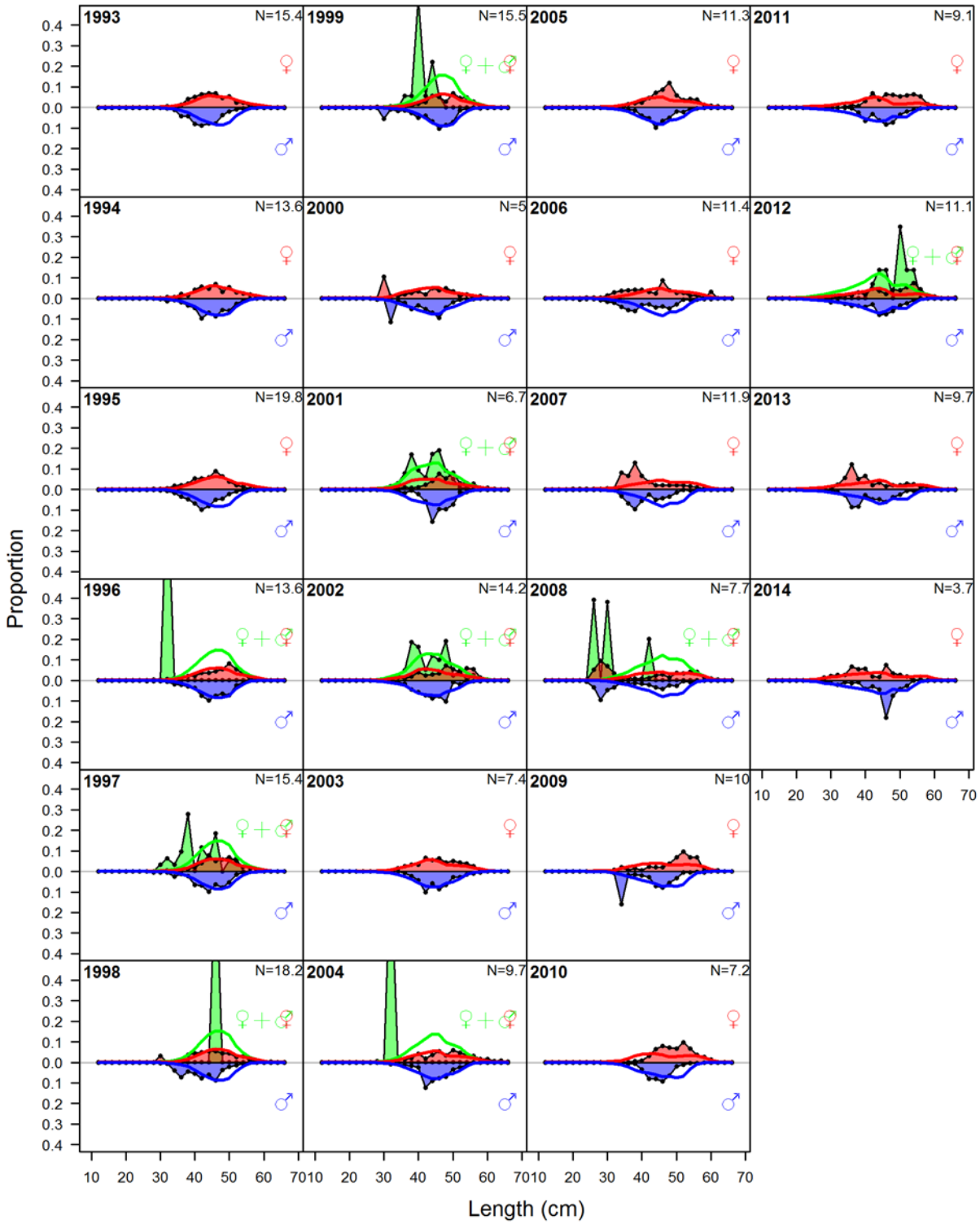


Figure 49– Length composition samples and predictions for fleet 4 (CA Non-trawl)

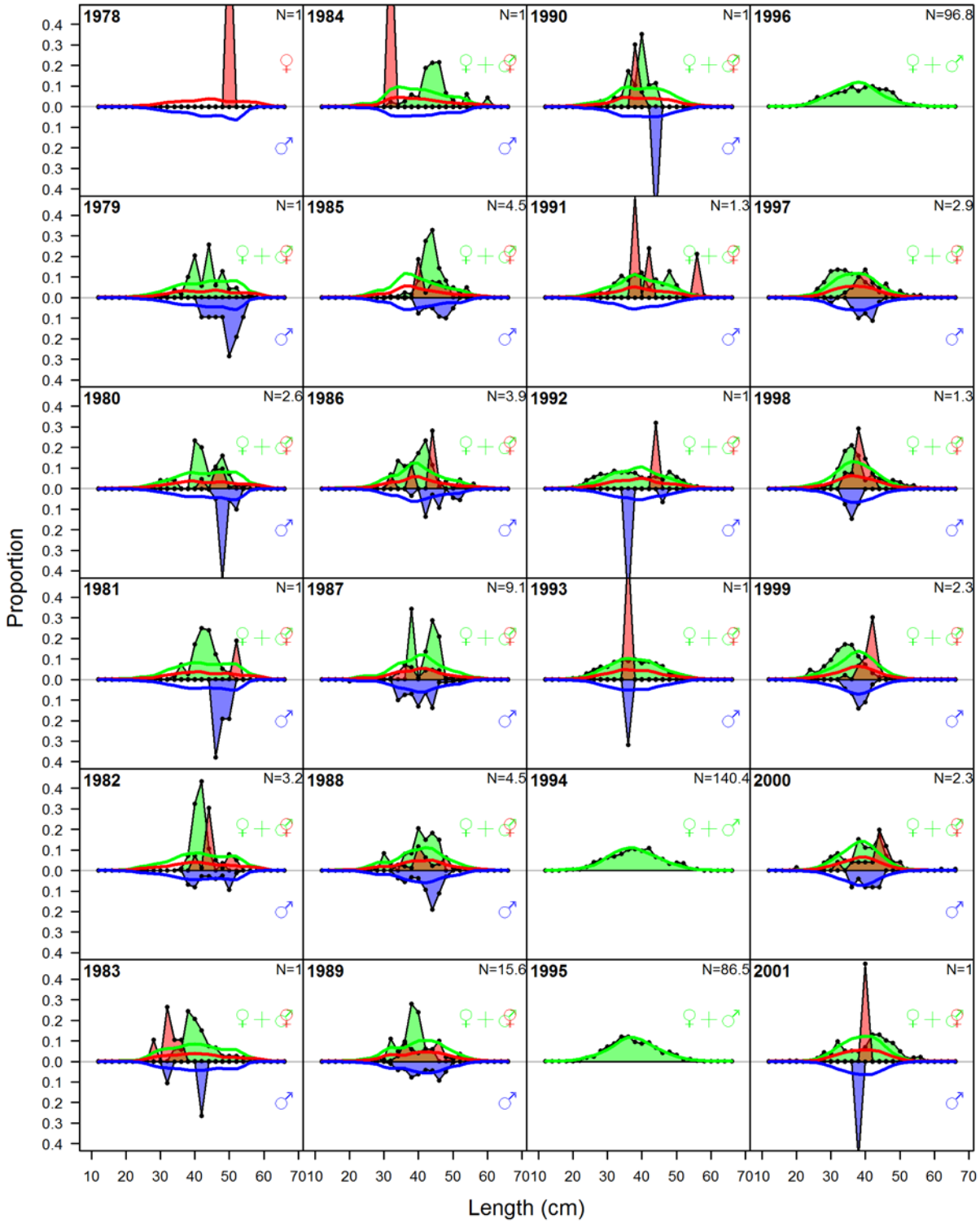


Figure 46 cont.

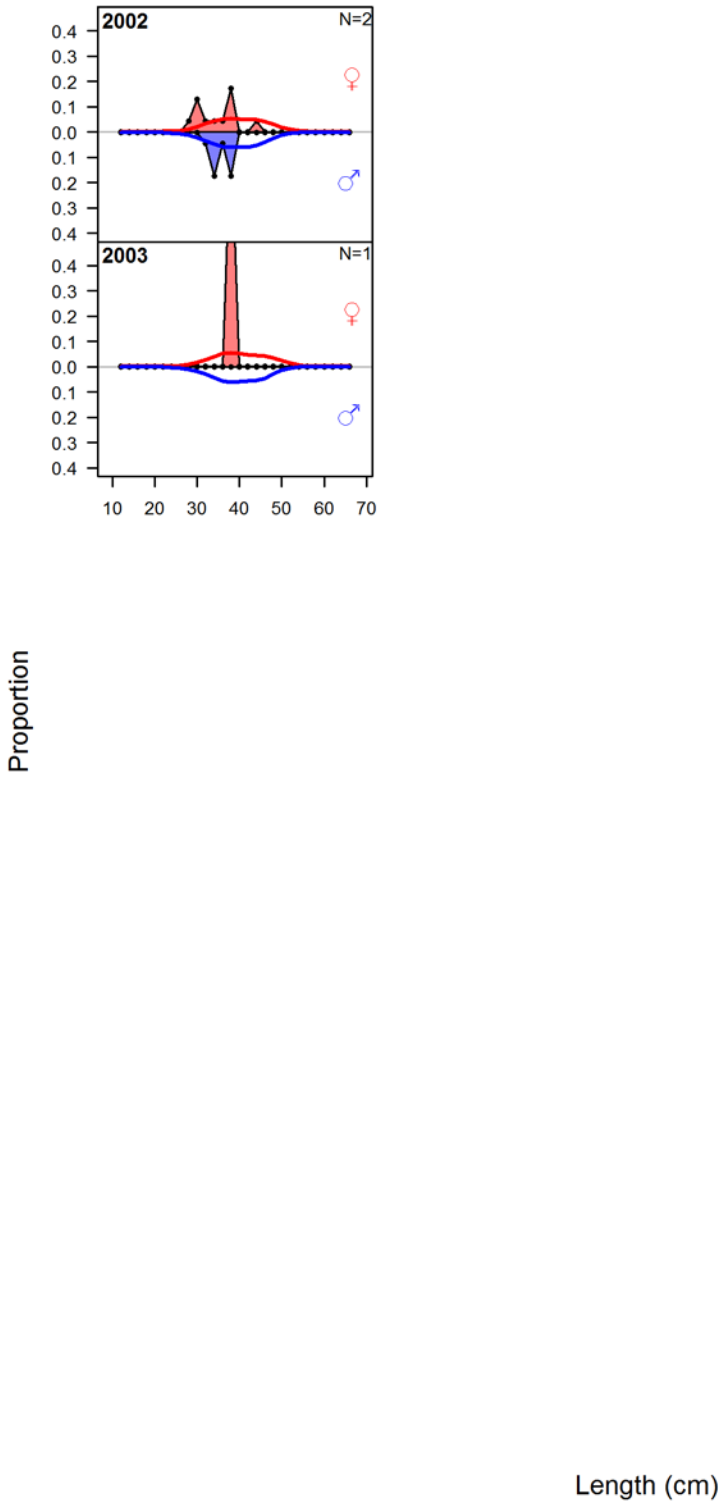


Figure 50– Length composition samples and predictions for fleet 5 (OR Non-trawl)

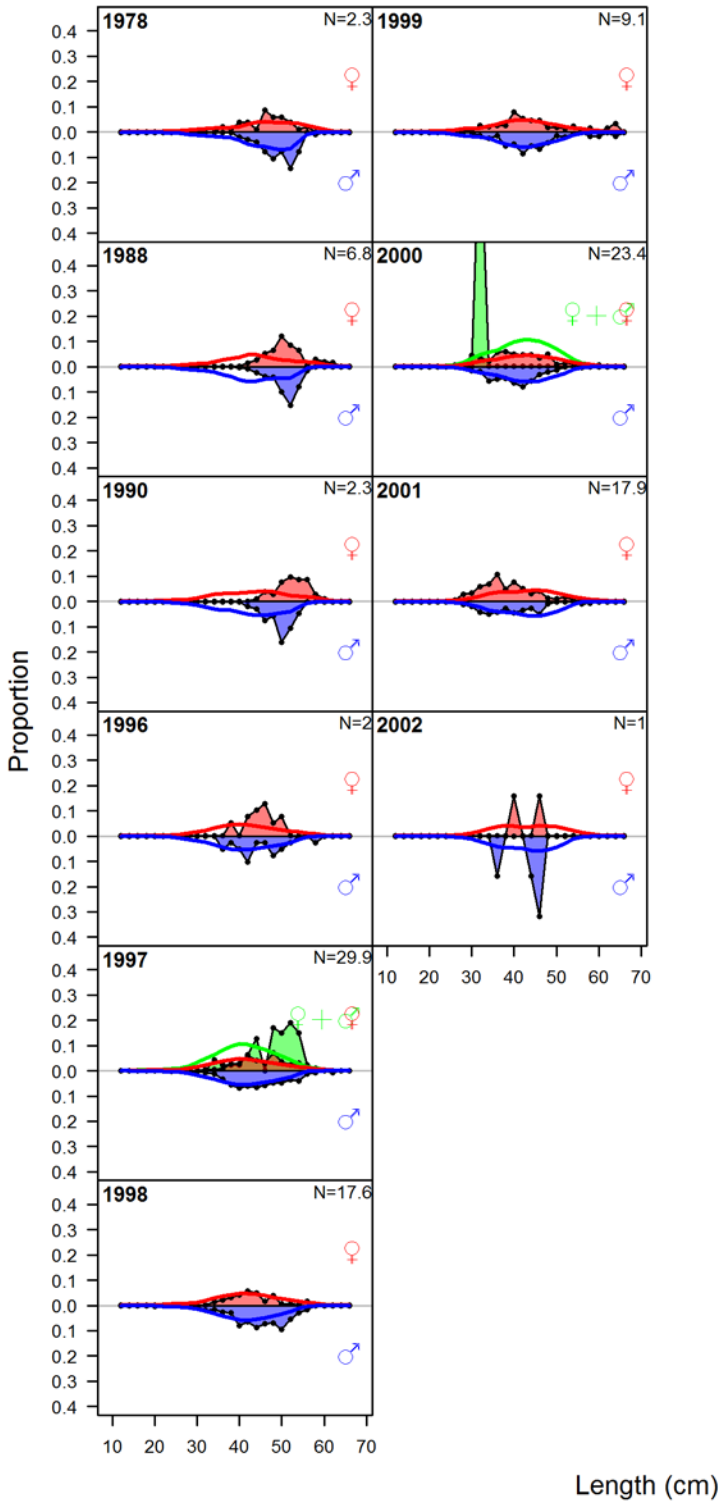


Figure 51– Length composition samples and predictions for fleet 6 (CA Non-trawl)

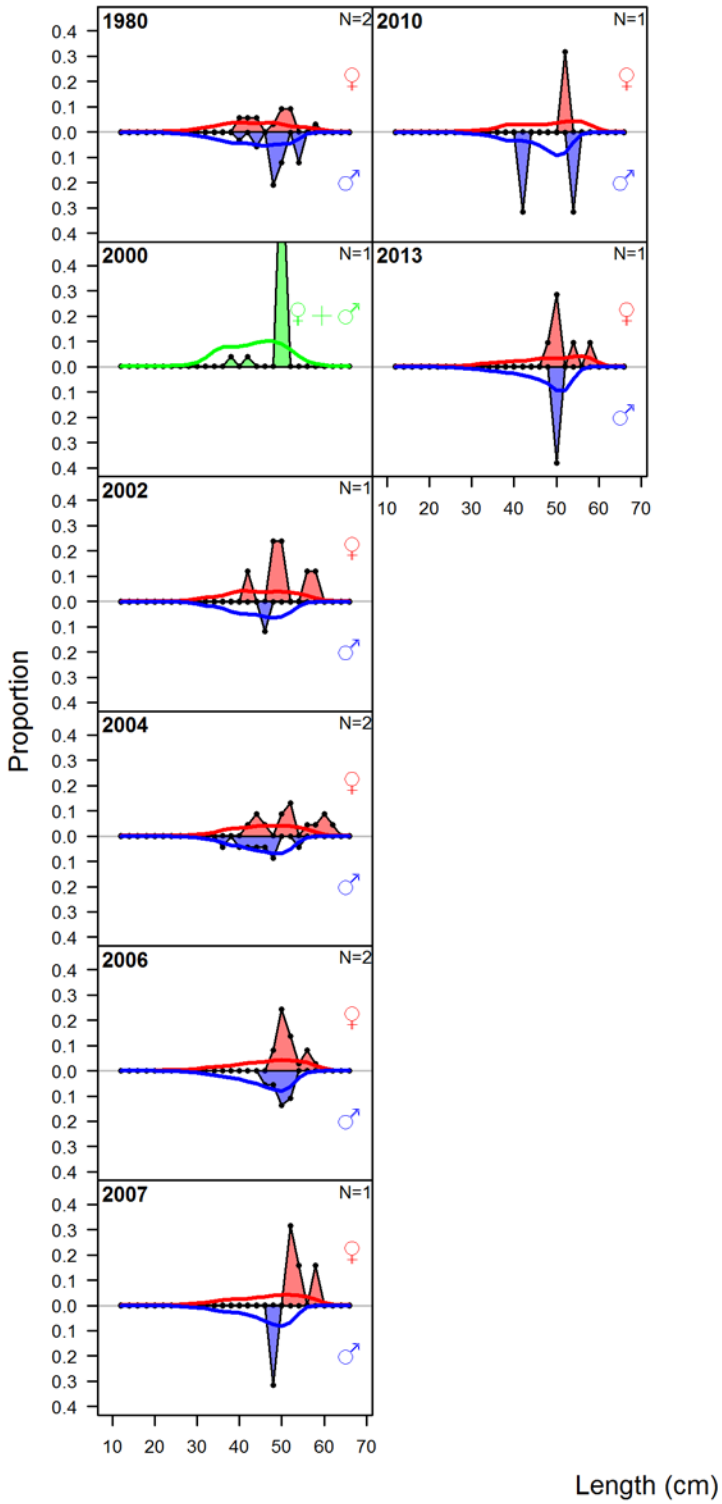


Figure 52– Length composition samples and predictions for fleet 7 (CA Rec)

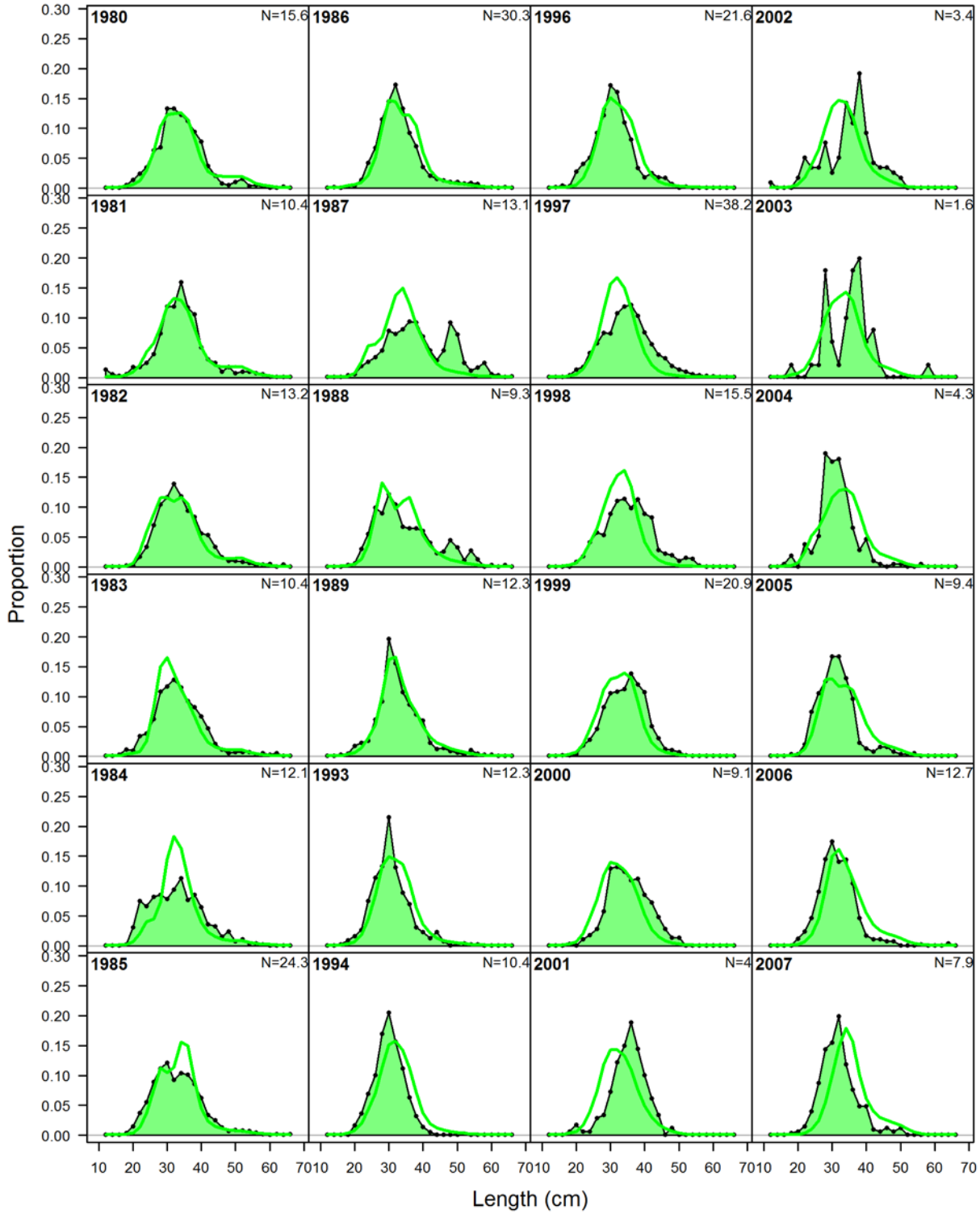


Figure 49 cont.

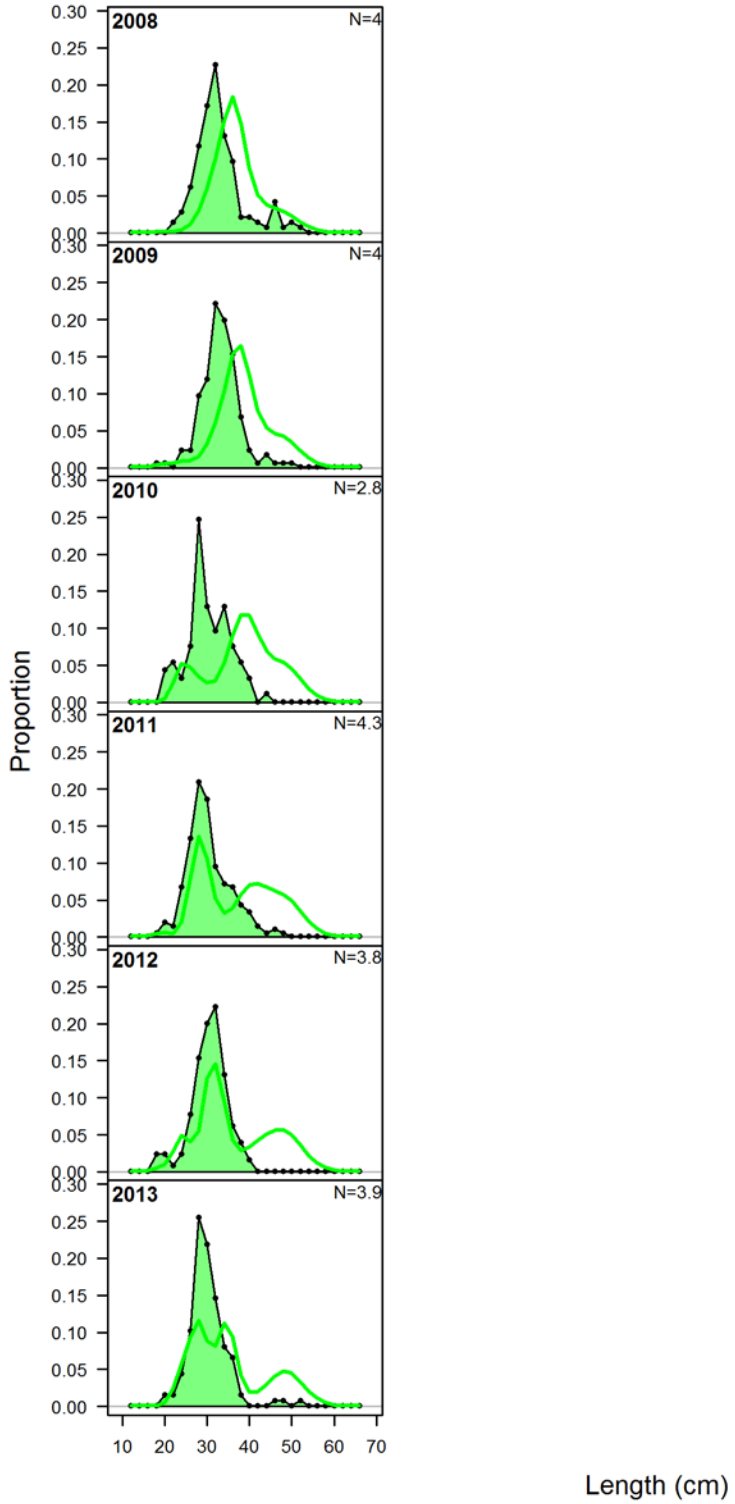


Figure 53– Length composition samples and predictions for fleet 8 (OR Rec)

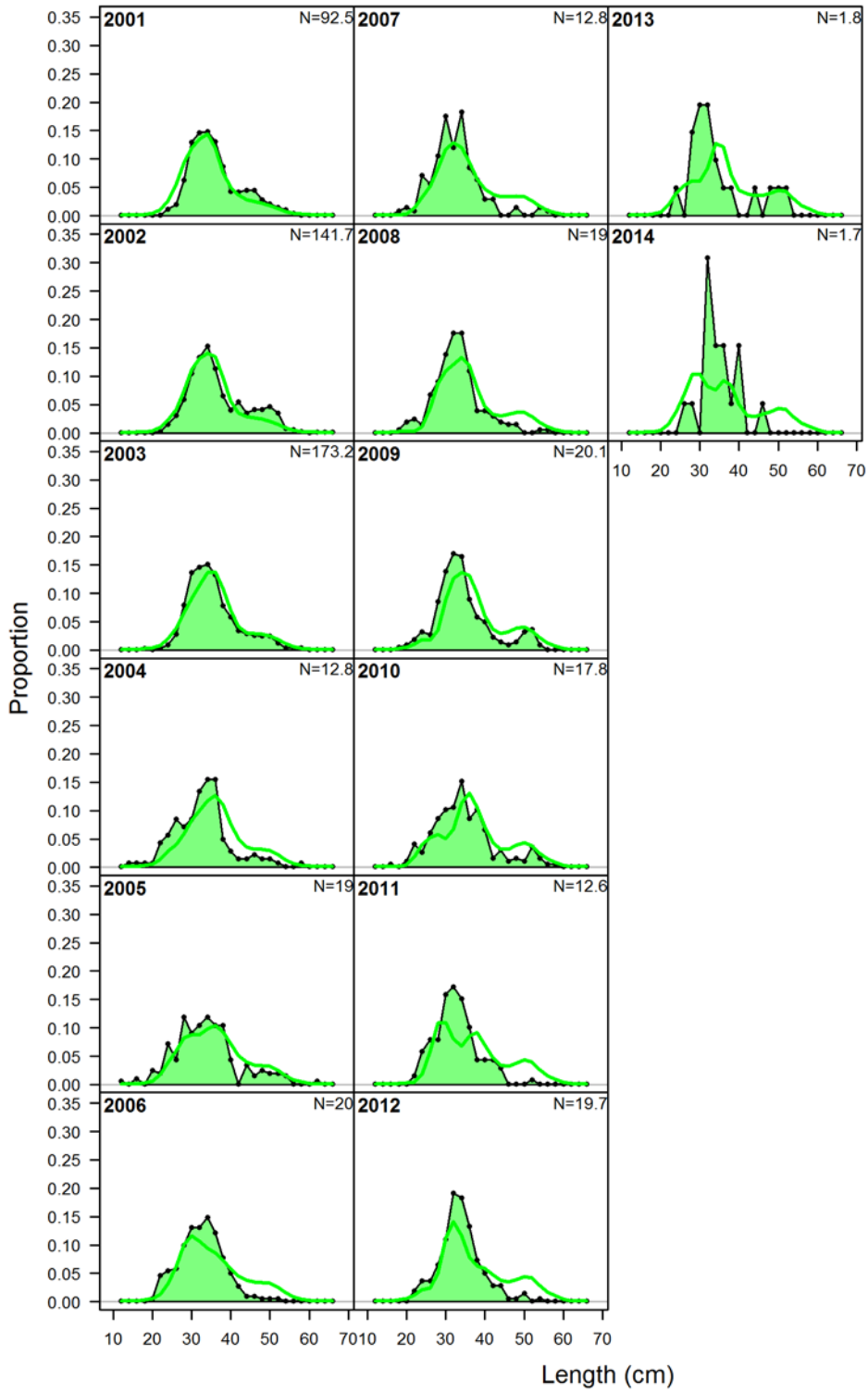


Figure 54 – Length composition samples and predictions for fleet 9 (WA Rec)

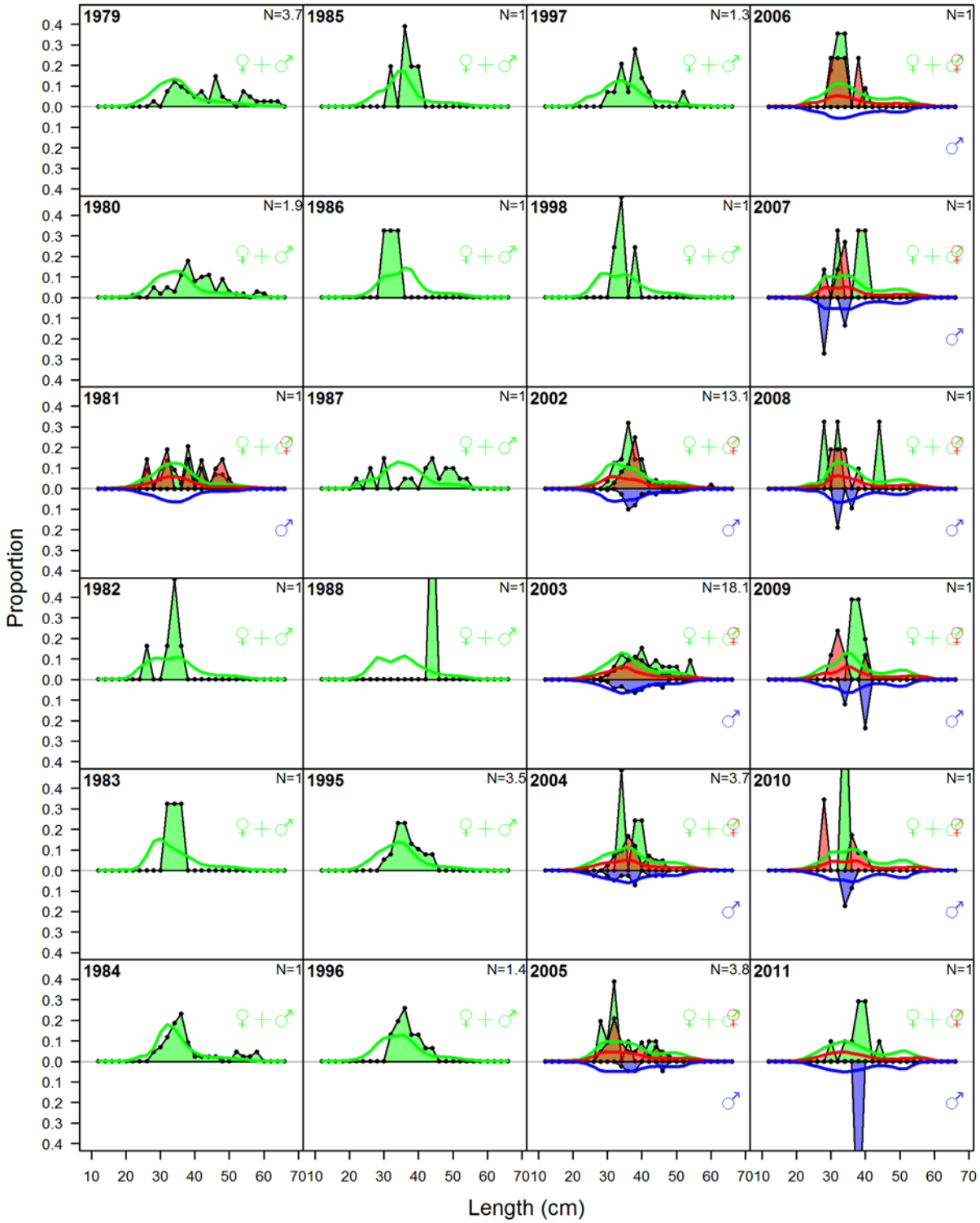


Figure 51 cont.

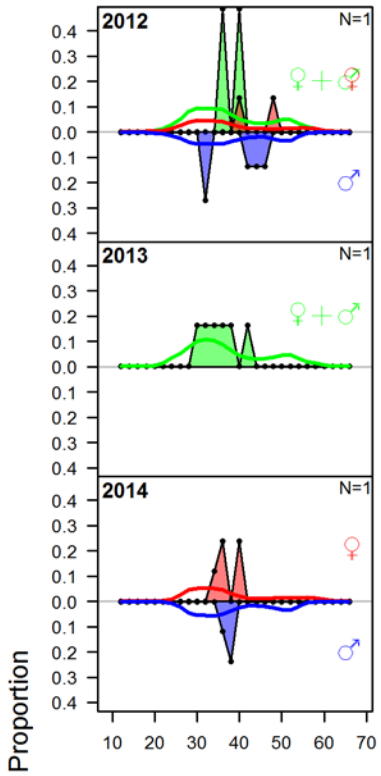


Figure 55 – Length composition samples and predictions for fleet 10 (CA ASHOP)

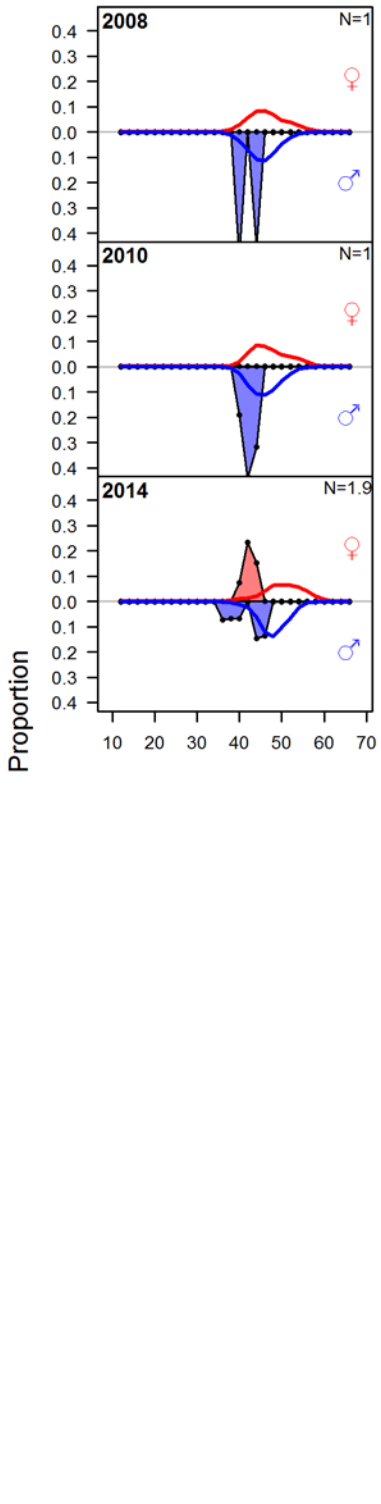


Figure 56 – Length composition samples and predictions for fleet 11 (OR ASHOP)

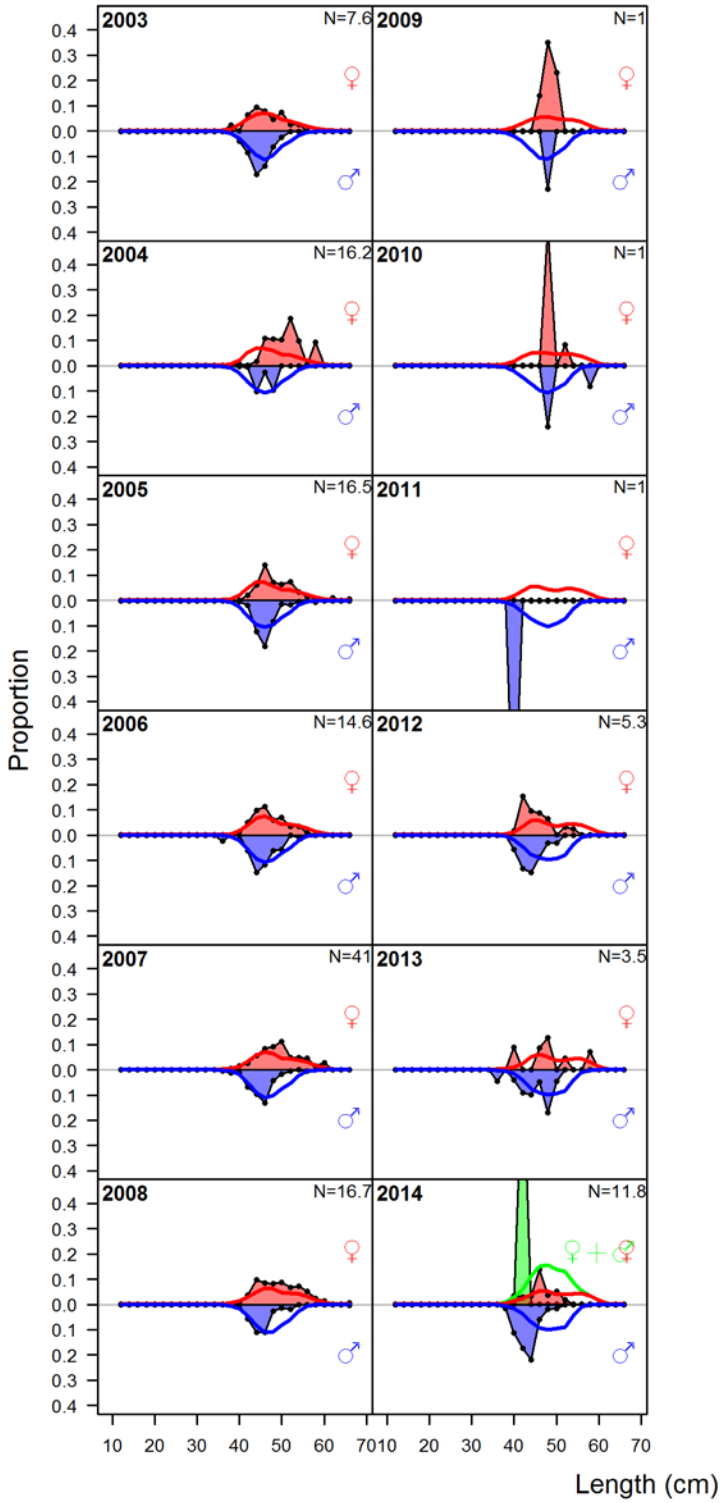


Figure 57 – Length composition samples and predictions for fleet 12 (WA ASHOP)

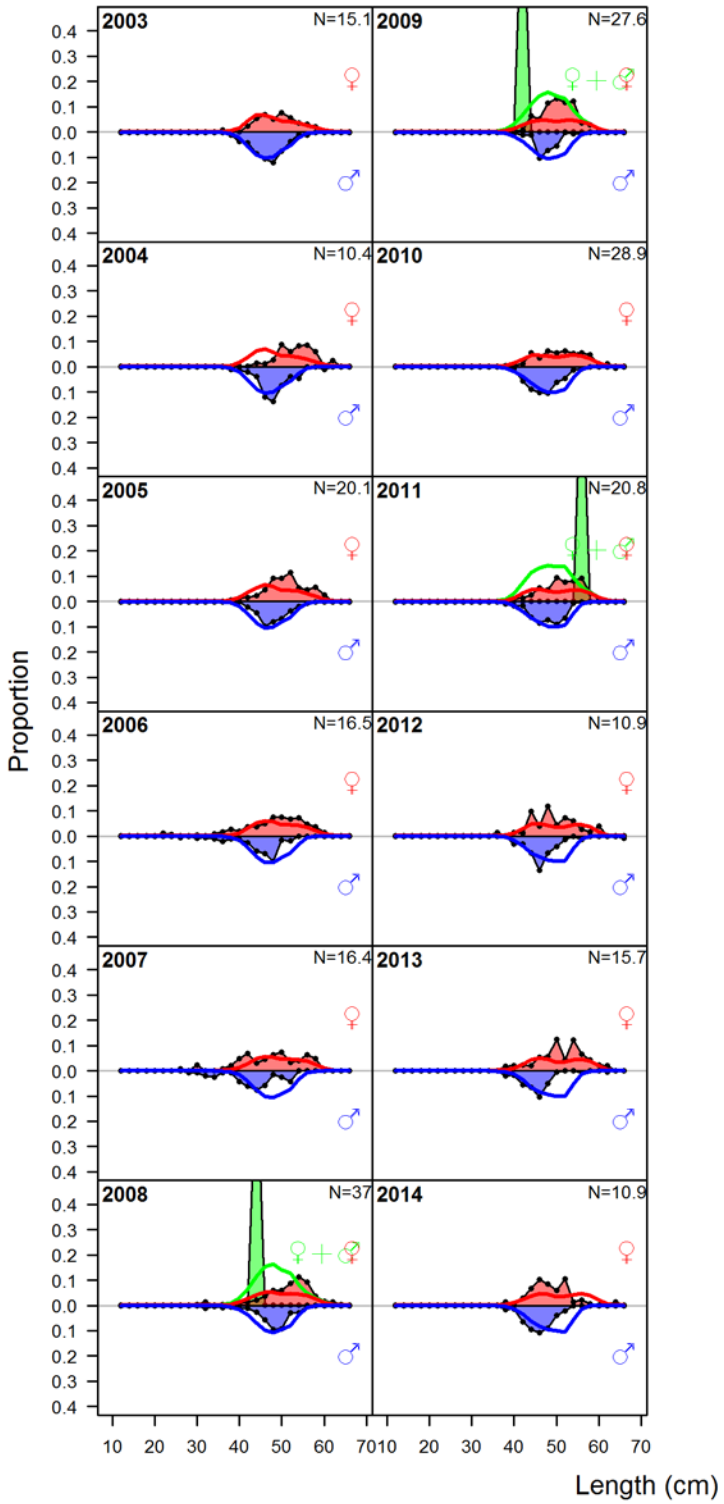


Figure 58 – Length composition samples and predictions for fleet 16 (CA WCGBTS)

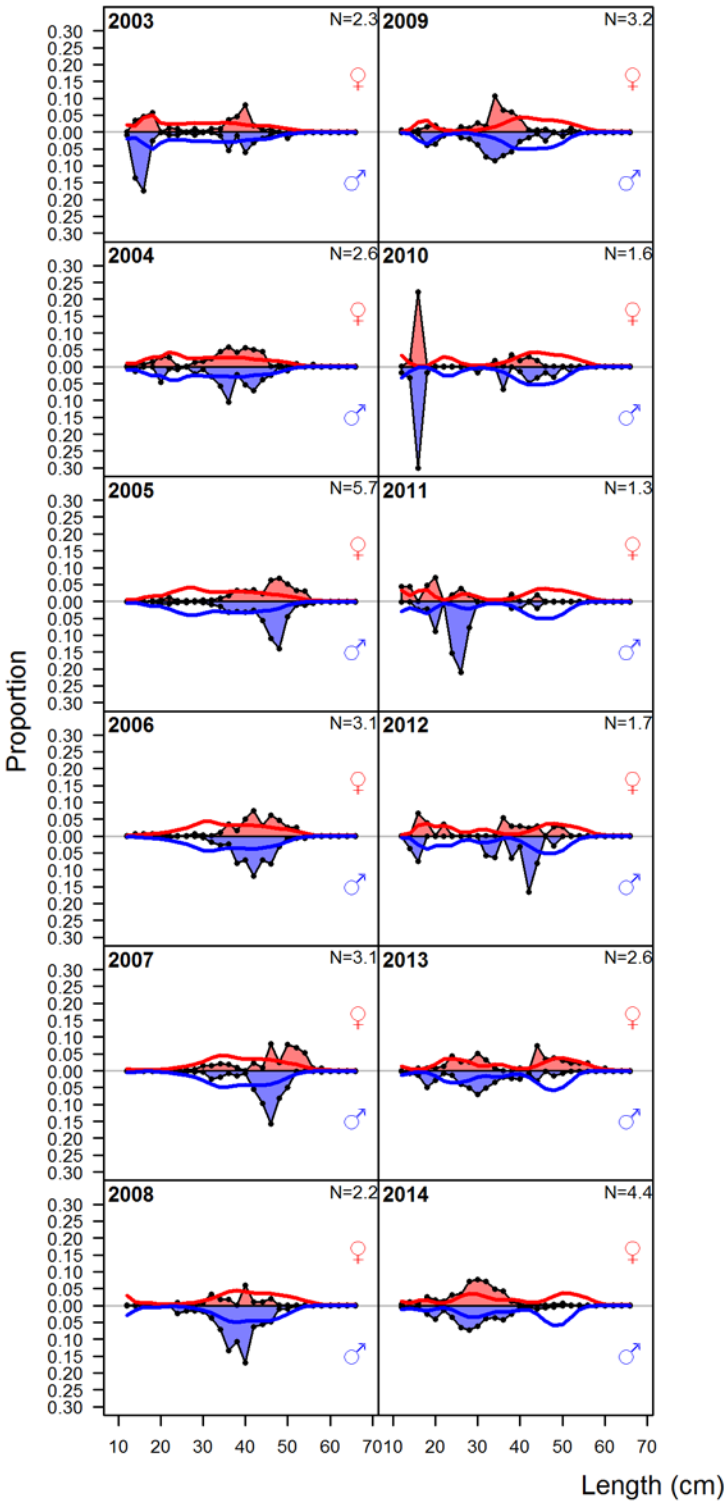


Figure 59 – Length composition samples and predictions for fleet 17 (OR WCGBTS)

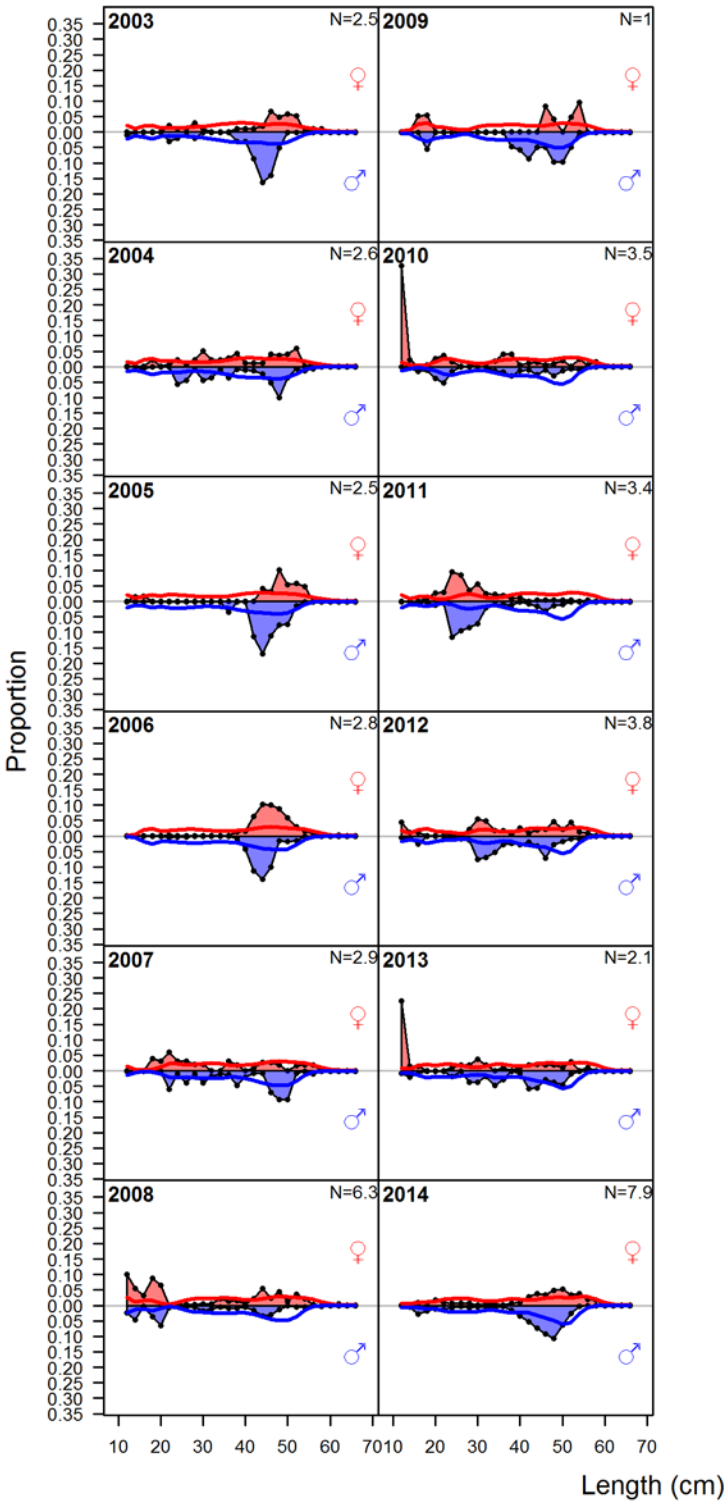


Figure 60 – Length composition samples and predictions for fleet 18 (WA WCGBTS)

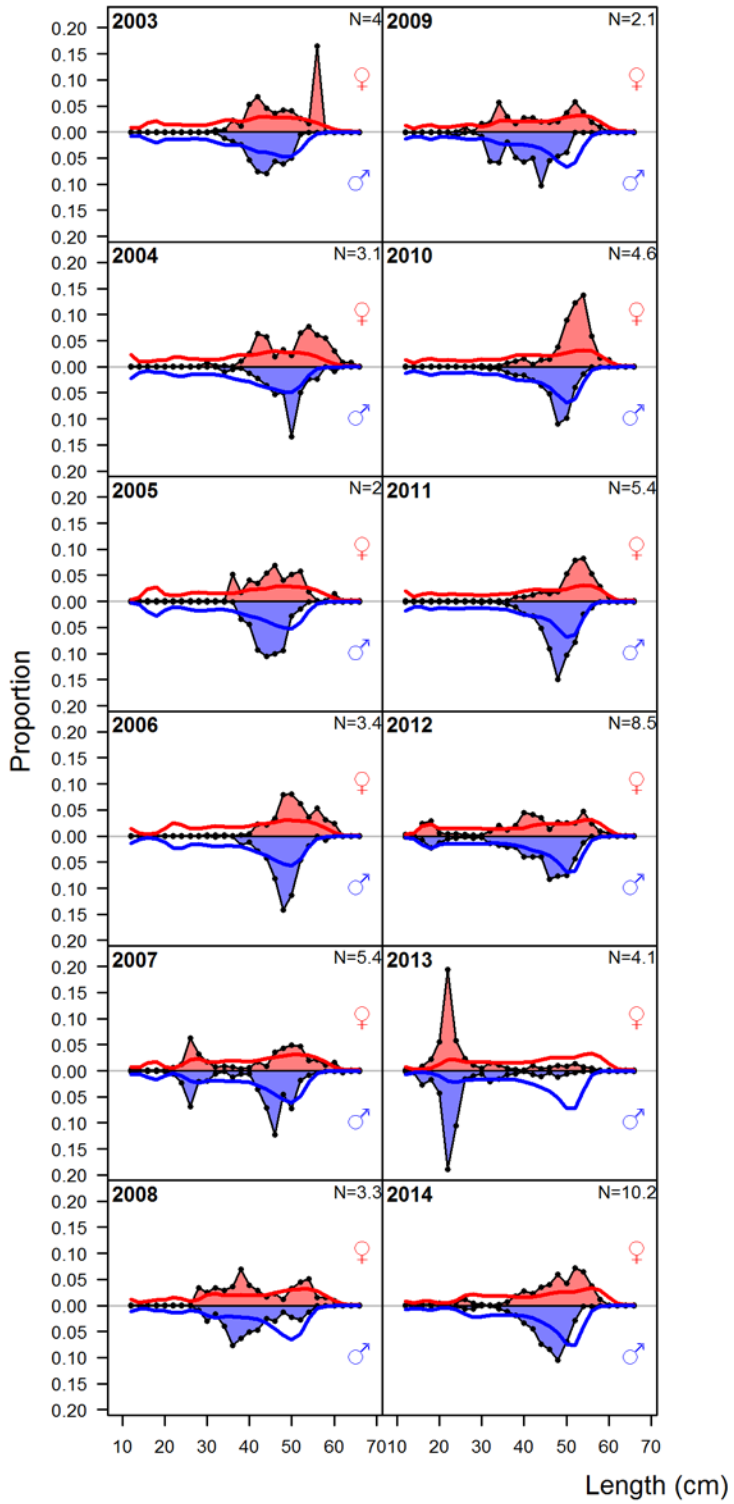


Figure 61 – Length composition samples and predictions for fleet 19 (CA Triennial early)

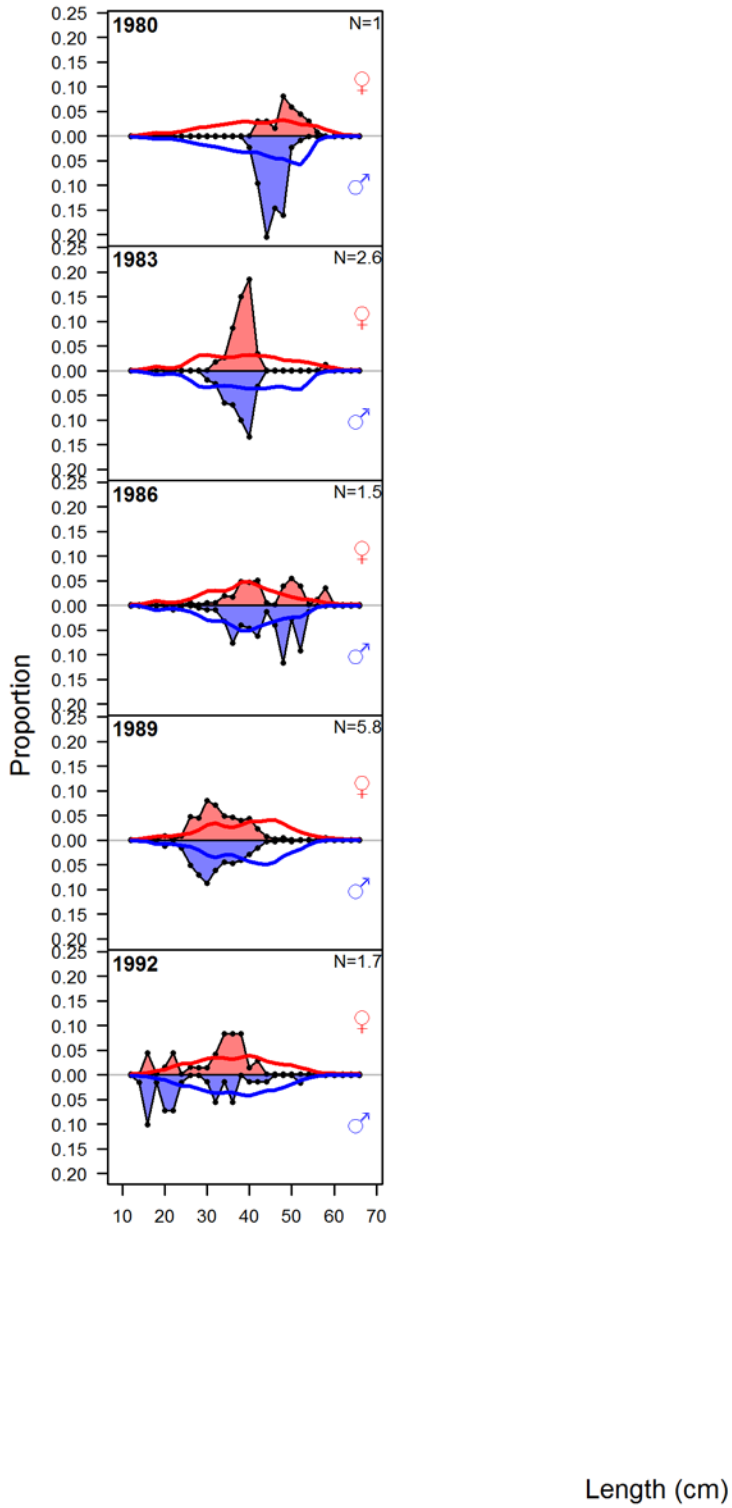


Figure 62 – Length composition samples and predictions for fleet 20 (OR Triennial early)

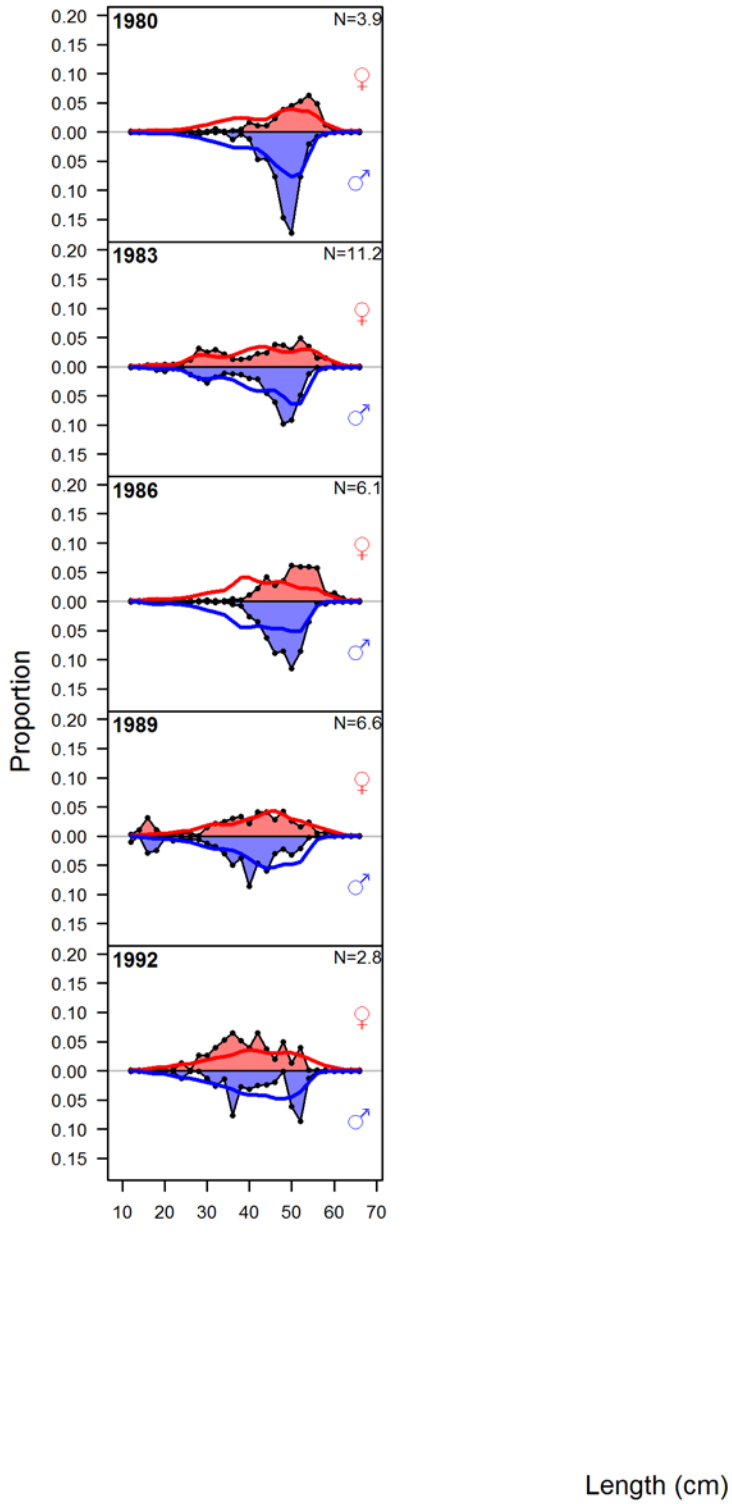


Figure 63 – Length composition samples and predictions for fleet 21 (WA Triennial early)

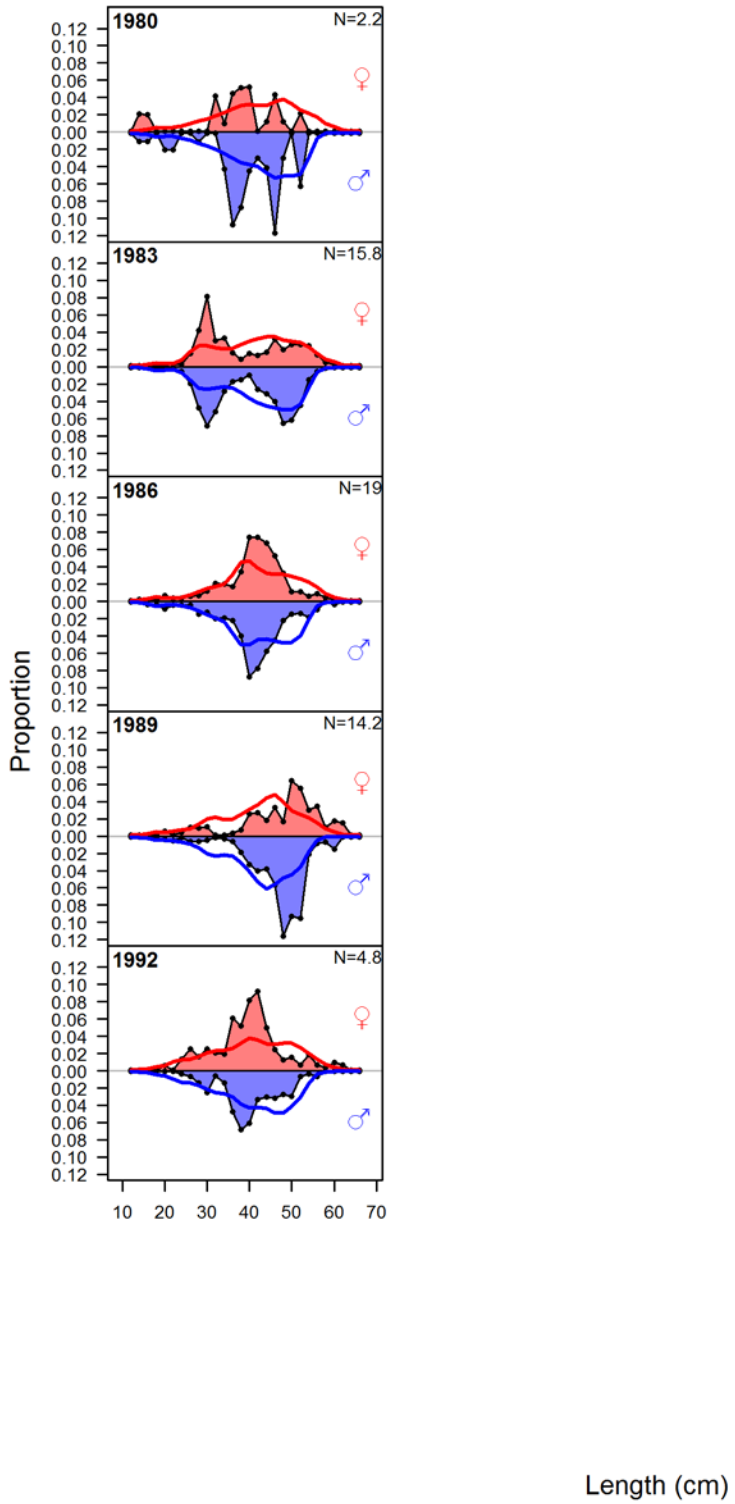


Figure 64 – Length composition samples and predictions for fleet 22 (CA Triennial late)

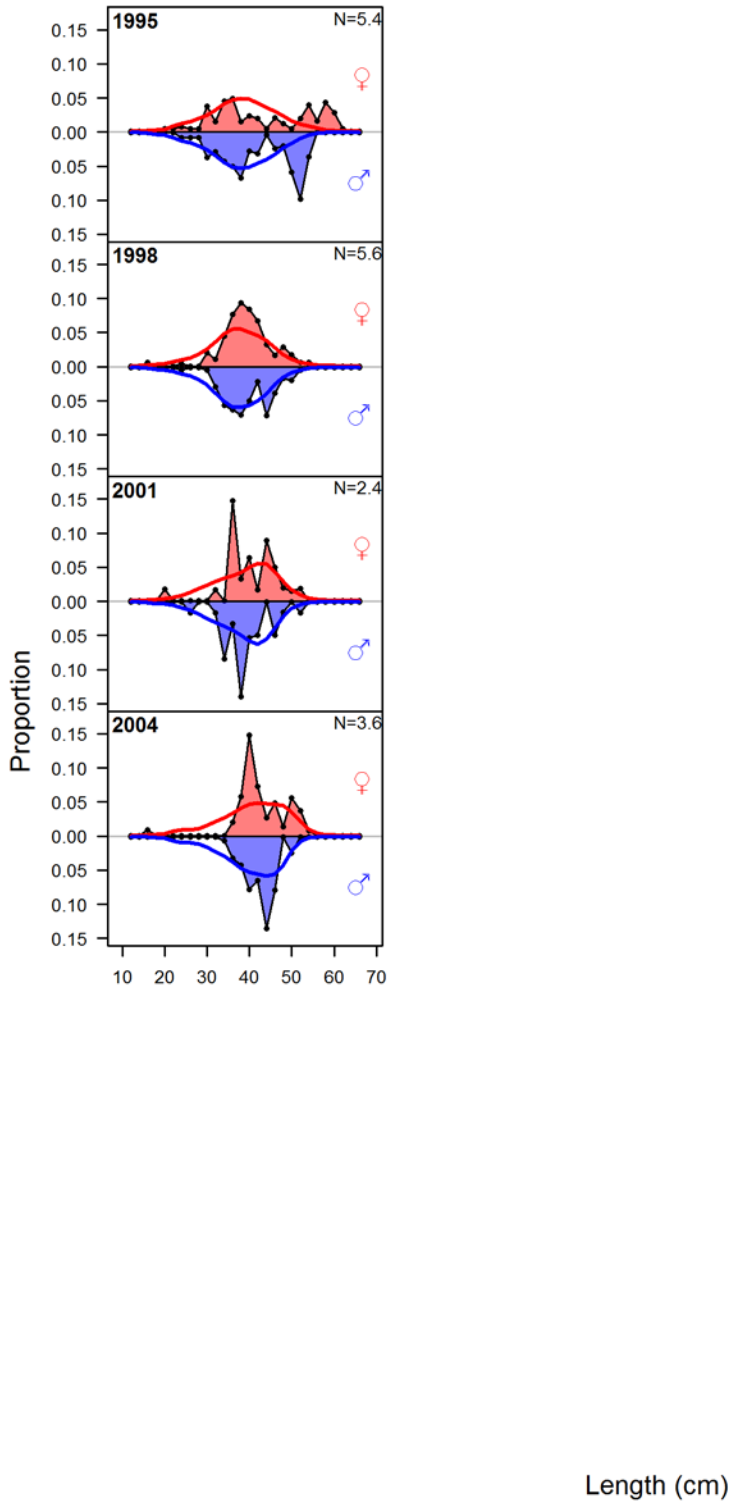


Figure 65 – Length composition samples and predictions for fleet 23 (OR Triennial early)

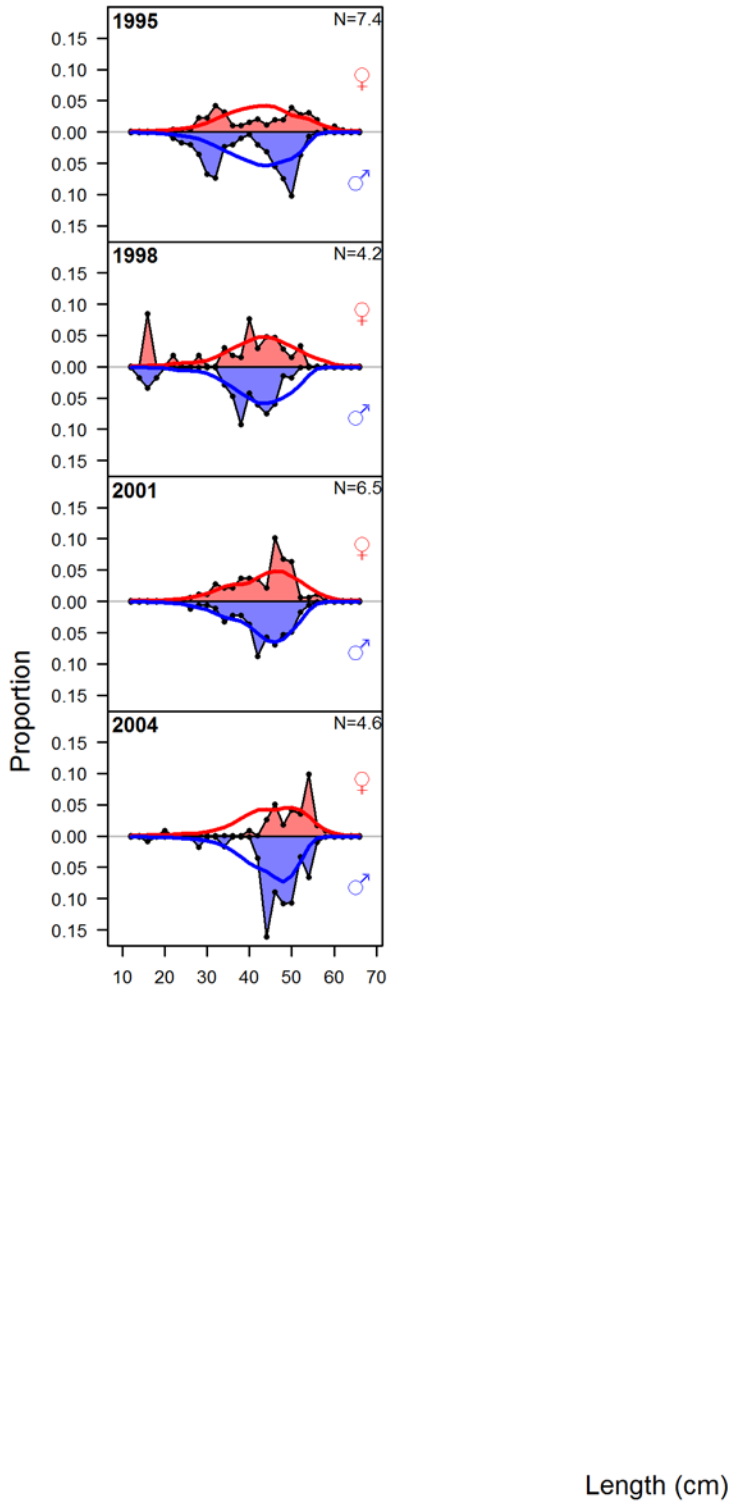


Figure 66 – Length composition samples and predictions for fleet 24 (WA Triennial early)

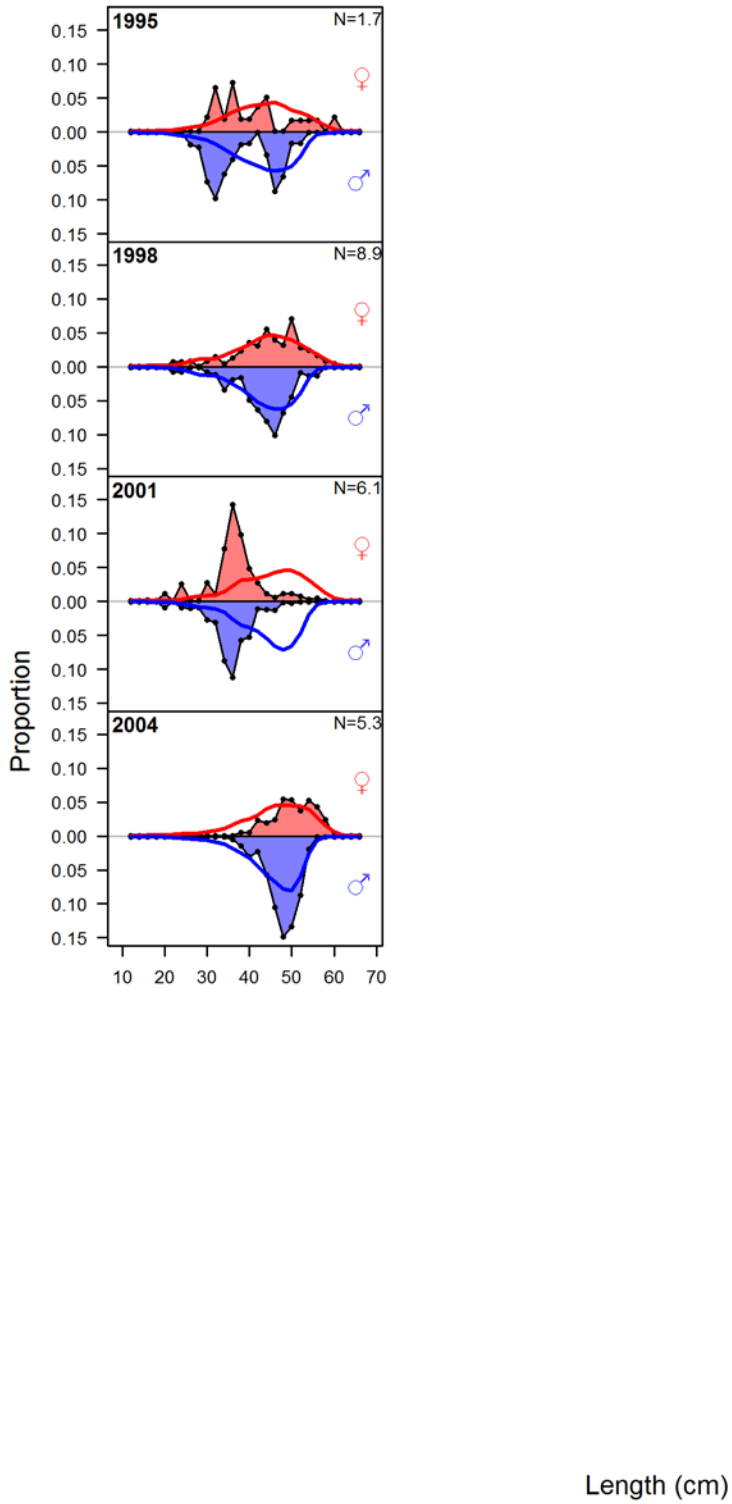


Figure 67 – Age composition samples and predictions for all fleets aggregated across all years of available data

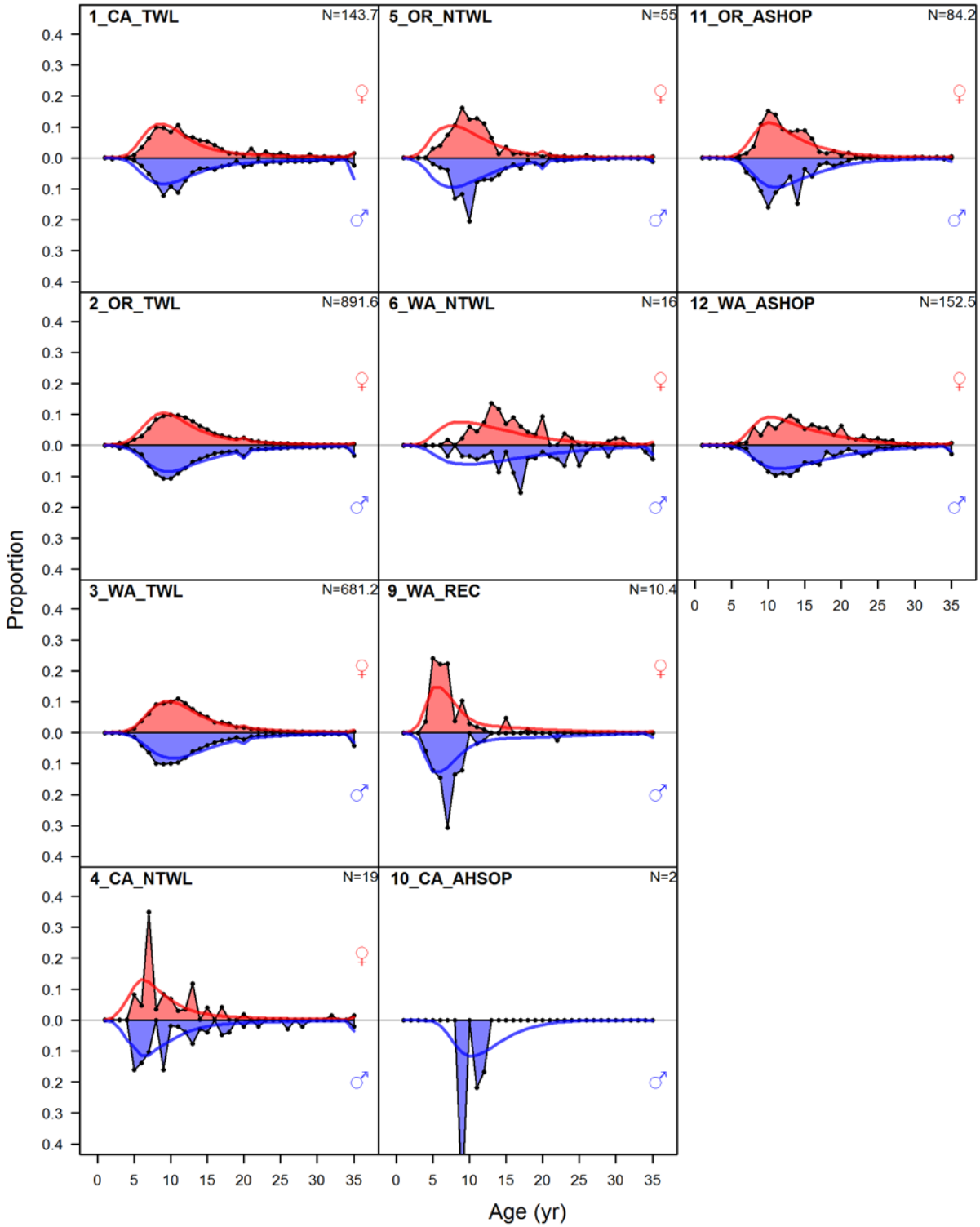


Figure 68 – Age composition samples and predictions for fleet 1 (CA Trawl)

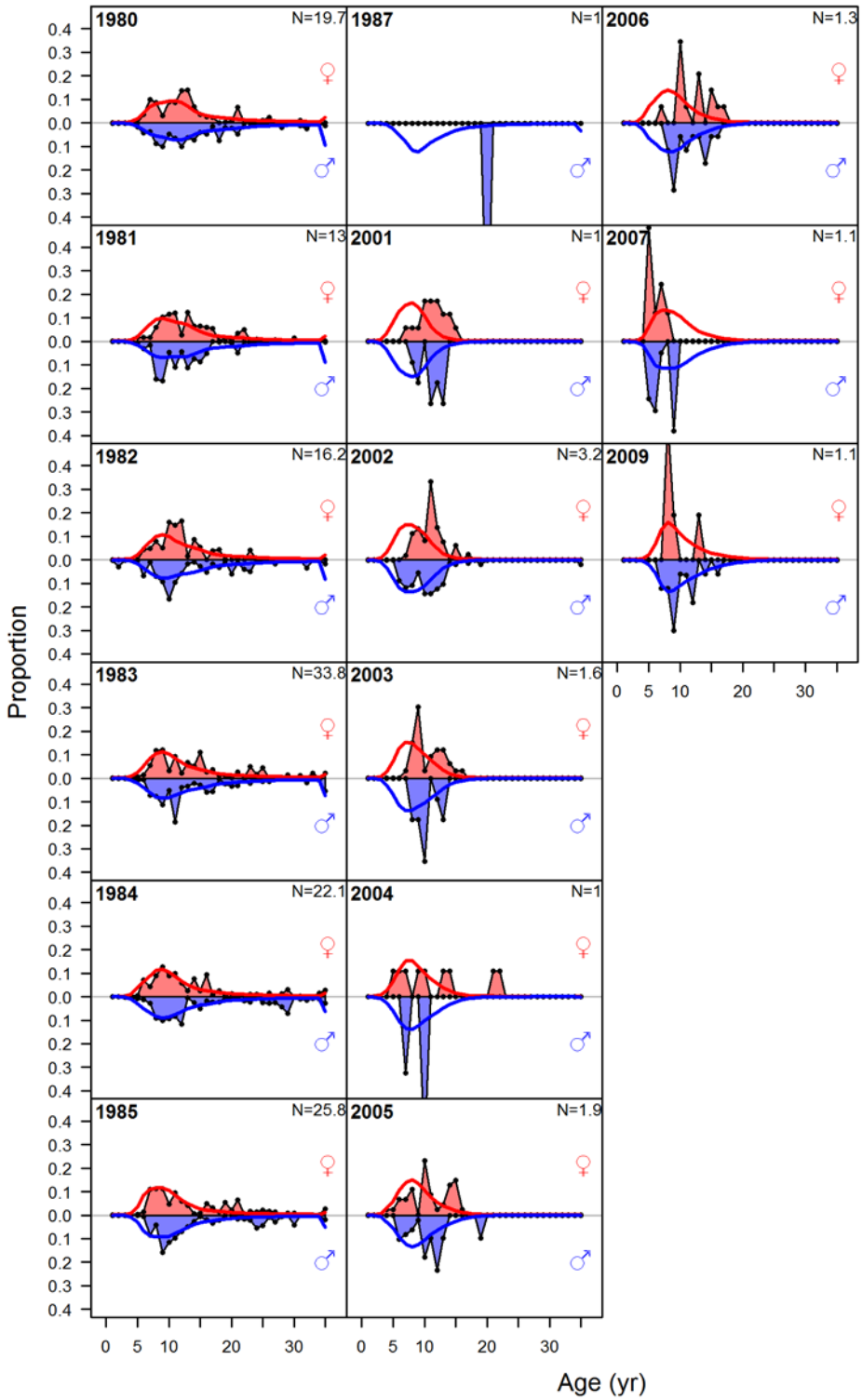


Figure 69 – Age composition samples and predictions for fleet 2 (OR Trawl), where years followed by "a4" (e.g., "1973a4") are using ageing error pattern 4 (i.e., the surface read pattern), whereas years followed by "a1" (e.g., 1980a1") are using ageing error pattern 1 (i.e., the break-and-burn pattern for ODFW/CAPS), and years followed by "a2" (not shown in this panel) are using ageing error pattern 2 (i.e., break-and-burn for WDFW)

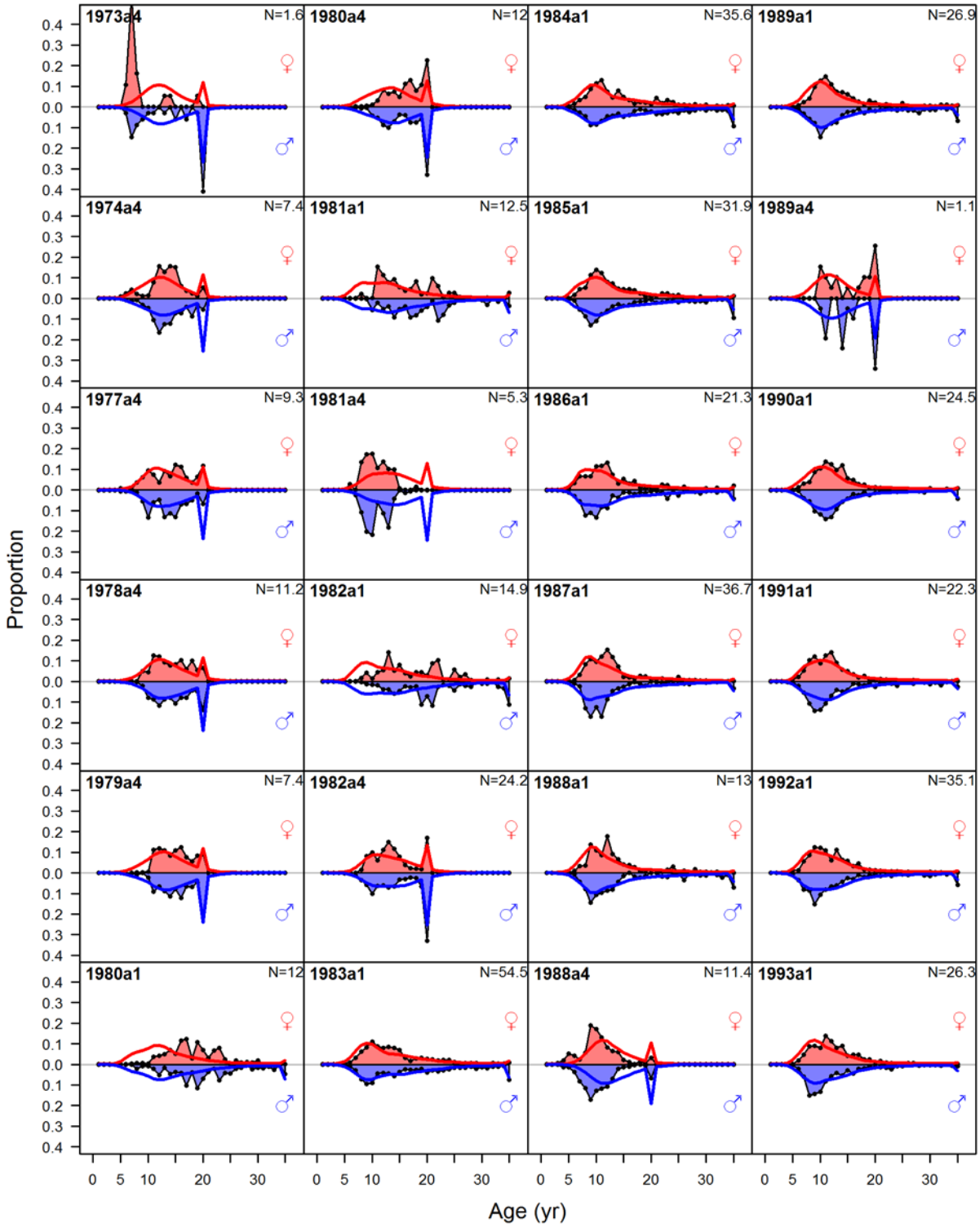


Figure 66 cont.

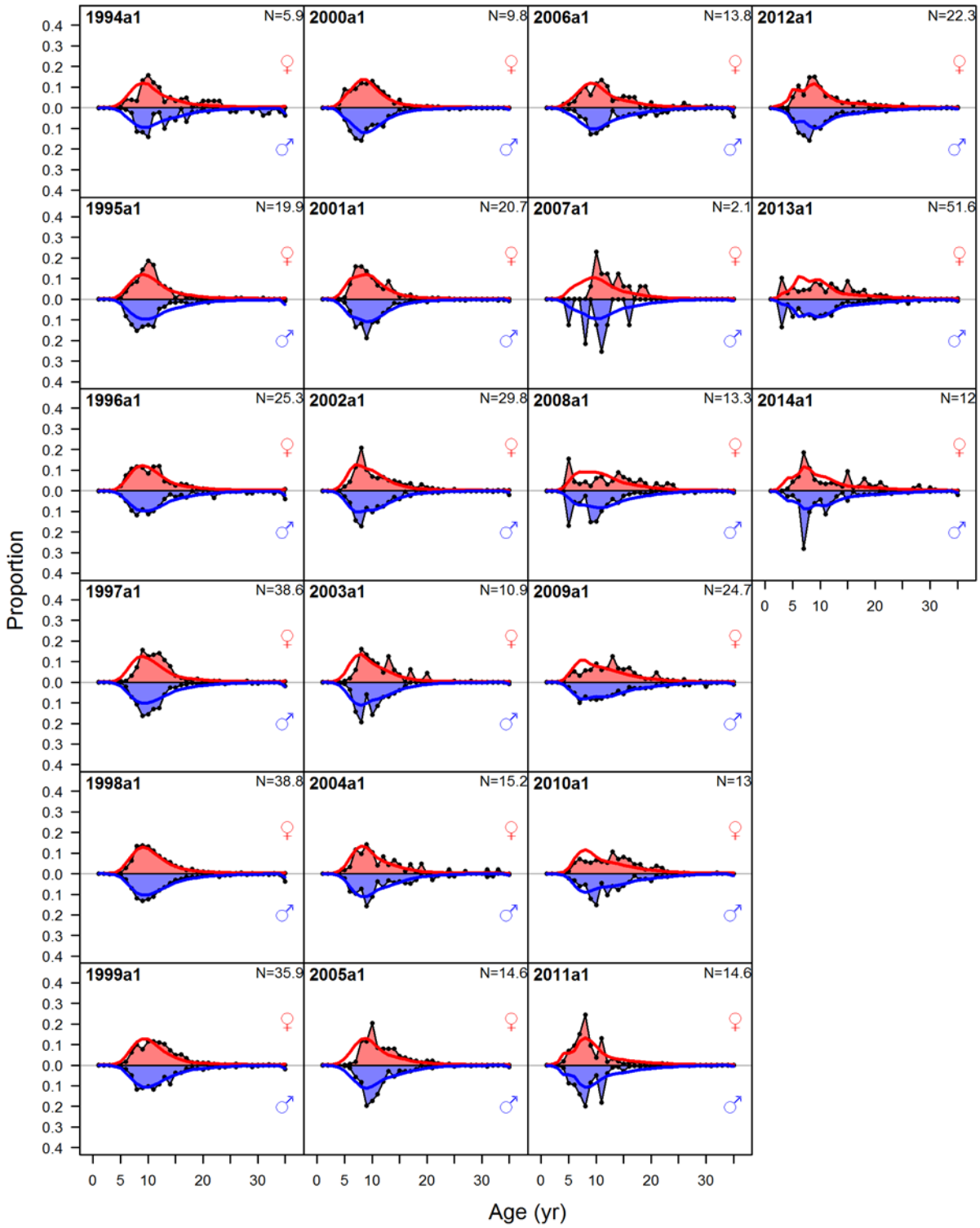


Figure 70 -- Age composition samples and predictions for fleet 3 (WA Trawl)

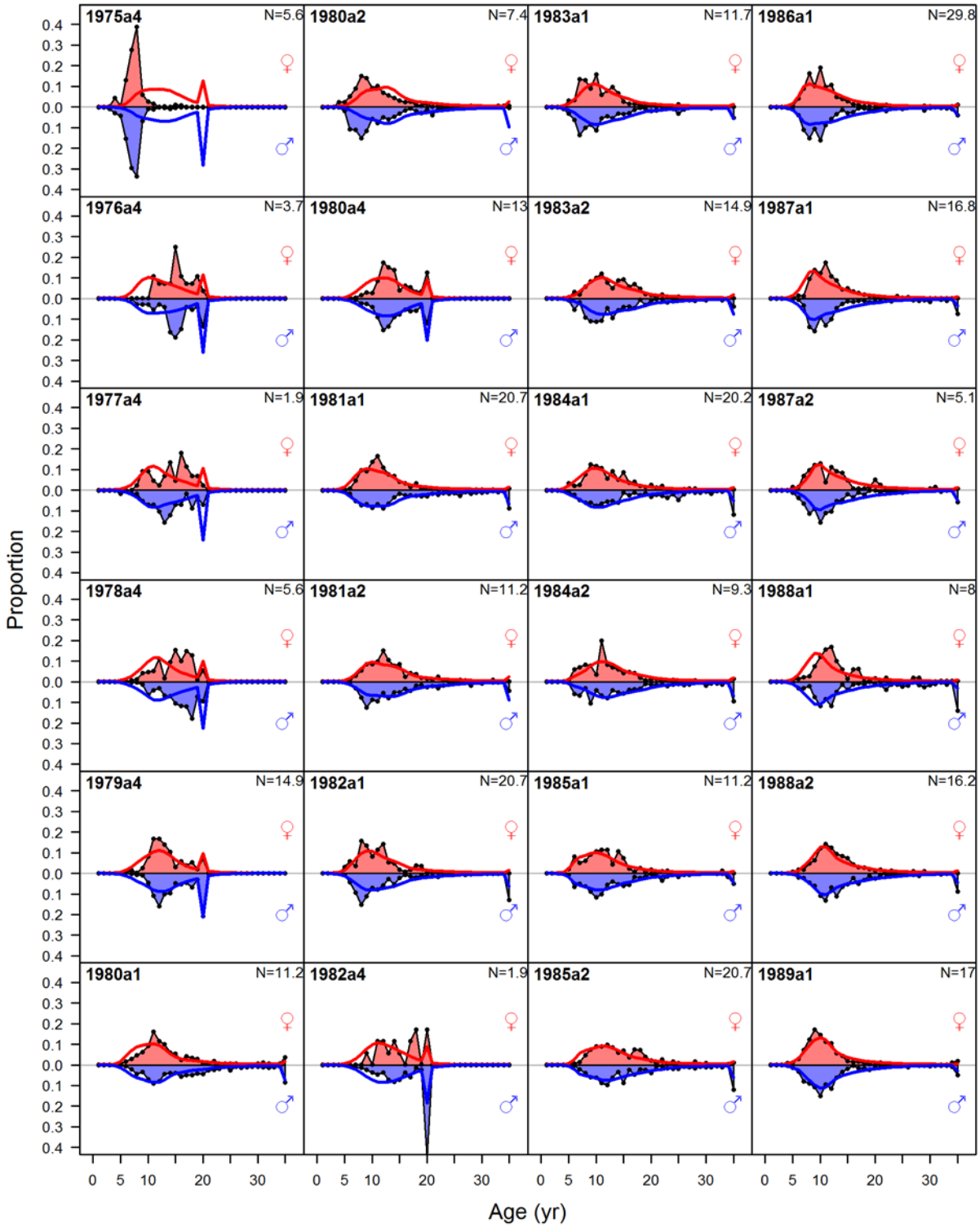


Figure 67 cont.

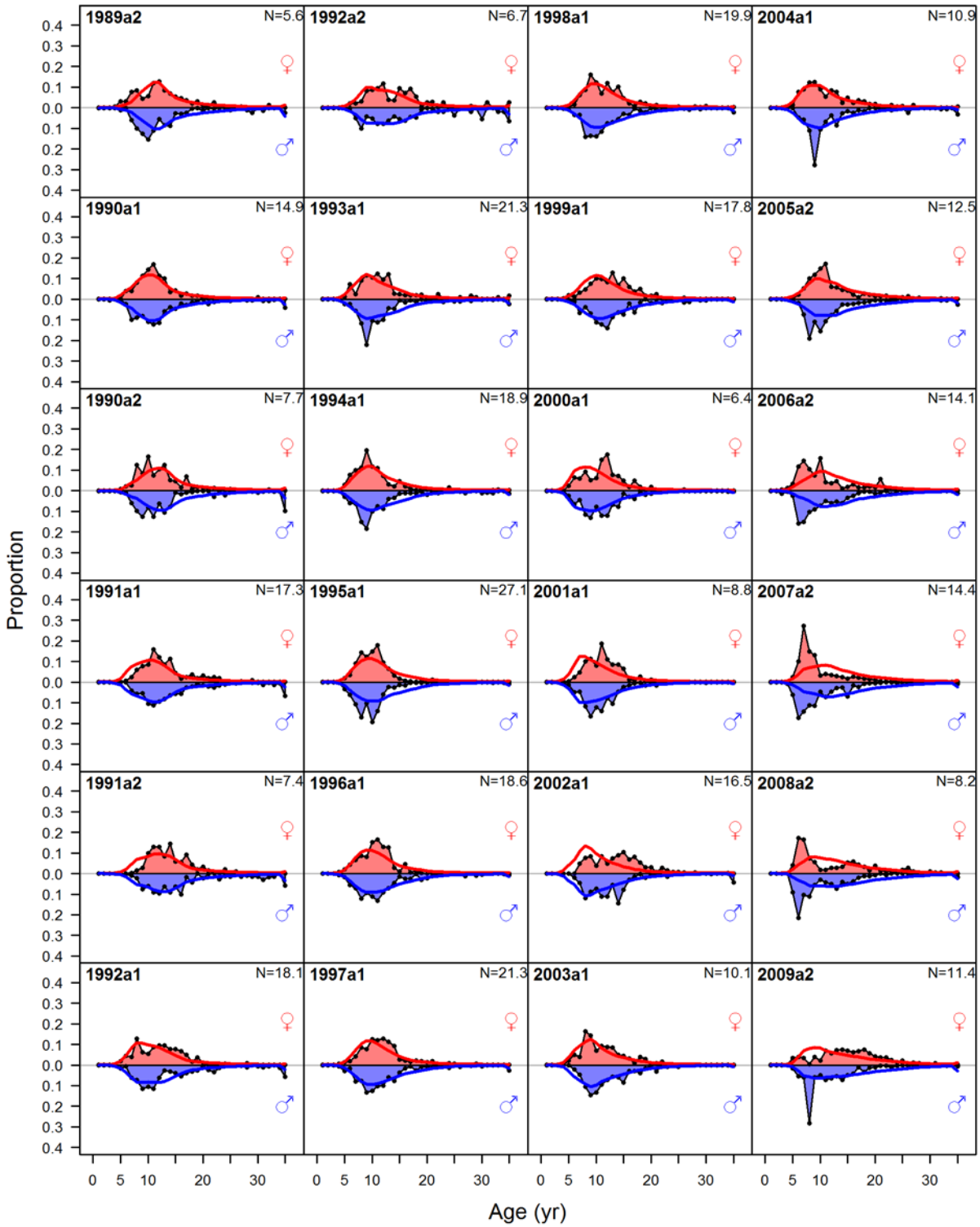


Figure 67 cont.

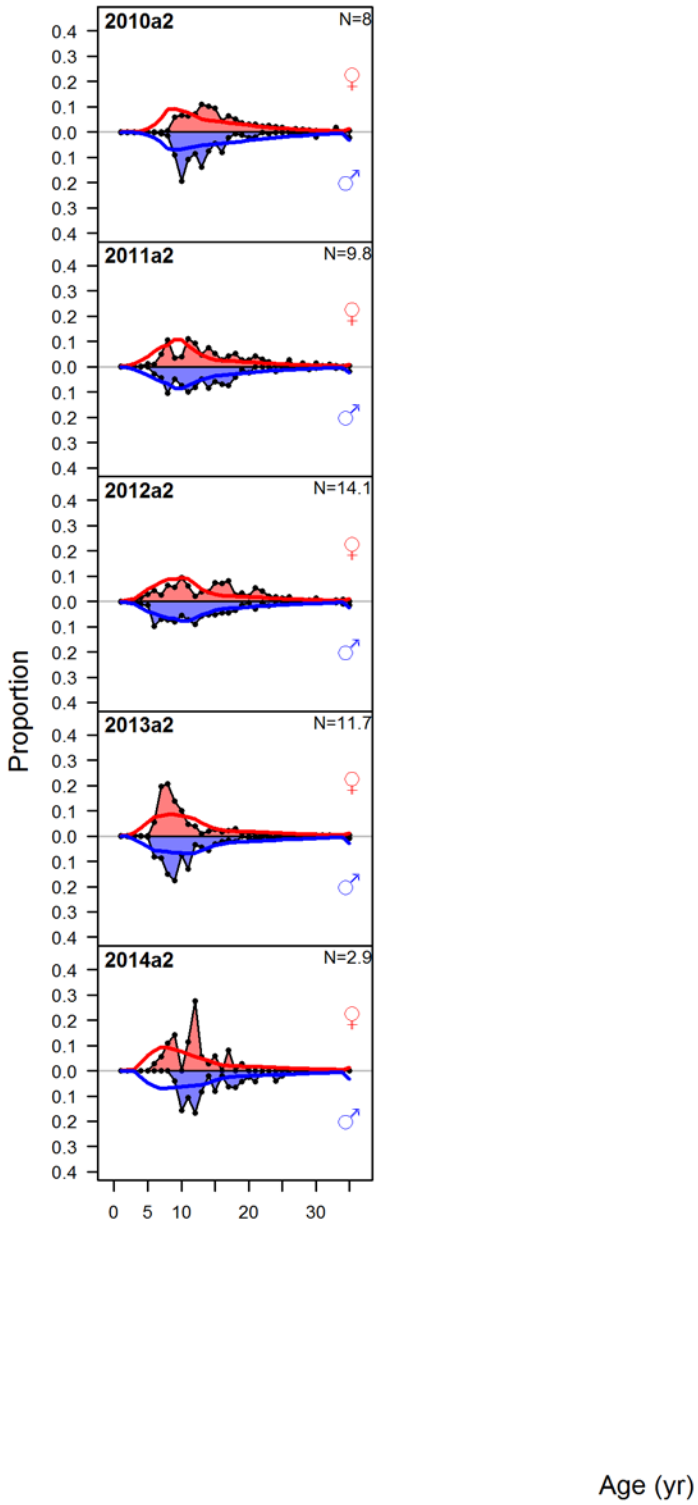


Figure 71– Age composition samples and predictions for fleet 4 (CA Non-trawl)

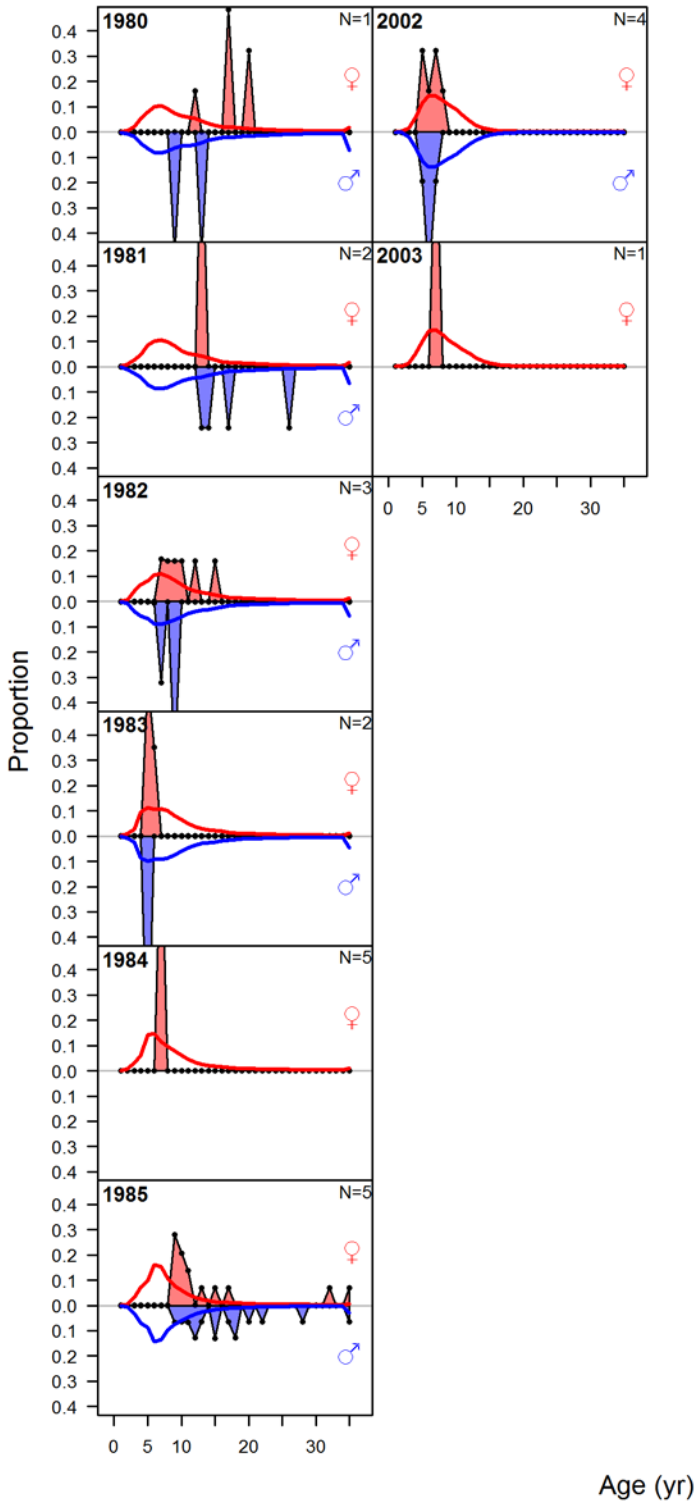


Figure 72– Age composition samples and predictions for fleet 5 (OR Non-trawl)

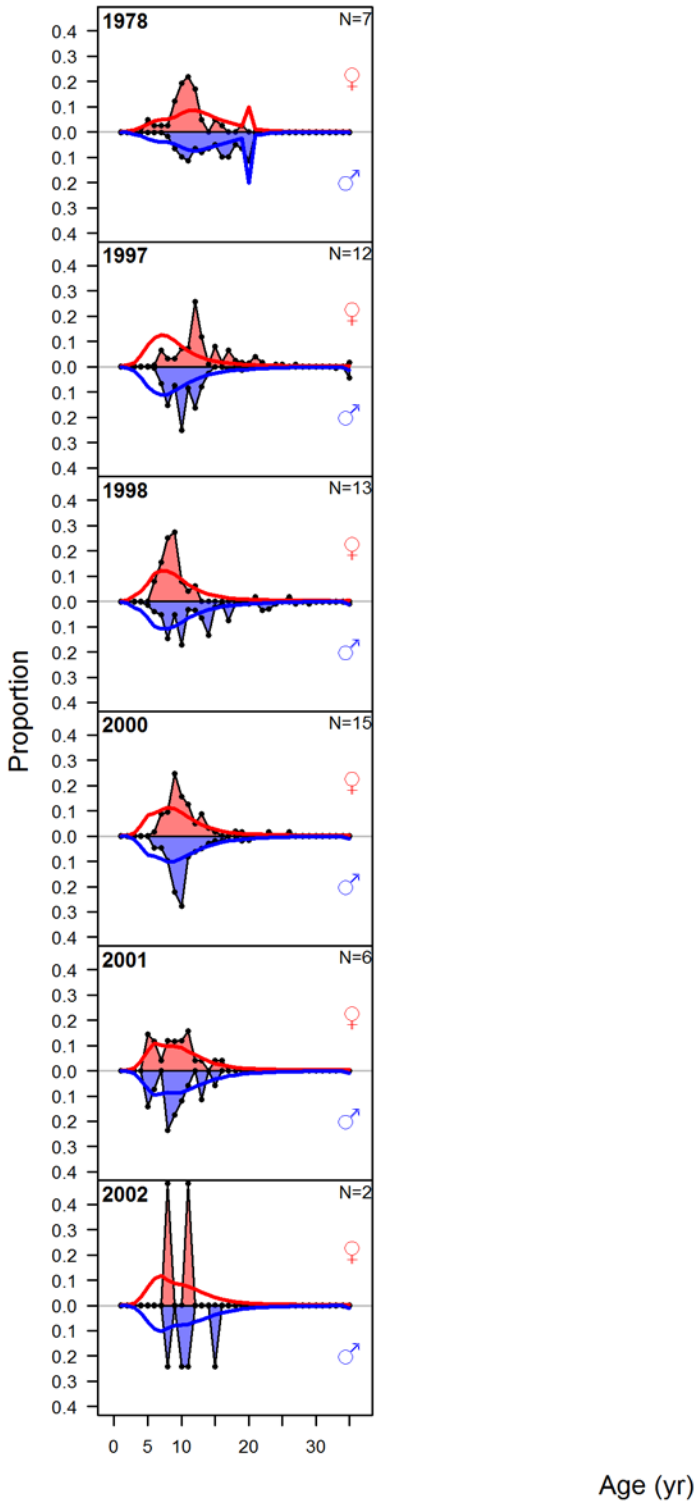


Figure 73– Age composition samples and predictions for fleet 6 (CA Non-trawl)

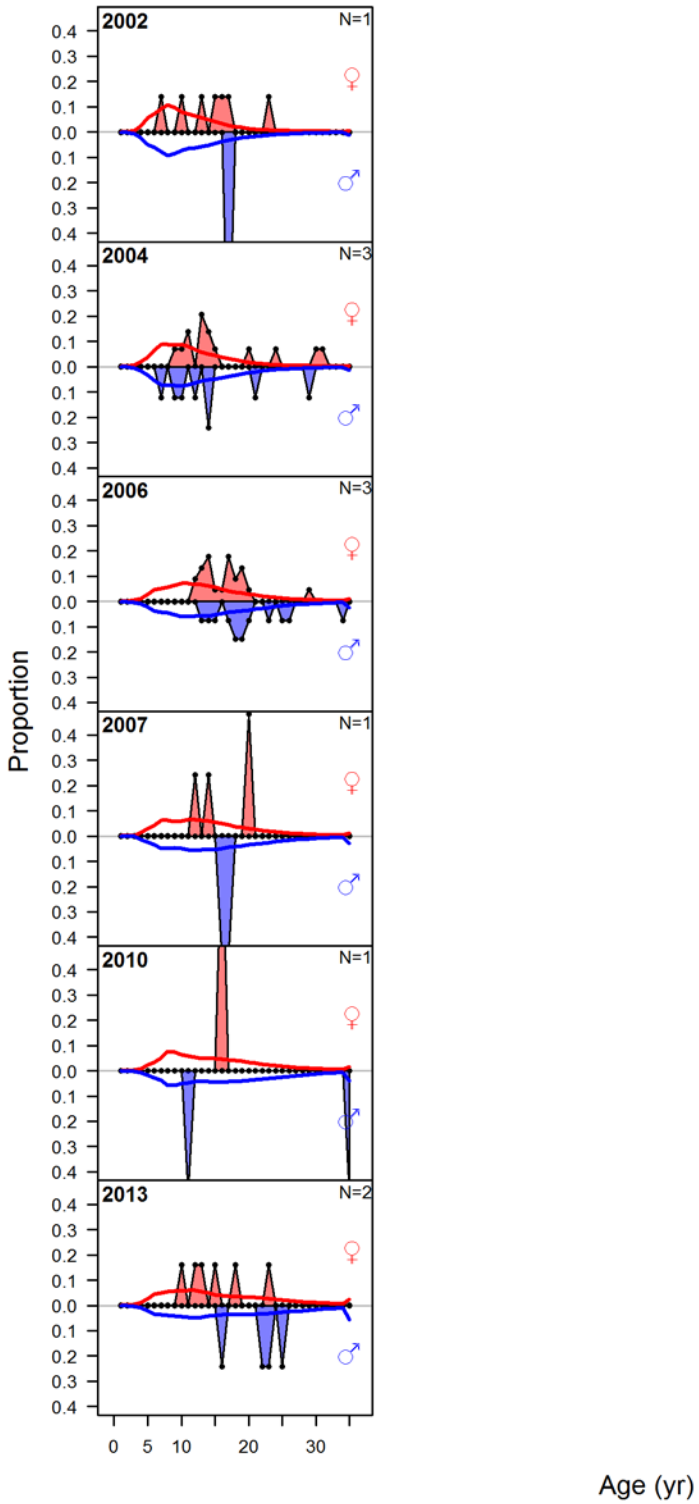


Figure 74 – Age composition samples and predictions for fleet 9 (WA Rec)

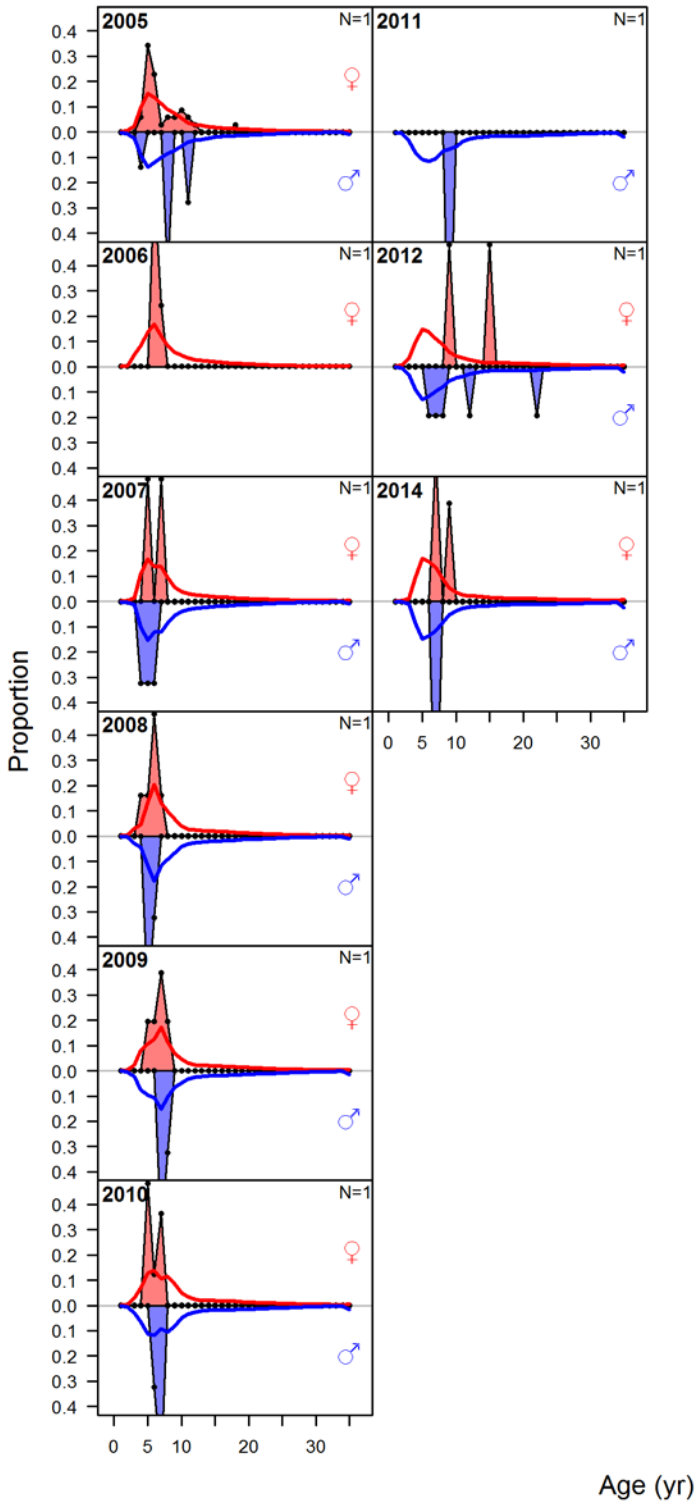


Figure 75 – Age composition samples and predictions for fleet 10 (CA ASHOP)

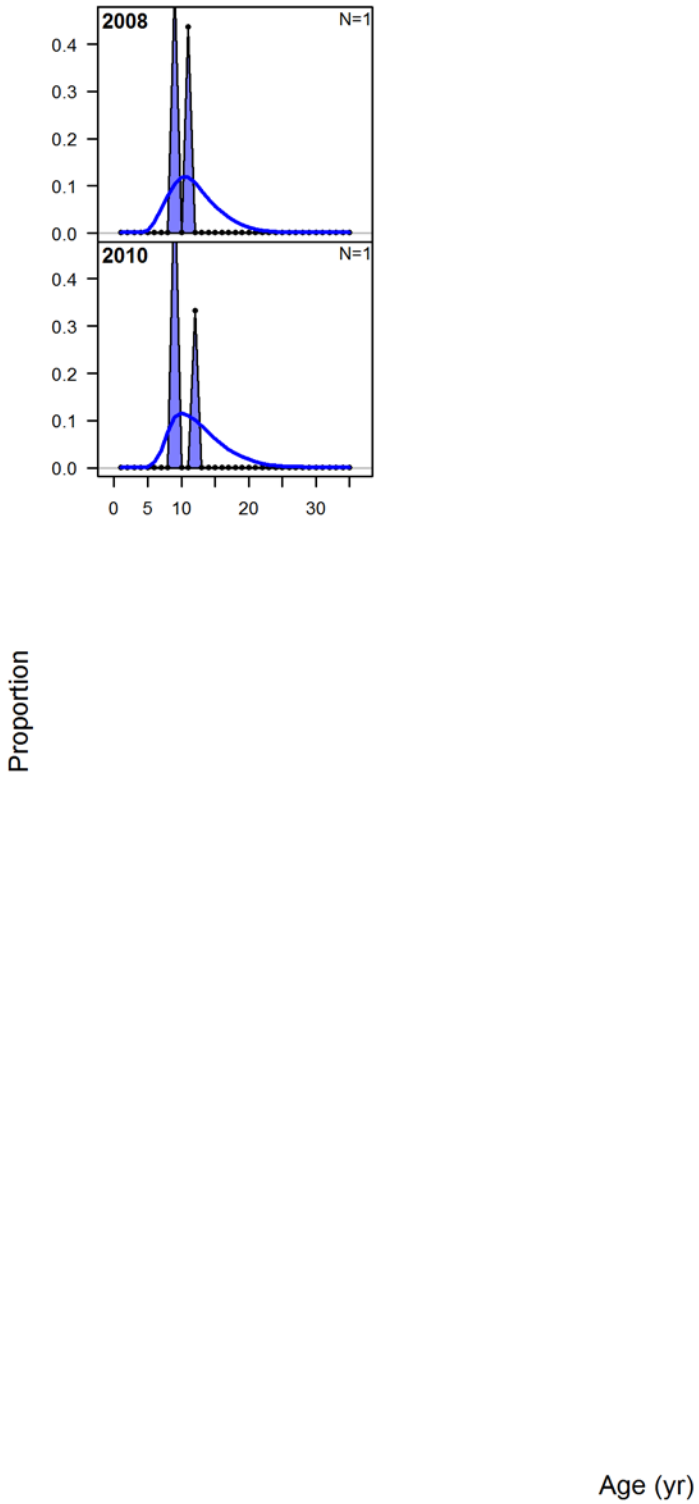


Figure 76 – Age composition samples and predictions for fleet 11 (OR ASHOP)

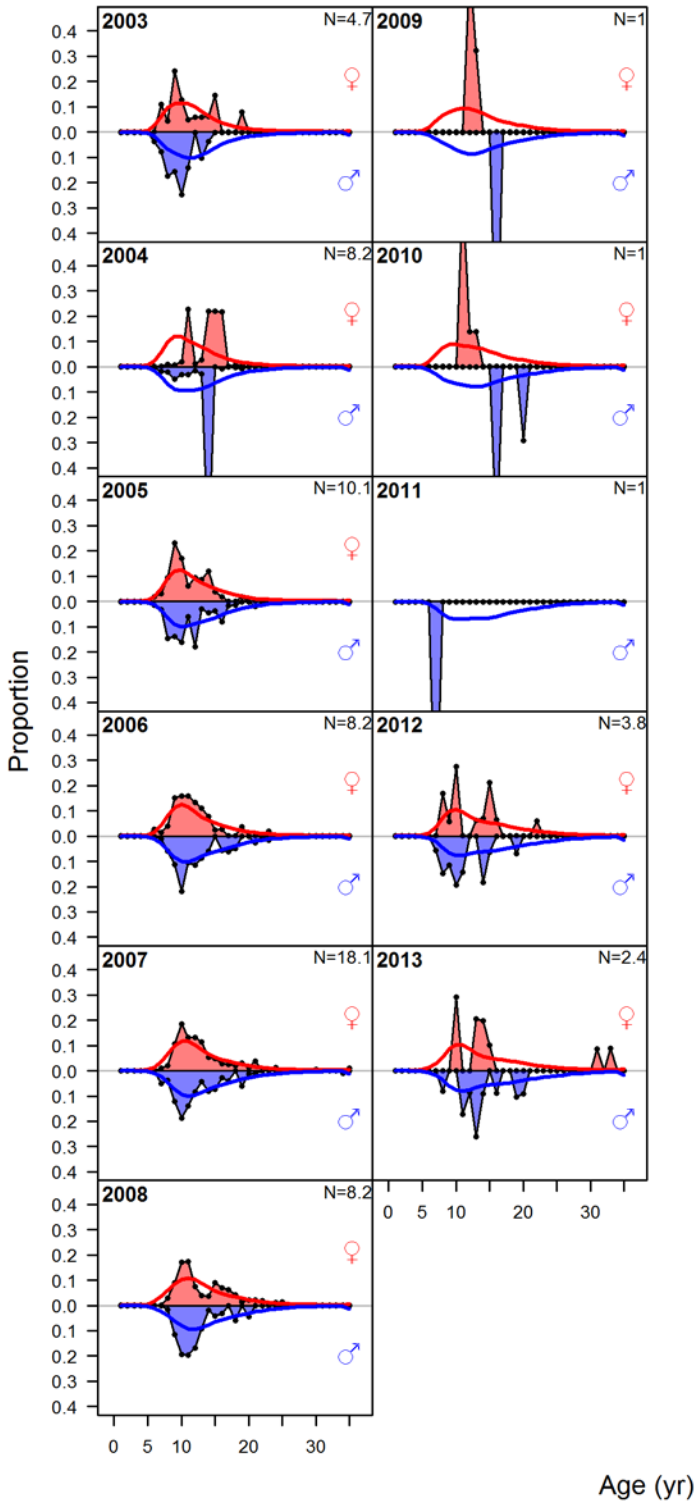


Figure 77 – Age composition samples and predictions for fleet 12 (WA ASHOP)

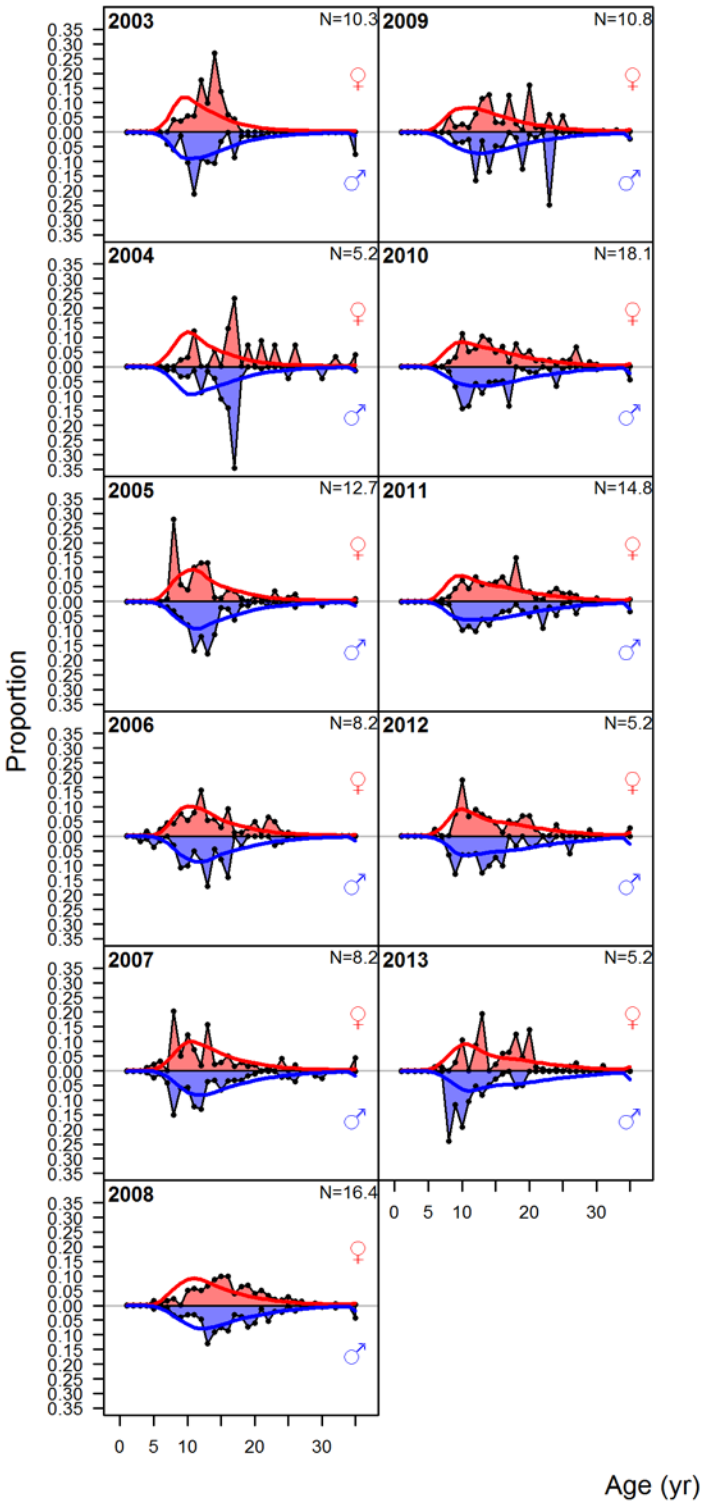


Figure 78 – Conditional age-at-length samples and predictions for fleet 16 (CA WCGBTS)

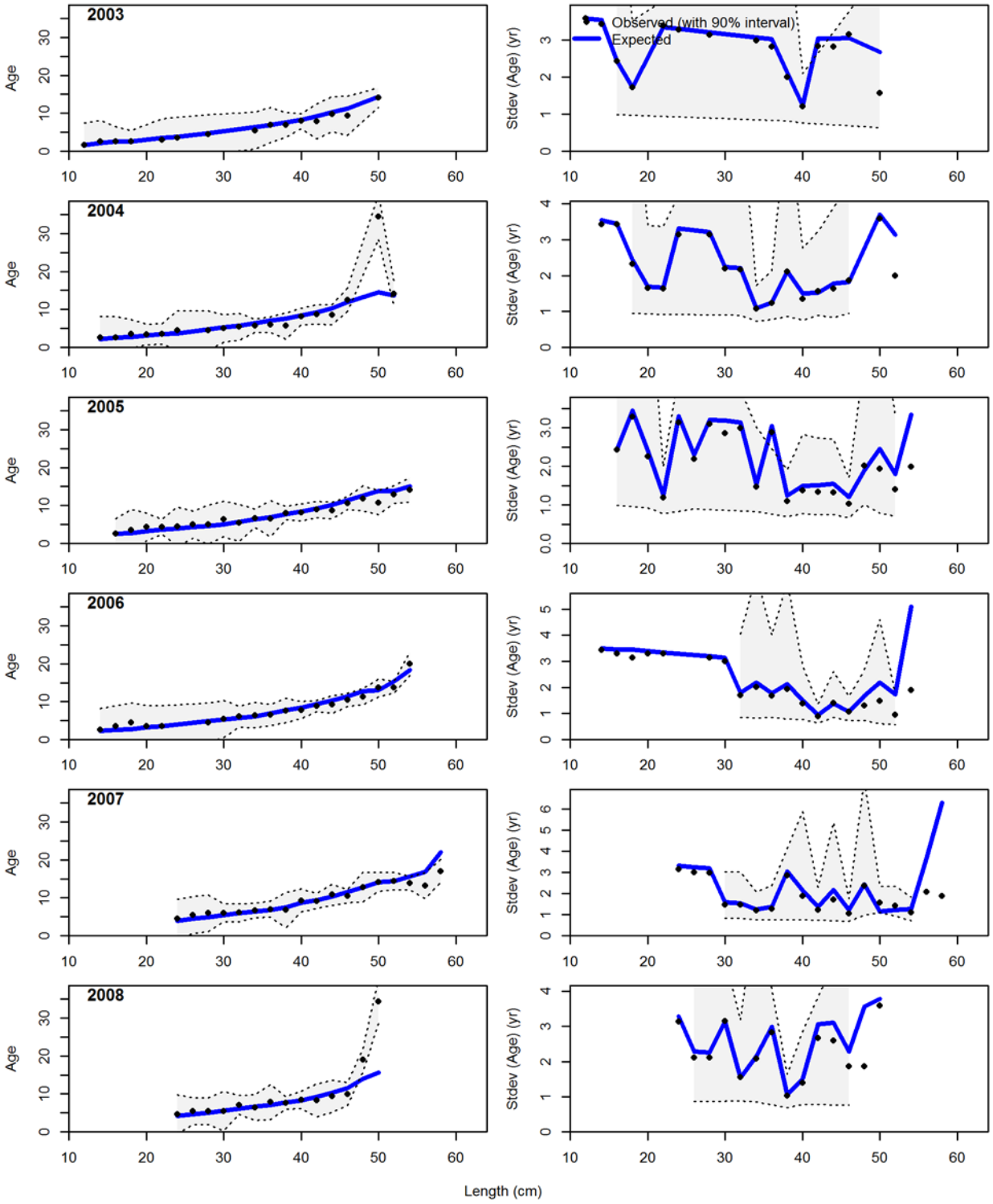


Figure 75 cont.

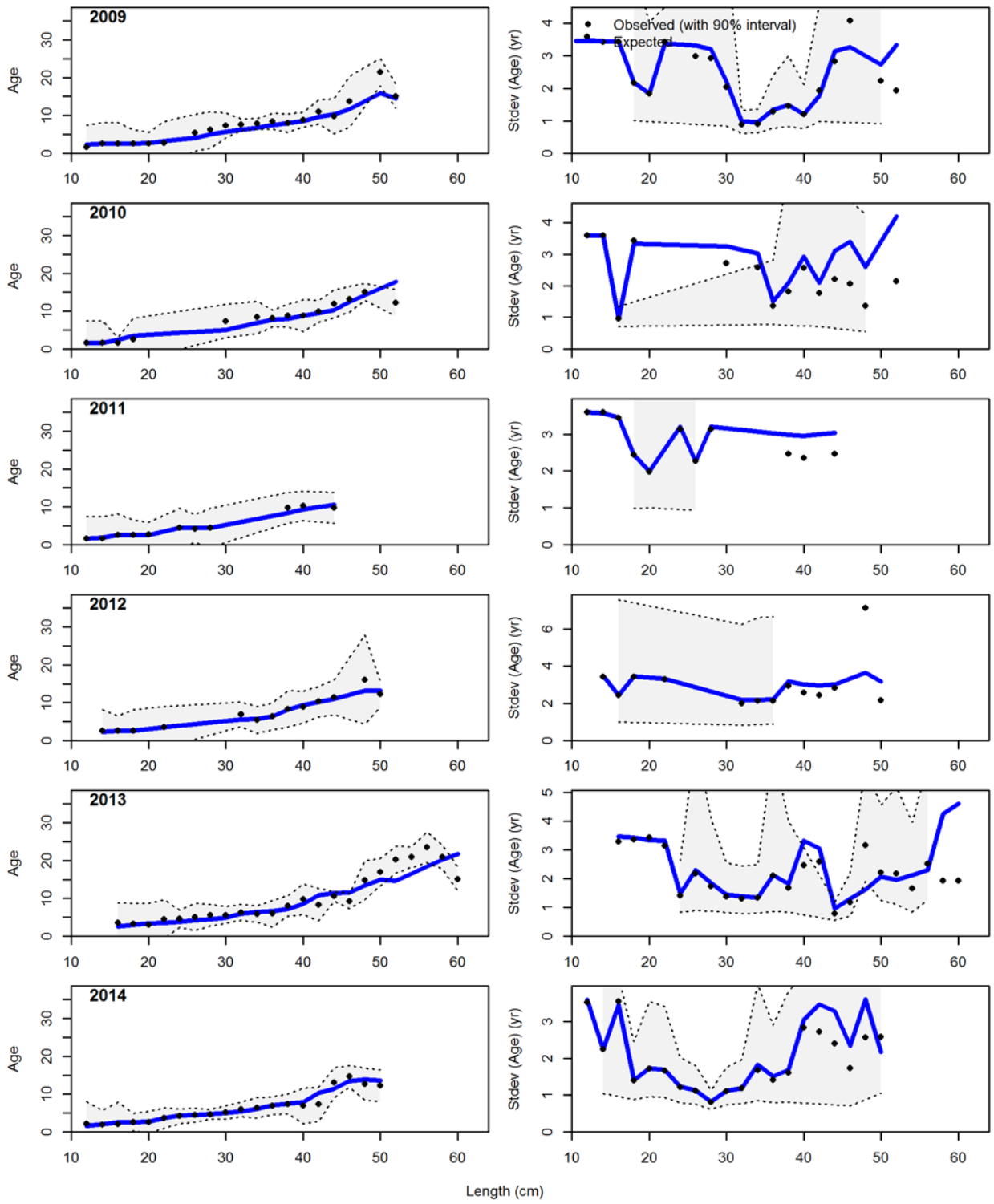


Figure 79 – Conditional age-at-length samples and predictions for fleet 17 (OR WCGBTS)

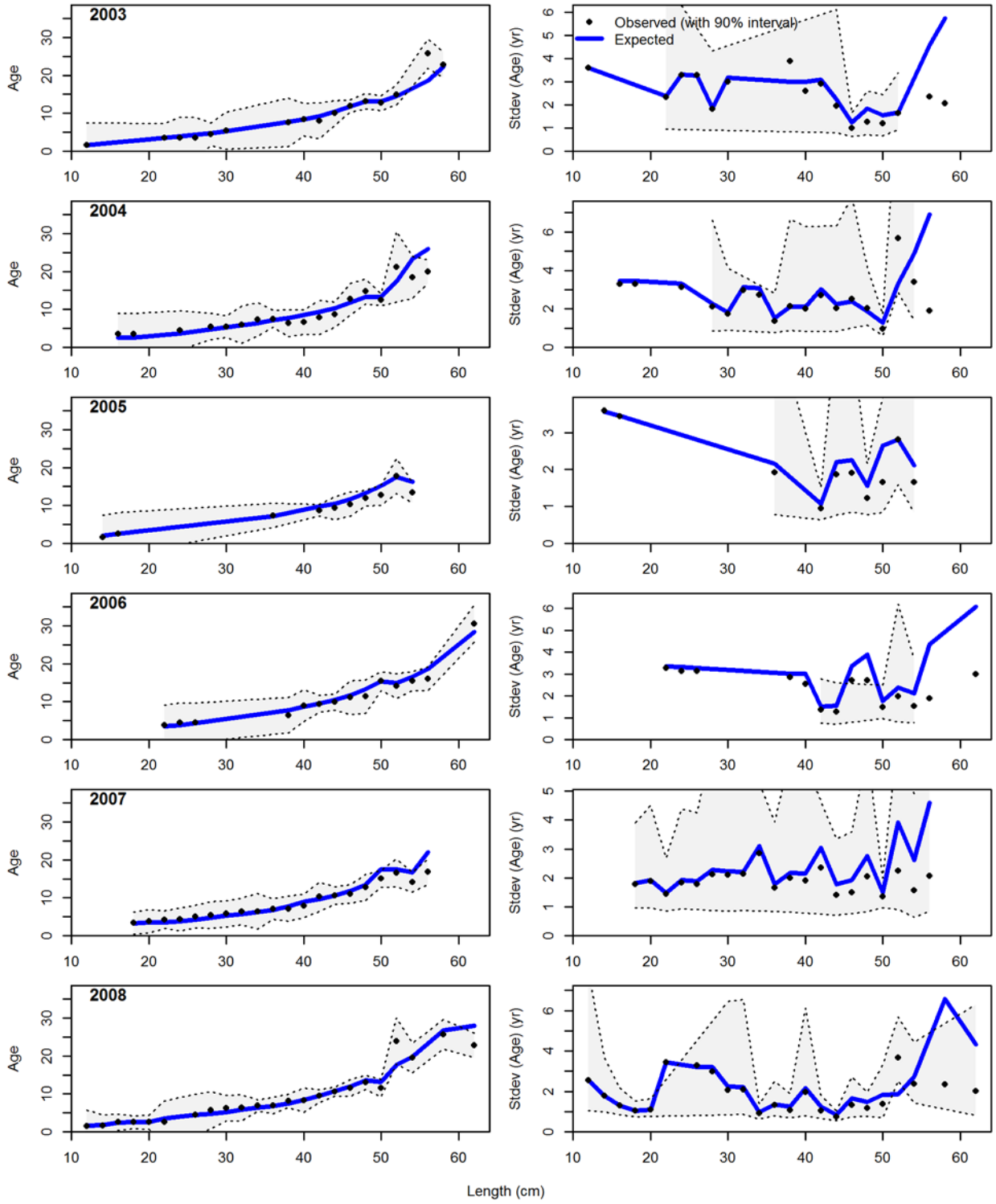


Figure 76 cont.

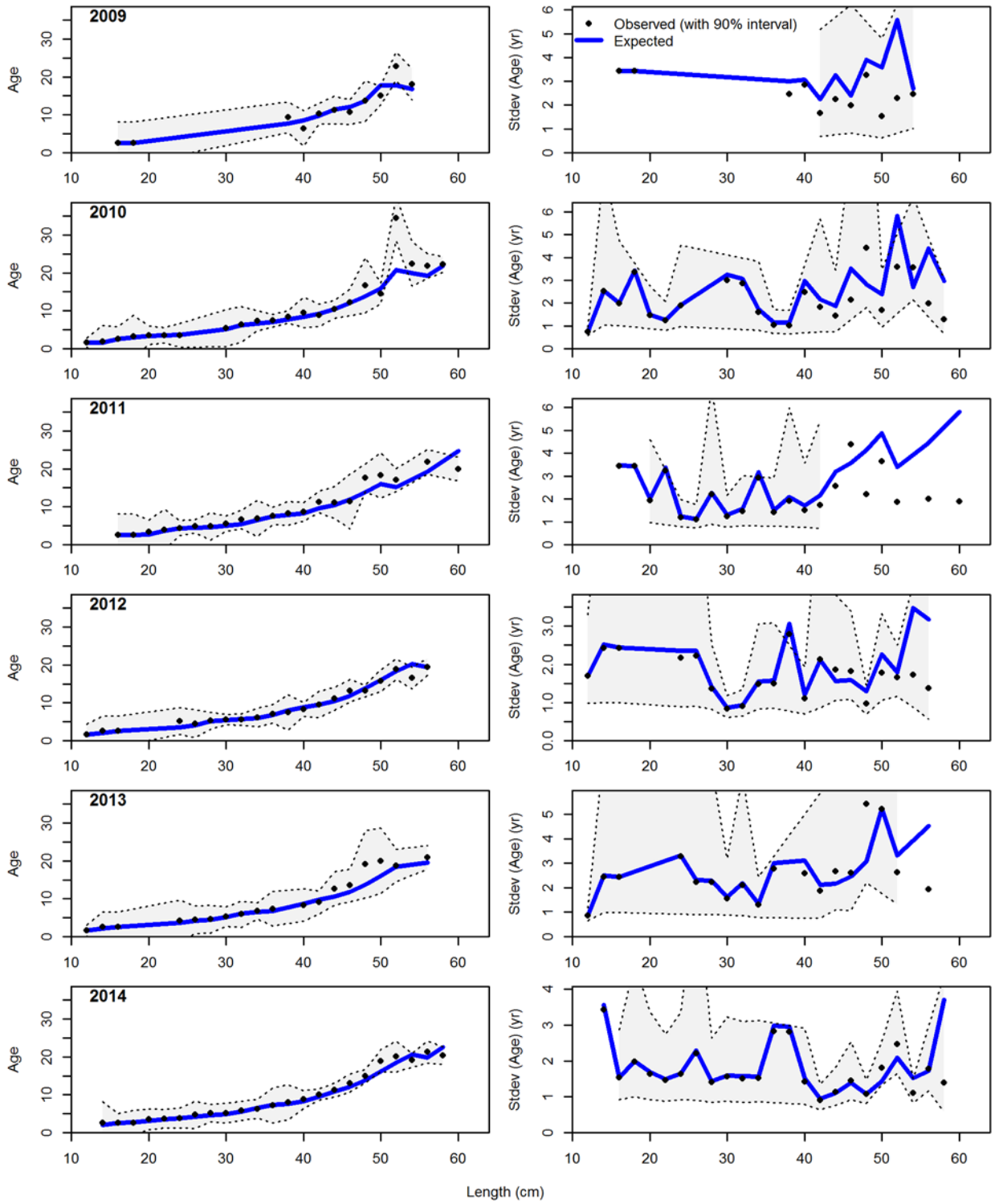


Figure 80 – Conditional age-at-length samples and predictions for fleet 18 (WA WCGBTS)

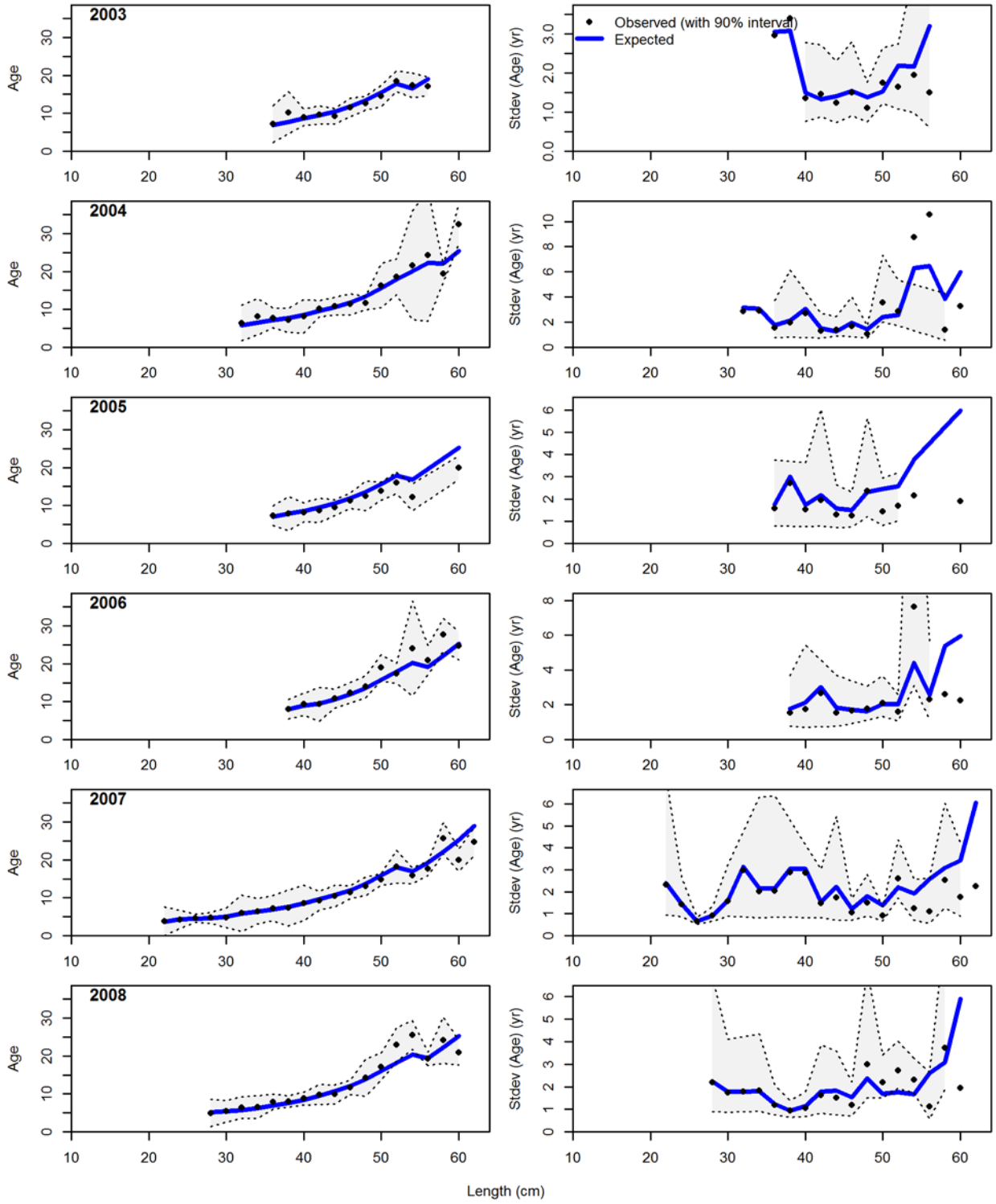


Figure 77 cont.

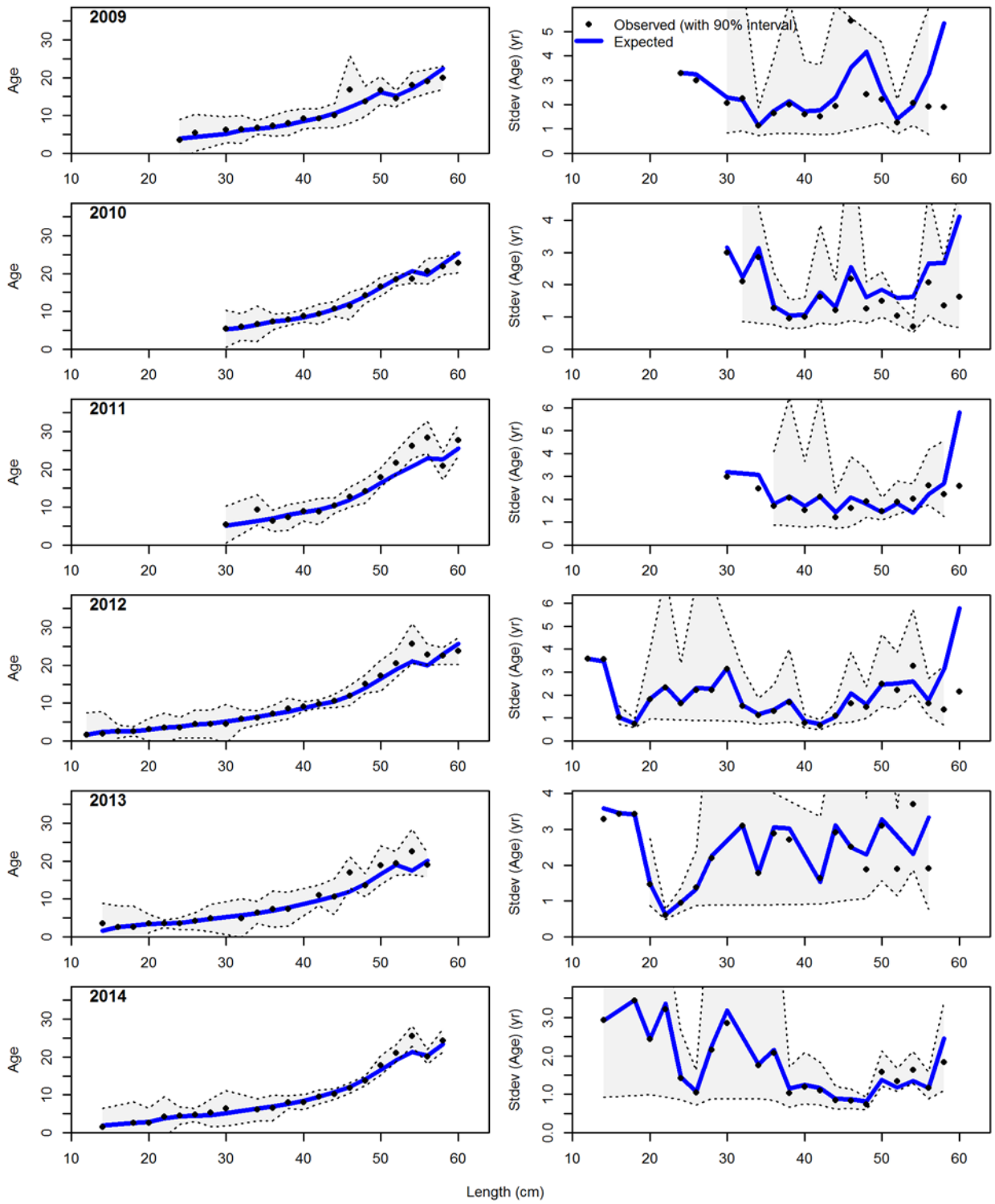


Figure 81 – Conditional age-at-length samples and predictions for fleet 19 (CA Triennial early)

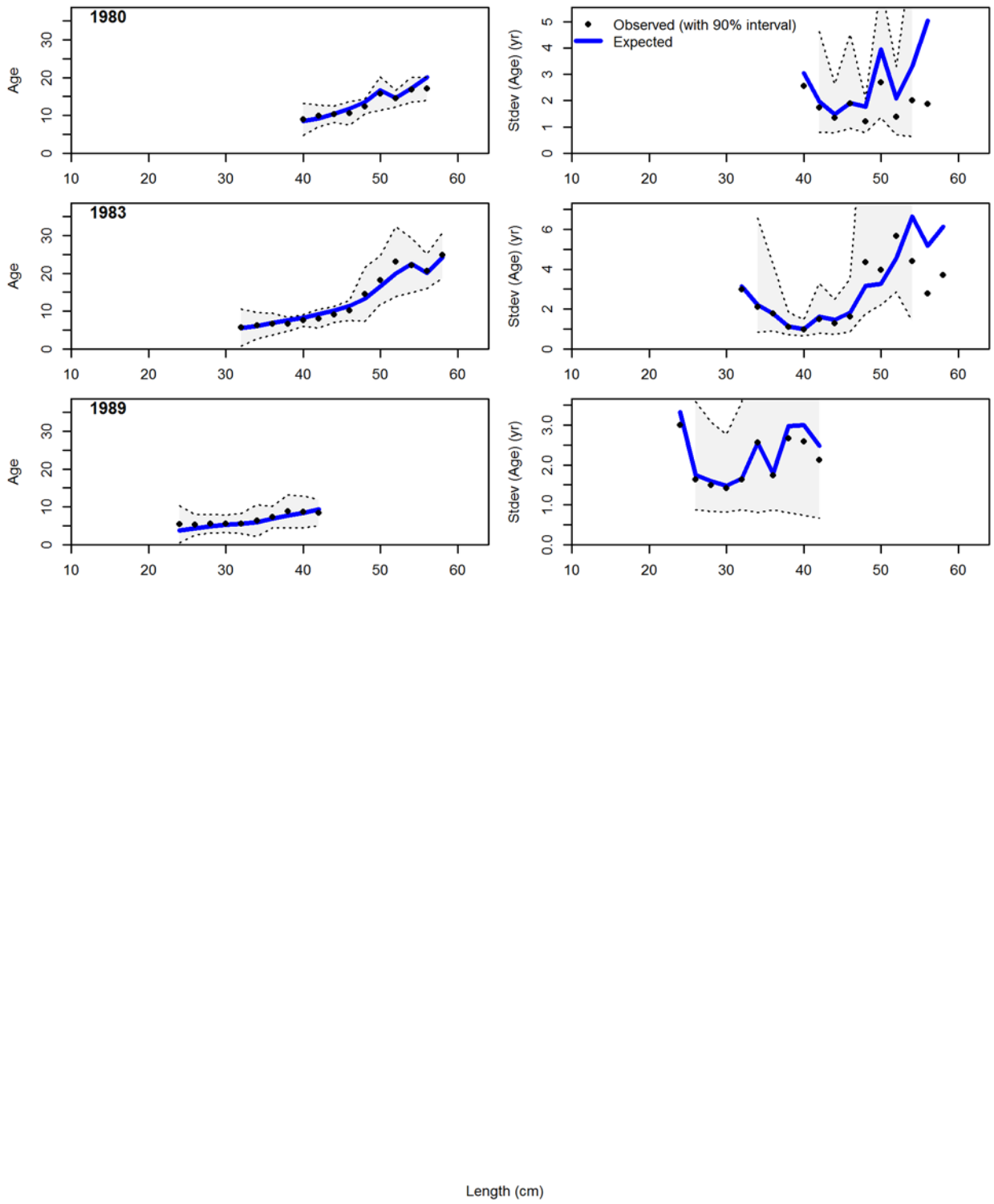


Figure 82 – Conditional age-at-length samples and predictions for fleet 20 (OR Triennial early)

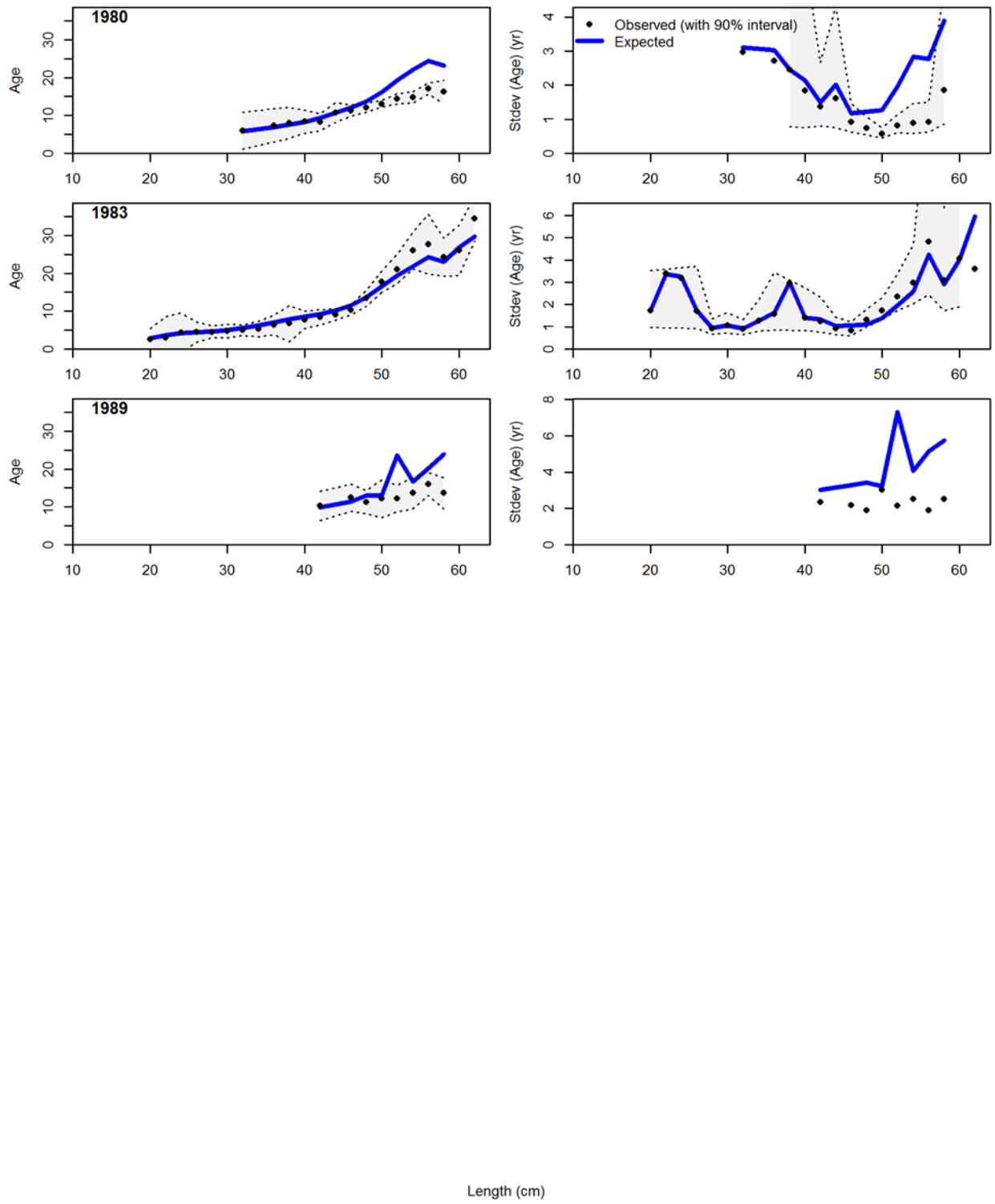


Figure 83 – Conditional age-at-length samples and predictions for fleet 21 (WA Triennial early)

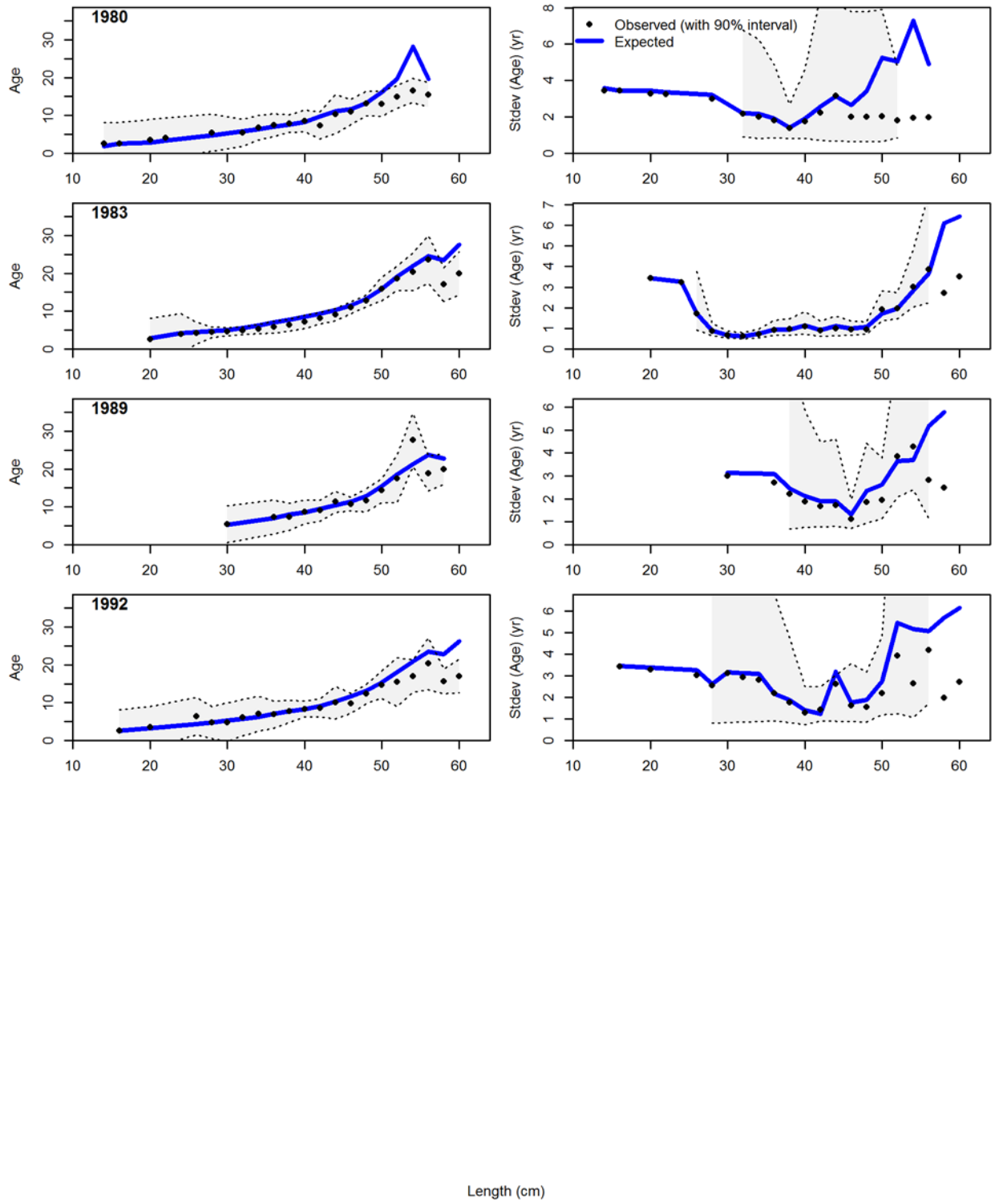


Figure 84 – Conditional age-at-length samples and predictions for fleet 22 (CA Triennial late)

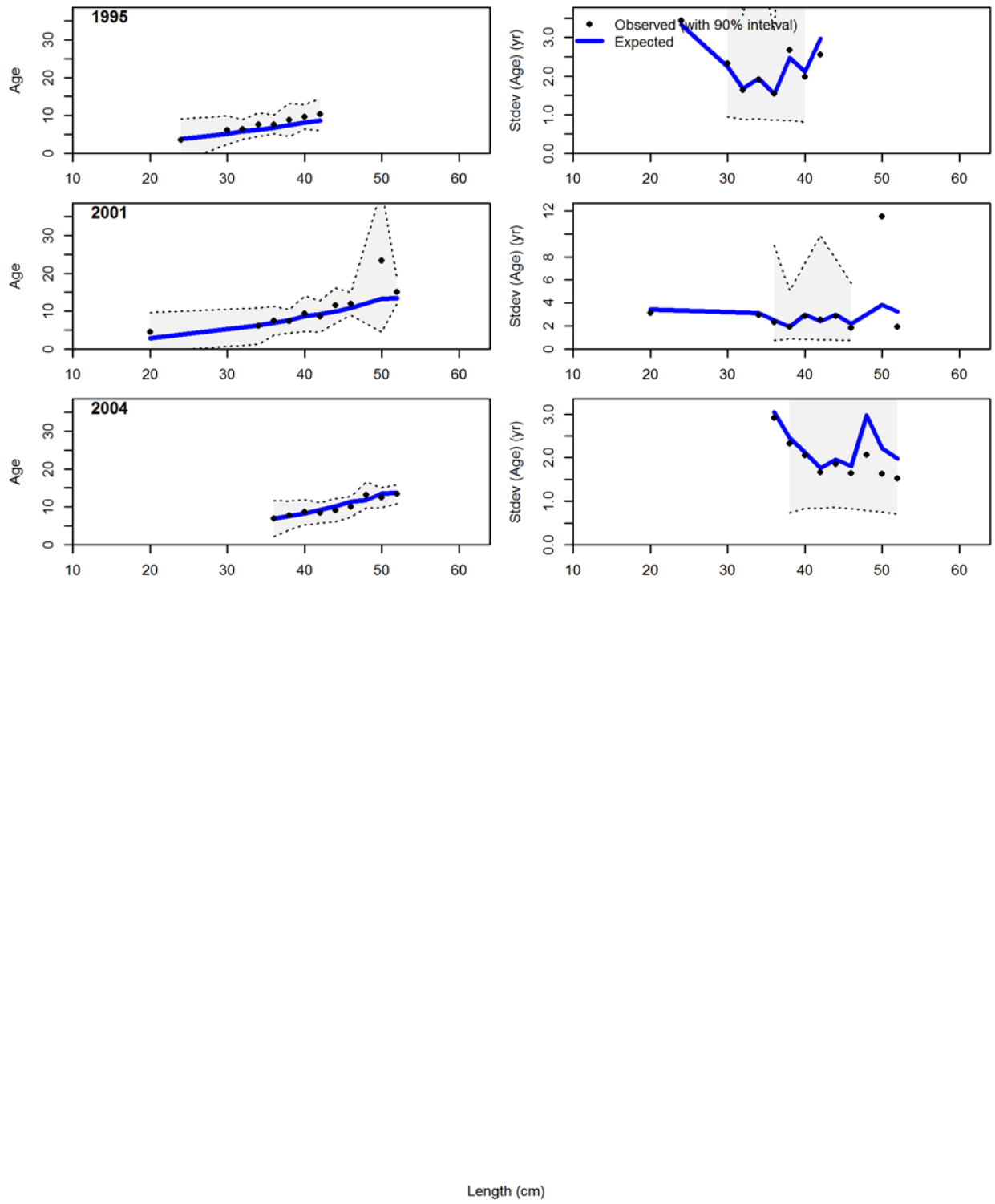


Figure 85 – Conditional age-at-length samples and predictions for fleet 23 (OR Triennial early)

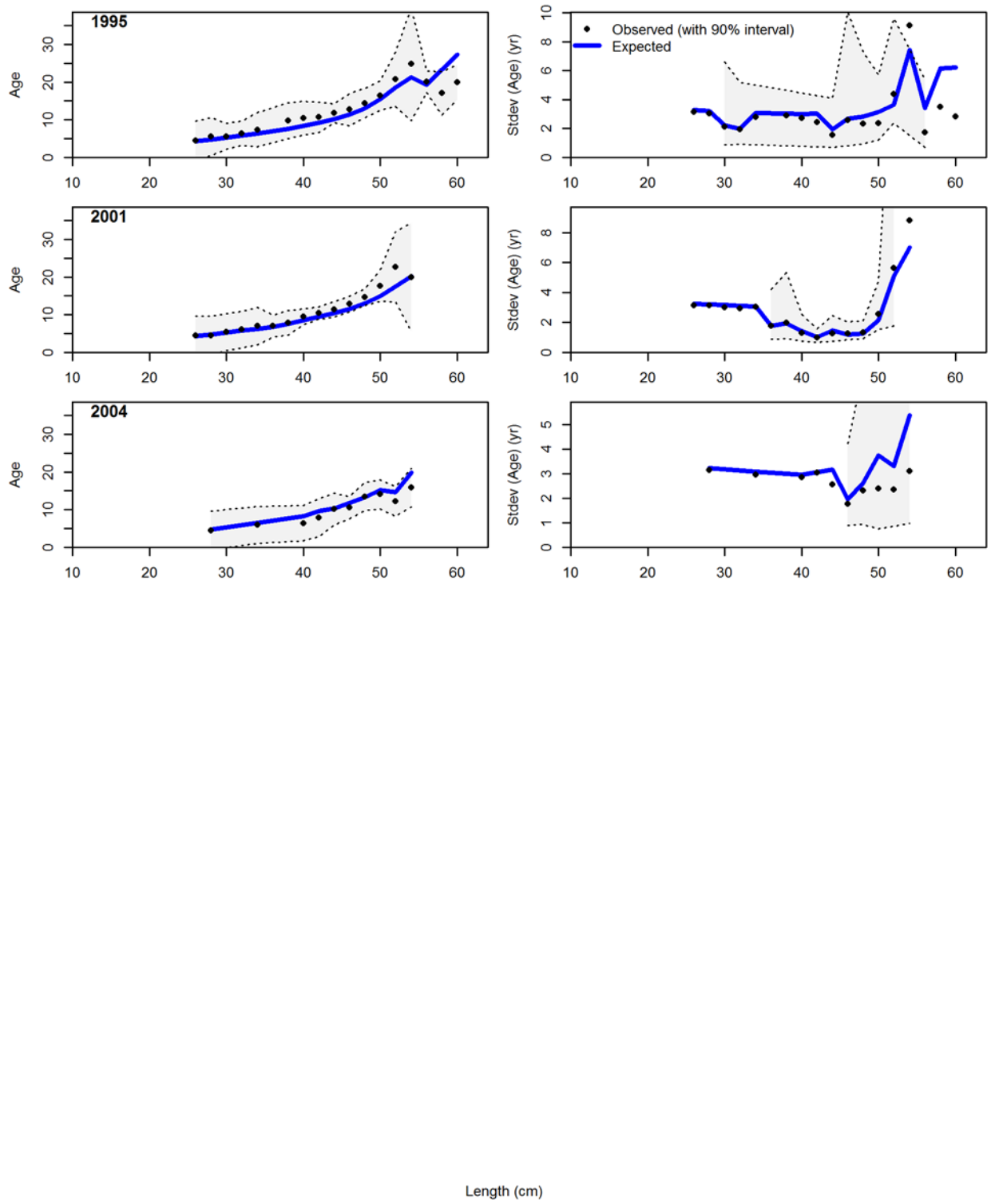


Figure 86 – Conditional age-at-length samples and predictions for fleet 24 (WA Triennial early)

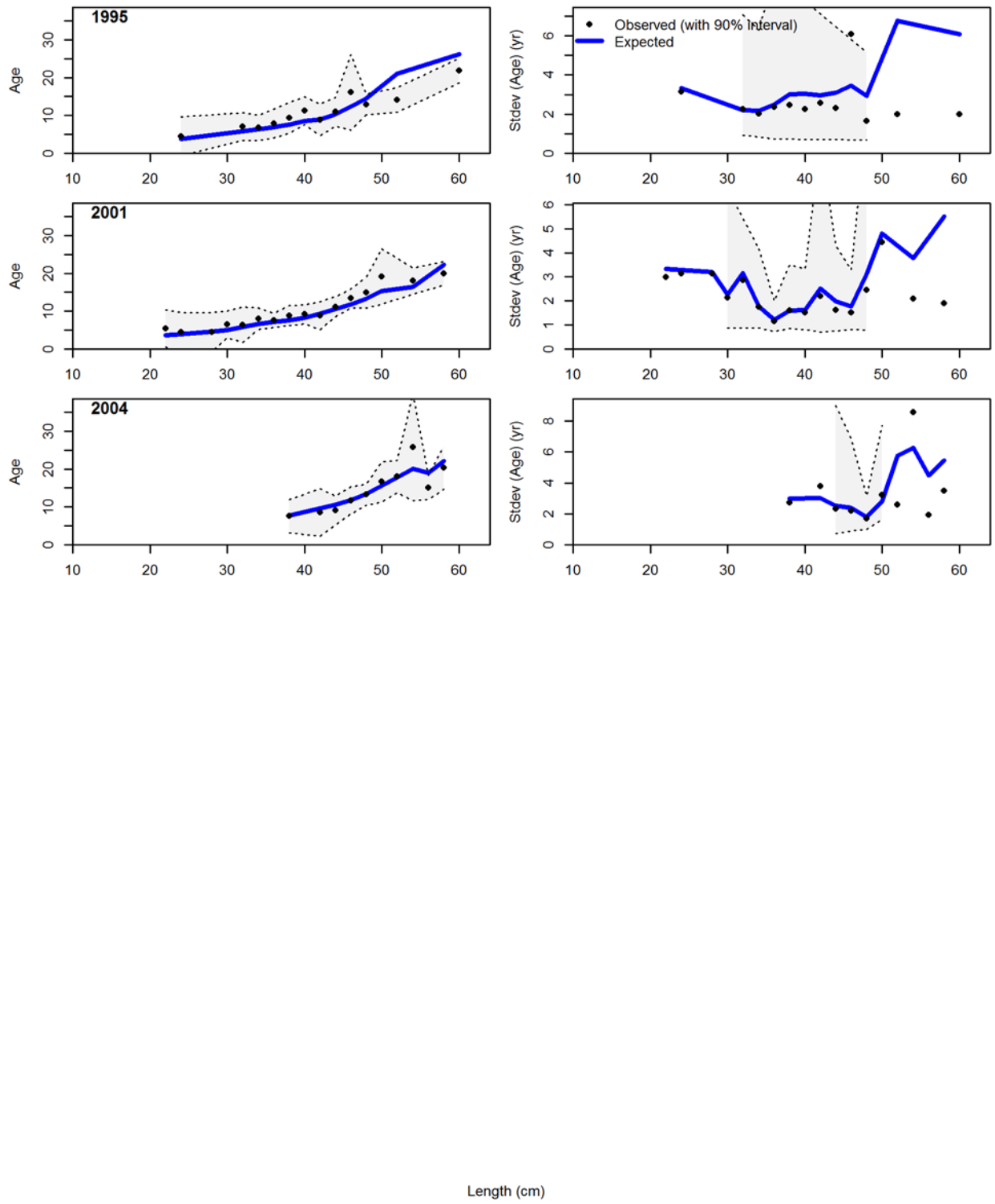


Figure 87 – Indices of abundance and predictions for WCGBTS in CA (top panel: fleet 16), OR (middle panel: fleet 17), and WA (bottom panel: fleet 18)

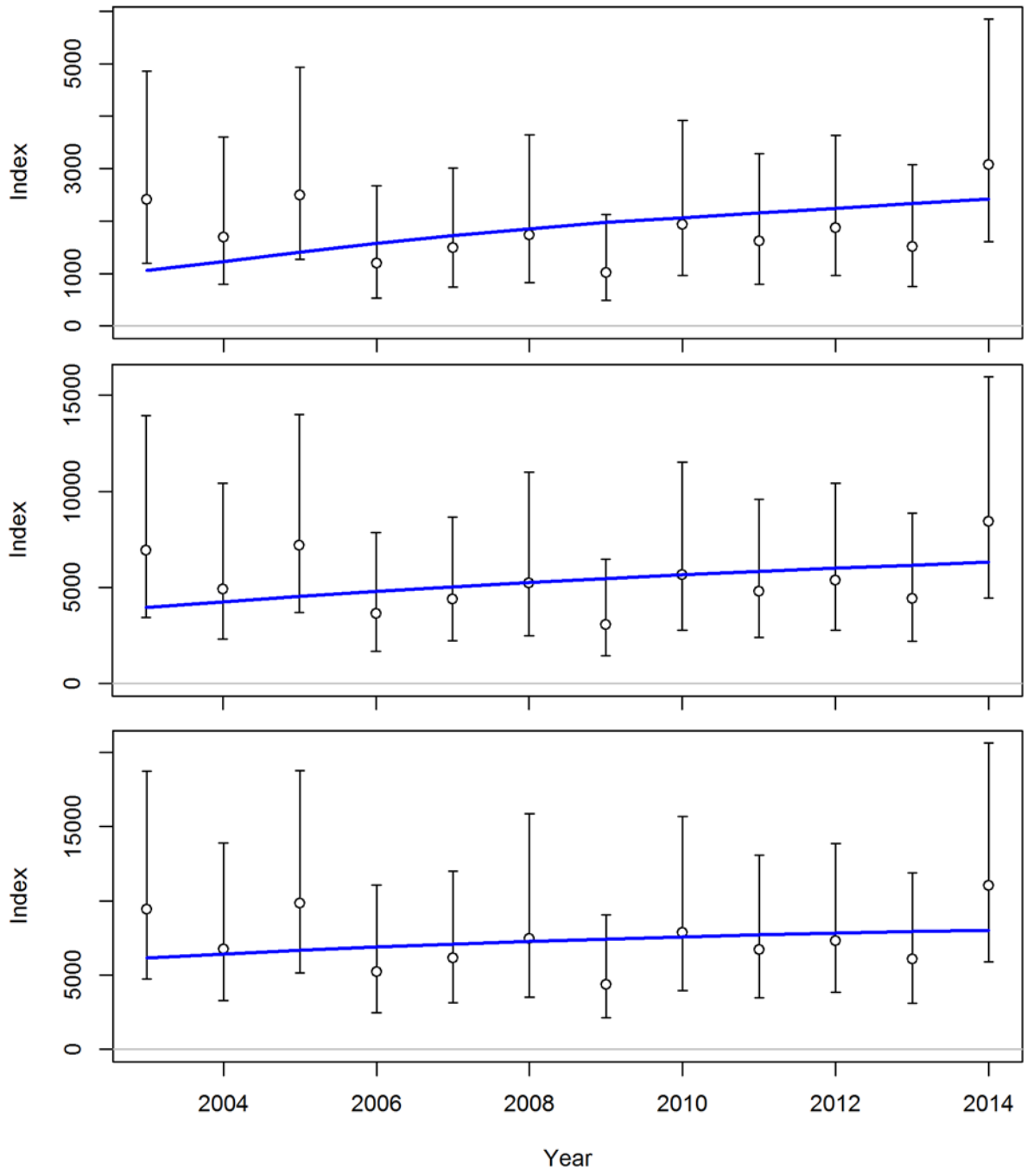


Figure 88 – Indices of abundance and predictions for Triennial-early (1980-1992) in CA (fleet 19, top panel), OR (fleet 20, middle panel), and WA (fleet 21, bottom panel)

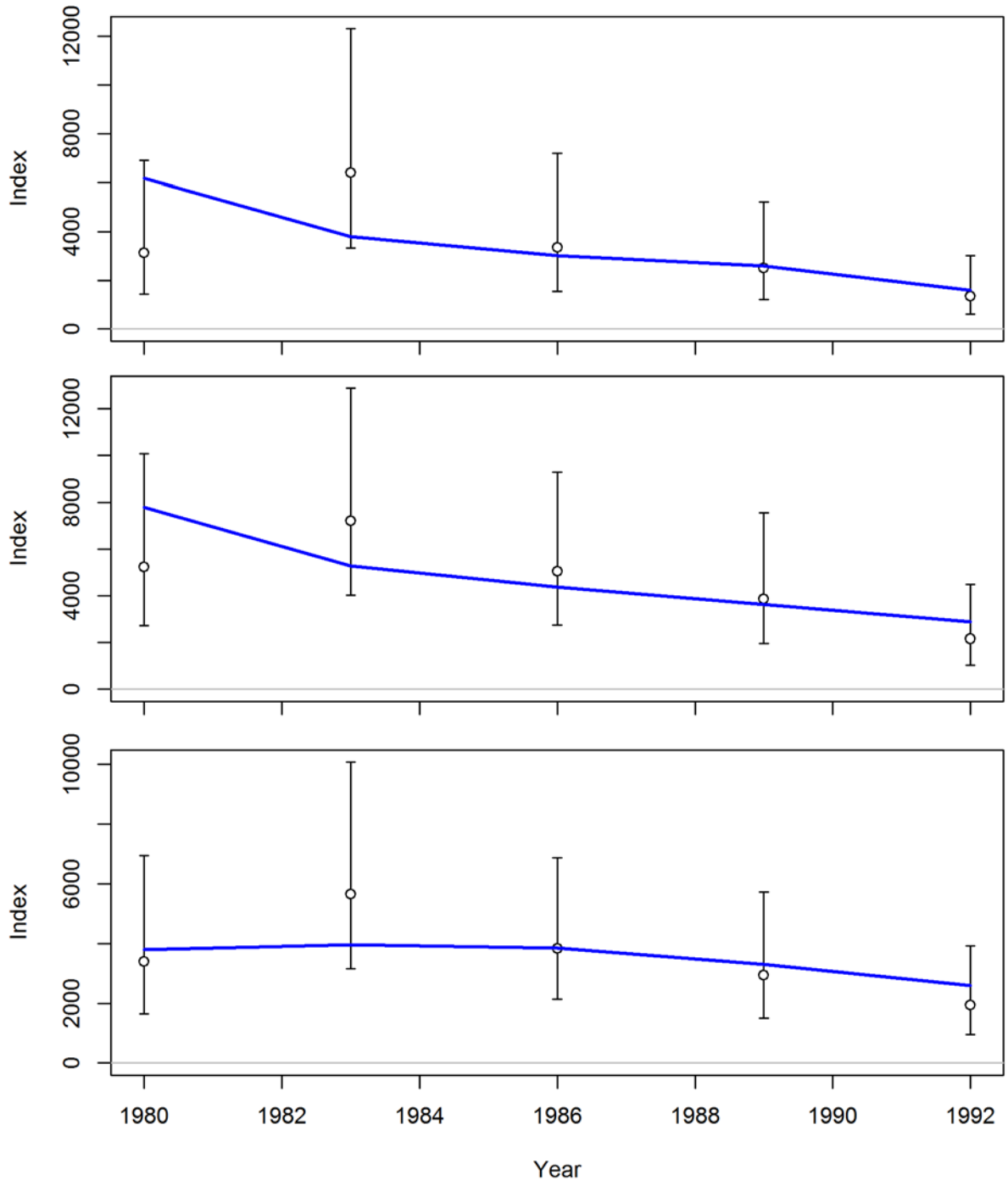


Figure 89 – Indices of abundance and predictions for Triennial-late (1995-2004) in CA (fleet 22, top panel), OR (fleet 23, middle panel), and WA (fleet 24, bottom panel)

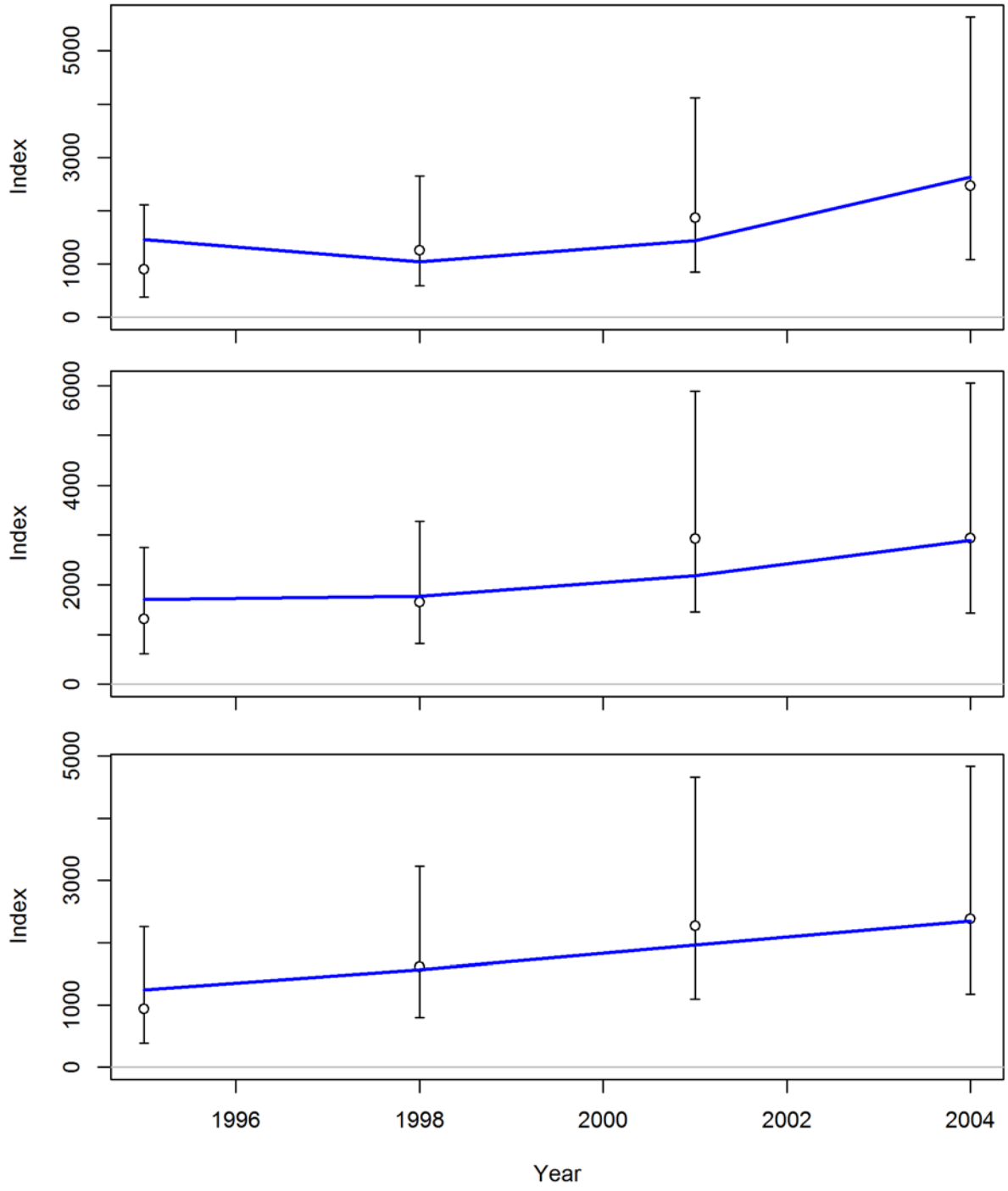


Figure 90 – Indices of abundance and predictions for pre-recruit index in CA (fleet 25, top panel), OR (fleet 26, middle panel), and WA (fleet 27, bottom panel)

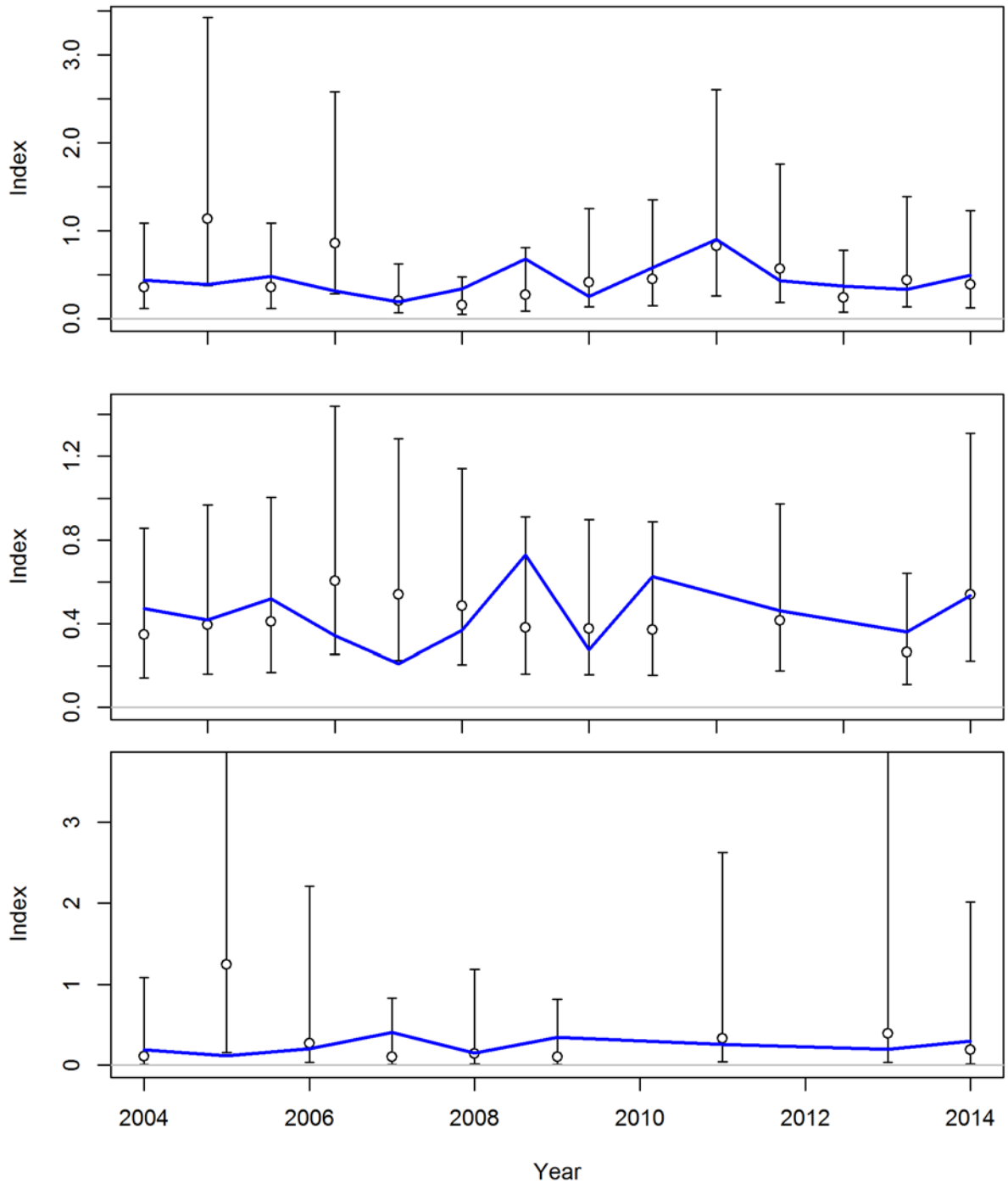


Figure 91 – Visualization of average length at age (top-left panel), as well as the coefficient of variation for length at age as a function of length (top-right panel) or age (bottom-left panel)

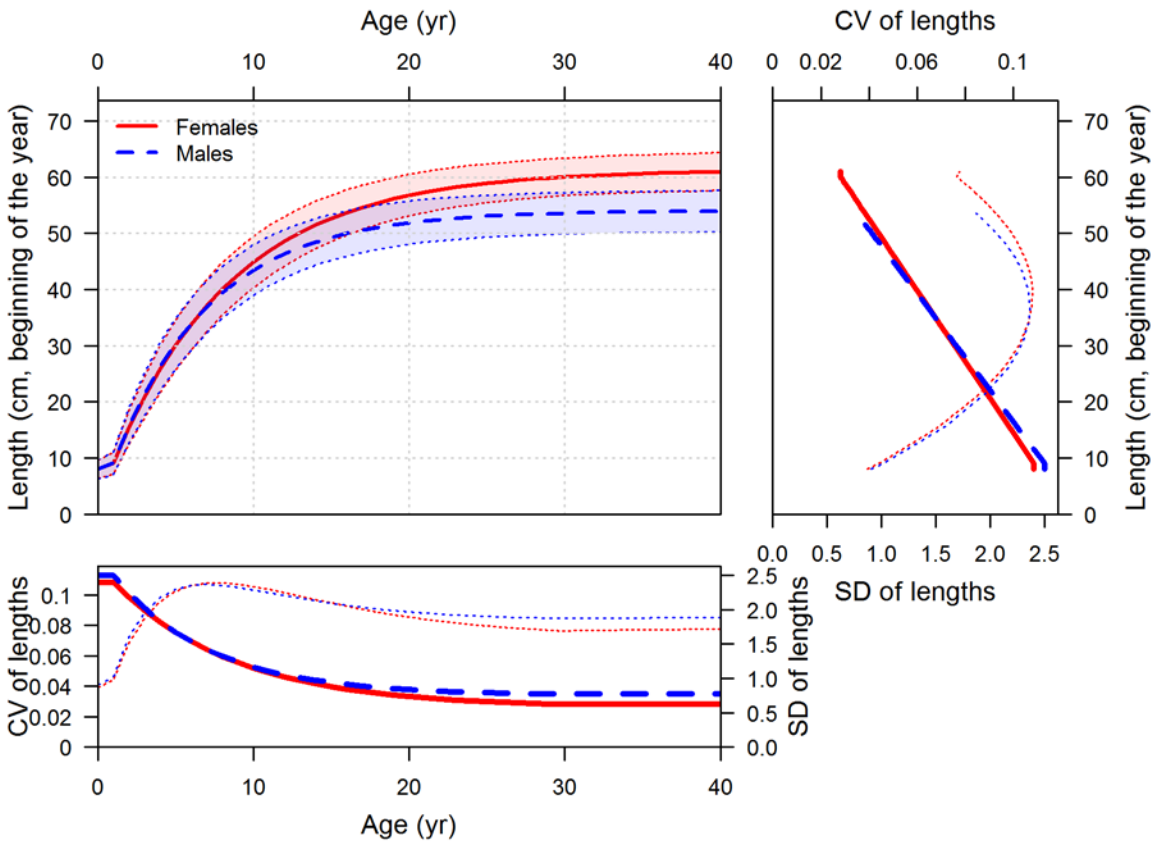


Figure 92 – Estimated bias adjustment ramp

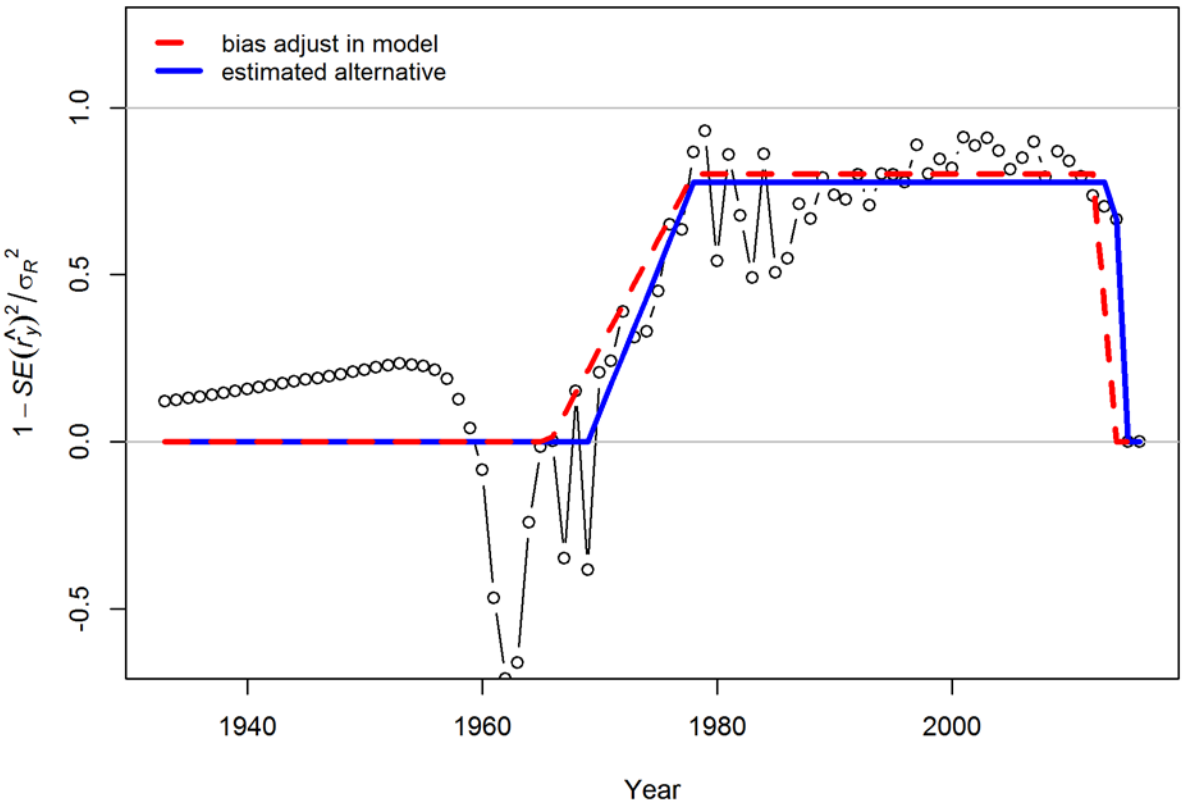


Figure 93 – Length-based selectivity for the trawl and foreign fleets (fleets 1-3 and 13-15), where colors range from grey (0.2) to dark blue (0.8)

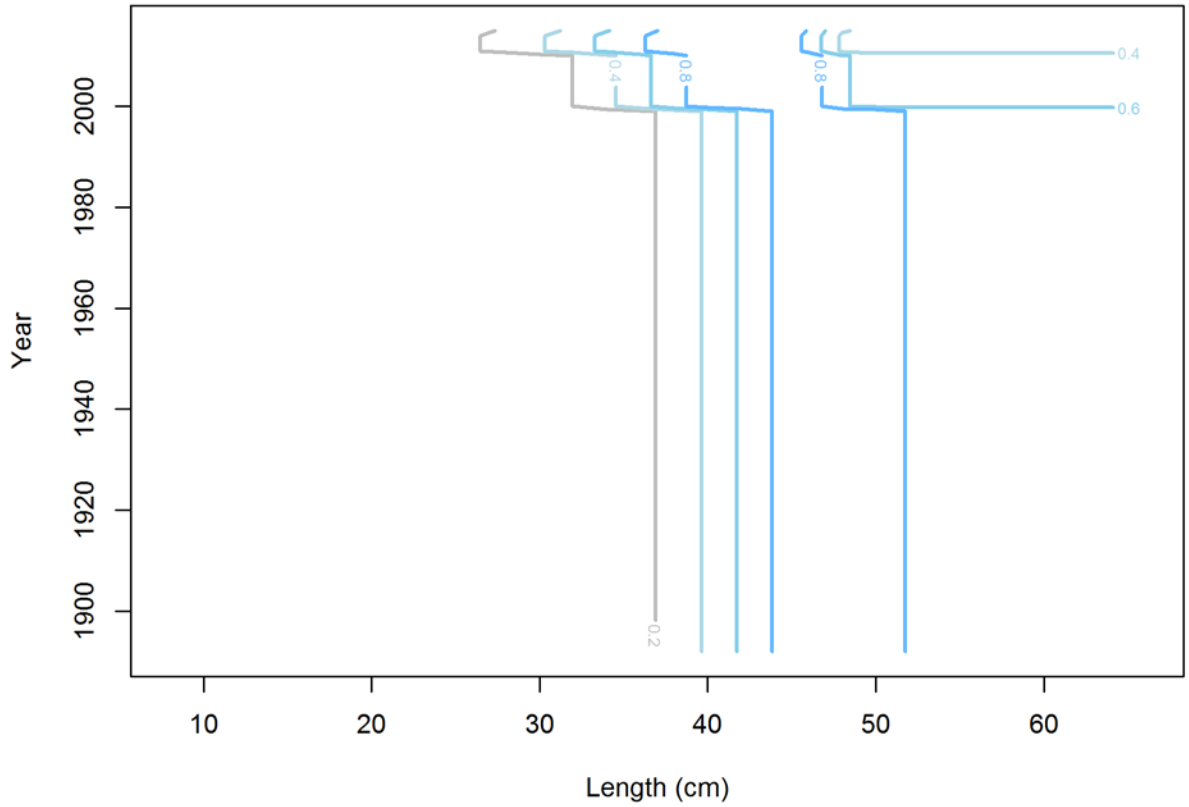


Figure 94 – Length-based selectivity for the trawl and foreign fleets (fleets 1-3 and 13-15), shown as a 3D plot

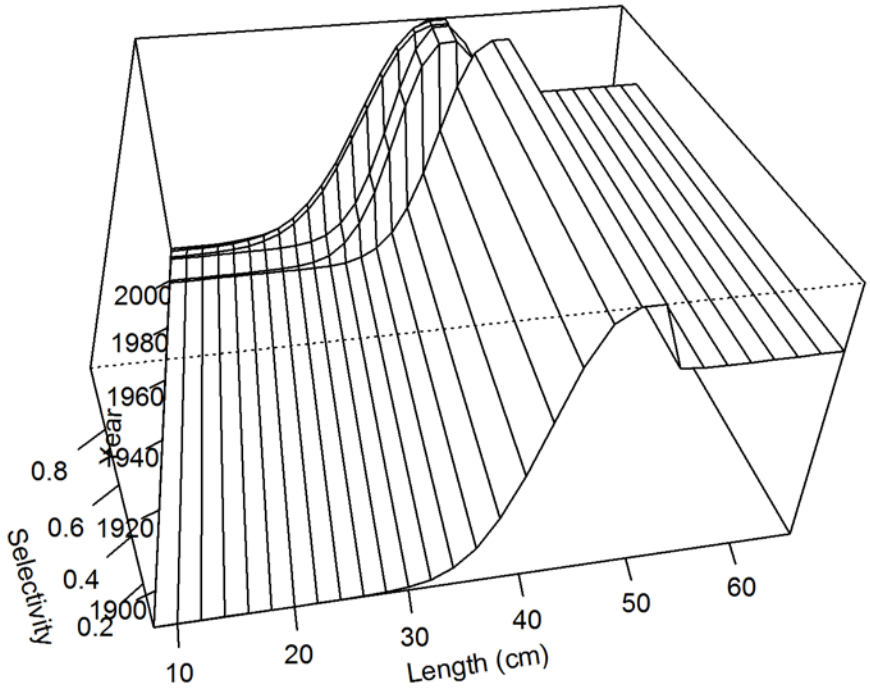


Figure 95 – Length-based selectivity for the non-trawl fleets (fleets 4-6), where colors range from grey (0.2) to dark blue (0.8)

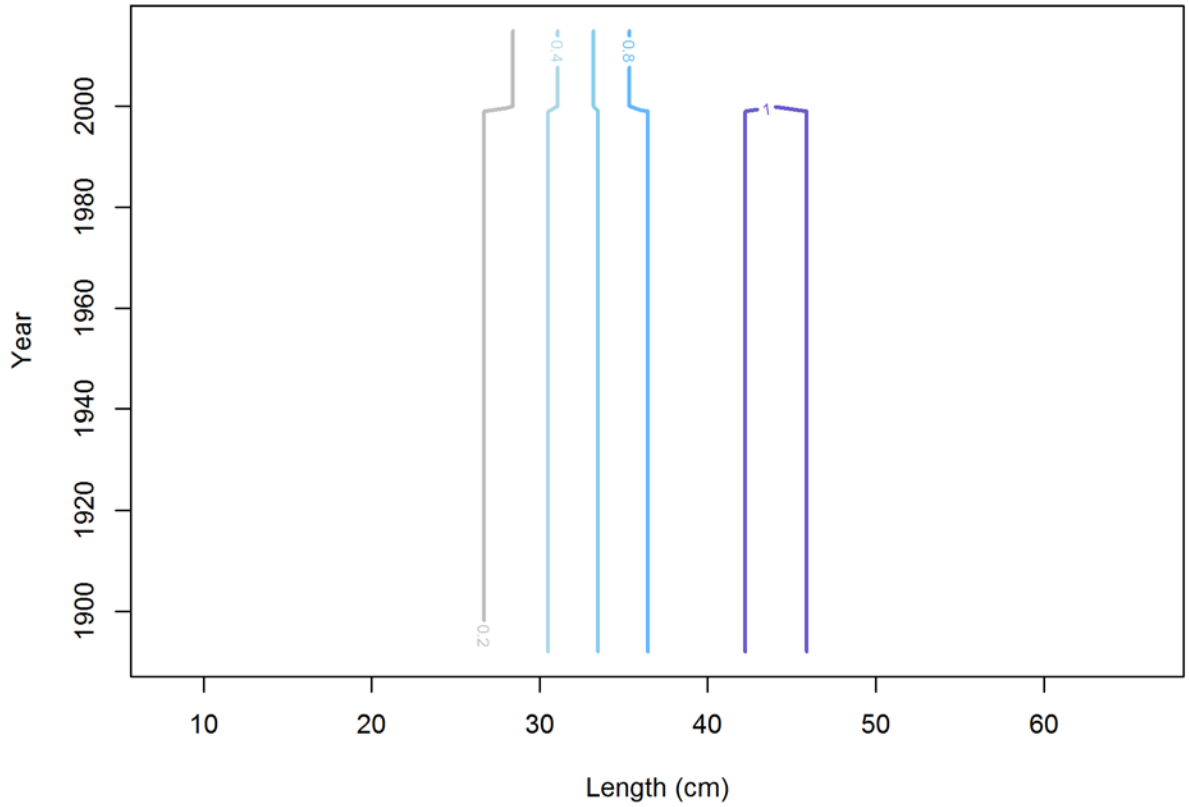


Figure 96 – Length-based selectivity for the non-trawl fleets (fleets 4-6), shown as a 3D plot

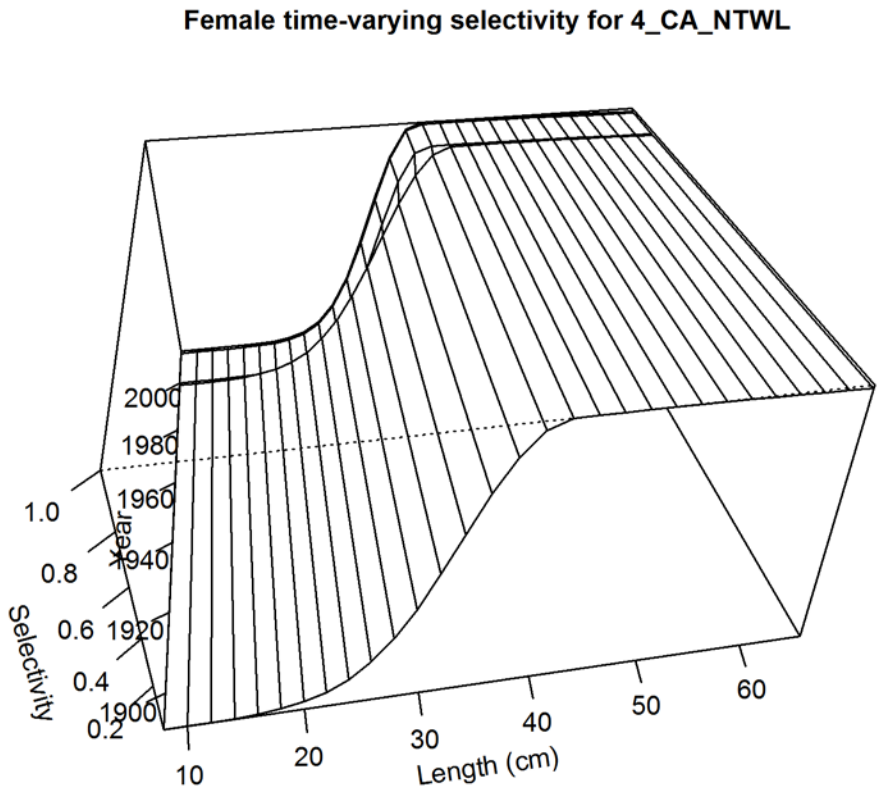


Figure 97 – Length-based selectivity for the recreational fleets (fleets 7-9)

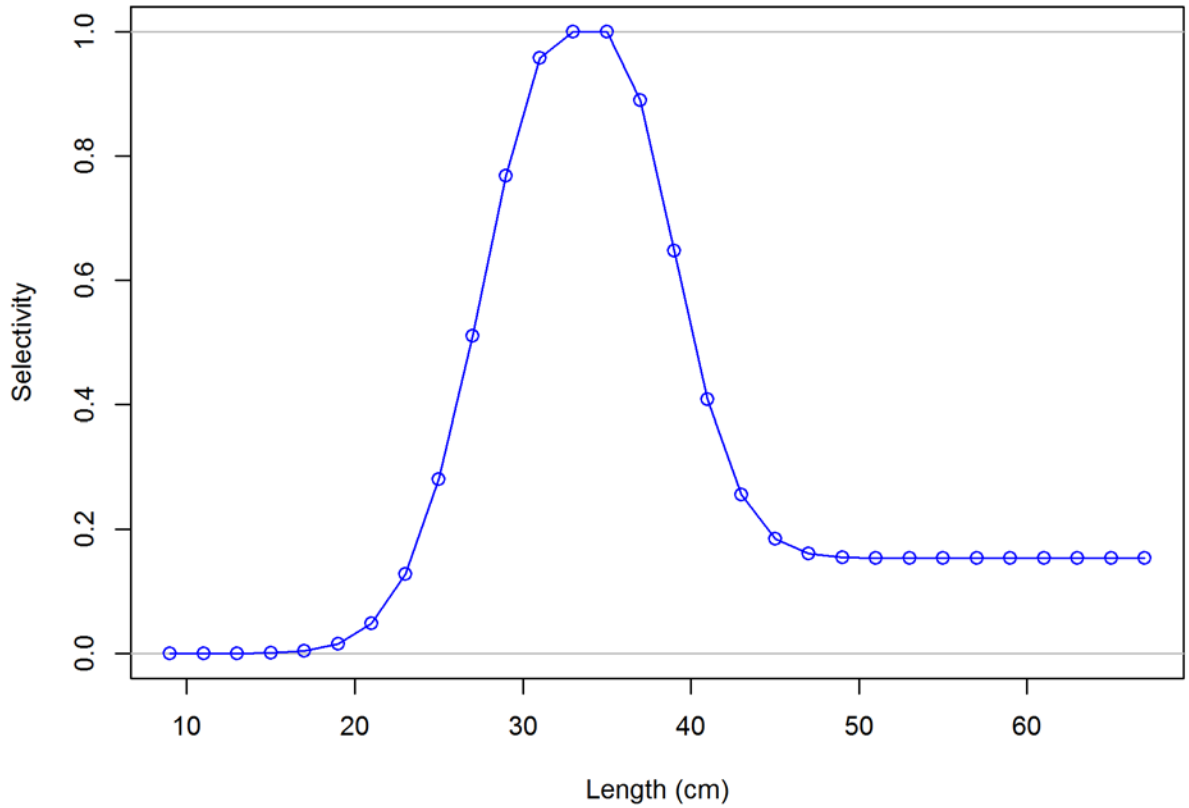


Figure 98 – Length-based selectivity for the at-sea hake fleets

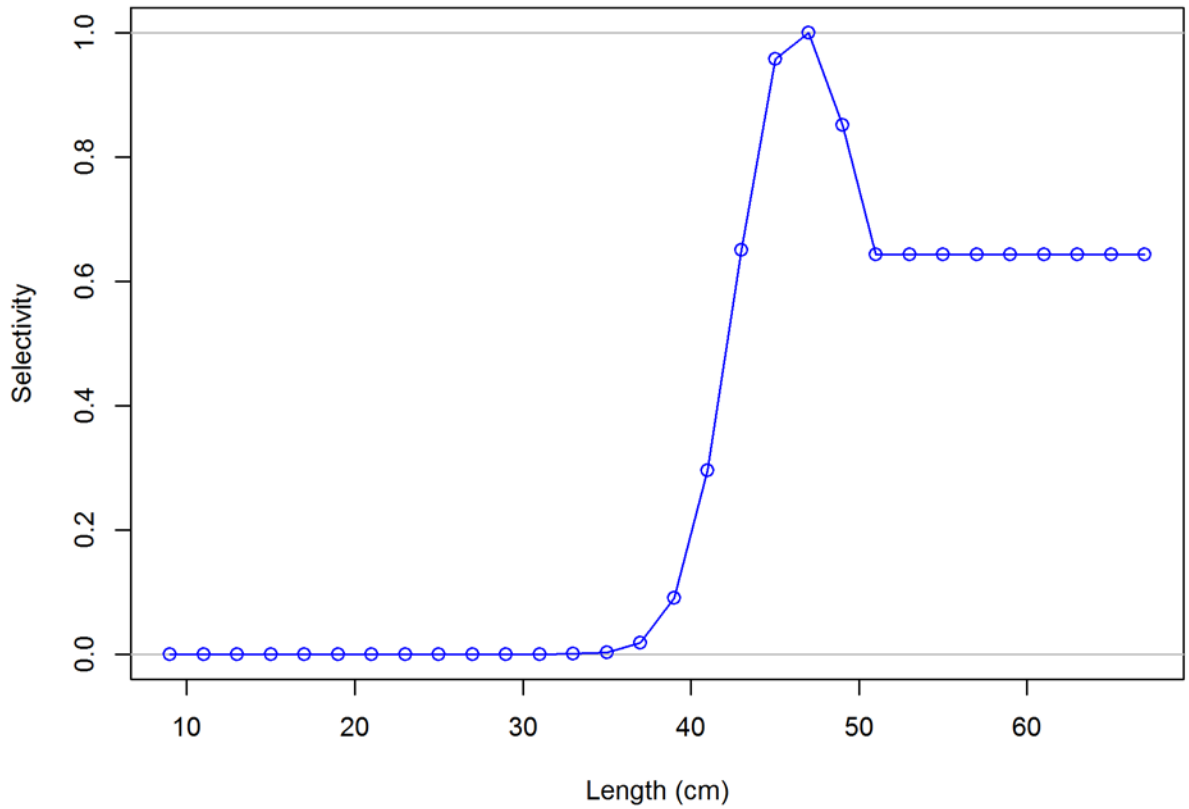


Figure 99 – Length-based selectivity for the WCGBTS fleets

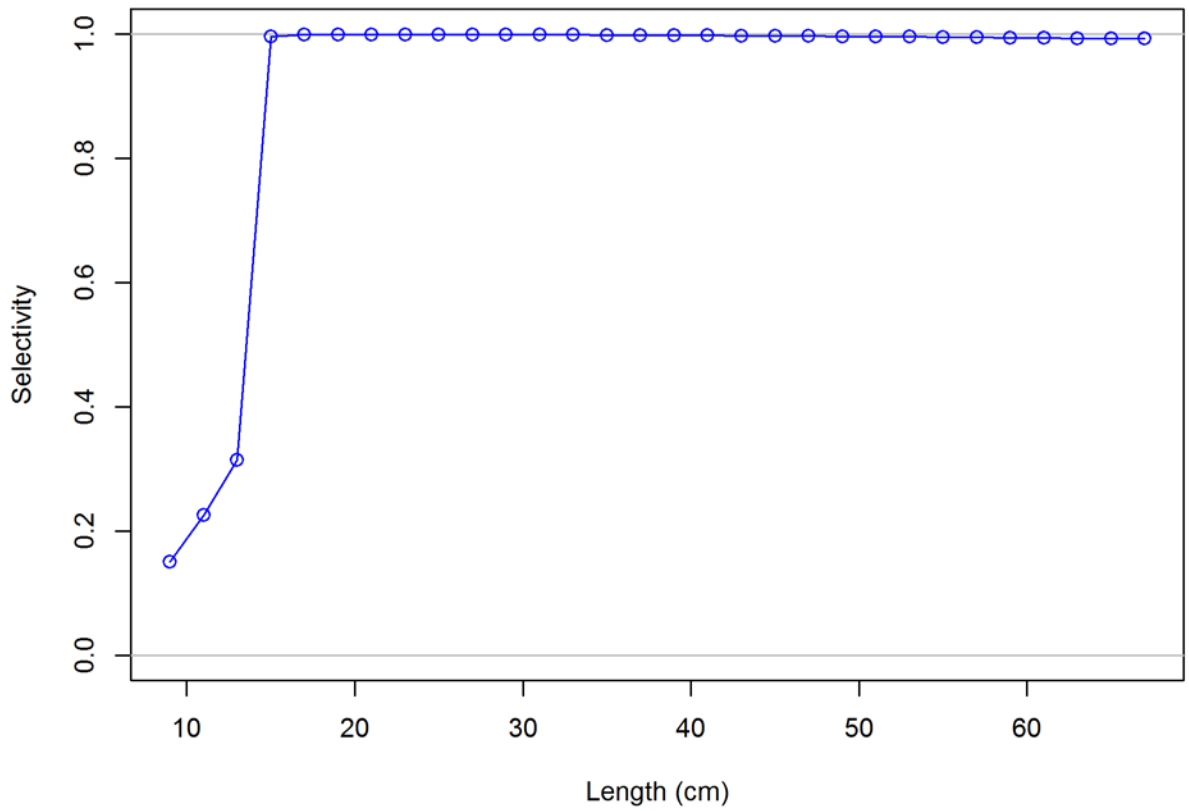


Figure 100 – Length-based selectivity for the early triennial (1980-1992) fleets

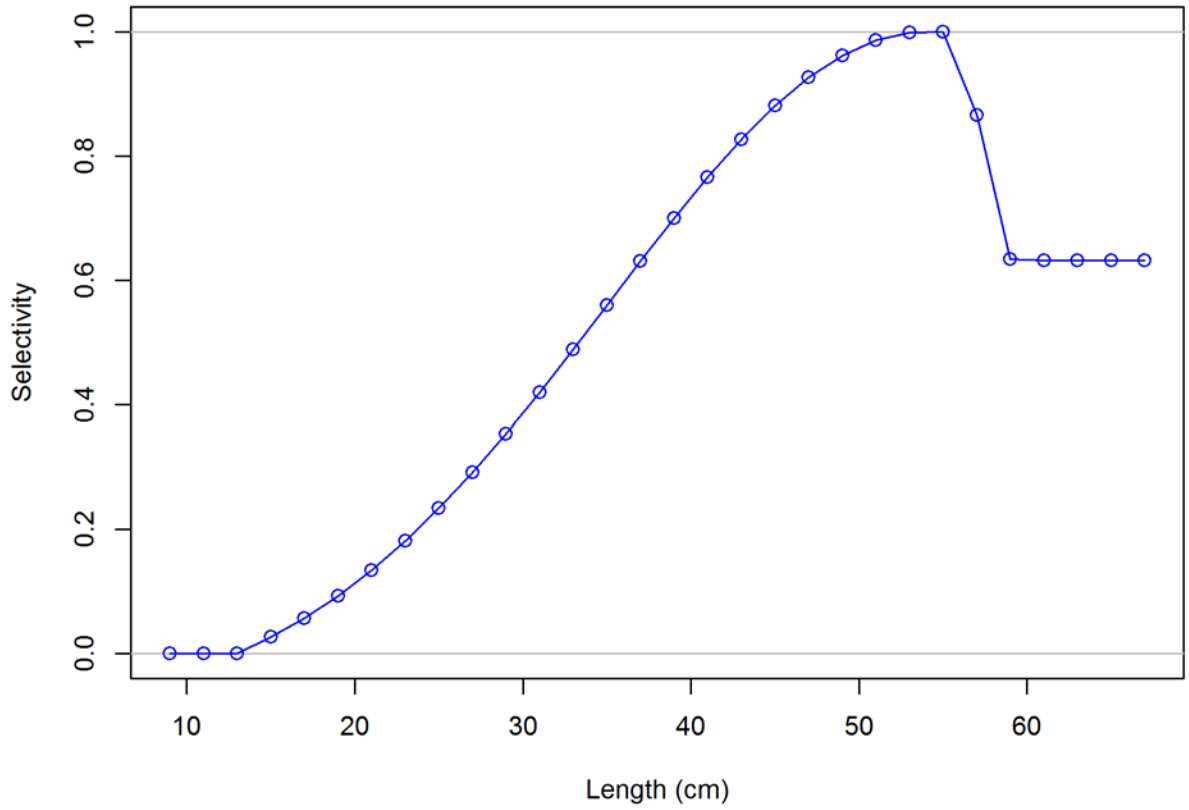


Figure 101 – Length-based selectivity for the late triennial (1995-2004) fleets

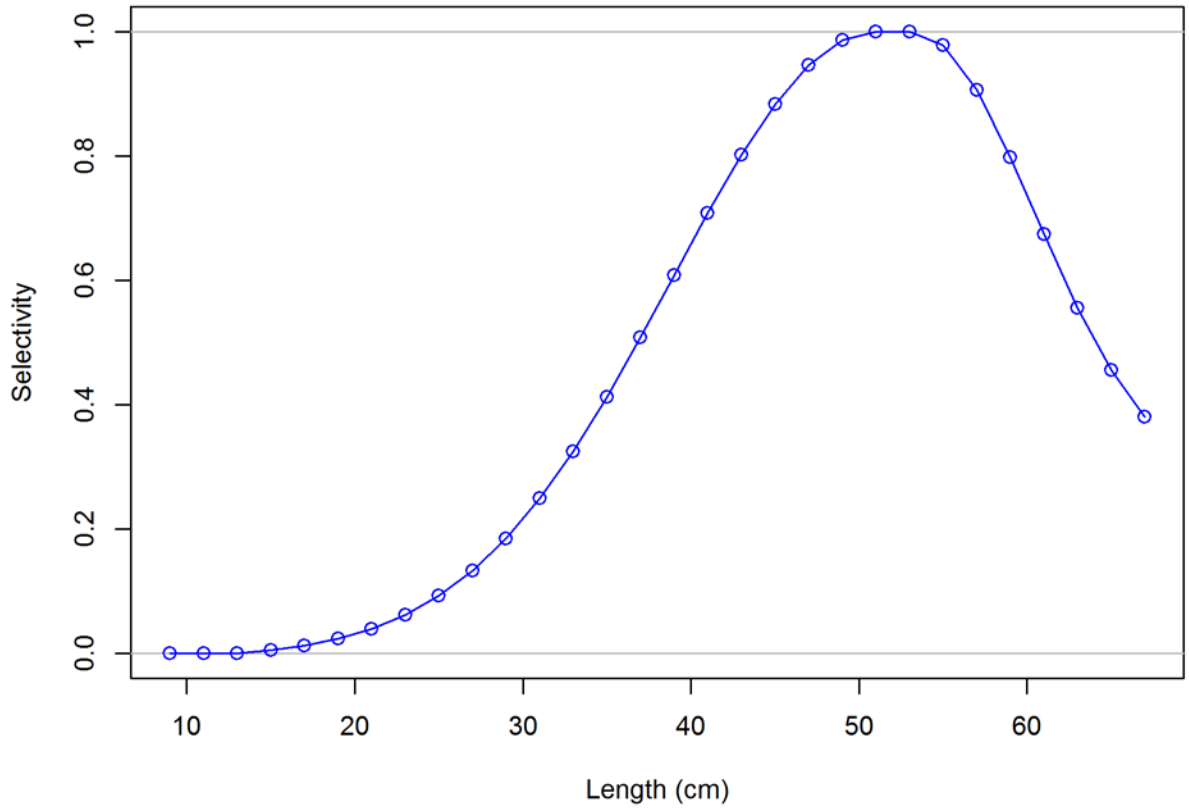


Figure 102 – Spawning output across all areas with 95% confidence interval

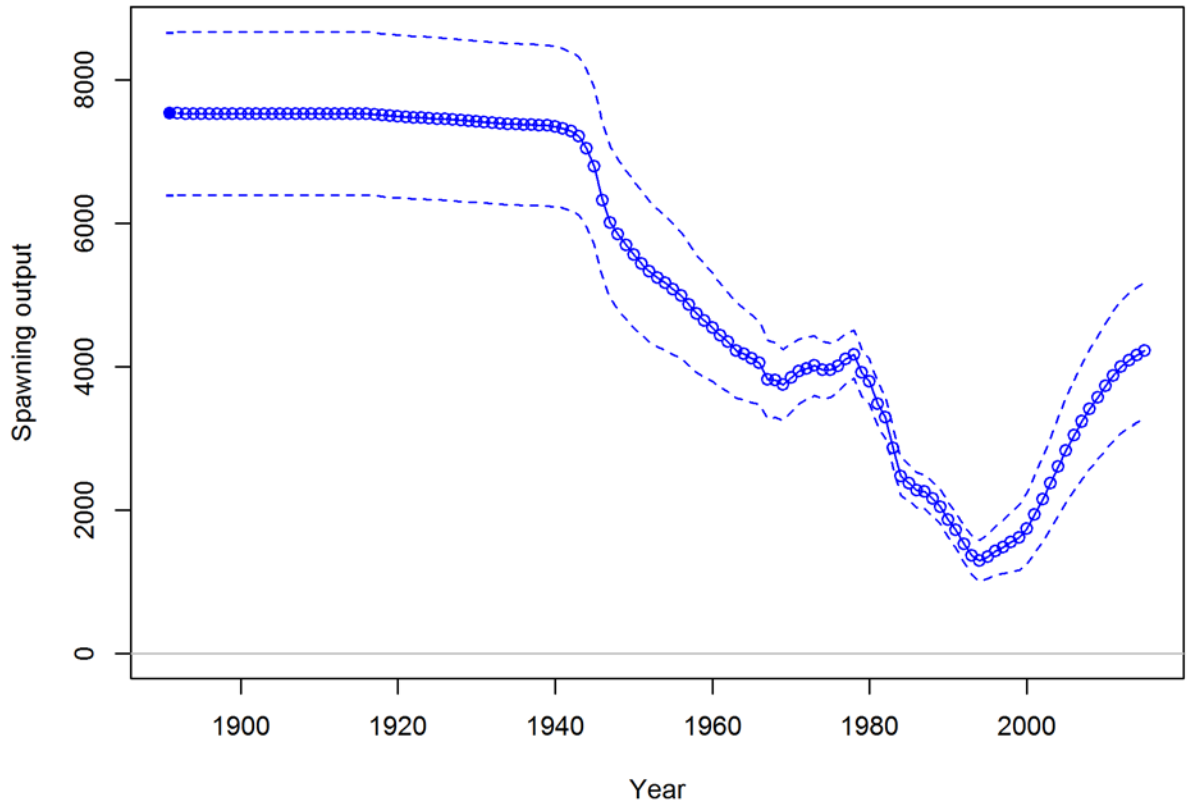


Figure 103 – Spawning output relative to average unfished spawning output across all areas with 95% confidence interval

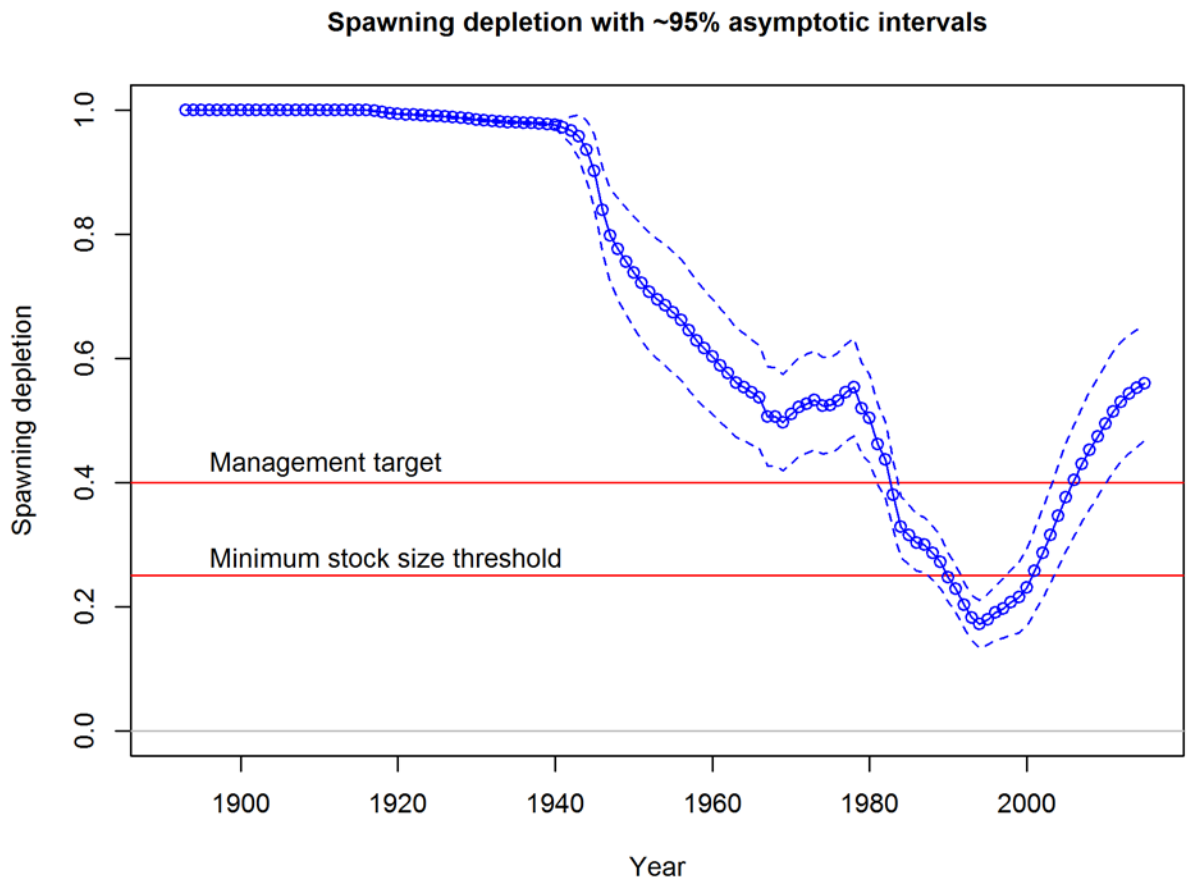


Figure 104 – Total biomass across all areas (top panel)

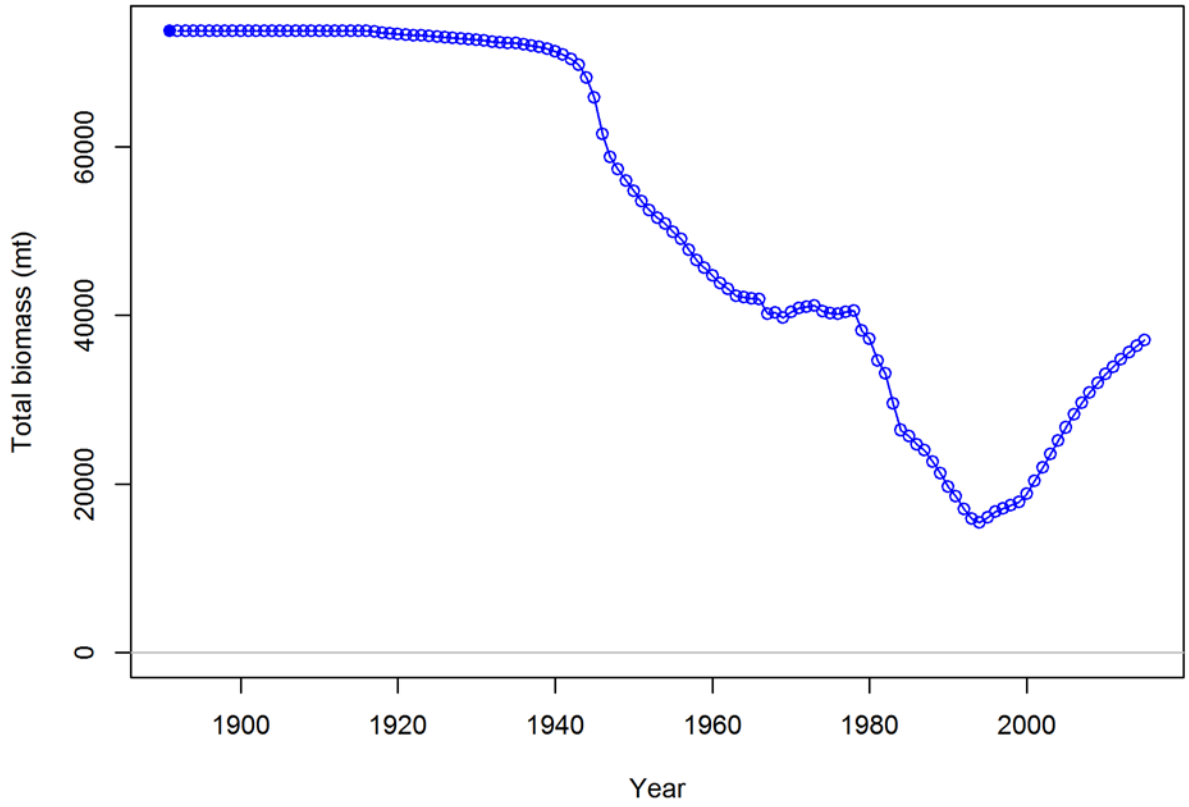


Figure 105 – Summary biomass (defined as biomass for all individuals age 5 or greater) across all areas

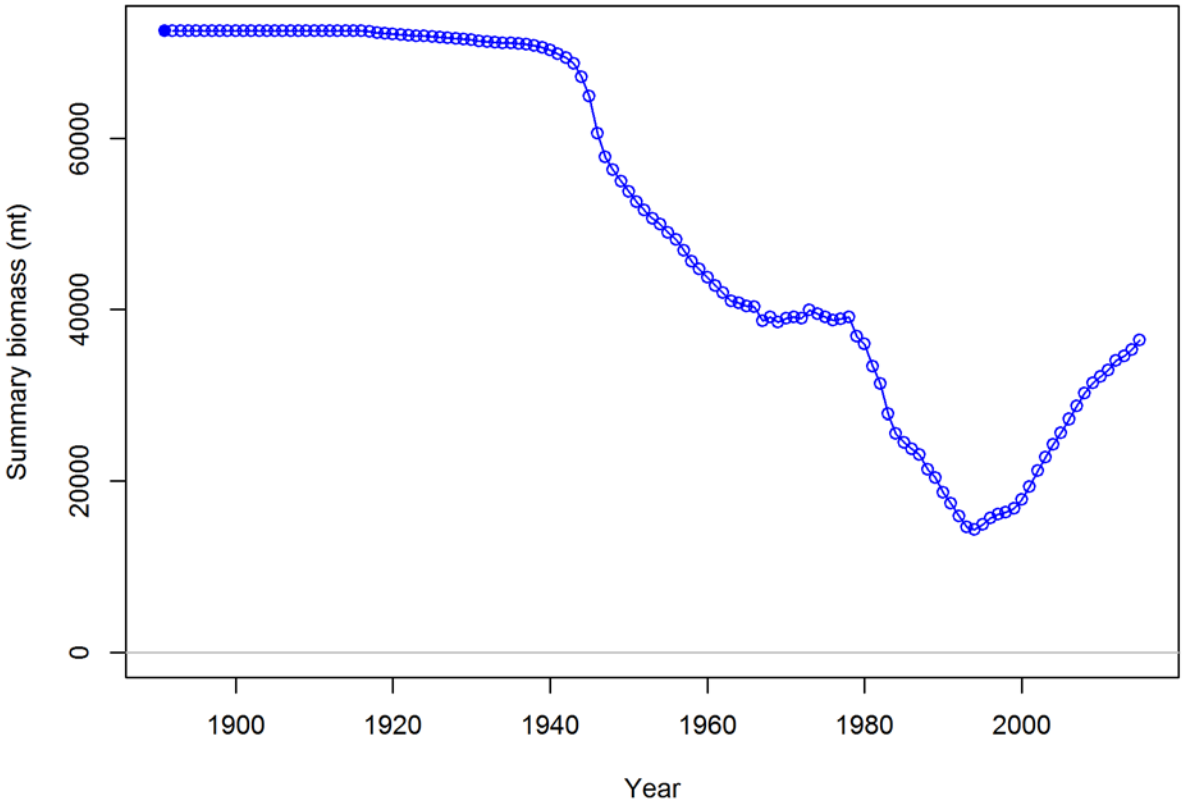


Figure 106 – Estimate fishing mortality rate aggregated across all three spatial areas

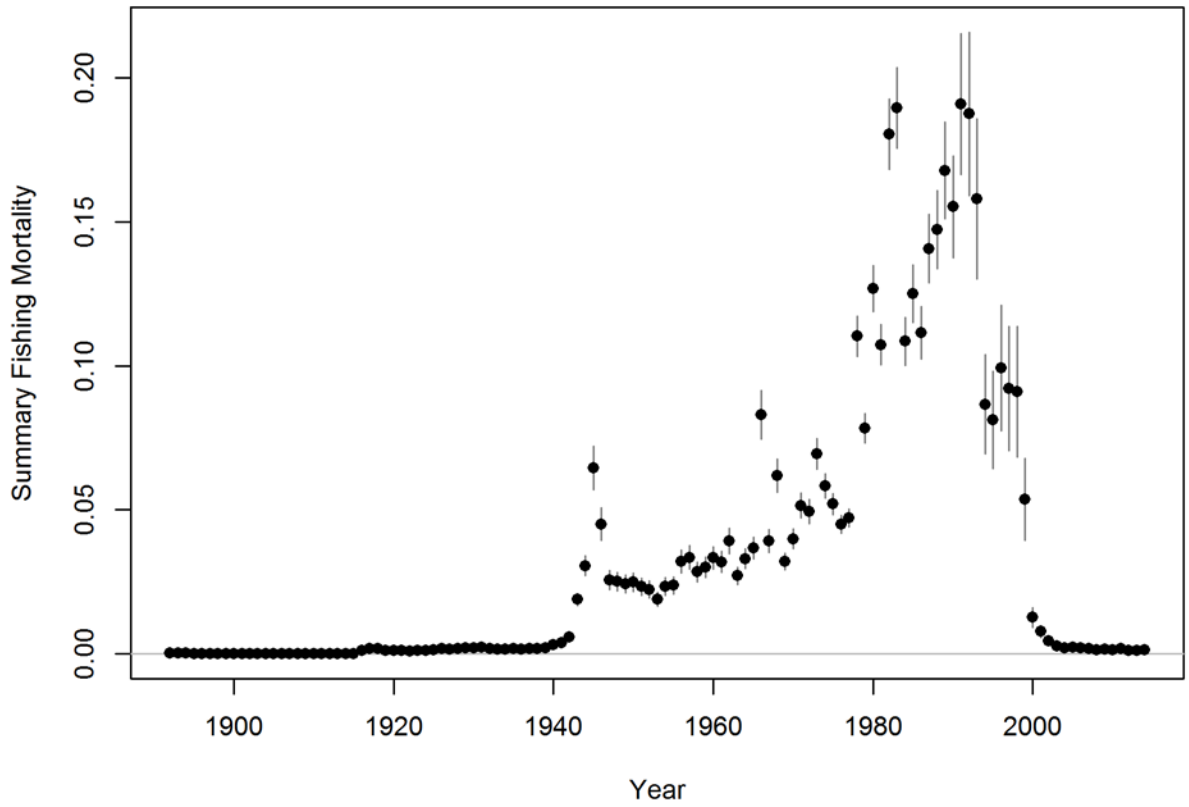


Figure 107 – Estimated recruitment deviations (circles) and 95% confidence intervals (whiskers) for the main recruitment deviations (black) and early deviations (blue).

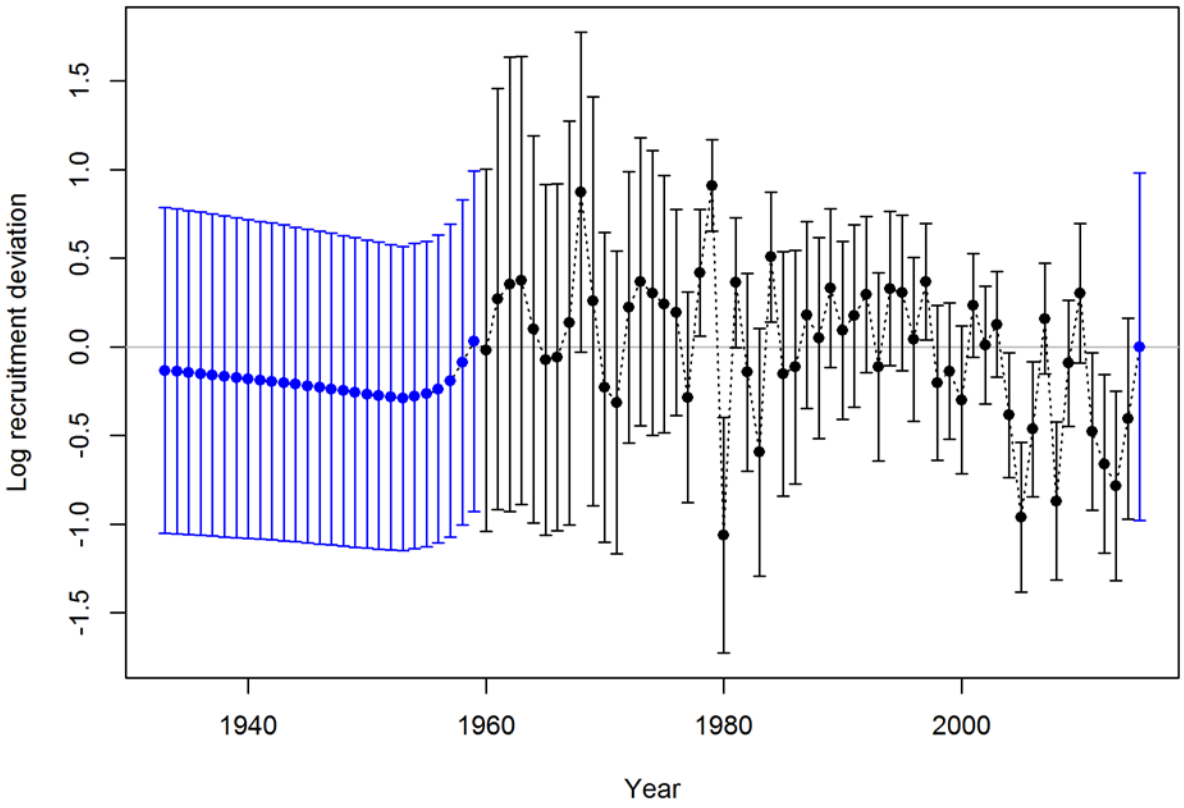


Figure 108 – Plots of estimated recruitment vs. spawning output, with years of high or low recruitment labeled, and the expected stock-recruit relationship indicated (black line: expectation; green line: median)

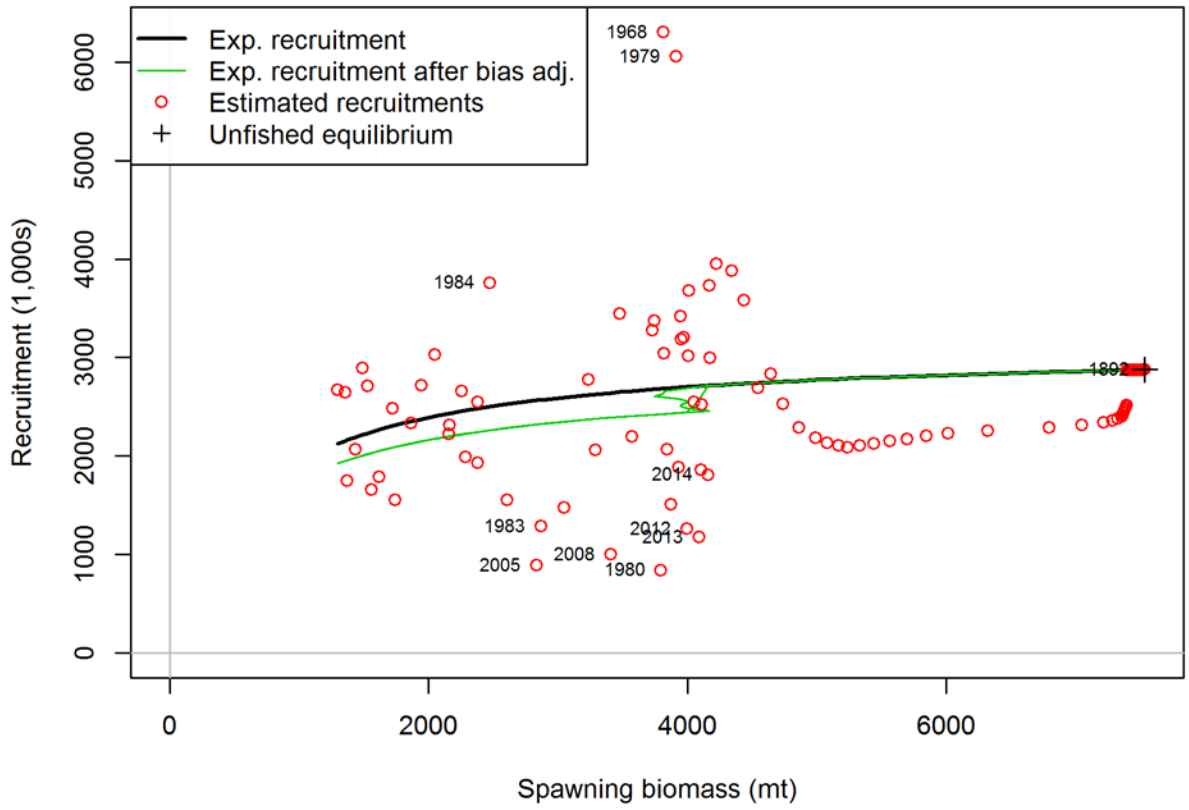


Figure 109 – Fraction of recruitment distributed among states (blue: CA, red: OR, green: WA)

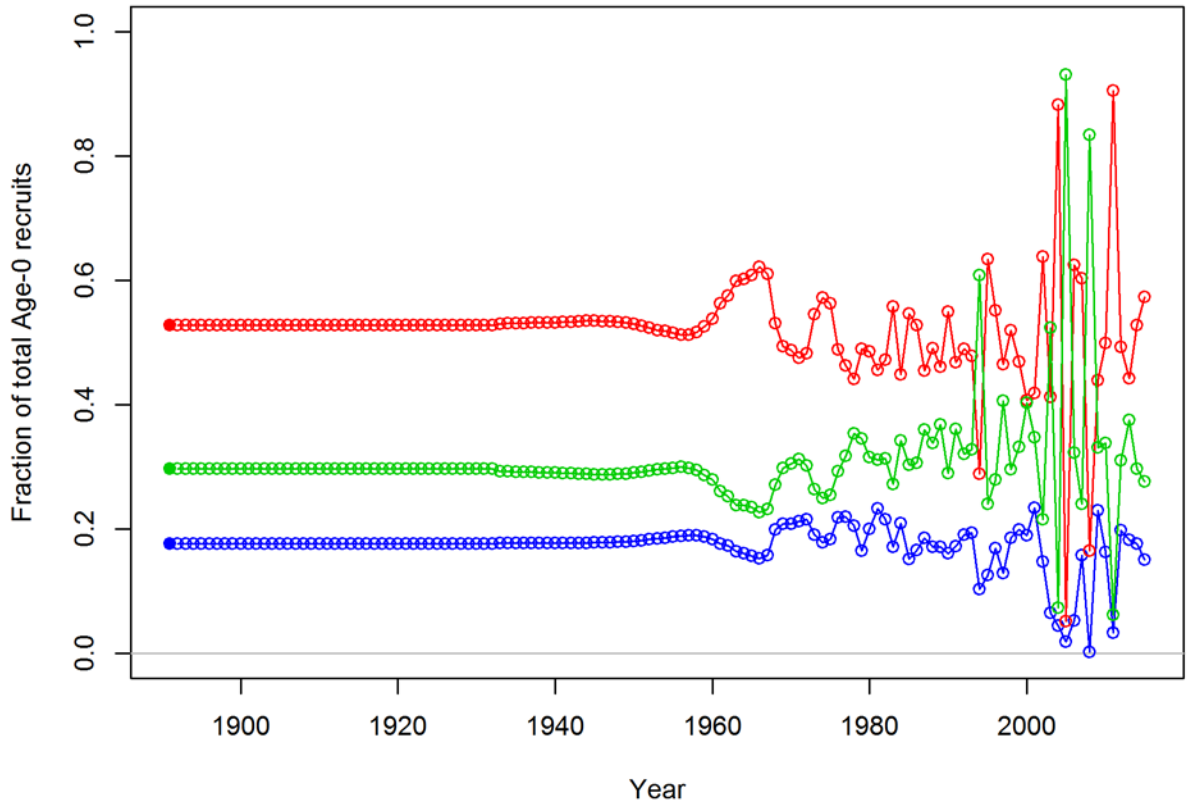


Figure 110 Ratio of spawning output and average unfished spawning output for models when varying the value of ln(R0).

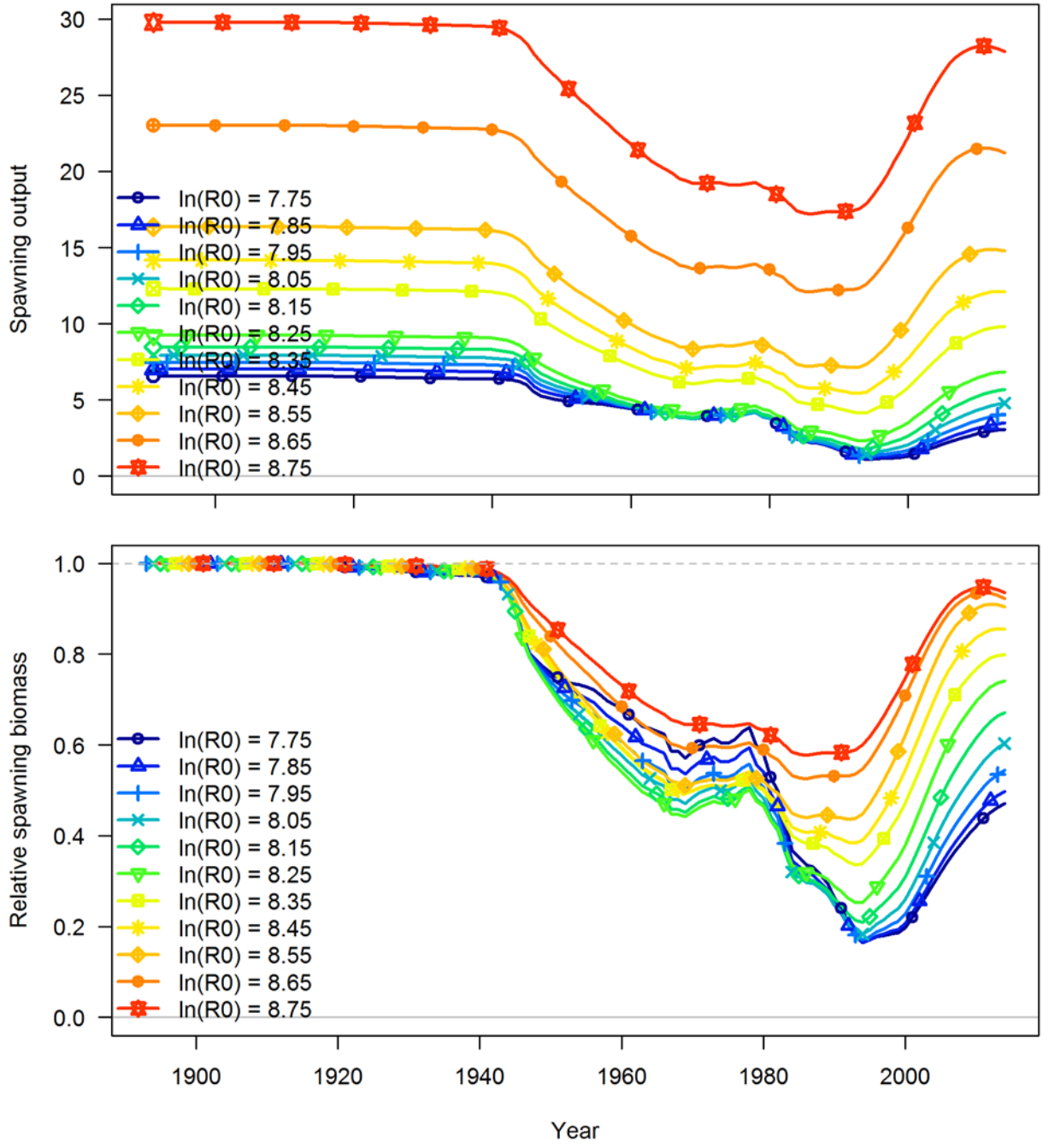


Figure 111 Ratio of spawning output and average unfished spawning output for models when varying the value of steepness.

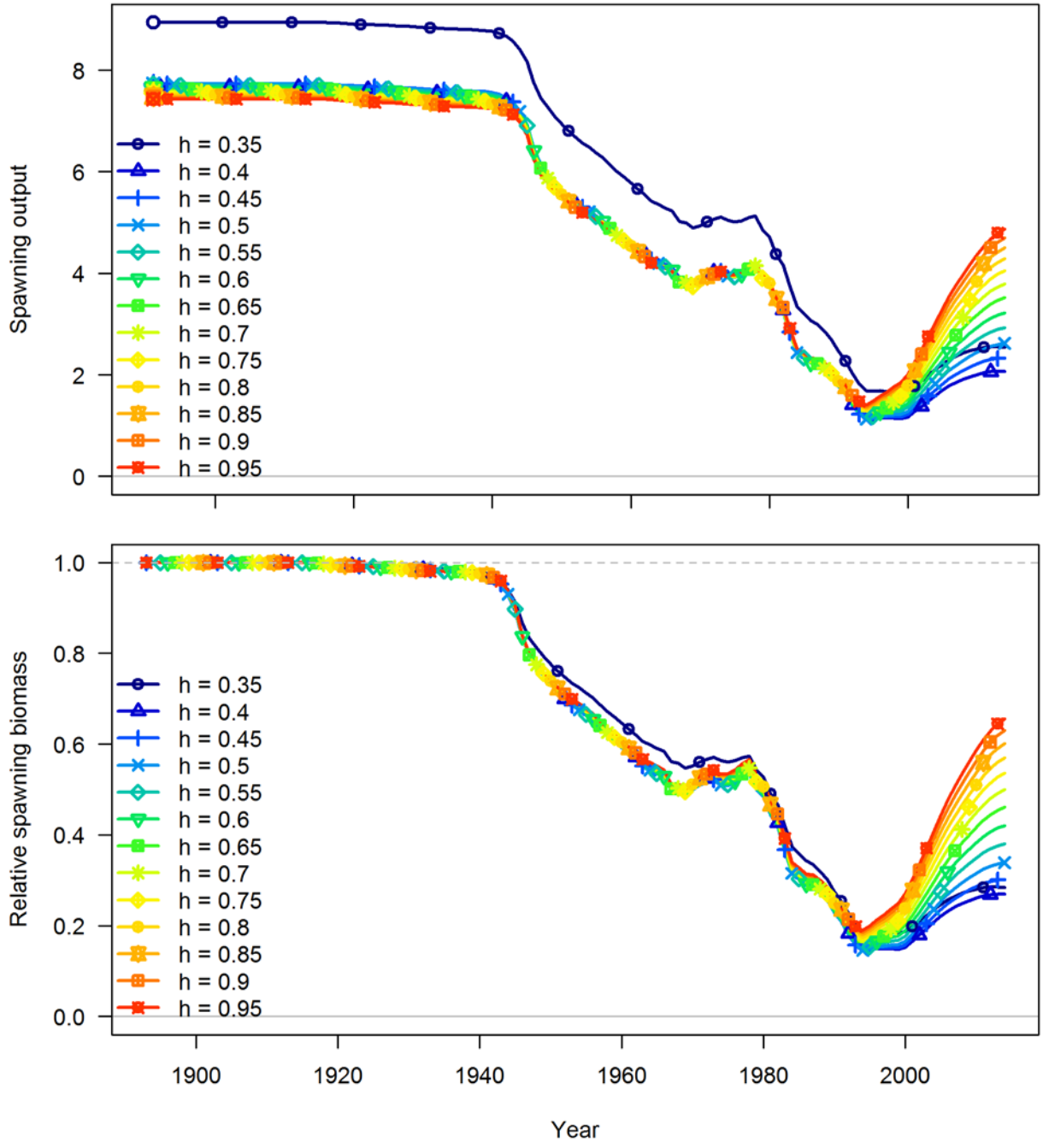


Figure 112 Ratio of spawning output and average unfished spawning output for models when varying the value of female juvenile and male natural mortality rate.

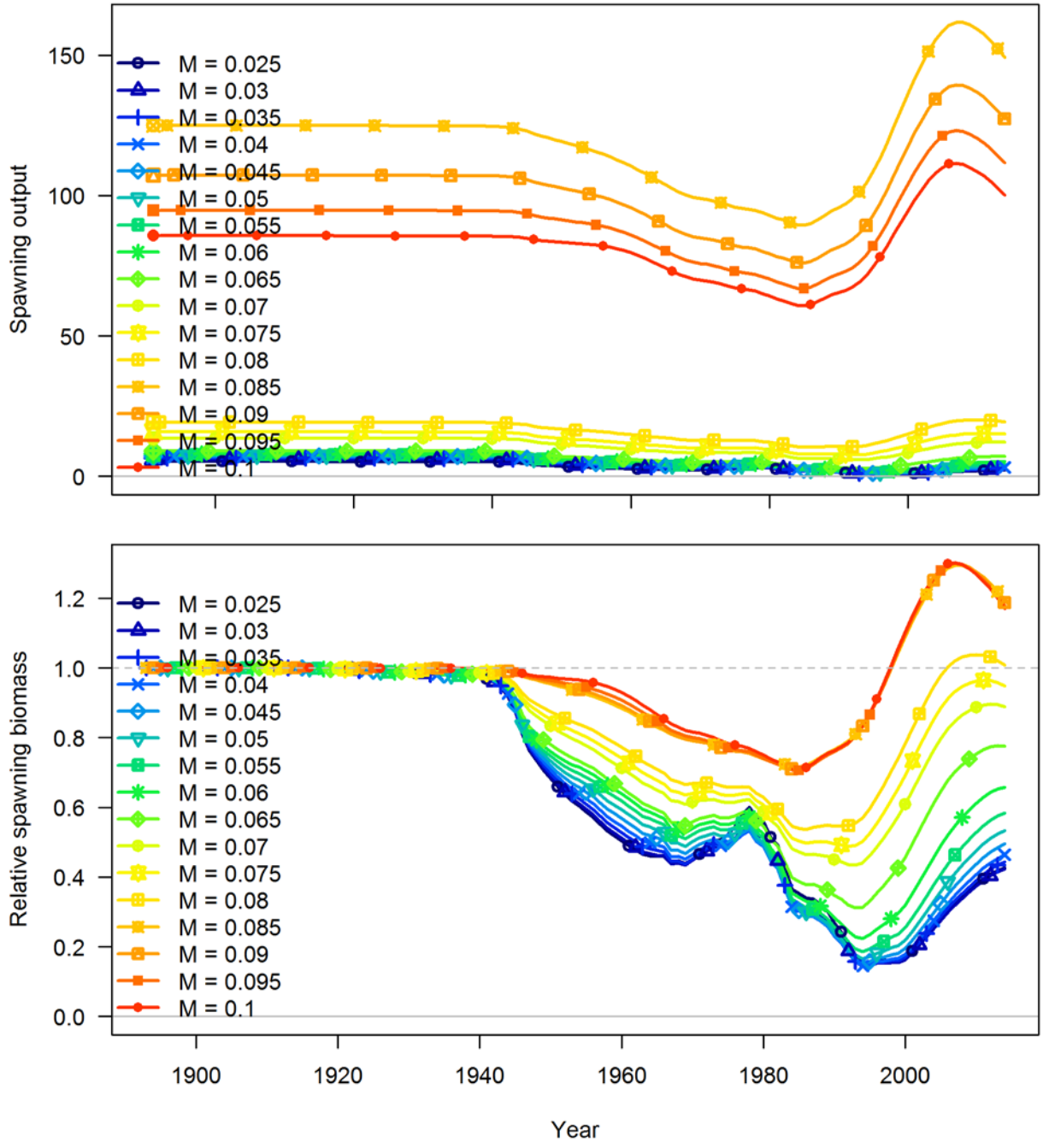


Figure 113 – Sensitivity analysis comparing different data-weighting approaches, showing spawning output (top panel) and spawning output relative average unfished levels (bottom panel)

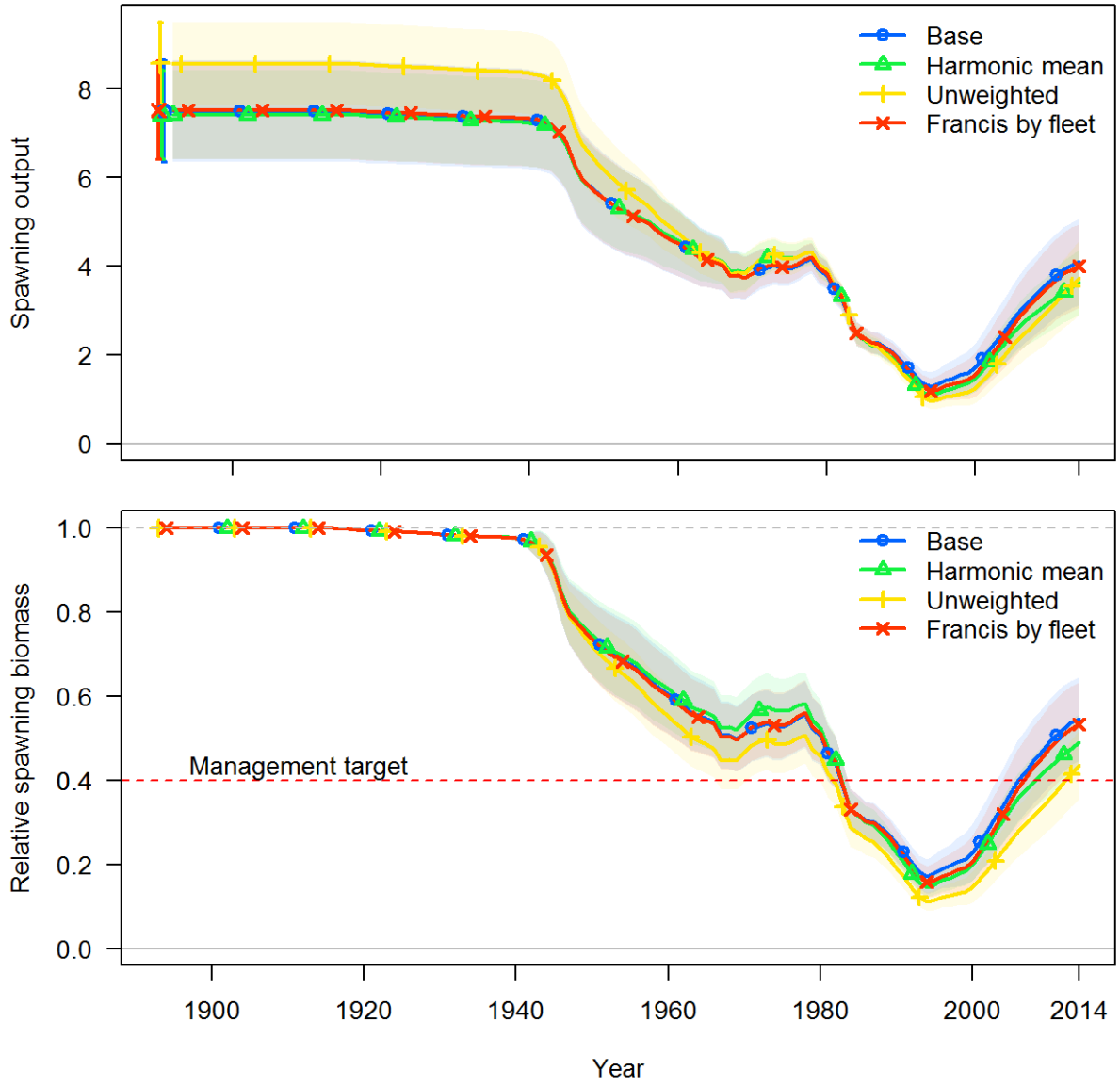


Figure 114 – Sensitivity analysis comparing the base model, a model that excludes all compositional data, a model that only includes compositional data from trawl fisheries, a model that excludes compositional data except for the trawl, and also fixes survey catchability, and a model that drops all survey indices of abundance showing spawning output (top panel) and spawning output relative average unfished levels (bottom panel)

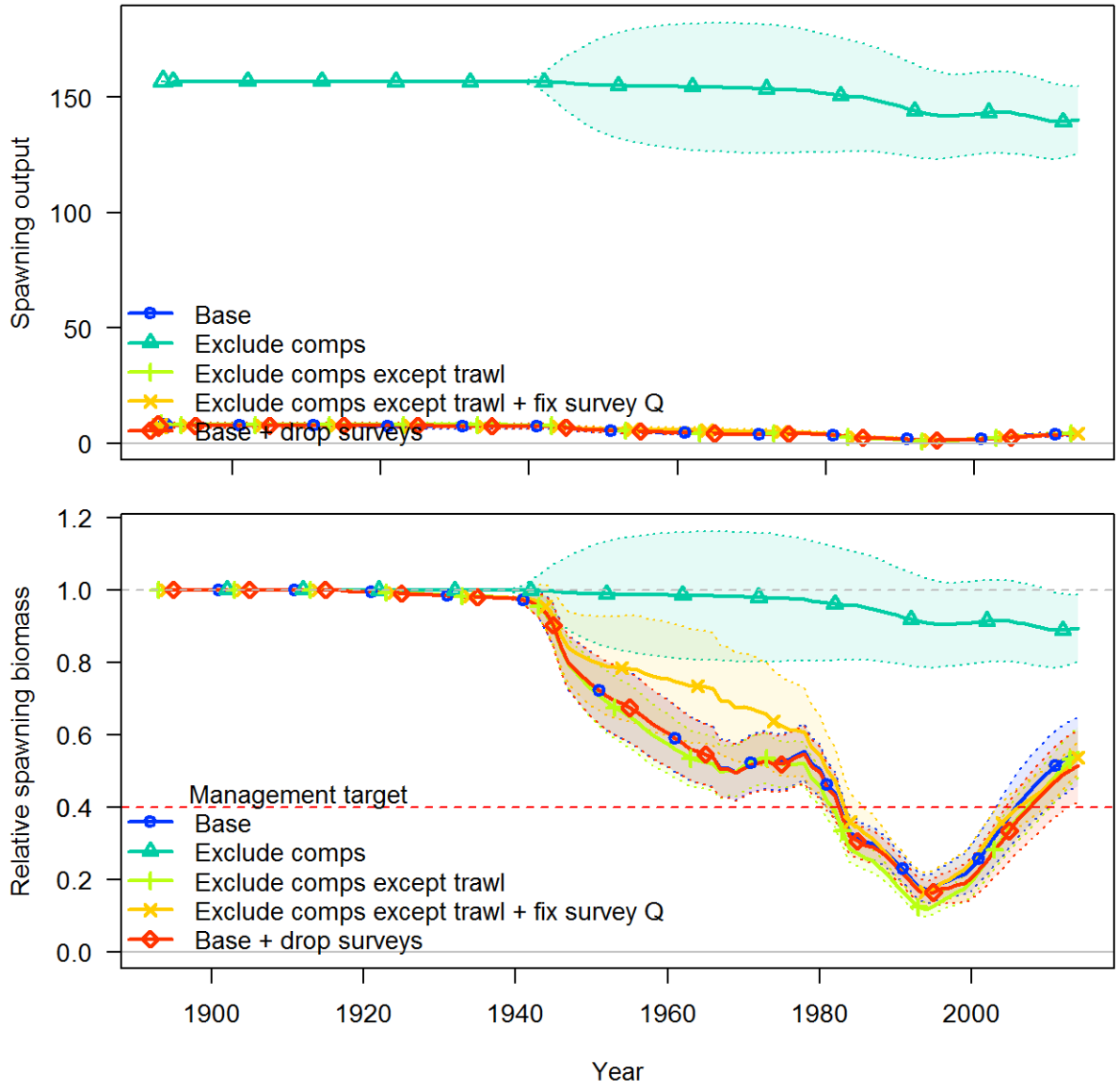


Figure 115– Sensitivity analysis comparing the base model using the geostatistical index for the WCGBTS data, a sensitivity model using the stratified index, and another sensitivity that excludes all indices estimated using WCGBTS data, showing spawning output (top panel) and spawning output relative average unfished levels (bottom panel)

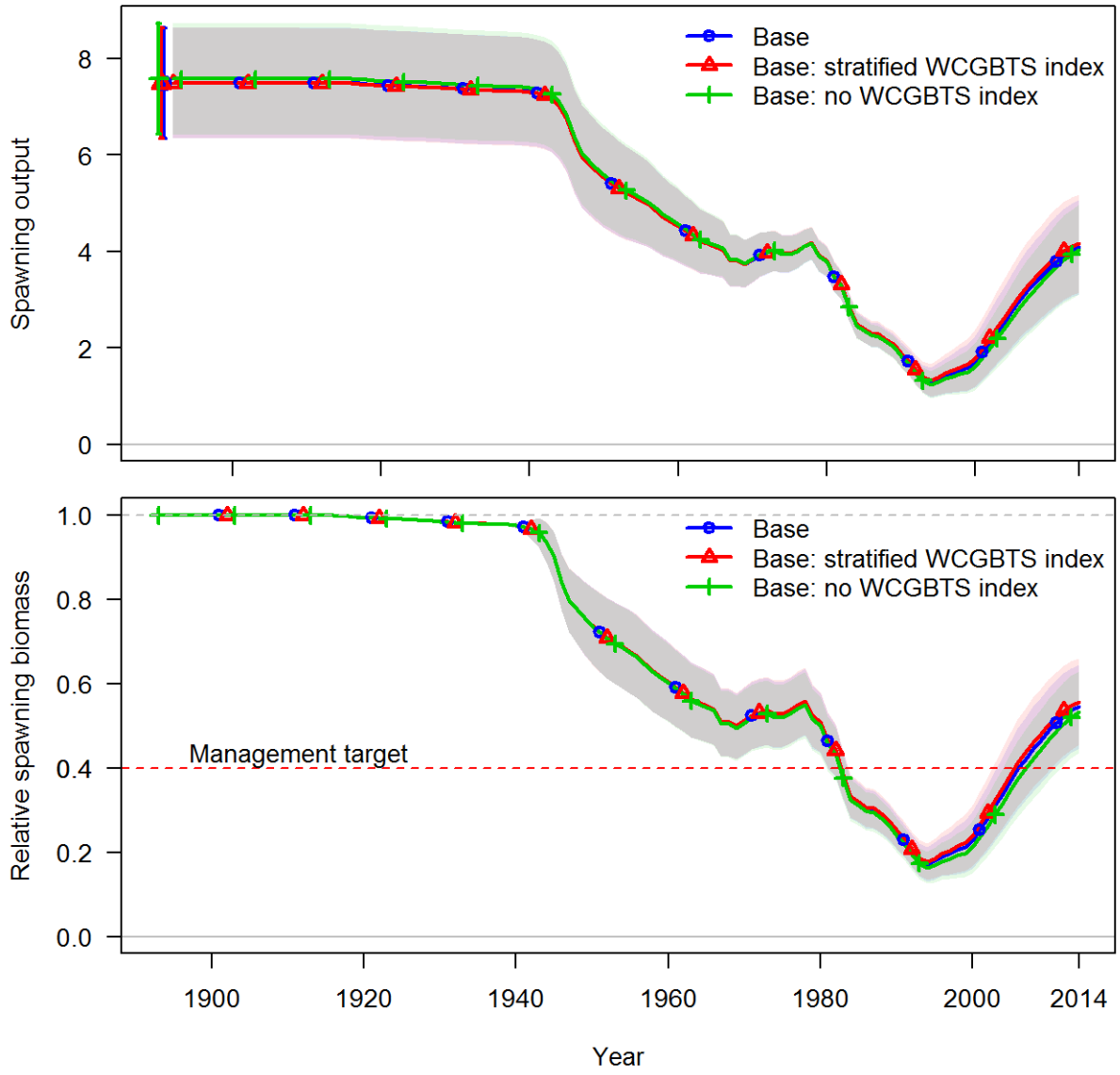


Figure 116 -- Sensitivity analysis comparing different assumptions regarding ageing bias and imprecision, showing spawning output (top panel) and spawning output relative average unfished levels (bottom panel)

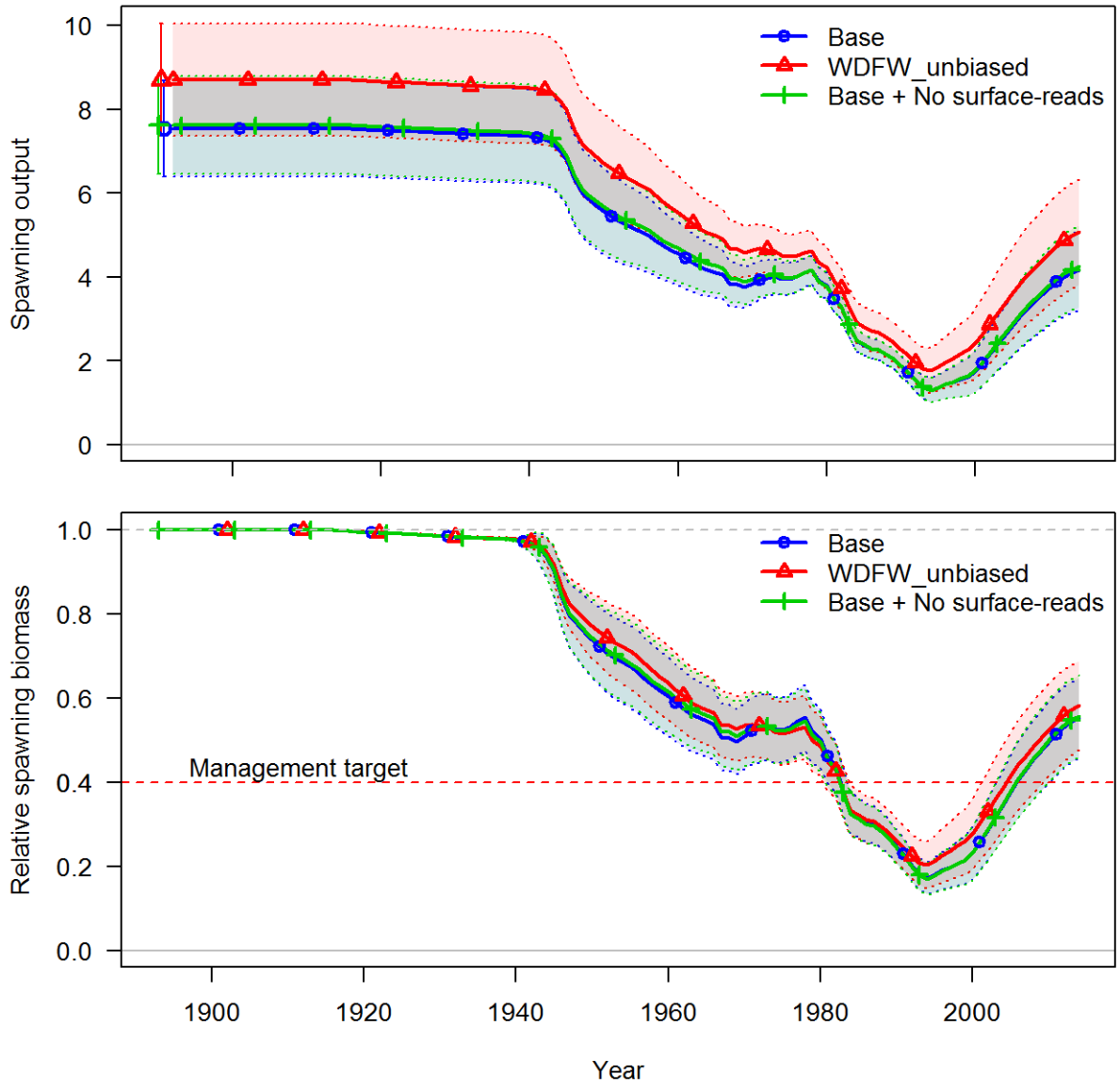


Figure 117 – Impact of low movement rates among strata on estimates of spawning output

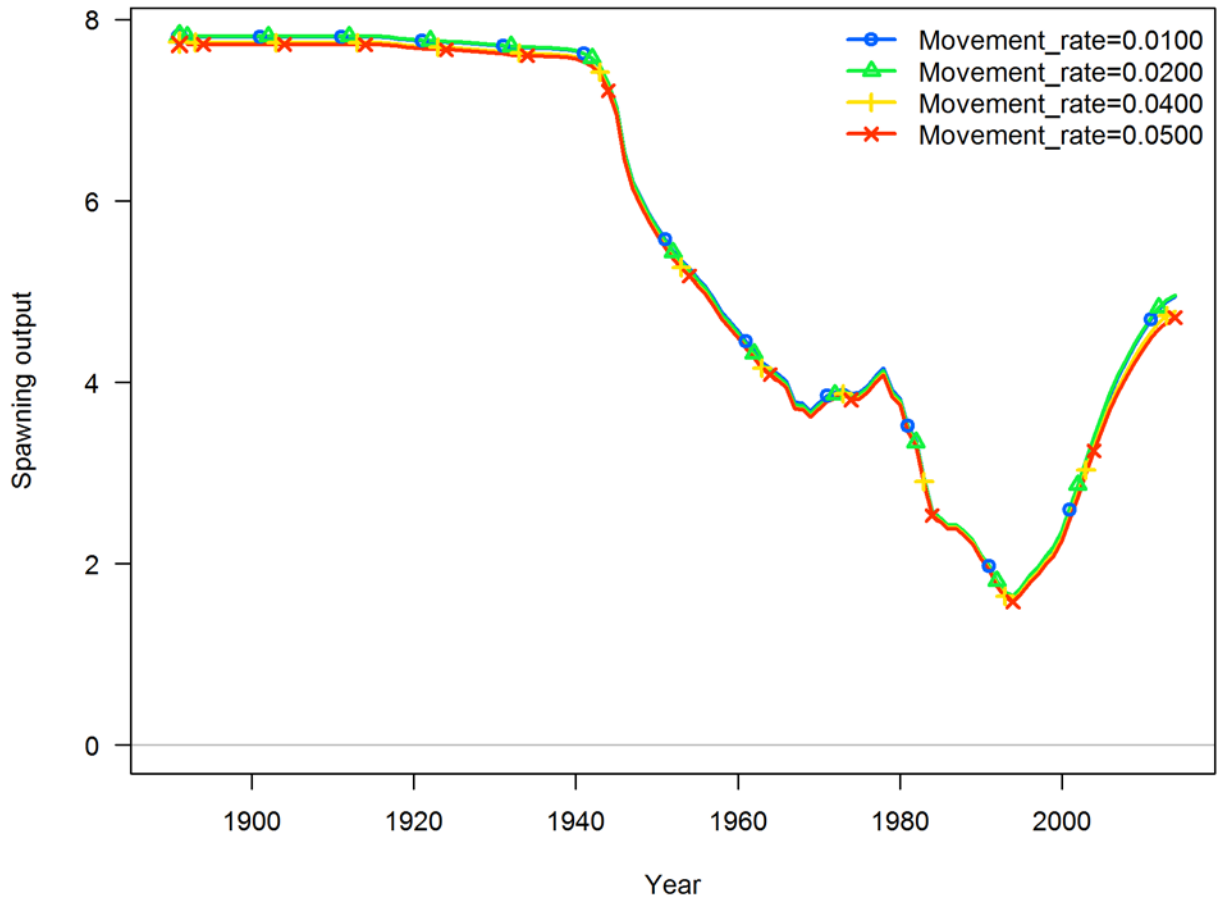


Figure 118 – Retrospective analysis comparing the impact of stripping away all data for 1 year through 8 years previous to 2014, showing spawning output (top panel) and spawning output relative average unfished levels (bottom panel) for each retrospective run

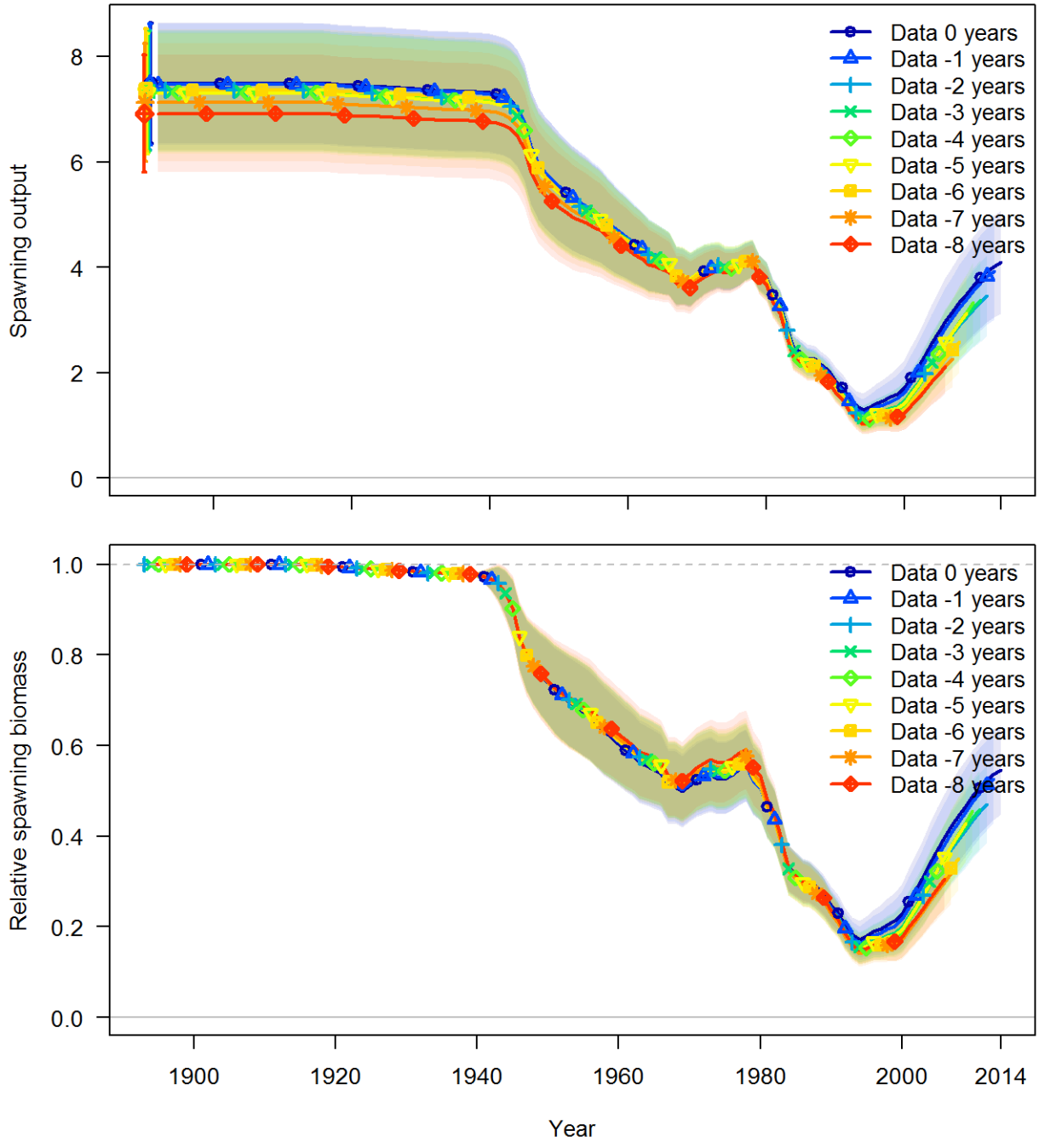


Figure 119 – Comparison spawning biomass (top panel) and estimated age-0 recruits (bottom panel) for all nine benchmark and update assessments conducted since 1994.

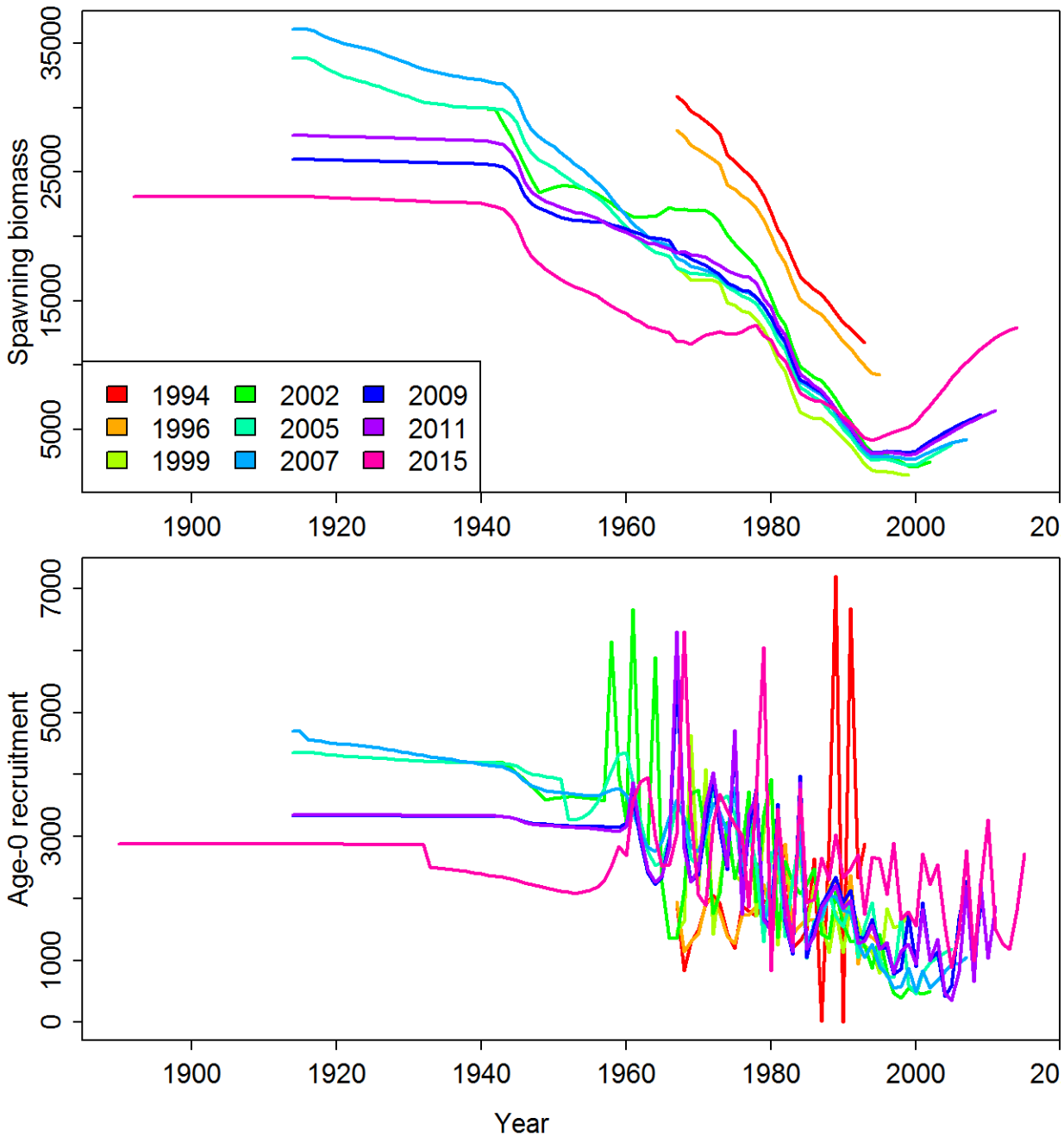


Figure 120 – Comparison of 2011 update and 2015 base models, using the 2011 (h=0.511) and 2015 (h=0.773) steepness values, showing relative spawning biomass (top panel) and age-0 recruits (bottom panel)

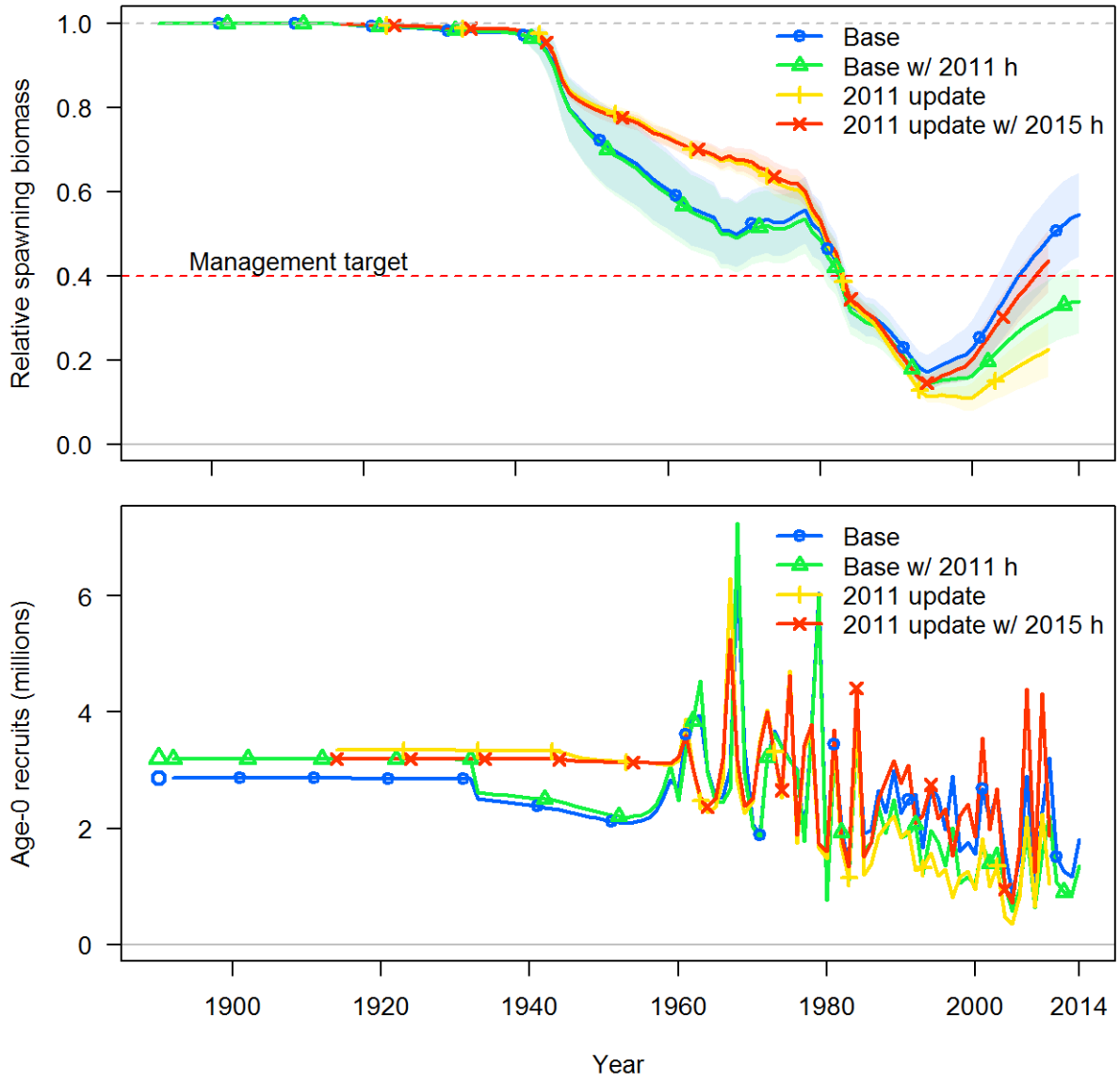


Figure 121 – Comparison of spawning output (top panel) and relative spawning output (bottom panel) for the base model and two alternative states of nature which differ by increasing or decreasing the strength of recruitment compensation (h=0.600, and h=0.946).

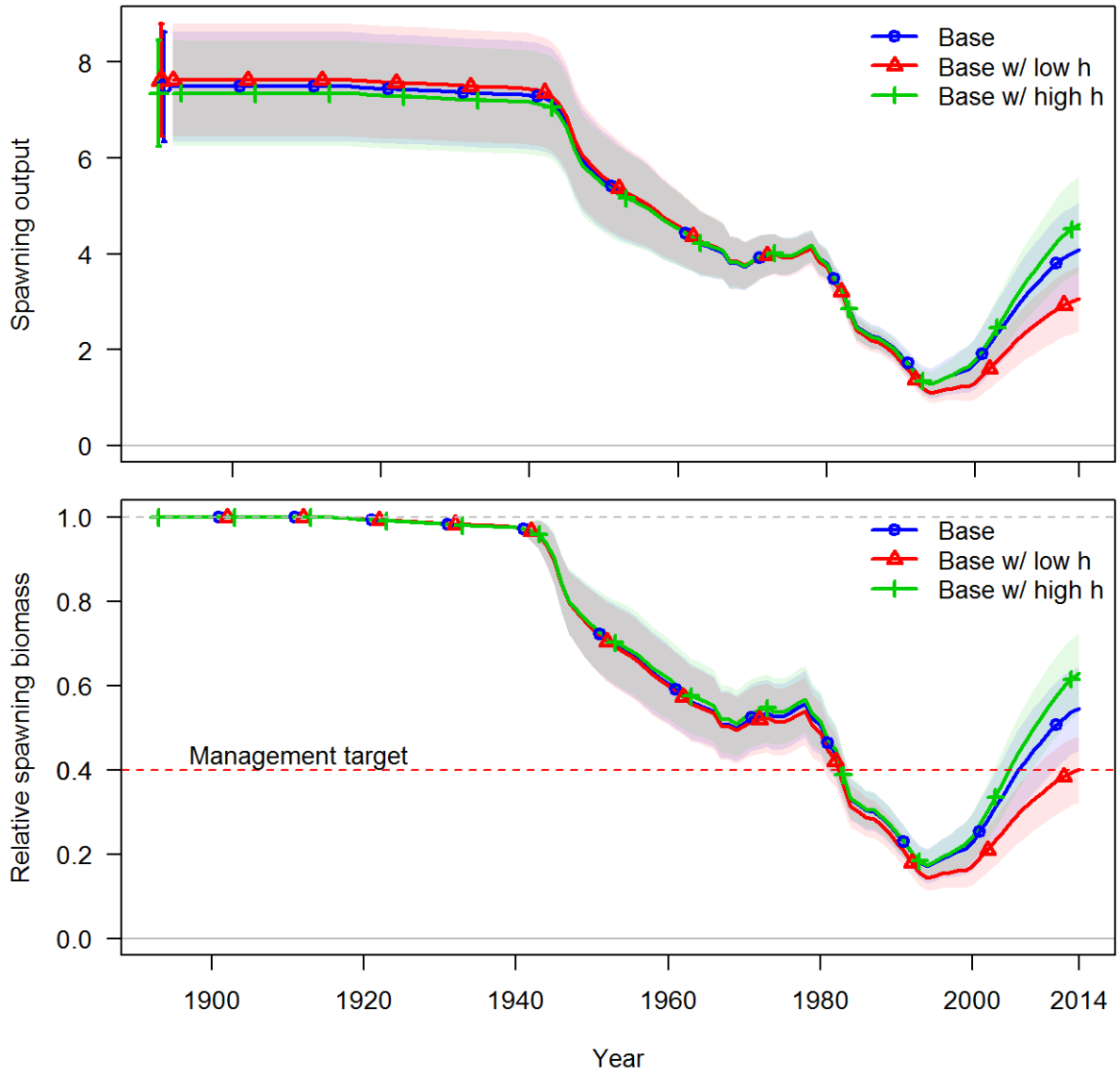


Figure 122– Comparison of recruitment (top panel) and recruitment deviations (bottom panel) for the base model and two alternative states of nature which differ by increasing or decreasing the strength of recruitment compensation (h=0.600, and h=0.946).

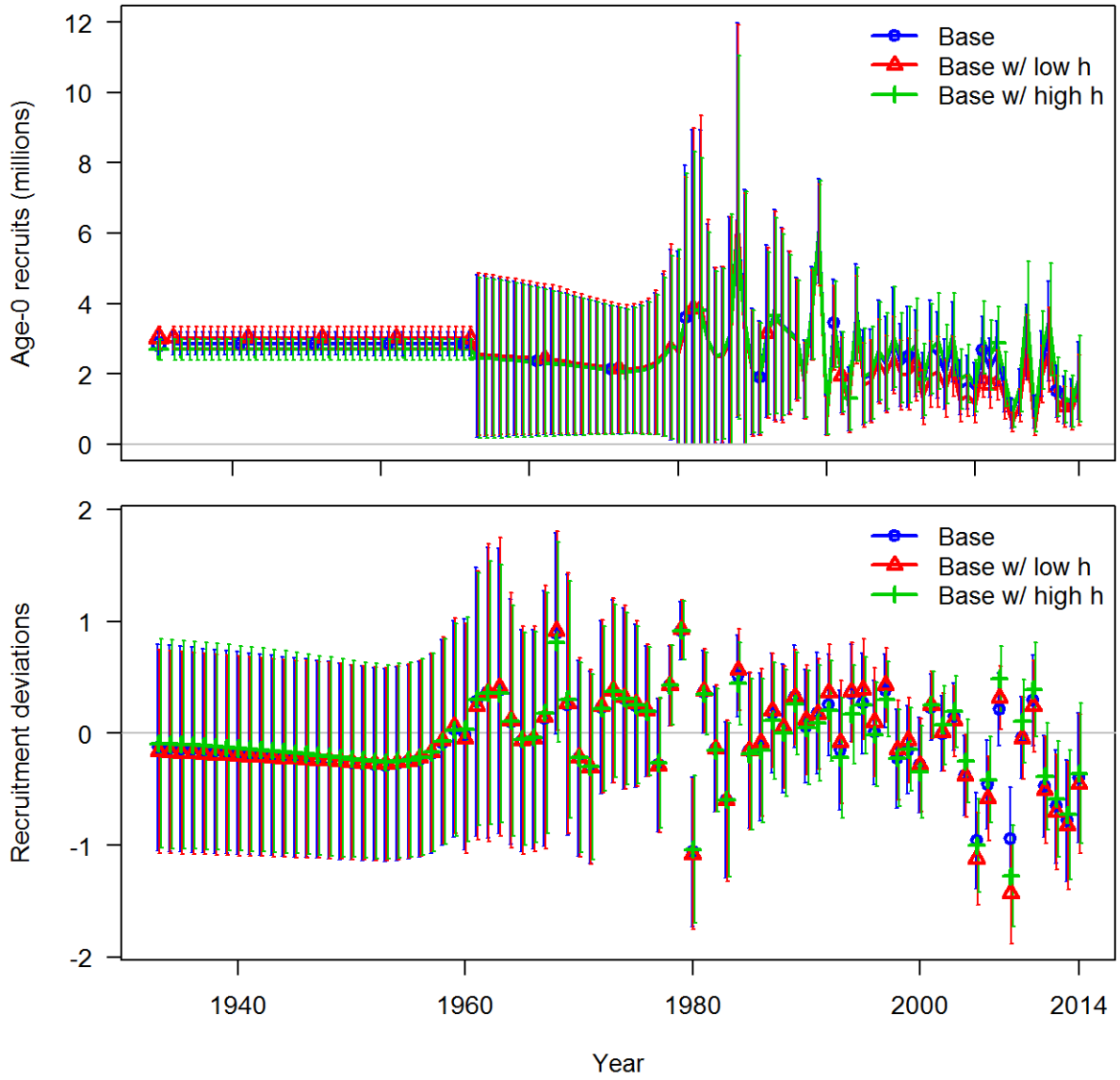


Figure 123– Comparison of spawning output (top panel) and relative spawning output (bottom panel) for the base model and two alternative states of nature which differ by increasing or decreasing the mortality rate for juvenile females and males of all ages, and while still estimating the offset of adult female mortality (M=0.025, and M=0.06).

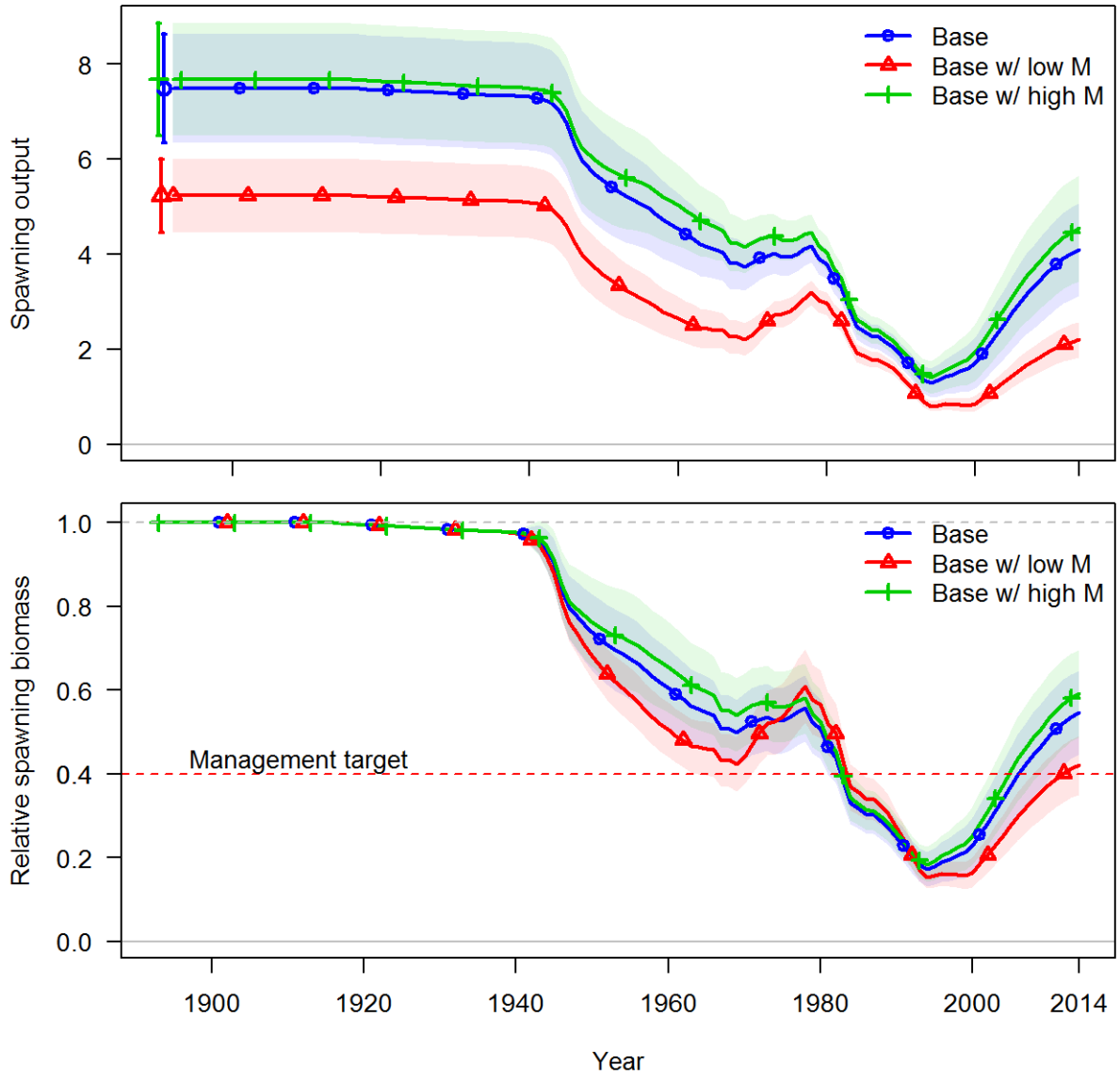
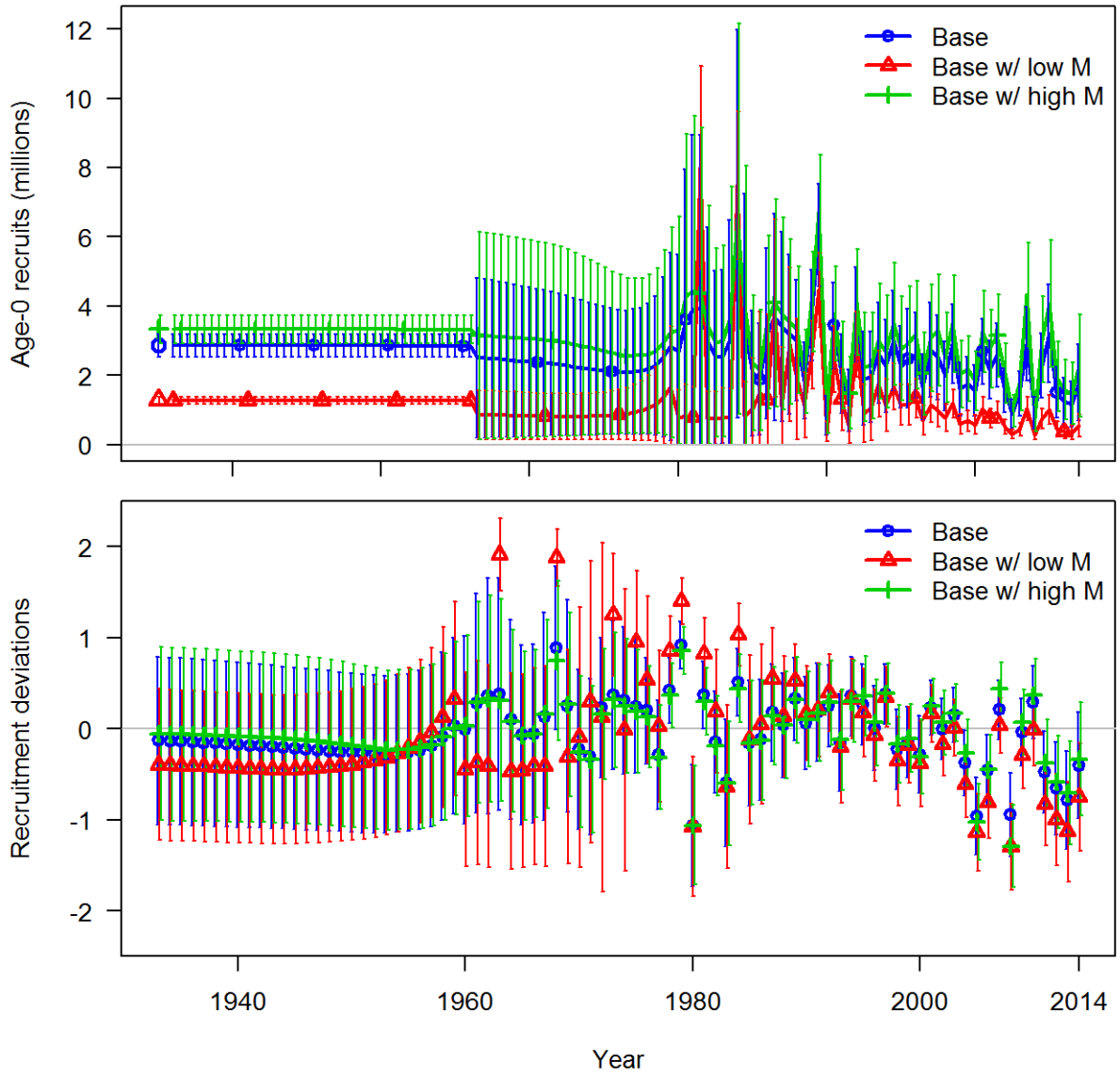


Figure 124– Comparison of recruitment (top panel) and recruitment deviations (bottom panel) for the base model and two alternative states of nature which differ by increasing or decreasing the mortality rate for juvenile females and males of all ages, and while still estimating the offset of adult female mortality (M=0.025, and M=0.06).



Appendix A. Numbers-at-age

Table A.1 Females numbers-at-age in California predicted by the base case model

	Age													
Year	0	1	2	3	4	5	6	7	8	9	10-19	20-29	30-39	40+
1892	1429	1357	1288	1222	1160	1101	1046	992	936	878	5641	2071	748	45
1893	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1894	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1895	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1896	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1897	1429	1357	1288	1222	1160	1101	1046	992	936	878	5640	2071	747	45
1898	1429	1357	1288	1222	1160	1101	1046	992	936	878	5640	2071	747	45
1899	1429	1357	1288	1222	1160	1101	1046	992	936	878	5640	2071	747	45
1900	1429	1357	1288	1222	1160	1101	1046	992	936	878	5640	2071	747	45
1901	1429	1357	1288	1222	1160	1101	1046	992	936	878	5641	2071	747	45
1902	1429	1357	1288	1222	1160	1101	1046	992	936	878	5641	2071	747	45
1903	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1904	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1905	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1906	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1907	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1908	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1909	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1910	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1911	1429	1357	1288	1222	1160	1101	1045	992	936	878	5641	2071	747	45
1912	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1913	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1914	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1915	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1916	1429	1357	1288	1222	1160	1101	1045	992	936	878	5640	2071	747	45
1917	1429	1357	1288	1222	1160	1101	1045	992	936	877	5634	2068	746	45
1918	1429	1357	1288	1222	1160	1101	1045	992	935	876	5624	2065	745	45
1919	1429	1356	1288	1222	1160	1101	1045	992	935	876	5615	2061	744	45
1920	1429	1356	1287	1222	1160	1101	1045	992	935	876	5610	2059	743	45
1921	1428	1356	1287	1222	1160	1101	1045	992	935	876	5606	2057	742	45
1922	1428	1356	1287	1222	1160	1101	1045	992	935	876	5603	2055	741	45
1923	1428	1356	1287	1222	1160	1101	1045	992	935	876	5602	2052	741	45
1924	1428	1356	1287	1222	1160	1101	1045	992	935	876	5601	2050	740	45
1925	1428	1356	1287	1222	1160	1101	1045	992	935	876	5599	2047	739	45
1926	1428	1356	1287	1222	1160	1101	1045	992	935	876	5597	2044	738	45
1927	1428	1356	1287	1222	1160	1101	1045	991	935	875	5593	2040	737	45
1928	1428	1355	1287	1222	1160	1101	1045	991	934	875	5590	2037	736	45
1929	1428	1355	1287	1221	1159	1101	1044	991	934	875	5587	2034	734	44
1930	1428	1355	1287	1221	1159	1100	1044	991	934	875	5583	2031	733	44
1931	1427	1355	1286	1221	1159	1100	1044	990	934	874	5578	2028	732	44
1932	1427	1355	1286	1221	1159	1100	1044	990	933	874	5572	2024	730	44
1933	1254	1355	1286	1221	1159	1100	1044	990	933	873	5570	2022	729	44
1934	1247	1190	1286	1221	1159	1100	1043	990	933	873	5569	2021	728	44
1935	1240	1184	1130	1221	1159	1100	1043	989	933	873	5569	2020	726	44
1936	1232	1177	1124	1073	1159	1099	1043	989	932	873	5566	2018	725	44
1937	1224	1170	1117	1067	1018	1099	1043	989	932	873	5566	2017	724	44
1938	1215	1162	1110	1061	1012	966	1042	988	931	872	5565	2015	723	44
1939	1206	1153	1103	1054	1006	960	916	988	931	872	5564	2014	722	44
1940	1197	1145	1095	1047	1000	955	911	868	931	871	5561	2013	721	44
1941	1188	1136	1087	1039	993	949	905	863	817	870	5550	2009	719	44
1942	1179	1128	1078	1031	986	942	899	858	812	764	5537	2004	717	43
1943	1170	1120	1070	1023	979	936	893	852	807	758	5415	1995	713	43
1944	1157	1111	1063	1016	971	929	887	845	798	747	5224	1961	700	42
1945	1144	1099	1055	1009	964	921	879	837	787	733	4980	1904	679	41

Table A.1 (cont.) Females numbers-at-age as predicted by the base case model

Year	0	1	2	3	4	5	6	7	8	9	10-19	20-29	30-39	40+
1946	1127	1086	1043	1001	957	914	871	825	770	707	4576	1783	636	38
1947	1113	1070	1031	990	950	907	864	819	764	699	4327	1705	608	37
1948	1100	1056	1016	978	939	901	859	816	764	704	4210	1662	593	36
1949	1086	1044	1003	964	928	890	852	810	761	704	4122	1620	579	35
1950	1074	1031	991	952	915	879	842	804	756	702	4057	1580	566	34
1951	1062	1019	979	941	903	866	831	794	750	697	4003	1537	552	33
1952	1051	1008	968	929	892	855	818	783	741	692	3965	1497	540	33
1953	1042	998	957	918	881	845	808	772	731	684	3963	1433	529	32
1954	1053	989	947	908	871	835	799	763	722	677	3973	1378	520	31
1955	1064	1000	939	899	861	825	789	753	712	666	3956	1324	508	31
1956	1092	1010	949	891	853	815	779	743	702	656	3930	1277	497	30
1957	1142	1037	959	901	845	807	769	732	690	644	3859	1229	482	29
1958	1262	1084	984	910	854	799	761	723	680	632	3778	1188	467	28
1959	1417	1198	1029	934	863	806	751	714	671	624	3720	1160	454	27
1960	1350	1345	1137	977	885	815	759	706	663	616	3655	1135	440	27
1961	1805	1281	1277	1079	926	837	768	713	655	607	3577	1110	425	26
1962	1949	1713	1216	1212	1023	877	790	723	663	601	3510	1089	411	25
1963	1974	1850	1626	1154	1149	968	827	743	670	605	3419	1068	387	24
1964	1496	1874	1756	1543	1095	1087	914	778	691	616	3397	1060	369	23
1965	1259	1420	1779	1667	1464	1036	1026	859	723	633	3366	1044	351	23
1966	1271	1195	1348	1688	1580	1384	976	963	796	660	3346	1021	334	22
1967	1510	1207	1134	1279	1601	1493	1301	910	878	706	3185	947	302	20
1968	3188	1433	1146	1076	1213	1513	1406	1221	843	802	3270	920	289	19
1969	1672	3026	1361	1087	1020	1146	1423	1313	1119	755	3330	871	271	18
1970	1033	1587	2871	1291	1031	964	1078	1335	1218	1025	3478	852	264	17
1971	944	981	1507	2726	1223	972	905	1009	1234	1109	3819	827	256	16
1972	1606	896	931	1430	2585	1155	914	846	929	1116	4144	793	246	13
1973	1840	1525	851	883	1353	2428	1082	853	779	842	4452	764	238	13
1974	1705	1747	1447	807	836	1271	2265	1005	779	695	4359	723	226	12
1975	1588	1619	1658	1373	764	784	1184	2100	922	701	4217	696	215	11
1976	1505	1508	1536	1573	1299	716	731	1097	1921	833	4133	681	206	11

1977	926	1429	1431	1458	1488	1216	665	676	1004	1736	4216	679	199	11
1978	1863	879	1356	1358	1379	1394	1128	615	618	905	5064	691	191	11
1979	3027	1768	835	1287	1284	1291	1291	1029	546	531	4679	674	172	10
1980	418	2873	1678	792	1214	1199	1194	1183	925	481	4229	670	160	9
1981	1722	397	2727	1592	747	1131	1106	1088	1048	791	3528	670	142	8
1982	1026	1635	377	2587	1503	695	1038	1007	969	906	3320	684	128	7
1983	637	973	1552	357	2438	1387	628	922	866	794	2986	628	105	6
1984	1877	605	924	1472	338	2285	1280	567	796	703	2659	524	86	5
1985	955	1782	574	877	1390	316	2119	1168	503	682	2628	474	77	4
1986	982	906	1691	544	826	1286	288	1912	1021	424	2539	427	69	4
1987	1322	932	860	1604	513	761	1161	259	1689	873	2299	400	64	3
1988	1140	1255	885	816	1510	475	690	1036	225	1419	2327	423	59	3
1989	1499	1082	1191	839	769	1391	431	614	896	188	2855	374	55	3
1990	1126	1423	1027	1130	792	717	1269	388	530	735	2219	303	49	2
1991	1242	1069	1350	974	1065	736	657	1133	337	437	2200	248	49	2
1992	1291	1179	1015	1281	918	988	672	588	965	272	1846	210	45	2
1993	834	1226	1119	963	1207	851	896	596	500	773	1467	186	41	1
1994	1369	791	1163	1062	907	1119	775	800	512	411	1655	171	35	1
1995	1261	1299	751	1103	1002	846	1032	704	712	443	1673	172	32	1
1996	992	1197	1233	712	1039	929	771	930	623	618	1734	174	31	1
1997	1451	941	1136	1170	671	964	851	693	816	530	1894	160	29	1
1998	804	1377	893	1077	1105	616	865	758	602	698	1957	172	33	1
1999	877	763	1307	847	1016	1036	562	776	667	511	2107	225	32	1
2000	781	833	724	1240	799	947	964	509	694	591	2252	204	30	1
2001	1341	741	791	687	1173	745	880	900	468	638	2523	241	29	2
2002	1085	1273	703	750	650	1106	698	825	841	433	2833	256	31	2

Table A.1 (cont.) Female numbers-at-age as predicted by the base case model

	Age													
Year	0	1	2	3	4	5	6	7	8	9	10-19	20-29	30-39	40+
2003	1290	1029	1208	668	712	616	1046	659	773	785	2943	257	35	1
2004	777	1224	977	1147	633	673	581	988	618	722	3276	356	38	1
2005	441	737	1162	927	1088	600	636	549	929	577	3576	392	42	1
2006	736	418	700	1103	880	1031	568	602	516	868	3699	437	45	2
2007	1451	698	397	664	1047	834	976	538	566	482	4028	534	46	4
2008	463	1377	663	377	630	993	791	924	506	529	3977	605	54	2
2009	1147	439	1307	629	358	598	942	749	870	473	3905	722	76	1
2010	1606	1088	417	1241	597	339	567	892	705	813	3825	813	72	1
2011	751	1524	1033	396	1177	566	322	537	840	659	4027	915	86	3
2012	629	712	1447	981	376	1113	536	305	506	786	4051	1031	91	3
2013	585	597	676	1373	930	356	1055	508	287	473	4267	1069	92	3
2014	903	555	567	642	1303	882	338	999	479	269	4049	1194	127	3

Table A.2 Male numbers-at-age as predicted by the base case model

							Age							
Year	0	1	2	3	4	5	6	7	8	9	10-19	20-29	30-39	40+
1892	1,429	1,357	1,288	1,222	1,160	1,101	1,046	992	942	894	6,790	4,033	2,395	187
1893	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,032	2,395	187
1894	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,032	2,395	187
1895	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,788	4,032	2,395	187
1896	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,788	4,032	2,394	187
1897	1,429	1,357	1,288	1,222	1,160	1,101	1,046	992	942	894	6,788	4,032	2,394	187
1898	1,429	1,357	1,288	1,222	1,160	1,101	1,046	992	942	894	6,788	4,032	2,394	187
1899	1,429	1,357	1,288	1,222	1,160	1,101	1,046	992	942	894	6,788	4,032	2,394	187
1900	1,429	1,357	1,288	1,222	1,160	1,101	1,046	992	942	894	6,788	4,032	2,394	187
1901	1,429	1,357	1,288	1,222	1,160	1,101	1,046	992	942	894	6,789	4,031	2,394	187
1902	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1903	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1904	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1905	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1906	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1907	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1908	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1909	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1910	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1911	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1912	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,789	4,031	2,394	187
1913	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,788	4,031	2,394	187
1914	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,788	4,031	2,394	187
1915	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,788	4,031	2,394	187
1916	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,788	4,031	2,394	187
1917	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	942	894	6,780	4,026	2,391	187
1918	1,429	1,357	1,288	1,222	1,160	1,101	1,045	992	941	893	6,769	4,019	2,387	187

1919	1,429	1,356	1,288	1,222	1,160	1,101	1,045	992	941	892	6,757	4,011	2,382	186
1920	1,429	1,356	1,287	1,222	1,160	1,101	1,045	992	941	893	6,752	4,006	2,380	186
1921	1,428	1,356	1,287	1,222	1,160	1,101	1,045	992	941	893	6,747	4,001	2,377	186
1922	1,428	1,356	1,287	1,222	1,160	1,101	1,045	992	941	893	6,744	3,996	2,374	186
1923	1,428	1,356	1,287	1,222	1,160	1,101	1,045	992	941	893	6,743	3,992	2,372	186
1924	1,428	1,356	1,287	1,222	1,160	1,101	1,045	992	941	893	6,740	3,986	2,369	185
1925	1,428	1,356	1,287	1,222	1,160	1,101	1,045	992	941	893	6,739	3,981	2,366	185
1926	1,428	1,356	1,287	1,222	1,160	1,101	1,045	992	941	892	6,736	3,975	2,363	185
1927	1,428	1,356	1,287	1,222	1,160	1,101	1,045	991	940	892	6,730	3,967	2,358	184
1928	1,428	1,355	1,287	1,222	1,160	1,101	1,045	991	940	892	6,727	3,961	2,354	184
1929	1,428	1,355	1,287	1,221	1,159	1,100	1,044	991	940	892	6,723	3,955	2,350	184
1930	1,428	1,355	1,287	1,221	1,159	1,100	1,044	991	940	891	6,719	3,949	2,345	184
1931	1,427	1,355	1,286	1,221	1,159	1,100	1,044	990	939	891	6,713	3,942	2,340	183
1932	1,427	1,355	1,286	1,221	1,159	1,100	1,044	990	939	890	6,705	3,935	2,335	183
1933	1,254	1,355	1,286	1,221	1,159	1,100	1,043	990	939	890	6,703	3,931	2,330	182
1934	1,247	1,190	1,286	1,221	1,159	1,100	1,043	990	939	890	6,702	3,928	2,326	182
1935	1,240	1,184	1,130	1,221	1,159	1,100	1,043	989	938	890	6,701	3,925	2,323	182
1936	1,232	1,177	1,124	1,073	1,159	1,099	1,043	989	938	889	6,698	3,922	2,318	181
1937	1,224	1,170	1,117	1,067	1,018	1,099	1,042	989	938	889	6,698	3,920	2,315	181
1938	1,215	1,162	1,110	1,061	1,012	966	1,042	988	937	889	6,696	3,917	2,311	181
1939	1,206	1,153	1,103	1,054	1,006	960	916	988	937	888	6,694	3,915	2,308	181
1940	1,197	1,145	1,095	1,047	1,000	955	911	868	937	888	6,690	3,912	2,304	180
1941	1,188	1,136	1,087	1,039	993	949	905	863	822	887	6,678	3,905	2,298	180
1942	1,179	1,128	1,088	1,031	986	942	899	858	817	779	6,662	3,894	2,290	179
1943	1,170	1,120	1,080	1,023	979	936	893	852	812	773	6,531	3,875	2,278	178
1944	1,157	1,111	1,063	1,016	971	928	886	845	803	762	6,311	3,800	2,234	174
1945	1,144	1,099	1,055	1,009	964	921	879	837	793	749	6,024	3,676	2,164	169

Table A.4 (cont.) Male numbers-at-age as predicted by the base case model

	Age													
Year	0	1	2	3	4	5	6	7	8	9	10-19	20-29	30-39	40+
1946	1,127	1,086	1,043	1,001	957	914	870	825	776	725	5,537	3,416	2,019	157

1947	1,113	1,070	1,031	990	950	907	864	818	770	717	5,239	3,246	1,925	150
1948	1,100	1,056	1,016	978	939	900	859	816	770	720	5,100	3,151	1,875	146
1949	1,086	1,044	1,003	964	928	890	852	810	766	719	4,990	3,060	1,826	142
1950	1,074	1,031	991	952	915	879	842	804	761	717	4,905	2,973	1,780	139
1951	1,062	1,019	979	941	903	866	831	794	755	712	4,831	2,887	1,734	135
1952	1,051	1,008	968	929	892	854	818	783	746	706	4,776	2,810	1,692	132
1953	1,042	998	957	918	881	844	807	772	736	698	4,772	2,699	1,652	129
1954	1,053	989	947	908	871	835	799	762	726	691	4,783	2,608	1,619	127
1955	1,064	1,000	939	899	861	825	789	753	716	680	4,763	2,515	1,578	124
1956	1,092	1,010	949	891	853	815	778	743	707	670	4,732	2,433	1,537	121
1957	1,142	1,037	959	901	845	806	768	732	695	658	4,647	2,342	1,484	117
1958	1,262	1,084	984	910	854	799	760	722	685	646	4,551	2,261	1,430	113
1959	1,417	1,198	1,029	934	862	806	751	713	676	638	4,483	2,205	1,386	109
1960	1,350	1,345	1,137	977	885	814	759	705	667	629	4,405	2,153	1,340	106
1961	1,805	1,281	1,277	1,079	926	836	768	713	660	620	4,312	2,098	1,291	102
1962	1,949	1,713	1,216	1,212	1,023	876	790	723	668	614	4,230	2,051	1,246	99
1963	1,974	1,850	1,626	1,154	1,149	968	826	742	675	619	4,120	2,007	1,176	95
1964	1,496	1,874	1,756	1,543	1,094	1,087	913	778	696	630	4,092	1,990	1,126	92
1965	1,259	1,420	1,779	1,667	1,464	1,035	1,026	859	728	647	4,048	1,958	1,075	88
1966	1,271	1,195	1,348	1,688	1,580	1,383	975	962	801	675	4,018	1,915	1,024	85
1967	1,510	1,207	1,134	1,279	1,600	1,492	1,300	909	886	725	3,814	1,762	922	76
1968	3,188	1,433	1,146	1,076	1,212	1,512	1,405	1,220	849	821	3,903	1,709	879	72
1969	1,672	3,026	1,361	1,087	1,020	1,145	1,422	1,312	1,127	774	3,955	1,611	822	67
1970	1,033	1,587	2,872	1,291	1,030	963	1,077	1,334	1,226	1,048	4,124	1,575	798	65
1971	944	981	1,507	2,726	1,223	972	905	1,008	1,242	1,134	4,494	1,527	770	62
1972	1,606	896	931	1,430	2,581	1,154	913	846	936	1,142	4,851	1,461	735	52
1973	1,840	1,525	851	883	1,352	2,425	1,081	852	785	861	5,204	1,406	710	49
1974	1,705	1,747	1,447	807	835	1,269	2,262	1,005	785	713	5,132	1,327	669	46
1975	1,588	1,619	1,658	1,373	763	783	1,182	2,097	928	719	5,014	1,275	636	44
1976	1,505	1,508	1,536	1,573	1,298	715	729	1,096	1,934	853	4,954	1,245	608	43
1977	926	1,429	1,431	1,458	1,486	1,213	664	675	1,010	1,774	5,068	1,241	585	42
1978	1,863	879	1,356	1,358	1,378	1,392	1,126	614	622	925	5,974	1,258	563	41
1979	3,027	1,768	835	1,287	1,282	1,289	1,288	1,027	551	547	5,559	1,211	503	37
1980	418	2,873	1,678	792	1,213	1,196	1,192	1,181	931	494	5,098	1,199	468	34
1981	1,722	397	2,727	1,592	746	1,128	1,103	1,087	1,057	815	4,295	1,173	410	30
1982	1,026	1,635	377	2,587	1,501	693	1,035	1,005	976	933	4,024	1,181	368	27
1983	637	973	1,552	357	2,435	1,382	626	920	875	823	3,583	1,056	299	22
1984	1,877	605	924	1,472	337	2,279	1,275	565	805	733	3,192	866	239	17
1985	955	1,782	574	877	1,389	315	2,112	1,164	507	705	3,167	783	214	15
1986	982	906	1,691	544	825	1,282	287	1,908	1,028	437	3,069	704	191	13
1987	1,322	932	860	1,603	512	758	1,157	258	1,701	898	2,809	658	176	12
1988	1,140	1,255	885	816	1,507	473	687	1,033	227	1,465	2,791	681	159	10
1989	1,499	1,082	1,191	839	767	1,385	429	612	903	194	3,346	603	146	9
1990	1,126	1,423	1,027	1,129	791	714	1,263	387	535	762	2,684	492	129	7
1991	1,242	1,069	1,350	974	1,064	734	655	1,129	340	454	2,665	405	124	6
1992	1,291	1,179	1,015	1,281	917	985	669	586	975	283	2,262	338	111	5
1993	834	1,226	1,119	962	1,205	848	892	594	506	805	1,825	294	99	4
1994	1,369	791	1,163	1,061	906	1,116	771	797	517	427	2,007	269	84	4
1995	1,261	1,299	751	1,103	1,001	844	1,028	702	716	457	2,035	273	78	3
1996	992	1,197	1,233	712	1,037	926	769	927	627	633	2,108	281	74	3
1997	1,451	941	1,136	1,170	670	961	848	692	822	545	2,286	265	70	4
1998	804	1,377	893	1,077	1,103	613	862	756	606	717	2,350	287	79	4
1999	877	763	1,307	847	1,015	1,034	560	774	672	526	2,485	383	76	3

Table A.4 (cont.) Male numbers-at-ag as predicted by the base case model

							Age							
Year	0	1	2	3	4	5	6	7	8	9	10-19	20-29	30-39	40+
2000	781	833	724	1,240	797	944	961	507	698	606	2,677	361	73	5
2001	1,341	741	791	687	1,172	743	877	898	469	649	2,979	439	73	5
2002	1,085	1,273	703	750	650	1,105	696	822	845	439	3,341	480	78	5
2003	1,290	1,029	1,208	668	712	615	1,045	657	776	798	3,513	496	86	4
2004	777	1,224	977	1,147	633	672	580	986	620	734	3,862	673	96	4
2005	441	737	1,162	927	1,088	599	636	548	934	587	4,221	752	106	4
2006	736	418	700	1,103	880	1,031	568	602	519	884	4,397	847	119	5
2007	1,451	698	397	664	1,047	834	976	537	569	491	4,760	1,028	124	12
2008	463	1,377	663	377	630	993	790	924	509	539	4,746	1,165	147	7
2009	1,147	439	1,307	629	358	598	942	749	875	482	4,673	1,362	213	5
2010	1,606	1,088	417	1,241	597	339	567	892	709	828	4,616	1,548	210	5
2011	751	1,524	1,033	396	1,176	566	322	537	845	671	4,831	1,734	257	9
2012	629	712	1,447	981	376	1,113	536	305	509	800	4,858	1,952	282	11
2013	585	597	676	1,373	930	356	1,054	508	289	482	5,123	2,059	291	11
2014	903	555	567	642	1,303	882	338	999	482	274	4,873	2,265	396	12

Appendix B. SS Model Files

Appendix B.1. SS data file

```
# Data file for 2015 Canary rockfish updated stock assessment
# updated to run in SSv3.24v
### Global model specifications ###
1892   # Start year
2014   # End year
1      # Number of seasons/year
12     # Number of months/season (vector, by season)
1      # Spawning occurs at beginning of season
24     # Number of fishing fleets
7      # Number of survey fleets
3      # Number of areas
# Fleet names (separated by "%")
1_CA_TWL%2_OR_TWL%3_WA_TWL%4_CA_NTWL%5_OR_NTWL%6_WA_NTWL%7_CA_REC%8_OR_REC%9_WA_REC%10_CA_AHSOP%11_OR_ASHOP%12_WA_ASHOP
%13_CA_FOR%14_OR_FOR%15_WA_FOR%16_CA_NWFSC%17_OR_NWFSC%18_WA_NWFSC%19_CA_Tri_early%20_OR_Tri_early%21_WA_Tri_early%22_C
A_Tri_late%23_OR_Tri_late%24_WA_Tri_late%25_CA_prerec%26_OR_prerec%27_WA_prerec%28_coastwide_NWFSC%29_coastwide_Tri_ear
ly%30_coastwide_Tri_late%31_coastwide_prerec
# Fleet timing (proportion of season)
0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
0.5
1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 1 1 1 # Area of each fleet
#1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 # Area of each fleet
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 # Units for catch by fishing fleet: 1=Biomass(mt),2=Numbers(1000s)
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
# SE of log(catch) by fleet for equilibrium and continuous options
2      # Number of genders (1=combined,2=females and males)
40     # Accumulator age (plus group for population dynamics)

### Catch section ###
# Initial equilibrium catch (landings + discard) by fishing fleet
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
123 # Number of lines catch data
# Catch series - Updated for 2011
# Catch(by fleet) Year     Season
0.00   0.00   0.00   0.00   5.79   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
       0.00   0.00   0.00   0.00   0.00   0.00   1892   1
0.00   0.00   0.00   0.00   5.79   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
       0.00   0.00   0.00   0.00   0.00   0.00   1893   1
0.00   0.00   0.00   0.00   5.79   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
       0.00   0.00   0.00   0.00   0.00   0.00   1894   1
0.00   0.00   0.00   0.00   1.49   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
       0.00   0.00   0.00   0.00   0.00   0.00   1895   1
0.00   0.00   0.00   0.00   0.36   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
       0.00   0.00   0.00   0.00   0.00   0.00   1896   1
```

0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1897	1									
0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1898	1									
0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1899	1									
0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1900	1									
0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1901	1									
0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1902	1									
0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1903	1									
0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1904	1									
0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1905	1									
0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1906	1									
0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1907	1									
0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1908	1									
0.00	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1909	1									
0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1910	1									
0.00	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1911	1									
0.00	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1912	1									
0.00	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1913	1									
0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1914	1									
0.00	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1915	1									
65.08	0.00	0.00	8.62	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1916	1									
103.26	0.00	0.00	14.15	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1917	1									
106.19	0.00	0.00	16.12	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1918	1									

68.65	0.00	0.00	8.35	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1919	1									
72.10	0.00	0.00	9.21	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1920	1									
61.21	0.00	0.00	8.78	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1921	1									
56.29	0.00	0.00	7.95	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1922	1									
68.30	0.00	0.00	8.79	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1923	1									
69.23	0.00	0.00	11.28	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1924	1									
77.90	0.00	0.00	15.43	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1925	1									
106.38	0.00	0.00	18.30	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1926	1									
92.39	0.00	0.00	19.45	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1927	1									
91.03	0.00	0.00	17.02	7.21	0.00	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1928	1									
100.22	0.00	0.00	16.43	12.35	0.00	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1929	1									
106.35	0.00	0.00	21.20	11.26	0.00	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1930	1									
127.90	0.00	0.00	20.87	9.04	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1931	1									
85.81	0.80	0.04	25.44	2.88	0.00	6.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1932	1									
86.49	0.49	0.00	12.11	4.74	0.00	7.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1933	1									
80.67	0.02	0.30	15.64	5.11	0.00	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1934	1									
90.70	0.39	2.32	22.82	4.59	0.00	9.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1935	1									
58.46	1.42	2.99	23.60	10.97	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1936	1									
70.49	2.77	2.67	17.44	13.07	0.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1937	1									
72.45	0.00	3.94	17.29	12.90	0.00	12.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1938	1									
92.63	3.95	4.13	16.19	7.35	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1939	1									
75.57	90.77	9.14	11.19	16.27	0.00	16.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1940	1									

63.47	139.74	3.42	14.85	21.77	0.00	14.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1941	1										
21.54	262.48	66.47	9.80	30.24	0.00	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1942	1										
66.45	917.60	214.84	12.81	74.84	0.00	7.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1943	1										
270.83	1610.20		89.28	53.46	19.25	0.00	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1944	1									
614.74	2484.51		935.69	131.23	12.27	0.00	8.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1945	1									
555.52	1529.76		471.69	138.08	15.07	0.00	14.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1946	1									
224.24	953.64	246.41	29.40	7.63	0.00	11.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1947	1										
237.62	679.51	400.13	55.13	12.54	0.00	22.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1948	1										
196.49	588.37	486.65	21.26	8.36	0.00	29.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1949	1										
189.19	616.19	467.66	16.28	7.77	0.00	35.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1950	1										
201.22	566.89	391.25	13.92	5.98	0.00	42.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1951	1										
136.00	587.21	373.14	10.11	5.69	0.00	37.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1952	1										
135.07	615.48	161.80	5.76	2.97	0.00	31.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1953	1										
95.73	781.51	232.09	11.78	3.47	0.00	39.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1954	1										
101.31	787.13	219.01	2.82	4.30	0.00	48.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1955	1										
100.68	1166.09		209.22	4.41	2.74	0.00	54.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1956	1									
115.71	1214.61		173.08	5.44	5.95	0.00	50.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1957	1									
149.62	830.09	219.11	6.84	1.19	0.00	86.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1958	1										
109.99	908.86	244.95	4.84	2.44	0.00	69.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1959	1										
87.38	1082.92		221.50	8.03	1.62	0.00	54.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1960	1									
69.62	982.77	262.94	3.39	4.51	0.00	38.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1961	1										
71.08	1148.46		366.37	4.36	4.12	0.00	46.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1962	1									

93.69	660.50	294.94	5.92	3.69	0.00	49.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1963	1											
62.84	1006.74		217.72	4.11	8.24	0.00	45.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1964	1										
83.66	821.71	485.18	5.22	16.75	0.00	69.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	1965	1											
61.97	921.46	664.13	3.87	17.32	0.00	75.39	0.00	0.00	0.00	0.00	0.00	41.00	0.00	1558.00		0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1966	1										
83.14	132.85	324.21	5.61	31.02	0.00	79.39	0.00	0.84	0.00	0.00	0.00	101.00	2.00	748.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1967	1											
78.20	852.22	559.54	4.01	31.82	0.00	84.36	0.00	0.00	0.00	0.00	0.00	30.00	385.00	395.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1968	1											
198.25	261.10	545.40	18.97	45.41	0.00	92.32	0.00	0.00	0.00	0.00	0.00	2.00	3.00	62.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1969	1											
217.58	568.73	504.60	11.97	33.54	0.00	115.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	101.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1970	1											
329.74	757.57	578.12	21.14	38.15	0.00	101.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	188.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1971	1											
409.43	714.64	161.23	40.85	62.79	0.00	133.26	0.00	0.00	0.00	0.00	0.00	1.00	12.00	386.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1972	1											
318.18	887.63	361.24	19.55	66.75	0.00	155.22	0.00	0.00	0.00	0.00	0.00	37.00	335.00	593.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1973	1											
400.09	544.86	552.18	49.98	73.42	0.00	163.78	0.00	0.00	0.00	0.00	0.00	104.00	46.00	369.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1974	1											
435.18	387.55	759.43	35.95	44.98	0.00	158.92	0.00	3.56	0.81	0.00	0.00	28.00	35.00	141.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1975	1											
474.82	238.23	579.15	50.03	52.37	0.00	175.23	0.00	1.58	0.77	6.64	0.00	27.00	22.00	114.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	1976	1											
460.36	594.00	486.05	59.51	56.97	0.00	167.54	0.00	4.08	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.38	0.92	2.04	0.00	0.00	0.00	1977	1											
653.84	1786.03		1413.42		146.02	136.50	0.00	161.30	0.00	5.97	0.39	10.86	0.51	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1978	1									
314.64	1297.13		711.77	128.65	238.78	0.00	178.88	0.00	4.71	0.02	9.88	0.58	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1979	1										
442.70	2873.34		763.35	95.77	182.72	0.00	161.48	25.71	3.84	0.36	7.65	1.60	0.00	0.00	0.00	0.00	0.00	
0.00	0.35	1.39	0.19	0.00	0.00	0.00	1980	1										
546.83	1953.99		533.53	172.44	166.43	0.00	144.09	51.42	2.48	2.56	1.35	0.30	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1981	1										
807.07	3770.73		451.25	45.37	271.85	0.00	239.01	39.20	2.89	0.05	0.19	24.62	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1982	1										
513.09	3539.58		674.93	70.26	332.02	0.00	94.82	5.09	5.03	0.05	1.87	23.88	0.00	0.00	0.00	0.00	0.00	
0.00	1.76	1.85	4.42	0.00	0.00	0.00	1983	1										
402.06	1337.21		635.60	63.25	218.30	0.00	90.92	19.13	7.96	0.03	1.03	1.91	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1984	1										

333.16	1111.09		1076.48		117.04	221.13	0.00	135.32	57.19	3.85	0.00	4.16	2.57	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1985	1							
174.42	1044.49		932.40	56.61	213.95	0.00	199.93	12.77	6.29	0.02	0.72	3.64	0.00	0.00	0.00	0.00	0.00
	0.00	0.44	1.77	6.09	0.00	0.00	0.00	1986	1								
219.06	1515.38		1054.34		47.76	197.25	0.00	162.30	29.92	10.60	0.00	2.22	5.89	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1987	1							
235.51	1328.78		1015.62		52.74	306.10	0.00	143.21	50.62	8.89	0.15	3.27	2.18	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1988	1							
189.37	1609.27		1253.68		223.96	22.56	0.00	89.20	23.17	9.90	0.26	1.44	0.98	0.00	0.00	0.00	0.00
	0.00	0.00	0.37	0.56	2.69	0.00	0.00	0.00	1989	1							
337.96	1012.13		1140.25		216.66	73.52	0.00	77.13	29.74	9.04	0.06	1.71	1.81	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1990	1							
151.34	1809.71		1007.67		167.17	67.86	0.00	77.13	29.74	9.83	0.02	1.46	1.40	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1991	1							
233.45	1452.63		855.62	131.96	181.52	0.00	77.13	29.74	19.17	0.00	0.07	1.96	0.00	0.00	0.00	0.00	0.00
	0.00	0.05	0.11	0.34	0.00	0.00	0.00	1992	1								
93.42	1521.03		300.56	111.97	169.93	0.00	65.05	36.32	18.31	0.00	0.13	0.61	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1993	1								
124.74	656.13	155.08	97.68	119.22	0.00	43.45	32.36	10.57	0.00	0.11	3.48	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1994	1									
128.19	546.96	159.48	120.12	122.31	6.60	85.44	35.72	8.87	0.00	0.12	0.23	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.38	0.49	0.03	1995	1									
211.84	743.06	189.08	133.17	185.35	5.84	58.29	19.23	8.40	0.00	0.02	0.83	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1996	1									
170.97	580.28	204.33	109.39	264.88	6.36	99.38	38.45	8.69	0.00	0.44	2.54	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1997	1									
155.06	694.13	203.36	85.30	255.76	7.53	26.90	41.55	13.73	0.00	0.24	4.57	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.21	0.07	0.15	1998	1									
101.53	352.64	139.58	40.32	156.65	8.13	57.77	29.32	8.04	0.00	0.02	6.60	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1999	1									
18.76	21.02	14.70	22.29	49.93	11.16	63.16	14.61	5.60	0.00	0.23	2.26	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	2000	1									
13.47	19.27	11.94	17.78	24.92	11.25	29.07	10.64	4.87	0.00	1.03	2.90	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.06	0.27	0.61	2001	1									
20.01	20.81	23.65	0.89	1.36	3.85	6.03	8.65	2.37	0.00	3.74	2.97	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	2002	1									
8.03	8.39	11.05	0.95	0.79	0.98	17.93	9.23	2.20	0.00	0.34	0.69	0.00	0.00	0.00	0.06	0.15	0.45
	0.00	0.00	0.00	0.00	0.00	0.00	2003	1									
3.45	5.80	8.59	3.62	3.23	3.50	10.01	3.22	0.94	0.00	4.64	0.80	0.00	0.00	0.00	0.14	0.19	1.03
	0.00	0.00	0.00	0.18	0.24	0.41	2004	1									
9.98	11.94	19.32	1.60	1.07	0.95	2.30	5.76	1.31	0.00	0.87	1.03	0.00	0.00	0.00	1.19	0.12	0.12
	0.00	0.00	0.00	0.00	0.00	0.00	2005	1									
7.03	8.33	12.82	3.04	2.00	0.81	6.77	3.31	0.64	0.00	0.88	0.79	0.00	0.00	0.00	0.23	0.71	6.27
	0.00	0.00	0.00	0.00	0.00	0.00	2006	1									

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12.07  5.71   8.73   4.27   3.13   0.40   5.46   2.67   0.66   0.00   1.97   0.90   0.00   0.00   0.00   0.44   0.12   0.52
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2007   1
4.45   5.67   8.28   1.77   1.34   4.12   1.59   2.21   0.60   0.02   1.50   4.18   0.00   0.00   0.00   0.11   0.64   0.33
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2008   1
2.47   5.12   6.67   2.11   1.83   3.41   18.97  2.70   0.71   0.00   0.18   2.81   0.00   0.00   0.00   0.14   0.03   0.15
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2009   1
0.52   2.46   6.90   3.71   2.92   4.81   15.79  3.20   0.81   0.02   0.14   1.44   0.00   0.00   0.00   0.03   0.13   1.48
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2010   1
0.37   2.86   3.62   9.05   8.17   8.16   20.95  3.18   1.18   0.00   0.12   1.27   0.00   0.00   0.00   0.02   0.15   0.96
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2011   1
0.57   4.92   5.21   3.77   3.71   4.95   3.80   3.66   0.92   0.00   0.28   0.40   0.00   0.00   0.00   0.03   0.24   1.69
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2012   1
1.52   5.88   4.53   5.54   5.22   2.74   4.40   3.43   1.10   0.00   0.45   0.60   0.00   0.00   0.00   0.14   0.09   0.15
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2013   1
1.96   7.49   1.66   6.08   5.70   5.74   4.10   2.96   1.48   0.03   0.56   0.38   0.00   0.00   0.00   0.16   2.03   1.28
       0.00   0.00   0.00   0.00   0.00   0.00   0.00   2014   1

### Abundance indices ###
132 # Total number of observations (all fleets) (#_N_cpue)
#_Units:  0=numbers; 1=biomass; 2=F
#_Errtype:  -1=normal; 0=lognormal; >0=T
#_Fleet      Units  Errtype
1      1      0      #1_CA_TWL
2      1      0      #2_OR_TWL
3      1      0      #3_WA_TWL
4      1      0      #4_CA_NTWL
5      1      0      #5_OR_NTWL
6      1      0      #6_WA_NTWL
7      1      0      #7_CA_REC
8      1      0      #8_OR_REC
9      1      0      #9_WA_REC
10     1      0 #10_CA_AHSOP
11     1      0 #11_OR_ASHOP
12     1      0 #12_WA_ASHOP
13     1      0 #13_CA_FOR
14     1      0 #14_OR_FOR
15     1      0 #15_WA_FOR
16     1      0 #16_CA_NWFSC
17     1      0 #17_OR_NWFSC
18     1      0 #18_WA_NWFSC
19     1      0  #19_CA_Tri_early
20     1      0 #20_OR_Tri_early
21     1      0 #21_WA_Tri_early
22     1      0 #22_CA_Tri_late
23     1      0 #23_OR_Tri_late
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24     1      0 #24_WA_Tri_late
25     0      0 #25_CA_prerec
26     0      0 #26_OR_prerec
27     0      0 #27_WA_prerec
28     1      0 #28_Coastwide_NWFSC
29     1      0 #29_Coastwide_Tri_early
30     1      0 #30_Coastwide_Tri_late
31     0      0 #31_coastwide_prerec

# Year Seas   Type   Value  s(log space)
# 2015 NWFSC survey geostat lognorm-ECE -- CA
2003   1      16     2419.431548  0.356220261
2004   1      16     1693.022994  0.385737645
2005   1      16     2505.270743  0.345906736
2006   1      16     1201.045534  0.409164953
2007   1      16     1497.151272  0.357008676
2008   1      16     1739.849765  0.377205598
2009   1      16     1017.801905  0.376622465
2010   1      16     1942.368723  0.357740698
2011   1      16     1624.162075  0.358991007
2012   1      16     1876.493389  0.337040016
2013   1      16     1521.399216  0.359120052
2014   1      16     3076.607764  0.328154115
# 2015 NWFSC survey geostat lognorm-ECE -- OR
2003   1      17     6931.268866  0.356618575
2004   1      17     4906.353682  0.384770536
2005   1      17     7200.86888   0.338669581
2006   1      17     3635.360927  0.392477154
2007   1      17     4403.547684  0.345369718
2008   1      17     5233.812691  0.379487883
2009   1      17     3067.653673  0.380301758
2010   1      17     5675.344819  0.361295789
2011   1      17     4798.975296  0.352363034
2012   1      17     5371.678232  0.337849964
2013   1      17     4416.003779  0.355233599
2014   1      17     8434.886119  0.32498484
# 2015 NWFSC survey geostat lognorm-ECE -- WA
2003   1      18     9457.496516  0.349293492
2004   1      18     6770.926695  0.367492674
2005   1      18     9859.264639  0.328382364
2006   1      18     5231.914847  0.383044268
2007   1      18     6162.451793  0.341117687
2008   1      18     7487.150662  0.383480784
2009   1      18     4397.586694  0.370215135
2010   1      18     7894.683262  0.350196085
```

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2011   1      18     6747.496471  0.339366791
2012   1      18     7326.813483  0.326569472
2013   1      18     6102.468783  0.341781943
2014   1      18     11039.55585  0.318915992

# 2015 triennial gammaECE no interaction -- CA
1980   1      19     3136.2 0.4025
1983   1      19     6405.6 0.3335
1986   1      19     3342.9 0.3909
1989   1      19     2506.7 0.3738
1992   1      19     1352.9 0.41
1995   1      22     902.6  0.4344
1998   1      22     1259.6 0.3802
2001   1      22     1868.2 0.4033
2004   1      22     2473.7 0.4198
# 2015 triennial gammaECE no interaction -- OR
1980   1      20     5215.5 0.3356
1983   1      20     7190.9 0.2969
1986   1      20     5031.6 0.3132
1989   1      20     3854.6 0.3427
1992   1      20     2155.2 0.374
1995   1      23     1308.1 0.3789
1998   1      23     1644.9 0.3517
2001   1      23     2924.3 0.3571
2004   1      23     2939.3 0.3684
# 2015 triennial gammaECE no interaction -- WA
1980   1      21     3385.6 0.3665
1983   1      21     5642.9 0.2951
1986   1      21     3836.7 0.2966
1989   1      21     2936.8 0.3397
1992   1      21     1938.6 0.3598
1995   1      24     940.3  0.4475
1998   1      24     1610.5 0.3551
2001   1      24     2264.8 0.3681
2004   1      24     2380.5 0.3615

# Pre-recruit CA
2001   1      25     0.361993458  0.062105137
2002   1      25     1.137482339  0.063369987
2003   1      25     0.362902932  0.06065976
2004   1      25     0.862054315  0.059961978
2005   1      25     0.209484049  0.0587974
2006   1      25     0.159625314  0.057148816
2007   1      25     0.271923668  0.058239538
2008   1      25     0.414951961  0.065114158
```

```
2009   1      25     0.453161875  0.05864387
2010   1      25     0.829529812  0.084713733
2011   1      25     0.5732322    0.07355415
2012   1      25     0.246012792  0.090750746
2013   1      25     0.442660727  0.08348949
2014   1      25     0.393339766  0.08135485
# Pre-recruit OR
2001   1      26     0.347774936  0.085318687
2002   1      26     0.394319073  0.083898492
2003   1      26     0.409489956  0.083319705
2004   1      26     0.604304039  0.067462042
2005   1      26     0.538352735  0.067770265
2006   1      26     0.483628422  0.062967713
2007   1      26     0.382078437  0.068519088
2008   1      26     0.37639582   0.068449359
2009   1      26     0.371098601  0.069439553
2011   1      26     0.413914859  0.062070383
2013   1      26     0.264741875  0.076768619
2014   1      26     0.538536124  0.078717883
# Pre-recruit WA
2004   1      27     0.11266014   0.18311608
2005   1      27     1.238377068  0.088687911
2006   1      27     0.272593878  0.094326153
2007   1      27     0.103955311  0.085150757
2008   1      27     0.146164303  0.092504294
2009   1      27     0.103261874  0.08071613
2011   1      27     0.329074501  0.086688602
2013   1      27     0.39241925   0.224022419
2014   1      27     0.193250004  0.22331114

# 2015 NWFSC survey geostat lognorm-ECE -- coastwide
2003   1      28     18808.19693  0.341827408
2004   1      28     13370.30337  0.365673644
2005   1      28     19565.40426  0.322835441
2006   1      28     10068.32131  0.378651581
2007   1      28     12063.15075  0.332885349
2008   1      28     14460.81312  0.370153901
2009   1      28     8483.042272  0.363288499
2010   1      28     15512.3968   0.343972379
2011   1      28     13170.63384  0.334806675
2012   1      28     14574.9851   0.320479102
2013   1      28     12039.87178  0.337602426
2014   1      28     22551.04974  0.311197139

# 2015 -- early triennial coastwide
```

```
1980   1      29     11737.2      0.3255
1983   1      29     19239.4      0.2798
1986   1      29     12211.1      0.2926
1989   1      29     9298.1 0.3195
1992   1      29     5446.6 0.3447
# 2015 -- late triennial coastwide
1995   1      30     3150.9 0.3799
1998   1      30     4515.0 0.3292
2001   1      30     7057.2 0.3388
2004   1      30     7793.5 0.3422


## Pre-recruit index Revised for 2015 (n=13) (backtransformed "best temporal covarage")  25/26/27
2001   1      31     2.09   0.20
2002   1      31     9.14   0.21
2003   1      31     1.56   0.20
2004   1      31     4.66   0.19
2005   1      31     1.22   0.19
2006   1      31     1.02   0.18
2007   1      31     1.49   0.18
2008   1      31     1.91   0.20
2009   1      31     1.85   0.19
2010   1      31     6.64   0.28
2011   1      31     2.66   0.23
2012   1      31     2.20   0.28
2013   1      31     1.85   0.27

### Discard section ###
# Discard observation setup
0 #_N_fleets_with_discard

#_Fleet units (2=discard/(retained+discarded) errtype (-1=normal)
#      1     2     -1 #1_CA_TWL
#      2     2     -1 #2_OR_TWL
#      3     2     -1 #3_WA_TWL
#      4     2     -1 #4_CA_NTWL
#      5     2     -1 #5_OR_NTWL
#      6     2     -1 #6_WA_NTWL

0 # Total number of discard observations all fleets and years

# Year  seas    fleet   obs      err
#TWL from Pikitch study
#1985  1      2      0.0617 0.1991
#1986  1      2      0.0609 0.1986
```

```
#1987  1      2      0.0529 0.1828
##NONTWL historical (made up)
#1986  1      5      0.05   0.01      # THIS IS NOW FIXED IN PARAMETERS, BUT I'M LEAVING IT HERE SO ITS SHOWN IN R4SS
##TWL from WCGOP, updated for 2015 assessment
#2002  1      1      0.43250221   0.1
#2003  1      1      0.351676596  0.1
#2004  1      1      0.337898876  0.1
#2005  1      1      0.32557086   0.1
#2006  1      1      0.344260216  0.1
#2007  1      1      0.316561031  0.1
#2008  1      1      0.304685754  0.1
#2009  1      1      0.295880695  0.1
#2010  1      1      0.278779013  0.1
#2011  1      1      0.149313834  0.1
#2012  1      1      0.151651125  0.1
#2013  1      1      0.163551062  0.1
#2002  1      2      0.503961395  0.1
#2003  1      2      0.374977977  0.1
#2004  1      2      0.302318873  0.1
#2005  1      2      0.271896514  0.1
#2006  1      2      0.301428494  0.1
#2007  1      2      0.246152935  0.1
#2008  1      2      0.193214536  0.1
#2009  1      2      0.230078995  0.1
#2010  1      2      0.214137863  0.1
#2011  1      2      0.024426988  0.1
#2012  1      2      0.016860619  0.1
#2013  1      2      0.012068659  0.1
#2002  1      3      0.505084883  0.1
#2003  1      3      0.39836762   0.1
#2004  1      3      0.33138605   0.1
#2005  1      3      0.414581074  0.1
#2006  1      3      0.358867099  0.1
#2007  1      3      0.340833589  0.1
#2008  1      3      0.25069902   0.1
#2009  1      3      0.315114475  0.1
#2010  1      3      0.212363952  0.1
#2011  1      3      0.019986971  0.1
#2012  1      3      0.022628003  0.1
#2013  1      3      0.040912566  0.1
###TWL from WCGOP, updated for 2015 assessment
#2002  1      4      0.460436325  0.1
#2003  1      4      0.377716048  0.1
#2004  1      4      0.238428012  0.1
#2005  1      4      0.199283735  0.1
```

```
#2006  1      4      0.227716185  0.1
#2007  1      4      0.255870038  0.1
#2008  1      4      0.134696086  0.1
#2009  1      4      0.148521769  0.1
#2010  1      4      0.101654675  0.1
#2011  1      4      0.085681046  0.1
#2012  1      4      0.068291978  0.1
#2013  1      4      0.076915136  0.1
#2002  1      5      0.244513841  0.1
#2003  1      5      0.1705759    0.1
#2004  1      5      0.143578144  0.1
#2005  1      5      0.156911609  0.1
#2006  1      5      0.319638907  0.1
#2007  1      5      0.25141921   0.1
#2008  1      5      0.18074945   0.1
#2009  1      5      0.152557609  0.1
#2010  1      5      0.099776149  0.1
#2011  1      5      0.084629817  0.1
#2012  1      5      0.103136063  0.1
#2013  1      5      0.069851322  0.1
#2002  1      6      0.433018548  0.1
#2003  1      6      0.321271171  0.1
#2004  1      6      0.271736897  0.1
#2005  1      6      0.330420258  0.1
#2006  1      6      0.458676983  0.1
#2007  1      6      0.355680381  0.1
#2008  1      6      0.308958684  0.1
#2009  1      6      0.352927955  0.1
#2010  1      6      0.237393736  0.1
#2011  1      6      0.082771699  0.1
#2012  1      6      0.169296866  0.1
#2013  1      6      0.104721603  0.1

# Mean body weight observations
0      # Total number of mean body weight observations
30 #_DF_meanwt

## Population size structure
3  # Length bin method: 1=Use data bins,2=generate from min/max/width read below, 3=Read count and vector below
30 # Count of population bins
# Lower edge of bins
8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66

-1     # Minimum proportion for compressing tails of observed compositional data
0.001  # Constant added to expected frequencies
```

```
0      # Combine males and females at and below this bin number

28     # Number of length bins



# Lower edge of length bins by bin



12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66

### length composition data ###
432    # Total number of length observations all fleets and years
# Gender: 0=sexes combined into length bins ("unknown sex"), 1=females only (0s male bins), 2=males only (0s for female
bins), 3=use data for both males and females
# Year Seas   Type   Gender Partition (0=discard+retained; 1=discard; 2=retained)       Nsamp  Data: females then males

# 2015 California trawl fleet (n=61)
1978   1      1      3      0      124    0      0      0      0      0      0      0      0      0      0      0
       386.3057628  990.7166537  5679.673066  661.6779492  335.6314968  3907.356639  8572.833566  12833.26883
       16728.98259  34254.33757  6599.717436  24532.23259  5105.189905  6234.123044  515.9000456  106.8023347  0
       0      0      0      0      0      0      0      0      0      0      59.37969464  0      0      2822.203924
       1416.123421  3235.665033  4561.224715  20097.02921  30276.5907   54567.50694  21247.73759  11049.80484
       13224.33239  9594.58873   0      0      0      0
1979   1      1      3      0      55     0      0      0      0      0      0      0      0      0      0      0      0
       335.6841796  441.0919059  441.0919059  1610.672138  2980.269159  3963.029851  4604.505373  2082.226249
       4720.070498  6006.380337  11240.70661  3813.304557  1378.377765  150.9180969  0      333.8756486  0      0
       0      0      0      0      0      0      0      0      0      0      92.17557392  4149.720949  3478.890694
       12553.53591  3496.729461  14855.73851  16411.3737   18927.9044   23937.11005  10467.16645  707.4298037
       1260.892719  0      0      0      0
1980   1      1      3      0      130    0      0      0      0      0      0      0      0      0      0      79.0039727
       4259.891947  5138.965405  6867.867126  7746.592157  3261.861123  3659.837946  10710.56419  11537.60285
       8624.515992  8167.49221   7125.593276  3800.312114  1470.769898  0      0      0      0      0      0      0
       0      0      0      0      0      0      1219.423373  0      6610.948719  3915.80277   5542.059639  12595.28131
       10215.00703  25814.44797  25117.95916  17863.29439  20795.57303  2856.969909  0      2342.519453  0      0
       0      0      0
1980   1      1      0      0      14     0      0      0      0      0      0      0      0      0      0      0
       703.405592   0      320.4668189  1044.315355  8254.007794  8642.639378  5866.970084  3515.513148  1524.973149
       3515.513148  320.4668189  0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0
1981   1      1      3      0      83     0      0      0      0      0      0      0      0      0      1778.541518  0
       2006.982606  0      116.1781267  13199.3756   13110.46642  16271.12843  21731.86091  12719.25188  16081.12056
       16181.13528  26470.21132  4341.549889  4286.379585  0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	527.5378328	4673.229562	15199.23187	22336.57221	19424.09476			
	15701.1375	35382.77642	16673.09367	7610.185499	1829.499423	0	0	0	0	0	0	0		
1982	1	1	3	0	125	0	0	0	0	0	0	0	0	1118.343871
	453.2060756	13611.08268	3456.835115	12747.53347	20019.47871	24356.25909	27622.20867	27354.06302						
	22310.00698	14143.36403	9037.916566	1386.942353	187.2143371	0	0	0	0	0	0			
	0	0	0	0	0	0	71.52521781	3679.336609	13630.70023	11134.67038	22313.89165			
	29289.67516	37073.83328	35265.87984	32335.43609	48140.10836	40806.38757	8011.919698	0	0	0				
	0	0	0	0										
1983	1	1	3	0	183	0	0	0	0	0	0	0	0	317.3951539
	2238.12481	229.7267895	2604.171887	4440.307101	15159.24914	8209.901455	11597.88231	11218.29925						
	6423.847808	12481.11247	16839.822	11218.48414	6356.752848	2426.723186	0	0	0	0	0			
	0	0	0	0	0	0	0	0	27.70483123	1259.780368	1789.424788	12904.58204		
	9831.881817	6887.156188	20128.51515	22097.64275	20174.23077	42565.02626	15732.23031	5504.257178						
	2077.211353	319.7809346	1224.700304	0	0	0	0							
1984	1	1	3	0	133	0	0	0	0	0	0	0	110.9986226	259.0211936
	406.5921627	2517.187344	3048.601021	8392.859135	2702.255817	7496.424984	9898.108202	10317.48339						
	13087.72892	6277.552682	11218.89318	6696.676181	7325.164306	5067.398018	3755.823713	0	0	0				
	0	0	0	0	0	0	0	55.49931132	55.49931132	277.4965566	351.5444532	573.3713775		
	700.5301707	3223.618718	7219.728032	12043.45286	6565.406347	19248.83078	19903.73857	16578.86947						
	12028.49515	10069.39508	3866.11775	1984.725215	0	0	0	0	0					
1985	1	1	3	0	155	0	0	0	0	0	0	0	0	717.549831
	1102.941761	1609.432488	6251.241027	9154.901129	8440.03036	8323.417079	6599.783005	2541.374702						
	6905.513576	8035.633997	3421.432805	13459.70813	7425.082138	3148.727298	0	0	0	0	0			
	0	0	0	0	0	0	0	0	271.8205552	2299.805072	2389.463891	4439.509634		
	7099.827205	9046.812808	12059.93027	11816.31962	12950.91635	8660.805567	16632.45945	3006.922109						
	2315.006445	0	0	0	0	0	0							
1985	1	1	0	0	1	690.0281598	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0					
1986	1	1	3	0	110	0	0	0	0	0	0	0	0	0	305.2607367	0
	273.651459	2025.260493	5412.373262	5906.878734	5223.682605	5232.97659	6032.139264	4410.331585						
	4945.737193	3479.077107	1049.361061	735.3469628	16.64865513	0	0	0	0	0	0	0		
	0	0	0	0	237.8379305	0	35.55181565	9.130236731	136.6710512	2333.386262	5431.547546			
	12492.88639	12953.30481	11140.67518	7242.805769	6665.66787	2058.272165	183.4222925	151.9601876	0					
	0	0	0	0	0									
1986	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50.22412982	50.22412982	50.22412982	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0				
1987	1	1	3	0	102	0	0	0	0	0	0	0	0	0	0	2383.927266
	2957.664567	9679.138318	4157.065418	3593.193154	12144.28492	5732.58501	8426.061502	7416.796664						
	4394.014343	1964.348551	928.7358099	937.8141217	900.2787238	726.5796269	0	0	0	0	0			
	0	0	0	0	0	0	430.2910535	0	2902.048005	12351.54266	4867.234858	9134.255473		

	7136.796858	10866.05896	15087.78289	4035.741886	6704.701835	1616.769457	134.3224756	0	0	0					
	0	0	0	0											
1988	1	1	3	0	90	0	0	0	0	0	0	0	633.3540381	592.8564423	
	1098.584667	2778.706739	4756.417567	3825.8004	9964.594031	11269.59005	6470.088871	3252.593885							
	3302.007425	7690.51279	2204.504403	6684.109513	1119.27588	0	0	27.87036471	0	0	0				
	0	0	0	0	0	0	0	0	0	1541.968632	1200.761316	3479.617324	6458.429072		
	15632.81973	15342.21908	11181.43581	12334.88312	6270.06201	11430.30785	3871.266264	929.7020176	0						
	0	0	0	0	0	0									
1989	1	1	3	0	79	0	0	0	0	0	0	0	0	0	348.0416654
	2734.539436	402.7743756	5942.013054	4298.836559	12296.01921	3771.314491	2035.980019	2029.150893							
	2984.71679	2971.879416	4058.796181	3440.940506	739.8221937	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	534.1684958	6011.5539	8155.980995	9086.358577	9021.919828			
	13834.85644	6120.818491	10316.98968	9909.68297	5608.761957	1833.999019	375.1174998	135.4384182	0						
	0	0	0	0	0										
1990	1	1	3	0	88	0	0	0	0	0	0	0	0	0	259.9892453
	406.4258599	3053.144608	4369.377389	4371.137524	11208.32	9938.26596	4682.58122	5559.400031							
	11757.23925	11779.08534	9876.536171	0	701.8772299	884.5846172	914.8072358	0	0	0	0				
	0	0	0	0	0	0	0	0	1905.595972	4072.032429	8884.297831	13447.32077			
	12041.14312	12086.28224	20527.15536	18001.52645	9654.625906	5252.380444	252.399464	0	0	0					
	0	0	0	0											
1990	1	1	0	0	10	0	0	0	0	0	0	0	20.42655919	1193.17832	
	40.85311837	20.42655919	930.0961371	162.9222361	52.01963739	20.42655919	1829.614472	2812.346826							
	2744.421707	1829.614472	914.8072358	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0							
1991	1	1	3	0	54	0	0	0	0	0	0	0	0	0	419.8012854
	3141.554298	5207.413152	7652.408142	8967.850057	4268.001631	4953.404203	2814.601997	3381.403703							
	1733.717925	2035.387639	1780.289519	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	174.918351	582.1513911	3236.656087	3059.853281	7111.850198	7960.418475	8050.511245					
	10503.47705	9406.454881	4131.479769	2408.551195	172.510113	203.4410178	203.4410178	0	0	0					
	0	0	0												
1991	1	1	0	0	9	0	0	0	0	0	0	0	0	8.027459889	0
	974.7665842	831.9302653	2872.379508	503.2860574	373.3660788	266.5271057	0	503.2860574	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0													
1992	1	1	3	0	46	0	0	0	0	0	0	0	0	0	143.0552089
	4022.264447	1984.571887	8370.006261	5306.384664	4134.517901	16565.90849	926.5372356	11186.55496							
	1613.138961	1470.083752	1234.540922	0	617.2704608	0	0	0	0	0	0	0			
	0	0	0	0	0	0	2355.098879	3276.691189	7236.435798	13394.4257	10020.1238				
	10480.2559	17567.70674	5076.606868	7060.602251	8060.506276	2180.747769	0	0	0	0	0				
	0	0													
1992	1	1	0	0	15	0	0	0	0	0	0	0	0	0	479.097883
	997.2757605	549.0914582	858.8365009	620.343465	756.2055469	220.9649696	79.49692413	0	0						
	42.55144382	89.52579756	0	0	0	0	0	0	0	0	0	0	0	0	0

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1993  1      1      3      0      19     0      0      0      0      0      0      0      0      0      0      0
      882.0553899  882.0553899  1533.952326  0      209.3948202  3364.101206  1293.371613  1188.674203  536.4727758
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      882.0553899  0      4508.038802  882.0553899  1072.228631  3119.414695  4975.30507   3433.412514  6354.345579
      1188.674203  0      0      0      0      0      0      0      0      0      0
1993  1      1      0      0      50     0      0      0      0      0      0      12.21510775  388.4439333  732.6111191
      1857.94966   2183.342859  3368.231424  2610.760856  8615.860177  2095.66672   2574.713344  240.4069877
      745.8637896  372.4745802  345.246208   527.8375473  26.11609355  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1994  1      1      3      0      22     0      0      0      0      0      0      0      0      0      0      975.0284374
      487.5142187  3107.81695   3595.331169  1478.299074  5543.837124  15506.98762  585.9348078  163.4678057
      2760.066587  2620.302731  123.5512485  160.2744811  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      2803.158579  975.0284374  2620.302731  7833.69683   10760.73864
      3882.284731  8287.691104  3323.658662  380.9569709  0      0      0      0      0      0      0      0      0
1994  1      1      0      0      15     0      0      0      0      0      0      0      0      0      0      91.31622808
      271.4097061  197.7920007  1026.69544   992.697459   667.8885503  604.7938745  510.8664523  112.5120541
      182.6324562  257.6404922  91.31622808  128.8202461  0      0      0      91.31622808  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1995  1      1      3      0      40     0      0      0      0      0      0      0      0      0      145.5665004
      1331.711428  3937.268123  2758.615825  5603.24343   3971.809249  1294.589123  2596.796213  3466.78277
      1344.541018  1200.170174  502.7224669  169.2898544  169.2898544  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      593.0724637  2325.453239  5495.162758  6962.27262   4829.095272
      5244.375431  5027.94276   3891.191676  3011.507012  282.5432487  1414.824775  0      0      0      0      0
      0      0      0
1995  1      1      0      0      13     0      0      0      0      0      0      0      0      389.5033117  2789.065983
      1397.661008  832.5745103  603.4234376  271.4255361  1329.213596  2770.937777  2119.513643  1818.955852
      2008.140317  0      423.9027286  423.9027286  194.7516558  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1996  1      1      3      0      42     0      0      0      0      0      0      0      0      202.3093524  50.94005489
      476.4255542  187.8343931  8732.090496  8014.46272   2186.269219  1759.280639  3997.390728  3181.688219
      4460.20767   3696.601062  1658.373504  0      3316.747008  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      2627.24107   1816.927719  10516.87029  11940.47474  7281.359155
      2936.515954  9766.789937  6313.592229  2645.115499  1681.189227  3316.747008  0      0      0      0      0
      0      0      0
1996  1      1      0      0      43     0      0      0      0      0      0      0      293.0507601  767.3597642
      953.3592443  2108.873361  1609.271585  4266.116788  3403.001052  9597.553293  839.0437563  4236.924035
      712.6647278  596.5683957  1990.537176  1193.136791  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
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	2881.629931	675.3077242	18.60174508	1948.999659	0	208.9925882	0	1948.999659	1948.999659	0						
	0	0	0	0	0	0	0	0	0	0	302.0013135	350.3312733	3202.23299			
	3556.215457	1270.391408	1320.887234	2206.322207	4155.321867	675.3077242	2157.992248	0	0	0						
	0	0	0	0												
1997	1	1	0	0	49	0	0	0	0	0	0	0	0	48.63420548	127.4551592	
	463.4477657	1671.599458	1977.464147	3814.258135	8165.550124	9086.441731	5495.541035	7680.113308								
	1992.043259	3319.907245	1380.470183	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0									
1998	1	1	3	0	25	0	0	0	0	0	0	0	0	0	0	317.3084392
	4678.66467	4504.126146	6284.287258	244.4427132	317.3084392	7986.923715	4284.613369	8090.92864								
	3936.165731	1968.082866	3728.155881	0	104.0049251	0	0	0	0	0	0	0	0			
	0	0	0	0	0	893.0722312	31.13919914	847.9203925	5280.392776	1555.402997	2816.003258					
	5359.422145	7114.629267	317.3084392	1968.082866	213.3035141	1864.07794	0	0	0	0	0					
	0	0														
1998	1	1	0	0	18	0	0	0	0	0	0	0	0	56.05055844	3144.396577	
	5560.149144	4661.495046	2552.14226	1217.688444	573.4456516	349.8455896	262.033048	112.1011169	0							
	262.033048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0												
1999	1	1	3	0	55	0	0	0	0	0	0	0	0	407.3243872	0	
	45.54759487	717.6578902	746.139722	3923.922876	5120.966339	5136.198167	7055.881148	1931.70172								
	4987.471582	418.9110715	633.0788373	303.6237226	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	2172.309691	3767.372603	3456.819271	7202.774054				
	4054.569752	6548.180634	519.8528408	660.4093365	115.2873489	0	0	0	0	0	0	0				
	0															
1999	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	118.7176021	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0					
2000	1	1	3	0	18	0	0	0	0	0	0	0	0	0	0	0
	159.9572364	129.4199458	687.525285	233.2467337	522.3330845	162.8655497	162.8655497	245.067156	0							
	0	0	103.826788	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	214.3426967	209.398564	680.8361642	485.3975045	428.1037308	799.4607962	0	0					
	0	0	0	0	0	0	0	0								
2000	1	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0
	63.98289454	0	0	31.99144727	2723.271949	31.99144727	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2001	1	1	3	0	23	0	0	0	0	0	0	0	0	0	0	0
	14.4390247	64.56038873	271.8484428	425.3795987	199.1253408	382.1816302	417.9179652	93.53524822								
	109.2003609	14.4390247	14.4390247	0	0	0	0	0	0	0	0	0	0	0	0	

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      0      0      0      0      0      0      82.9475887   228.5162874  391.3191957  300.1762182  456.8035888
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2001  1      1      0      0      22     0      0      0      0      0      0      0      115.5121976
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      73.96316734  0      14.4390247   52.30463029  0      0      0      0      0      0      0      0      0
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2002  1      1      3      0      43     0      0      0      0      0      0      0      0      0      0      0
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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
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      56.89073217  16.60427793  0      0      0      0      0      0      0
2002  1      1      0      0      13     0      0      0      0      0      0      0      12.05347583  0      77.62438434
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      167.3022445  0      192.1324047  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
2003  1      1      3      0      11     0      0      0      0      0      0      0      0      0      0      0
      0      12.14989873  42.52464557  30.37474684  30.37474684  42.52464557  24.29979747  12.14989873  6.074949367
      0      6.074949367  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      18.2248481   18.2248481   18.2248481   18.2248481   0      0      0      0
      0      0      0      0      0      0
2004  1      1      3      0      8      0      0      0      0      0      0      0      0      0      0      0
      71.48044286  35.74022143  0      35.74022143  0      35.74022143  0      0      71.48044286  0      0      0
      71.48044286  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      35.74022143  0      0      71.48044286  35.74022143  0      35.74022143  0      0      0      0      0      0
      0      0      0      0
2004  1      1      0      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      35.74022143  0      0      0      0      0      0      0      0      0      0      0      0
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      0      0      0      0      0      0      0      0      0      0      0
2005  1      1      3      0      13     0      0      0      0      0      0      0      0      5.321926513  5.321926513
      0      15.96577954  15.96577954  15.96577954  10.64385303  0      25.41491437  46.70262042  15.96577954
      15.96577954  61.47368177  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      5.321926513  10.64385303  21.28770605  26.60963257  10.64385303  5.321926513
      92.21052265  30.73684088  25.41491437  25.41491437  0      0      0      0      0      0      0      0
2005  1      1      0      0      5      0      0      0      0      0      0      0      0      0      5.321926513
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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2006  1      1      3      0      9      0      0      0      0      0      0      0      0      0      0      0
      17.18399161  0      0      0      17.18399161  51.55197482  34.36798322  17.18399161  68.73596643  34.36798322
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      17.18399161  17.18399161  17.18399161  85.91995804  85.91995804  51.55197482  34.36798322  0
      0      0      0      0      0      0      0      0
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2006	1	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	1	1	3	0	5	0	0	0	0	0	0	0	0	104.8958646	314.6875937	
	209.7917291	209.7917291	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	419.5834583	629.3751874		
	209.7917291	0	0	0	816.4575026	0	0	0	0	0	0	0	0	0	0	
	0	0														
2007	1	1	0	0	13	0	0	0	0	0	0	0	0	0	0	209.7917291
	629.3751874	423.7792929	528.6751574	427.9751274	851.7544203	423.7792929	537.0668266	528.6751574	0							
	0	213.9875637	0	104.8958646	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0												
2008	1	1	3	0	5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	30.64298554	0	0	0	0	15.32149277	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.32149277	0
	15.32149277	30.64298554	0	0	0	0	0	0	0	0	0	0	0			
2008	1	1	0	0	8	0	0	0	0	0	0	0	0	0	0	0
	54.86082895	39.53933618	15.32149277	15.32149277	35.09116086	93.782363	16.50006914	46.58228043	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0															
2009	1	1	3	0	6	0	0	0	0	0	0	0	0	0	0	0
	0	16.87237502	35.01813684	0	16.87237502	0	0	16.87237502	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	16.87237502			
	16.87237502	50.61712507	50.61712507	33.74475004	35.01813684	50.61712507	16.87237502	0	0	0						
	0	0	0	0	0	0										
2009	1	1	0	0	19	0	0	0	0	0	0	0	0	0	50.00165478	
	37.50124109	55.57979638	134.2912387	283.9307675	480.9508967	289.7483324	127.3143613	379.3178289								
	28.89880586	12.5004137	0	12.5004137	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0									
2010	1	1	3	0	3	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	11.52984096	0	5.764920482	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	5.764920482		
	5.764920482	5.764920482	5.764920482	0	5.764920482	0	0	0	0	0	0	0	0			
	0															
2010	1	1	0	0	15	0	0	0	0	0	0	0	0	0	5.764920482	0
	5.764920482	17.29476145	28.82460241	63.4141253	69.17904578	40.35444337	28.82460241	11.52984096	0							
	5.764920482	5.764920482	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0												
2011	1	1	0	0	6	0	0	0	0	0	0	0	0	0	0	
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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
2012  1      1      3      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      2.159067838  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
2012  1      1      0      0      35     0      0      0      0      0      0      0      0      3.324964471  6.477203515
      2.159067838  10.19319916  26.93099092  63.50123835  125.868857   90.06889523  44.91668028  23.64920781
      20.22370493  12.26350532  0      0      0      2.900565884  3.324964471  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
2013  1      1      3      0      35     0      0      0      0      0      0      0      0      0      0      6.226093984
      38.1407811   33.59339505  48.91627424  53.8942416   25.15542467  13.83340336  27.06980852  21.91785986
      14.01305795  10.06065699  1.97620048   0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      1.97620048   0      36.76157881  96.34105953  45.45059792  20.12131397  35.57728194
      37.67132037  57.61297976  15.45596796  14.01305795  1.97620048   0      0      0      0      0      0      0
2013  1      1      0      0      27     0      0      0      0      0      0      0      3.952400959  5.928601439
      1.97620048   14.52177986  55.78813954  56.79768731  48.7576398   59.21320382  73.22818615  51.78141494
      47.40454132  12.67880638  8.084456508  24.80650043  2.387908913  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0

# 2015 Oregon trawl fleet (n=46)
1973  1      2      3      0      7      0      0      0      0      0      0      0      0      0      0      0
      1383.422779  0      5533.691115  2766.845558  691.7113894  0      691.7113894  0      691.7113894  0
      691.7113894  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      1383.422779  1383.422779  2075.134168  2075.134168  691.7113894  691.7113894  2766.845558
      691.7113894  4841.979726  4150.268336  1383.422779  691.7113894  0      0      0      0      0
1974  1      2      3      0      28     0      0      0      0      0      0      0      0      914.8534795  0
      914.8534795  0      1944.850277  0      2538.723756  1829.706959  129.4274426  4162.839564  10983.55269
      25215.82806  23012.1229   16410.54845  4713.860668  7764.625919  1029.996797  0      0      0      0      0
      0      0      0      0      0      0      0      0      914.8534795  129.4274426  129.4274426  1739.013594
      2318.84848   1159.178708  10983.55269  21804.61213  46844.64495  29124.4221   20157.51957  4339.862465
      1944.850277  914.8534795  0      0      0      0
1976  1      2      3      0      14     0      0      0      0      0      0      0      0      0      0      0      0
      0      2479.783072  1072.71872   4959.566144  0      6700.976129  4625.220512  1407.064352  11730.2241
      11326.19664  4959.566144  2479.783072  2479.783072  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      2479.783072  4221.193057  9919.132289  15213.04407  7773.694849
      8108.040481  5293.911777  3886.847424  1072.71872   0      0      0      0      0      0
1977  1      2      3      0      56     0      0      0      0      0      0      0      0      556.1496114  0
      388.7840003  488.6156996  1433.549311  1239.157311  4210.178088  5992.34585   5616.172246  10345.21736
      7228.108529  12020.75888  16758.72357  19585.8176   11397.13663  4861.809655  1928.944162  703.981218   0
      0      0      0      0      0      0      0      0      0      556.1496114  556.1496114  583.1760005  1507.202701
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1239.157311 2305.677613 5623.613989 9510.289062 18884.06529 39989.24362 45350.18521 36625.92871
10103.62921 5438.249346 342.2236067 509.5866876 0 0 0 0
1978 1 2 3 0 42 0 0 0 0 0 0 0 0 916.436641 0
0 0 0 8428.1307 4608.330843 7826.888674 33959.60849 46614.95847 52094.83565 45417.63058
65121.45234 43590.90084 35585.5666 2558.879443 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1578.191203 3821.691771 9516.92374 45426.39146 73338.40476
83249.18769 119967.7807 69825.51803 29970.82278 4008.751707 916.436641 0 0 0 0
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	21141.34983	36512.16865	58840.76661	58860.73176	52823.28371	38236.22879	13019.30935	2448.10558
	241.4135749	0	0	0	0			
1986	1	2	3	0	113	0	0	0
	0	0	0	0	0	0	0	0
	0	0	617.1911778	1639.152035	1634.639603	5288.824979	10846.36864	13550.4129
	15437.46561	17597.73155	28862.00806	43274.67309	37804.69957	27516.47117	26114.72831	14396.22002
	3039.263425	623.0107724	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	357.1696742	1001.409134	1088.922659	3071.22376	5895.833056	16116.24722	29053.29956	37984.64867
	36873.05731	53566.56551	43534.23001	27915.6167	7199.659063	3305.180817	412.9986455	94.58706376
	0	0	0					
1987	1	2	3	0	247	0	0	0
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	0	0	0	112.1745279	2843.451415	8795.658041	8454.983957	19374.90794
	27777.42846	51670.90542	76524.74692	56591.5385	45271.9223	34005.79997	16378.47965	4505.124939
	331.9522293	48.82796785	0	0	0	0	0	0
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	5326.712999	4732.465304	14970.65006	39058.59281	73991.85427	92927.9405	97111.13093	63315.92907
	39831.02309	18783.26392	825.1868896	0	0	0	0	
1988	1	2	3	0	162	0	0	0
	0	0	0	0	0	0	0	0
	0	2151.642624	1042.249424	6525.409564	6714.616644	8217.931833	7434.408535	21003.34607
	37846.82744	44475.82666	52313.26018	53544.0811	37007.50919	19135.10882	13379.62161	7752.363293
	1076.210826	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	588.268488
	785.4996131	3788.132855	6739.881344	9960.579972	30980.29678	50886.55713	55990.18236	63179.32843
	41662.82547	24601.37913	11138.02696	640.9024358	197.2311252	0	0	0
	0							
1989	1	2	3	0	162	0	0	0
	0	0	0	0	0	0	0	0
	0	1039.970886	0	84.72349319	369.6343288	1719.645404	5267.976328	12318.14263
	21827.88932	43239.72417	48329.07809	45182.15311	58846.54401	54809.00572	26885.97633	17824.77098
	6904.77094	3084.217309	0	0	0	0	0	0
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	909.2261674	409.0970728	7624.339506	11094.46543	30627.91897	48725.24424	73853.07775	83197.44857
	67434.87709	52411.53492	18263.83842	3848.765337	761.6524014	0	0	0
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1990	1	2	3	0	155	0	0	0
	0	0	0	0	0	0	0	0
	0	0	157.597431	290.1360502	2120.138523	2608.760266	10422.61993	12468.17542
	15816.82419	29172.78867	44640.86401	40211.78627	42522.38919	21736.81727	10295.37358	3119.019699
	252.672609	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	132.5386192	737.4722858	1693.526454	7174.495127	16314.14161	34437.35746	55175.07934	62622.33166
	32514.14855	13414.62965	6606.647914	817.1352558	0	422.1554516	0	0
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1991	1	2	3	0	142	0	0	0
	0	0	0	0	0	0	1515.71963	0
	252.6673014	671.4099699	2540.71861	6944.775833	13243.62764	19383.63011	16304.52325	42225.88983
	61215.1629	35413.09788	62945.63695	65148.57717	38525.31269	19911.04367	18927.2442	7026.77312
	885.6346044	0	0	0	0	0	0	0
	0	0	252.6673014	252.6673014	758.0019041	758.0019041	2647.827752	8364.433516
	9434.91464	21671.02299	44470.0254	91664.63972	95344.04212	93188.76139	59813.19371	57777.35529
	7401.731678	4409.255693	212.3189611	0	0	0	0	
1992	1	2	3	0	222	0	0	0
	0	0	0	0	0	0	0	0
	921.8893626	670.6544707	2697.235938	12938.10737	27228.4059	24149.33671	33349.31755	35275.13903
	50777.96004	49041.21431	51269.00757	13407.17516	11142.42167	4358.777248	63.28854731	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	491.0206291	4286.191992	9953.051844	24831.95935	35168.75948	55977.16738	77657.60688	71399.11115
	60782.54755	43291.987	7698.10121	5211.118178	296.2716895	0	0	0
	0							

1993	1	2	3	0	155	0	0	0	0	0	0	0	0	0	0
	145.0662784	5617.393483	505.6821177	11877.36774	26579.86736	29176.99151	36224.0441	62188.31124							
	66133.62213	67471.57285	55353.59491	18485.67151	12177.67352	7284.622773	2930.476882	0	0	0					
	0	0	0	0	0	0	0	0	0	106.8207138	3269.010302	14490.8286			
	30033.92935	42554.40835	72462.44053	65008.29354	61024.96621	45726.31391	22684.53882	7305.381741							
	2440.976051	0	0	0	0	0									
1994	1	2	3	0	106	0	0	0	0	0	0	0	0	0	0	474.7340413
	399.3246433	1204.741097	4210.074694	7368.703885	12309.09382	21569.08204	22369.81834	21552.33398							
	26549.25468	19075.1241	10155.58753	5002.363651	264.01557	0	142.4950104	506.7736957	0	0					
	0	0	0	0	0	0	0	0	86.88506889	264.01557	558.9280138	819.5832205			
	10684.77166	14512.79772	33147.67538	35168.82935	32824.40959	32431.28028	17834.16531	10703.27401							
	6047.069528	1096.696352	0	0	0	0	0								
1995	1	2	3	0	113	0	0	0	0	0	0	0	0	0	0
	4508.242013	5449.65636	9630.517472	8261.390264	13946.67574	14385.53644	17889.40694	20105.79117							
	19922.43633	11899.46094	5277.862058	3513.040169	453.8485085	63.29047483	0	0	0	0	0				
	0	0	0	0	0	0	126.5809497	186.3082214	4008.543402	4766.640149	13019.82039				
	14167.88516	21500.10809	20484.45462	27967.62734	18840.76196	11444.97703	7320.302575	3521.852685							
	1147.112335	259.7330559	0	0	0	0	0								
1996	1	2	3	0	134	0	0	0	0	0	0	0	81.85912286	0	548.4490654
	524.1937562	5367.513303	8650.735139	10699.55362	21988.39353	19850.625	21540.47507	19255.65909							
	20149.90855	17647.76638	13706.52878	12207.90151	3717.995678	2126.809335	1506.086428	0	182.682676						
	0	0	0	0	0	0	55.64105784	55.64105784	0	137.5001807	827.6160783				
	5043.96756	9921.957053	24021.18234	27992.23774	27249.54841	24607.55703	22824.42275	26881.12871							
	25802.78981	12330.04465	4804.411058	238.3237338	812.4727261	0	0	0	0						
1997	1	2	3	0	184	0	0	0	0	0	0	0	0	0	0
	500.061083	2206.645663	2733.954752	9004.808363	10499.69342	15495.98599	18170.08479	17909.30313							
	19927.4589	10556.17281	4014.973574	4510.968233	1483.428781	645.0177699	458.0442371	0	0	0					
	0	0	0	0	0	247.7707423	66.76282773	0	149.7570946	312.6806818	1210.102675				
	4525.229929	11142.99981	22136.9772	29373.00106	32850.90112	27431.10915	18880.18196	8660.655204							
	3320.708839	1194.775181	871.5684085	0	46.08904805	0	0	0							
1998	1	2	3	0	198	0	0	0	0	0	0	0	0	710.5827066	
	788.0141969	2408.829936	6126.491254	13635.8154	19078.77469	17491.0294	20380.72243	23691.12782							
	15721.0095	17160.79169	16232.52368	8692.851318	1976.419213	1536.978796	177.7586397	0	0	0					
	0	0	0	0	0	0	110.5352886	0	0	983.6778986	1595.666707	10062.50031			
	15638.85805	22348.53028	35163.21426	33759.40274	32342.19033	23468.19679	15680.25909	4508.415638							
	2587.858671	217.4517798	0	0	0	0	0								
1999	1	2	3	0	198	0	0	0	0	0	0	0	106.1141939	94.47193075	
	194.7666036	361.6215474	1034.789325	1586.478535	7126.71198	8446.936631	10269.90689	13783.17529							
	13866.28047	10885.25582	11315.90318	8513.026203	3539.098167	2171.196184	929.2001253	97.12929703							
	12.27614214	0	0	0	0	0	0	0	31.49064358	62.98128717	31.49064358	119.3464475			
	0	477.4168598	1063.412567	6152.777227	8635.204287	11991.64618	14865.3986	16652.28945	15809.32117						
	11025.93987	3627.263779	3529.610535	1146.828705	120.2971609	0	0	0	0	0					
2000	1	2	3	0	60	0	0	0	0	0	0	77.96116303	0	0	77.96116303
	155.9223261	393.8795899	578.043679	468.8418356	352.1181557	326.8984119	533.9193275	328.4364094							
	517.262053	206.1937704	155.806901	90.43939607	18.55826067	24.90102819	0	0	0	0	0				

	0	0	0	0	0	0	0	0	0	363.8957319	454.1480089	762.2518672	671.5995732		
	479.2883534	748.3277074	723.715188	429.5765912	232.2408141	142.4996505	16.68368889	24.90102819	0						
	0	0	0	0	0										
2001	1	2	3	0	151	0	0	0	0	0	0	0	0	5.688329345	
	35.56853165	129.879627	354.187443	386.2260401	314.6353003	436.1372646	393.6562785	421.9763004							
	389.7984919	326.0564454	147.6820101	88.26186227	93.77157781	41.16031571	25.1424157	0	0	0					
	0	0	0	0	0	0	0	0	0	11.37665869	34.12997607	138.3586153	262.5536731		
	526.9994792	568.356891	743.8034716	585.5705515	440.4643596	283.1356173	147.8443356	76.75381555							
	32.88051644	5.688329345	0	0	0	0	0								
2002	1	2	3	0	218	0	0	0	0	0	0	0	0	0	39.69738571
	178.82692	410.6973172	774.2092549	921.0122595	488.4961661	486.6341701	417.6590953	621.6893373							
	341.8169287	222.6399339	318.0943857	205.8522944	150.619398	72.021534	0	0	0	0	0				
	0	0	0	0	0	0	0	54.9926338	57.85478636	202.3571178	570.7630847	747.5076731			
	716.2906218	796.285003	957.9771535	545.6997633	376.4146618	201.4910882	35.09950295	87.97198503							
	9.898166966	0	0	0	0	0									
2003	1	2	3	0	78	0	0	0	0	0	4.975153094	0	0	0	0	0
	5.129023809	25.38341702	52.06303759	53.68923677	142.1471767	154.2230337	120.4496188	82.60915379							
	92.76132733	60.74667927	53.79901655	29.37775164	29.17468417	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	5.129023809	51.31207038	113.4838883	83.60462834			
	150.5480057	152.9682434	124.8583732	69.81528329	16.44346834	0	4.975153094	0	0	0	0				
	0	0													
2003	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	7.003870428	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0					
2004	1	2	3	0	100	0	0	0	0	0	0	0	0	0	6.517567747	
	25.9572824	18.1777851	36.37301898	70.3457036	101.699869	152.6976321	132.5016273	196.6719201								
	78.13898828	128.4831956	130.6209183	64.87546812	27.05217664	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	3.258783874	9.16331307	27.38825498	39.07418036	130.6815278				
	110.1125616	166.605157	168.6054685	194.2198124	103.1058967	105.8496976	47.28292143	10.63968615								
	27.61164707	0	0	0	0	0										
2005	1	2	3	0	98	0	0	0	0	0	0	0	0	0	0	0	0
	0	7.409924502	56.89091789	79.36974653	66.4493808	163.95568	182.3319937	124.6929203	167.4110658								
	99.44579634	47.90290723	27.73473467	0	0	4.603134918	0	0	0	0	0	0	0				
	0	0	0	0	4.603134918	4.603134918	4.603134918	21.21932926	72.64429218	155.2091789							
	354.4051473	249.7062829	177.0167394	64.51278191	21.44939517	0	7.942664172	0	0	0	0						
	0																
2006	1	2	3	0	105	0	0	0	0	0	0	4.267379532	6.74500735	3.372503675		
	10.15537729	8.800736472	28.214386	10.30230575	48.29768973	50.78950444	45.90787593	56.71963153								
	67.38440742	78.99822874	86.31788719	68.88152439	33.02005062	14.83901617	14.57992677	5.40797752	0							
	0	0	0	0	0	0	3.392758952	0	0	3.372503675	3.392758952					
	6.74500735	27.72198021	53.25216556	53.01383265	109.026218	128.8309037	148.0330646	133.876311								
	56.79119709	15.54574382	14.21021211	6.762618335	3.420003727	0	0	0	0							
2006	1	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	7.156298476	0	0	0	0	0	0	0	0	0	0

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0
2007 1 2 3 0 18 0 0 0 0 0 0 0 0 0 0 0
0 0 0 49.31081077 17.97466569 17.97466569 17.97466569 107.8833427 53.92399708 17.97466569
53.92399708 53.92399708 17.97466569 0 0 0 0 0 0 0 0 0 0 0
0 0 17.97466569 0 0 0 0 48.96546861 17.97466569 36.3413784 17.97466569
35.94933139 0 0 0 0 0 0 0 0
2007 1 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 30.99080292 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0
2008 1 2 3 0 88 0 0 0 0 0 0 2.737014209 2.737014209 8.211042627
21.42918616 19.15909946 8.189146513 7.744115112 2.715118095 7.722218998 18.89319466 2.715118095
20.17593056 14.98843956 35.86182827 26.22793586 54.2552432 35.65552551 28.40332163 5.43023619 0
0 0 0 0 0 0 0 0 0 0 13.21814353 24.16620037 24.16620037
13.19624742 11.09569678 13.23274094 18.68654836 47.29342542 29.28184664 77.72425141 24.74834353
19.35391873 13.79622673 5.007100903 0 0 0 0 0 0
2009 1 2 3 0 148 0 0 0 0 0 0 0 0 0 20.28804534
9.994463361 49.67319819 23.93835223 22.92158969 35.98027657 34.21950919 69.35583624 78.93738287
91.17730935 92.8952616 160.120291 119.3975834 51.74655939 31.30956008 7.210998374 3.231781581 0
0 0 0 0 0 0 0 0 0 6.76268178 6.76268178 13.22624494 73.19302511
54.36697793 48.32958703 49.94706945 97.29852381 124.9959271 166.9483803 142.2323603 126.5228892
33.4079951 14.78132255 6.76268178 0 0 0 0 0
2009 1 2 0 0 2 0 0 0 0 0 0 0 6.76268178 0 0
6.76268178 6.76268178 6.76268178 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0
2010 1 2 3 0 82 0 0 0 0 0 0 0 0 3.16256571
7.686202792 40.23764814 65.07952371 34.83321691 48.2049354 18.84706585 30.24281483 61.15869257
90.51418987 74.49518989 106.4379363 50.9835038 23.22099999 13.90204515 0 0 0 0 0
0 0 0 0 0 0 0 0 0 26.27779756 63.5338252 37.01845896 35.33129645
33.17162987 73.00915123 159.2634757 120.5087912 129.4728547 72.76231445 12.1950077 0 0 0
0 0 0 0
2011 1 2 3 0 103 0 0 0 0 0 0 0 0 3.056169733 21.90685634
48.18194669 35.85374181 85.01447525 175.6275847 241.6047377 176.9382428 160.4332799 57.94338321
79.85210131 43.06908297 39.05668698 12.27647842 27.6006651 6.130974647 0 0 0 0 0
0 0 0 0 0 0 3.056169733 6.112339466 28.72177332 25.66025909 57.27972868
106.9205259 149.29162 135.9523746 228.9181243 97.86111559 93.23145381 37.70465723 3.056169733
3.056169733 17.85984482 0 0 0 0 0
2012 1 2 3 0 127 0 0 0 0 0 4.6228485 6.805444717 9.245697
13.99529026 0 42.49730308 38.09104274 92.27352858 93.16857781 143.7915545 206.5620738 192.8616764
173.9020112 151.676944 87.95657428 139.4495744 102.6013723 63.67353323 38.65917611 0 0 0
0 0 0 0 0 4.6228485 0 0 9.245697 4.6228485 4.583545478 41.2620008
100.6479639 133.9126764 115.4676398 326.5062221 271.0627606 214.9533721 216.7109162 141.2864741
79.01519994 38.63323246 4.571483516 20.91669345 0 0 0 0 0

```
2013   1      2      3      0      320    0      0      0      0      36.87991993  94.13987811  67.81602158  9.00316891
       26.44144993  36.73185832  42.24827727  61.77594468  63.51748758  76.38163564  66.01101432  77.01809464
       126.8568704  200.7565368  206.2711447  183.0898446  183.4660775  208.8420518  114.0194581  43.11100628
       22.48515078  1.660617119  0      0      0      0      0      9.210803727  46.62973865  137.6060221  78.56270641
       3.194469573  56.74435389  34.74756941  55.23119432  90.48677641  112.8052668  135.8056048  166.3844128
       261.6183442  240.4427699  246.6028881  167.6559884  112.7715266  17.91092127  25.42023702  0      0      0
       0      0      0
2013   1      2      0      0      2      0      0      0      0      0      0      0      0      0      0      1.814882098
       4.92034702   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0
2014   1      2      3      0      285    0      0      0      0      3.084906328  6.169812656  14.85512167  23.25777601
       14.72512835  34.50920534  37.20739685  55.22328332  147.7981391  183.3958017  136.5555483  126.8308997
       255.6760749  213.2147935  268.6656019  237.7295072  170.5726517  251.6121101  164.9065771  34.83529115
       4.228900821  0      0      0      0      0      0      0      0      0      8.786125618  27.86245845  32.73953222
       22.97072706  55.07349207  103.6402759  167.5524583  226.0659153  230.3823648  220.3262586  336.5145851
       376.8488432  231.7571649  115.2541668  38.50482302  13.22514748  0      0      0      0      0      0

# 2015 Washington trawl fleet (n=62)
1968   1      3      3      0      7      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      6240.572121  24962.28848  18721.71636  49924.57697  87368.00969  68646.29333  31202.8606
       18721.71636  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      6240.572121  0      24962.28848  43684.00484  106089.7261  93608.58181  143533.1588  149773.7309
       93608.58181  37443.43272  6240.572121  0      0      0      0      0
1969   1      3      0      0      14     0      0      0      0      0      0      0      0      0      0      0      0
       1212.954066  6064.770332  25927.68882  49331.04217  78399.0913   126012.3123  160787.9057  146127.6643
       106549.4684  65050.23136  16427.27617  1212.954066  0      1212.954066  0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0
1970   1      3      0      0      7      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      12527.16633  45097.79879  122766.23    75162.99799  90195.59759  145315.1294  105228.1972
       55119.53186  15032.5996   5010.866533  0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0
1971   1      3      3      0      14     0      0      0      0      0      0      0      0      0      0      0      0
       0      0      969.3801201  1799.638254  5816.28072   10245.81536  8166.441876  12183.08434  7336.183742
       4706.287354  2353.143677  276.7527114  0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      276.7527114  0      2215.512952  4015.151206  14259.47531  20488.6482
       29904.20543  29768.06597  23817.13704  6785.660841  1246.132831  969.3801201  0      0      0      0
1971   1      3      0      0      28     0      0      0      0      0      0      0      0      0      0      0      0
       0      163.9382851  3900.70681   11164.34676  40726.93671  60738.71363  74125.26675  69889.98956  66921.34591
       39179.56166  15522.6741   2315.480597  67.62423003  0      67.62423003  0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0
```

1972	1	3	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	735.8377231	2207.513169	1839.594308	7726.296092	7726.296092	9197.971538	3679.188615							
	4782.9452	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	367.9188615	735.8377231	3311.269754	9565.8904	16556.34877	9933.809261							
	12141.32243	5150.864061	1471.675446	0	0	0	0	0									
1972	1	3	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	366.3782679	1465.513072	7693.943626	18318.91339	25280.10048	17586.15686	9525.834965								
	4396.539215	2198.269607	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0														
1973	1	3	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	1822.500732	7290.002928	21870.00879	41917.51684	25515.01025	40095.01611	18225.00732							
	14580.00586	1822.500732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	1822.500732	0	0	3645.001464	7290.002928	30982.51245	58320.02343	72900.02928							
	41917.51684	23692.50952	3645.001464	1822.500732	0	0	0	0	0								
1975	1	3	3	0	21	0	0	0	0	897.8280051	0	0	1795.65601	9258.358094			
	10734.83795	19379.54338	20277.37138	78784.64847	93598.84631	132810.9801	114862.6146	37665.65232									
	9826.708771	2952.959711	0	2090.132522	1795.65601	2090.132522	0	0	0	0	0	0					
	0	0	0	0	0	0	2090.132522	10699.83713	7417.400094	25899.11547	41926.22017						
	104912.3361	114275.6967	119353.7897	58311.59914	12166.01582	7122.923582	1476.479856	2987.960527	0								
	0	0	0	0	0	0	0										
1975	1	3	0	0	14	0	0	0	0	0	0	0	267.7516614	654.6507318			
	654.6507318	238.2948179	1697.520569	3156.74632	5389.770212	5478.140743	1994.729074	2679.496667									
	3808.756982	11216.77295	18267.3467	21153.04127	9460.998716	5801.506004	1041.549802	59.57370448	0								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1976	1	3	3	0	14	0	0	0	0	0	0	0	0	0	14.21721981	0	
	42.65165942	0	85.30331885	113.7377585	3736.918008	10897.97519	9001.081745	21468.95432	21483.17154								
	41097.88408	37474.70383	16048.40117	12482.0898	1783.155685	1783.155685	0	0	0	0	0						
	0	0	0	0	0	0	0	0	14.21721981	42.65165942	127.9549783	3751.135228					
	10855.32353	12794.86863	30484.25329	82124.68206	117802.013	103494.1158	19614.71254	5363.684275	0								
	14.21721981	0	0	0													
1976	1	3	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
	253.421508	1013.686032	1182.633704	675.7906881	422.3691801	253.421508	84.47383601	84.47383601									
	253.421508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0														
1977	1	3	3	0	14	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1544.5508	1544.5508	5042.934397	16673.35399	15538.08519	19082.75738	37756.23276								
	45432.69817	26442.51798	11313.71478	1953.832797	1953.832797	0	0	0	0	0	0	0					
	0	0	0	0	0	772.2754001	0	0	0	9676.586798	10858.14419	17538.20658					
	45432.69817	97823.19028	173250.3939	95282.23645	38667.37394	1953.832797	1953.832797	0	0	0							
	0																
1978	1	3	3	0	28	0	0	0	0	0	0	0	0	0	0	190.9753139	
	190.9753139	381.9506279	572.9259418	1604.441944	13791.56686	32055.86656	45496.11261	39262.61438									

	36057.48346	56462.43204	44916.8284	24048.09961	11190.12624	5001.660174	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	381.9506279	763.9012558	8212.689624			
	11611.91888	48164.84593	102601.0995	109818.9407	164439.0246	126164.0621	29110.17175	7332.441464	0							
	0	1106.144412	0	0												
1979	1	3	3	0	56	0	0	0	0	0	0	0	0	0	0	0
	427.5652911	0	6315.089632	6087.39254	12237.45038	30845.12959	29769.52136	47357.88914	21884.30455							
	22989.46867	14216.2104	12990.04533	10160.90452	301.0506188	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	3026.545271	213.7826455	11741.48415	20525.17347				
	82397.62363	75908.59448	86815.23598	107882.6222	70489.47929	30531.00341	1628.32989	0	0	0						
	0	0														
1979	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	590.4231359	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1980	1	3	3	0	120	0	0	0	0	0	0	892.7448055	0	892.7448055		
	142.029887	2820.264303	1927.519498	2353.609159	4266.690053	10163.01545	15532.21393	18565.23095								
	18658.89813	34129.11193	41870.49171	41624.10013	23110.2002	13171.59003	8603.264046	2377.184607								
	1059.212909	0	0	0	0	0	0	0	0	0	0	0	1176.804579			
	2820.264303	7710.077992	12979.32568	18357.57411	21979.25477	32131.55719	43852.87234	62420.83515								
	78994.38434	65391.39045	24414.71764	5887.663458	2700.754439	0	0	493.99749	0							
1981	1	3	3	0	127	0	0	0	0	0	0	0	0	0	77.95730482	
	155.9146096	256.9140572	675.6917303	2141.015841	3087.548807	5772.659198	6708.540207	7662.076146								
	9842.514157	18040.47325	20016.71832	10070.12886	4642.224992	3199.917311	1285.148055	460.4825435	0							
	0	0	0	0	0	0	0	0	0	0	77.95730482	200.5520315	459.945202			
	770.0841812	4607.133271	8259.371869	9550.906566	11661.16124	17197.97378	27612.21563	33910.77241								
	22337.33885	10487.20885	2988.310472	1107.764522	0	0	0	0								
1982	1	3	3	0	92	0	0	0	0	0	0	0	0	0	204.7889952	0
	2705.98162	355.1926584	1671.626566	4591.744104	13060.88261	7161.848654	7632.443418	11084.13719								
	10061.49951	16541.74506	9299.0163	5288.384008	1125.934346	368.2861851	143.8722994	41.4778018	0							
	0	0	0	0	0	0	0	0	34.73250836	0	239.5215035	845.3083778	329.008471			
	3648.653765	9828.799591	15984.21926	16244.84338	19580.70939	24038.04045	18548.40084	15058.30298								
	4658.634026	3451.912287	912.1668156	0	0	0	0									
1983	1	3	3	0	120	0	0	0	0	0	0	0	0	0	206.1237449	
	777.1266305	1166.701852	1724.902537	4785.121636	8053.802097	13343.68141	17113.2974	16314.84103								
	15496.952	14361.29774	21764.00239	19828.14164	5336.02696	3454.429854	2108.272555	304.252075	0							
	0	0	0	0	0	0	0	0	96.04839098	407.7432878	1271.237159	4986.964713				
	6345.536324	9770.105358	10330.38464	20591.06818	18870.62435	32064.68059	27667.94983	33188.19043								
	21900.21871	6090.360276	1856.760702	668.1964728	0	0	0	0								
1984	1	3	3	0	120	0	0	0	0	0	0	0	0	0	234.2207108	
	702.6621324	1645.97572	1699.519342	2339.845762	2664.062275	4109.468483	9587.055238	12810.84083								
	12568.07331	11161.34804	22046.1644	11794.36226	10130.84405	4511.626133	1269.427416	181.60579	0							
	0	0	0	0	0	0	0	0	480.1027717	1211.086465	2110.901148					
	2876.754598	4291.344729	5477.033876	9932.005732	15299.63027	21653.7271	33688.84056	38260.24288								
	33770.30243	13378.38962	2170.931956	0	0	0	0	0								

1985	1	3	3	0	127	0	0	0	0	0	0	0	0	0	32.67892071
	172.9391476	1128.212702	2601.053365	6094.847581	5789.054631	6594.986967	16217.56509	22090.52801							
	22397.72834	40184.31626	33833.2483	30809.38437	18004.84999	7410.06057	1915.54095	0	0	0					
	0	0	0	0	0	0	0	0	32.67892071	182.4836916	98.03676213	1473.260079			
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	9169.813299	20787.05081	31755.63507	47291.02311	43699.41561	52700.1441	32112.34396	16044.08696							
	10551.29819	4317.436964	759.0371119	211.7432196	0	0	0								
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	0	0	0	0	0	0	0	0	0	0					
1987	1	3	3	0	176	0	0	0	0	0	0	0	0	0	330.4680156
	354.3602514	827.5376686	2714.193824	3589.344034	7626.910544	14023.93557	26067.92449	20479.63206							
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	0	0	0	0	0	0	0	0	0	1552.311224	1978.420034	2786.285808			
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0 0 0 0 0 0 0 0 0 21.02839447 465.6394599 45.64961364 38.59610267
54.36739852 79.02958835 205.016465 228.4187757 160.6855919 93.15022868 10.73086544 13.516108
6.930206502 10.51419724 0 0 0 0
2010 1 3 3 0 56 0 0 0 0 0 0 0 0 0 0 0 0
0 19.43474271 32.78290014 136.5198175 286.5754231 344.8902619 318.7322614 295.9703058 426.8186984
293.9736547 160.4301287 108.9858178 56.01835149 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 24.13483208 24.13483208 146.3321478 346.6678021 346.6678021
411.004914 281.8647231 77.86501966 42.80685349 11.68605539 11.68605539 0 0 0 0 0
2011 1 3 3 0 71 0 0 0 0 0 0 0 0 0 0
4.412078775 22.87578275 16.66012961 64.85800762 143.7034128 80.09703374 129.3322074 126.7343084
110.9332685 117.705825 131.403088 109.6561489 30.53820825 14.45421434 0 0 0 0 0
0 0 0 0 0 0 0 0 0 4.447628433 6.142718105 49.14174484 133.3039313
67.06233541 128.844931 171.4781078 146.592422 72.09170882 39.78675423 22.05179543 8.689882222
8.689882222 0 0 0 0
2012 1 3 3 0 87 0 0 0 0 0 0 0 0 25.26205835 25.26205835
12.63102917 56.81412421 56.81412421 110.4739802 72.49651086 181.5440365 139.5721368 82.08409223
156.8303049 145.9928365 206.2810292 285.8270695 168.4189079 37.58457162 29.19897613 7.516914323
7.516914323 14.16514748 0 0 0 0 0 0 0 0 12.63102917 64.74747014
60.51861668 96.5837783 135.802375 131.3469646 156.8617583 103.2695566 297.0236236 292.3870338
230.219262 123.9780157 83.41899737 30.4341272 0 0 0 0 0 0
2012 1 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 7.516914323 15.03382865 15.03382865 0 37.58457162 15.03382865 15.03382865 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2013 1 3 3 0 76 0 0 0 0 0 0 4.425757837 0 0 0
88.94562295 205.1725368 456.16565 187.1917752 249.1217874 75.56047091 124.3894937 51.40116356
75.5440157 74.09573077 100.4381028 93.18352467 50.38625622 26.15307704 7.215334982 0 0 0
0 0 0 0 0 0 0 0 3.607667491 0 41.79852393 97.71057554 320.6281337
310.9393335 98.0245662 172.7178039 172.5179332 221.9431541 135.1493992 87.53152669 25.81521638
25.52404132 0 0 0 0 0 0

```
2014   1      3      3      0      29     0      0      0      0      0      0      0      0      16.35419278  24.53128917
       32.70838556  32.70838556  81.12221216  64.53629253  67.94948497  23.72846763  18.36361682  89.33336974
       41.50393104  31.05631365  23.11094411  0      7.582787288  0      0      0      0      0      0      0
       0      0      0      0      0      0      16.35419278  24.53128917  8.177096389  16.35419278  8.177096389
       48.05189449  33.5585615   53.46530768  216.9405539  88.4541831   47.8355944   30.33114915  0      0      0
       0      0      0      0

## 2015 California non-trawl fleet (n=46)
1978   1      4      3      0      1      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      40500  0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
1979   1      4      3      0      2      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      217.0182297
       217.0182297  217.0182297  217.0182297  651.0546892  434.0364595  217.0182297  0      0      0      0      0
       0
1979   1      4      0      0      17     0      0      0      0      0      0      0      0      0      0      933.8360188
       2667.44101   1111.198605  7323.958053  14819.60822  4135.543126  18712.51854  4207.08909   9285.710718
       3055.544744  3444.771248  0      901.2639423  0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0
1980   1      4      3      0      8      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      1636.475543  0      3272.951086  3443.144543  170.1934565  510.5803694  170.1934565
       680.7738259  510.5803694  0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      170.1934565  1806.669     16115.68385  1976.862456  3613.337999
       0      0      0      0      0      0      0
1980   1      4      0      0      10     0      0      0      0      0      0      0      0      253.4267527  506.8535054
       506.8535054  506.8535054  0      0      2989.524824  2568.660832  889.2830867  1359.606282  2045.544839
       924.0004898  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0
1981   1      4      3      0      2      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      5944.618595  0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       11889.23719  5944.618595  5944.618595  0      0      0      0      0      0      0      0
1981   1      4      0      0      25     0      0      0      0      0      0      0      0      0      0      0
       1052.051508  4352.659824  1595.09406   10481.88884  15336.88419  14826.00081  7493.312517  3099.761076
       1967.200071  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0
1982   1      4      3      0      10     0      0      0      0      0      0      0      0      0      0      0      0
       0      0      1814.329536  317.627417   7850.804408  1270.509668  317.627417   2032.335687  1309.598746  0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	1747.915359	2071.424765	674.3439121	674.3439121	1031.060407	635.2548341	2383.170193							
	317.627417	0	0	0	0	0	0	0								
1982	1	4	0	0	10	0	0	0	0	0	0	0	0	0	0	0
	12.12868343	93.59033633	438.4811463	588.2953151	142.0556331	0	45.47346842	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	4	3	0	3	0	0	0	0	0	0	0	0	1057.075385	0	
	2652.735731	1057.075385	1057.075385	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1057.075385	0
	0	0	0	2652.735731	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	4	0	0	8	0	0	0	0	0	0	0	0	0	0	
	2747.660539	2608.595036	11116.83494	9362.749809	6893.220275	3417.242609	3012.918823	1212.971359								
	1212.971359	1212.971359	808.6475726	808.6475726	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0									
1984	1	4	3	0	1	0	0	0	0	0	0	0	0	0	0	1316.923538
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0					
1984	1	4	0	0	13	0	0	0	0	0	0	0	0	0	0	2260.057165
	1015.693655	2425.514212	5607.735583	4197.915026	17916.0236	20467.27818	20644.10642	6422.715723								
	2862.952599	0	5725.905198	0	0	4125.597933	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0										
1985	1	4	3	0	14	0	0	0	0	0	0	0	0	0	0	0
	99.54489434	0	6748.951675	887.0084044	2715.215995	2710.340774	1761.904595	1828.20759	651.4296623							
	1803.54981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	99.54489434	0	0	99.54489434	0	2715.215995	1686.436186	1828.20759	3341.987876	3626.88218						
	1823.33237	0	0	0	0	0	0	0	0							
1985	1	4	0	0	23	0	0	0	0	0	0	0	0	0	0	664.4409582
	717.0379365	2528.614407	1757.459758	8850.091649	28491.45337	34274.48978	14970.17629	8608.997041								
	45.82707026	0	441.9363013	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0											
1986	1	4	3	0	12	0	0	0	0	0	0	0	0	0	0	521.4773869
	0	0	907.4630864	0	0	2191.162242	228.5277919	0	0	341.8473581	0	167.6519104				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	274.1951956	0	1065.292801	228.5277919	720.2087987	0	341.8473581	418.083188	0	0					
	0	0	0	0	0											
1986	1	4	0	0	30	0	0	0	0	0	0	0	0	0	0	973.8085077
	3988.506177	3223.049974	3589.828099	5131.495272	6918.887987	3397.37809	203.667166	1074.317201	0							
	363.481455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													

```
1987  1      4      3      0      28     0      0      0      0      0      0      0      0      0      0      178.1759747
      1150.287834  2361.95874   2033.415552  275.739684   1557.491749  1643.656556  1488.322918  184.5627091
      403.7685983  252.1406795  0      0      0      54.06420947  0      0      0      0      0      0
      244.9154291  0      0      0      0      0      0      3450.863501  2595.111252  2375.406957  4475.598867
      2239.983982  4789.349823  418.2774189  399.8514492  250.6661538  142.5377349  0      0      0      0      0
      0      0
1987  1      4      0      0      4      0      0      0      0      0      0      0      0      0      0      0      0
      0      274.5006757  0      107.635304   229.2322481  166.8653717  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
1988  1      4      3      0      14     0      0      0      0      0      0      0      0      0      0      0
      812.6906715  558.6714817  337.5482579  3513.549706  1908.864513  675.0965158  1012.644774  1908.864513
      337.5482579  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      1117.342963  1676.014445  952.5299217  1117.342963  2793.357409  5714.866696
      3363.755735  896.2197396  0      0      0      0      0      0      0      0      0
1988  1      4      0      0      13     0      0      0      0      0      0      0      128.9005478  0      786.1015171
      325.6287107  0      762.0575692  784.1551305  1949.394479  1421.69184   1737.203383  1420.347397  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
1989  1      4      3      0      48     0      0      0      0      0      0      0      0      0      0      454.5765312
      2793.64556   9926.837326  6415.373106  4537.423879  6718.354292  6226.597983  11038.82921  2143.372486
      1208.289928  2755.769529  0      96.39546524  0      0      0      0      0      0      0      0      0      0
      0      0      0      169.4023465  169.4023465  1076.345791  4422.154772  3925.565198  8557.658478  6906.427953
      4661.733204  4697.549683  10169.512    5433.035626  387.1189643  0      0      0      0      0      0      0
      0
1989  1      4      0      0      24     0      0      0      0      0      0      0      0      490.4601271  394.0208595
      5648.084886  2534.108881  5051.04927   14455.68959  12322.0599   3091.742474  3085.770668  0      0
      531.6866318  1802.148308  733.6927027  301.1597272  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
1990  1      4      3      0      3      0      0      0      0      0      0      0      0      0      0      0      0
      0      7259.844797  1734.437183  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      13843.22946  0      0      0      0      0      0      0      0      0      0      0
1990  1      4      0      0      27     0      0      0      0      0      0      604.284201   0      3732.254949
      1357.32268   6690.856991  6910.665858  26243.6226   15833.78861  53875.35165  15691.49741  17539.96812  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1991  1      4      3      0      4      0      0      0      0      0      0      0      0      0      0      0      0
      0      2656.38364   0      1274.26773   0      0      0      0      0      0      1130.822108  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
```

1991	1	4	0	0	42	0	0	0	0	0	0	0	1268.722499	2509.84144		
	2538.31719	7916.956575	12491.8739	10111.26002	13027.90414	14266.61811	5211.521365	10272.93647								
	7667.00247	15266.43203	7113.888659	2727.619025	634.3612497	1274.26773	1130.822108	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0				
1992	1	4	3	0	3	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	77.87606765	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	138.0179813	0	0	0
	0	15.61376604	0	0	0	0	0	0	0	0	0	0				
1992	1	4	0	0	399	0	0	0	0	545.3129888	1369.000559	4273.549287	5936.847665			
	7420.39758	6884.120503	9133.291856	8130.70864	8281.405017	7938.677336	5596.655941	5245.004802								
	5978.04379	4548.310617	8412.205296	5849.174791	3883.186761	1667.79345	991.5914209	283.2146574	0							
	17.71857725	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1993	1	4	3	0	1	0	0	0	0	0	0	0	0	0	0	0
	71.49826975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	35.74913488	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0				
1993	1	4	0	0	348	0	0	0	113.1642798	396.1771756	804.8501538	2540.043876				
	4046.180788	5260.119636	5256.695528	7167.966293	8088.64834	7678.418771	8328.608205	6778.723711								
	7528.102219	6465.904083	5477.189681	2478.709513	2247.698942	1528.94185	850.6413651	219.8766372	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1994	1	4	0	0	432	0	0	14.91170442	82.10476718	279.0387422	268.7118281	1426.430973				
	3222.630625	4044.683502	5182.494189	5603.570857	6574.640133	8295.729013	8453.189284	7884.456926								
	8908.298939	5399.505809	4473.428923	2733.203064	2971.467579	2866.958878	539.5030243	477.0706439								
	14.33817733	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1995	1	4	0	0	266	0	0	0	0	121.0065901	231.5749678	1599.995627	2151.687767			
	4483.485306	6281.028553	7799.318515	10667.8806	10658.33553	8386.004123	7625.711516	8136.651655								
	5914.42826	3615.895807	4124.916499	2814.834246	945.4153466	890.4166446	365.9100077	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0				
1996	1	4	0	0	298	0	0	0	38.32840643	112.5866345	641.7657308	1893.509033				
	4289.529371	4591.138176	5543.86711	6440.194003	7145.479401	9185.843322	7311.735281	9097.366185								
	9560.175653	8075.019187	7951.738069	6627.466682	2370.666118	988.8586803	1125.551007	447.300521								
	90.2922514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1997	1	4	3	0	9	0	0	0	0	0	0	0	0	0		
	112.8029314	225.6058628	451.2117257	611.6866713	320.9498912	208.1469598	303.4909882	47.6720142								
	143.0160426	47.6720142	47.6720142	47.6720142	0	0	0	0	0	0	0	0	0			
	0	0	0	0	112.8029314	0	0	225.6058628	451.2117257	338.4087942	498.8837399					
	95.3440284	0	0	0	0	0	0	0	0	0	0					
1997	1	4	0	0	225	0	0	0	43.0799641	64.8332133	261.8728649	697.7876507				
	3986.595684	7311.811829	12385.8167	13186.69969	12979.03834	11154.9858	11077.86485	7324.607243								

	4769.457393	2505.822152	1844.635053	2430.268051	1653.029407	923.516243	367.6299115	0	34.80519872							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1998	1	4	3	0	4	0	0	0	0	0	0	0	0	0	0	0
	353.2827908	341.0122602	1376.319572	682.0245205	353.2827908	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	353.2827908	694.2950511	341.0122602	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
1998	1	4	0	0	95	0	0	0	0	0	65.50517993	163.7629498	655.0517993			
	491.2888495	1283.070115	5991.048532	11723.49225	13475.91689	10313.94977	2503.265654	4326.663857								
	3058.590587	2238.315241	2551.319745	1932.078525	744.5899946	971.2245488	139.5260333	192.2577031	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1999	1	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0
	65.04237687	0	195.1271306	325.2118844	894.1158741	195.1271306	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	130.0847537	195.1271306	414.5367486	325.2118844	65.04237687	0	0	0	0	0	0	0				
	0	0	0	0	0											
1999	1	4	0	0	169	0	0	0	0	0	190.6980754	1604.656588	1135.022831			
	2280.402411	3294.276866	5050.569969	6055.62874	5906.159134	3937.09846	2566.939097	1120.063085								
	374.3772503	455.6968989	153.4332993	115.0749745	46.02998979	38.35832482	38.35832482	38.35832482	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2000	1	4	3	0	7	0	0	0	0	0	0	0	0	0	0	31.18075442
	0	31.18075442	31.18075442	31.18075442	31.18075442	155.9037721	93.54226326	31.18075442	31.18075442							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	62.36150884	31.18075442	62.36150884	62.36150884	62.36150884	0	0	0	0				
	0	0	0	0	0	0	0									
2000	1	4	0	0	31	0	0	0	0	74.43147829	0	0	37.21573915	193.1195112		
	342.9882986	436.5305619	249.4460354	249.4460354	799.2454602	580.9801793	580.9801793	881.6414762								
	368.7498831	212.5382036	37.21573915	31.18075442	0	0	0	0	37.21573915	0	37.21573915					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0					
2001	1	4	3	0	1	0	0	0	0	0	0	0	0	0	0	0
	0	0	12.23528773	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	12.23528773	0	0	
	0	0	0	0	0	0	0	0	0	0	0					
2001	1	4	0	0	61	0	0	0	12.23528773	12.23528773	0	12.23528773	61.17643865			
	174.475203	156.3669772	401.5621433	212.5405426	211.3985824	195.343166	278.4479592	528.6595933								
	532.710833	421.4172963	366.6643837	203.2145344	58.36232247	73.77878501	81.24231052	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0				
2002	1	4	3	0	6	0	0	0	0	0	0	0	0	5.656933333	16.9708	
	5.656933333	5.656933333	5.656933333	22.62773333	0	0	5.656933333	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

```
      5.656933333  22.62773333  5.656933333  22.62773333  0      0      0      0      0      0      0      0      0
      0      0      0      0      0
2003  1      4      3      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      6.979333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
# 2015 OR non-trawl fleet (n=12)
1978  1      5      3      0      7      0      0      0      0      0      0      0      0      0      0      0      0
      1327.655597  663.8277987  2655.311195  2655.311195  663.8277987  5974.450188  3982.966792  3982.966792
      2655.311195  663.8277987  1327.655597  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      1327.655597  1991.483396  2655.311195  5310.62239
      7302.105786  5310.62239   9957.41698   5310.62239   0      663.8277987  0      0      0      0
1988  1      5      3      0      21     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      1673.124026  3374.802639  6519.145634  8220.824246  15226.23242  10815.90698  7981.144581
      498.814028   3706.274878  2367.954561  1919.586765  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      293.5774996  1085.969027  2762.424524  4678.679819  5022.70355
      12542.92884  19182.42164  9774.615767  1919.586765  0      0      0      0      0
1990  1      5      3      0      7      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      296.7722039  1187.088816  890.3166117  2374.177631  2967.722039  2670.949835
      2670.949835  890.3166117  296.7722039  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      593.5444078  890.3166117  2374.177631  1780.633223  5045.127466
      3264.494243  1483.86102   0      0      0      0      0      0
1996  1      5      3      0      6      0      0      0      0      0      0      0      0      0      0      0      0
      0      1003.141776  0      1504.712664  2006.283552  2507.854439  1003.141776  1504.712664  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      1003.141776  501.5708879  1003.141776  2006.283552  501.5708879  501.5708879  1504.712664  1003.141776
      501.5708879  0      0      501.5708879  0      0      0      0
1997  1      5      3      0      92     0      0      0      0      0      0      0      0      188.5436113  0
      591.4414586  475.3902143  863.3939951  3780.490397  3937.478675  8468.560999  5616.813712  4213.614462
      9787.418368  4950.297336  3225.967288  4122.782592  2309.485831  1387.538068  388.7136795  0      0      0
      0      0      0      0      0      0      197.1471529  197.1471529  162.1918171  311.7010446  833.2318317
      1608.882033  4505.118761  7652.711501  9378.208532  8418.243206  9084.332137  8128.406316  6692.182206
      6386.901203  4830.180104  5527.761871  1516.896055  1054.287628  0      964.578951   0      0
1997  1      5      0      0      7      0      0      0      0      0      0      0      0      0      0      0
      159.6650674  79.8325337   79.8325337   79.8325337   239.4976011  478.9952022  0      638.6602696  558.8277359
      718.4928033  558.8277359  79.8325337   0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
1998  1      5      3      0      54     0      0      0      0      0      0      0      0      0      0      0
      1797.911155  3080.475807  4720.143546  6326.219594  8541.04966   7612.436751  2371.610407  6065.894291
      635.6461335  803.6694837  526.4728942  2196.331372  0      0      0      0      0      0      0      0      0
      380.1526437  0      0      0      309.6572354  619.3144709  2629.827755  2314.380992  3927.836772  4486.554901
      11946.57188  9795.958229  13293.43646  11066.94729  10336.86897  14395.88159  8352.039771  4188.901151
      2266.82678   0      0      0      0      0
```

```
1999   1      5      3      0      28     0      0      0      0      0      0      0      214.7074299  0      270.2315735
       1691.577722  1462.749286  1695.543861  1713.631005  5426.044672  3709.93513   3221.029988  3132.034984
       1159.046852  1173.167858  888.8152784  1575.156993  0      1123.688851  0      1123.688851  2247.377702  0
       0      0      0      0      0      0      0      214.7074299  0      0      880.8830019  1562.442291  922.2861395
       3712.014128  3260.545986  5872.475823  3843.77169   4579.592412  2924.635401  926.2522777  1342.362419
       488.9051416  0      1123.688851  1123.688851  0      1123.688851  0
2000   1      5      3      0      72     0      0      0      0      0      0      0      81.46216266  123.1223926
       620.9187016  492.8838178  293.1915831  773.7289885  841.7312365  689.5689232  654.6440985  633.1394265
       466.3917769  682.4810852  124.9086494  175.2529354  137.8837846  0      40.73108133  86.39604748  0      0
       0      0      0      0      0      0      0      0      0      41.66022993  204.9372384  255.1684756  757.4036127
       651.7499228  637.5183823  895.697264   1105.702612  788.0514352  425.119462   287.1592314  174.0891902  0
       0      43.44648675  0      0      0      0      0
2000   1      5      0      0      1      0      0      0      0      0      0      0      0      0      0      41.89482651
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0
2001   1      5      3      0      55     0      0      0      0      0      0      0      36.21261959  219.9897075
       262.5947368  470.7488363  548.4653143  860.6830797  376.7381517  606.6322598  399.1179899  236.7116219
       316.3265787  89.9657268   76.13426401  129.2054075  38.91130701  0      0      0      0      0      0      0
       0      0      0      0      0      0      0      81.47839408  156.2965163  345.3529393  388.9080217  336.7598835
       217.2757176  360.2422011  270.9075178  217.1544106  393.7813497  80.81020572  0      0      0      78.11151829
       41.8988987   0      0      0      0
2002   1      5      3      0      2      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      91.3296701   0      0      91.3296701   0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      91.3296701   0      0
       0      91.3296701   182.6593402  0      0      0      0      0      0      0      0      0      0
```

```
# 2015 WA non-trawl fleet (n=8)
1980   1      6      3      0      6      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      500    500    500    0      267.5622756  802.6868269  802.6868269  0      0      267.5622756  0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       267.5622756  0      500    0      1837.811378  1070.249103  0      1070.249103  0      0      0      0      0
       0
2000   1      6      0      0      2      0      0      0      0      0      0      0      0      0      0      0      0
       0      66.20999667  0      66.20999667  0      0      0      1527.557531  0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0
2002   1      6      3      0      2      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      171.7505274  0      0      343.5010547  343.5010547  0      0      171.7505274  171.7505274
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      171.7505274  0      0      0      0      0      0      0      0      0      0
2004   1      6      3      0      6      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      42.11192113  84.22384225  42.11192113  0      84.22384225  126.3357634  0      42.11192113
       42.11192113  84.22384225  42.11192113  0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0      0      0      42.11192113  0      42.11192113  42.11192113  42.11192113  42.11192113  84.22384225  0
      0      42.11192113  0      0      0      0      0      0
2006  1      6      3      0      6      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      25.3160915   75.94827451  42.19348584  8.438697168  25.3160915
      8.438697168  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      16.87739434  16.87739434  42.19348584  33.75478867  0      0      0
      0      0      0      0
2007  1      6      3      0      3      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      31.44366364  15.72183182  0      15.72183182  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      31.44366364  0      0      0      0      0      0      0      0      0
2010  1      6      3      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      500    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      500    0      0
      0      0      0      500    0      0      0      0      0      0
2013  1      6      3      0      2      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      123.4194083  370.258225   0      123.4194083  0      123.4194083  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      493.6776333  0      0      0      0      0      0      0      0
```

```
## 2015 California recreational fleet (n=30)
1980  1      7      0      0      170    0      0      0      3      10     18     26     48     52     102    102    94
      86     72     59     28     15     5      3      7      11     2      3      1      0      0      1      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1981  1      7      0      0      113    6      2      1      2      8      8      11     18     34     55     55     74
      54     49     23     14     11     4      8      3      4      4      3      2      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1982  1      7      0      0      143    0      0      0      1      1      11     22     46     69     77     92     78
      62     55     37     35     22     10     6      6      5      4      1      2      3      0      2      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      7      0      0      113    0      0      1      5      4      15     17     28     49     53     58     52
      42     37     30     21     9      5      2      3      3      3      1      2      1      2      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1984  1      7      0      0      131    0      0      0      1      17     42     37     46     48     44     53     64
      43     48     36     20     18     8      13     4      6      2      2      1      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1985  1      7      0      0      264    0      0      0      3      16     42     63     102    127    138    106    119
      116    98     71     38     28     14     7      9      8      7      4      1      0      1      0      1      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
```

1986	1	7	0	0	329	0	1	0	2	5	18	59	95	163	206	245	189
	130	98	49	28	21	17	14	13	10	11	9	1	1	0	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1987	1	7	0	0	142	0	0	0	2	3	12	16	21	28	49	46	51
	59	58	43	28	18	28	58	45	15	7	10	15	3	2	0	1	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1988	1	7	0	0	101	0	0	0	1	2	12	22	40	36	49	42	27
	26	26	24	16	9	10	18	13	4	11	5	0	1	0	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	7	0	0	134	0	0	1	2	10	13	15	36	54	116	92	63
	51	41	35	13	7	8	5	3	1	6	2	1	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1993	1	7	0	0	134	0	0	1	5	9	15	44	67	78	127	77	52
	41	18	13	7	13	4	0	1	2	1	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1994	1	7	0	0	113	0	0	0	0	7	16	31	45	76	92	70	50
	28	14	6	2	0	0	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1996	1	7	0	0	235	0	1	4	3	28	41	52	95	126	178	166	113
	83	34	18	25	18	17	6	0	2	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1997	1	7	0	0	415	0	0	1	5	22	31	72	102	134	132	194	214
	218	185	135	99	68	57	34	23	17	9	5	3	2	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1998	1	7	0	0	168	0	0	0	0	6	13	31	43	40	67	83	86
	74	85	67	62	21	16	14	7	11	10	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1999	1	7	0	0	227	0	0	1	1	3	18	27	46	82	106	109	113
	139	121	108	50	30	12	10	6	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2000	1	7	0	0	99	0	0	0	1	0	4	7	11	23	52	53	50
	44	45	34	29	19	11	5	5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2001	1	7	0	0	44	0	0	0	1	3	1	1	5	6	13	22	27
	34	26	18	11	6	0	2	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2002	1	7	0	0	37	1	0	0	0	2	6	4	4	9	3	6	17
	13	23	11	5	4	4	3	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	7	0	0	17	0	0	0	1	0	0	1	1	9	3	1	5
	9	10	3	4	1	0	0	0	0	0	0	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	7	0	0	47	0	0	1	4	0	8	5	11	41	38	39	28
	14	6	10	2	1	0	1	1	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	7	0	0	102	0	0	0	1	1	8	30	43	51	68	68	53
	39	9	5	3	6	6	3	1	1	2	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	7	0	0	138	0	0	0	0	7	14	28	55	89	107	86	88
	64	28	10	6	6	4	4	0	0	0	1	0	0	0	2	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	7	0	0	86	0	0	0	1	2	5	14	31	51	55	71	42
	27	17	17	3	2	4	2	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	7	0	0	43	0	0	0	0	0	2	4	9	17	25	33	19
	14	3	3	2	1	6	1	2	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	7	0	0	44	0	0	0	1	1	0	4	4	17	21	39	35
	27	12	4	1	3	1	1	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	7	0	0	30	0	0	0	0	4	5	3	7	23	12	9	12
	7	5	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	7	0	0	47	0	0	0	1	4	3	14	28	44	39	20	15
	14	9	7	3	1	2	1	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

```
2012   1      7      0      0      41     0      0      0      3      3      1      3      10     20     26     29     17
       8      5      2      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2013   1      7      0      0      42     0      0      0      0      2      2      6      14     35     30     20     11
       9      2      0      0      0      1      1      0      1      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0

## 2015 OR recreational fleet (n=14)
2001   1      8      0      0      1005   0      0      0      0      0      0      11     20     64     133    150    152
       134    89     43     42     45     46     28     21     14     10     3      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2002   1      8      0      0      1540   0      0      0      0      0      3      23     47     92     164    210    241
       178    102    63     85     54     64     64     72     54     11     7      3      0      1      1      1      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2003   1      8      0      0      1883   0      0      1      4      1      4      16     53     151    262    282    291
       255    149    111    65     54     48     46     46     23     7      6      6      1      0      1      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2004   1      8      0      0      139    0      1      1      1      1      6      8      12     10     12     19     22
       22     7      4      2      2      3      2      2      1      0      0      1      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2005   1      8      0      0      207    1      0      2      0      5      4      15     9      25     19     22     25
       22     22     9      0      7      3      5      4      4      3      0      0      0      1      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2006   1      8      0      0      217    0      0      0      0      1      10     12     13     22     29     29     33
       27     17     11     6      2      2      1      1      1      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2007   1      8      0      0      139    0      0      0      1      2      1      10     8      15     25     17     26
       12     9      4      4      0      0      2      0      0      2      1      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2008   1      8      0      0      206    0      0      0      1      4      5      3      14     19     29     37     37
       23     8      8      6      4      3      3      0      0      1      1      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
2009   1      8      0      0      219    0      0      0      1      2      4      7      6      19     31     38     37
       20     13     11     5      3      2      3      7      8      2      0      0      0      0      0      0      0
```

```
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2010  1     8     0     0     194   0     0     1     0     2     8     5     12    17    20    21    30
      17    20    13    3     6     2     3     2     7     3     1     1     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2011  1     8     0     0     137   0     0     0     0     0     2     8     11    11    22    24    21
      14    6     6     6     4     0     0     0     1     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2012  1     8     0     0     214   0     0     0     0     0     4     8     8     14    24    42    40
      29    16    11    6     6     1     1     3     0     1     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2013  1     8     0     0     20    0     0     0     0     0     0     1     0     3     4     4     2
      1     1     0     0     1     0     1     1     1     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2014  1     8     0     0     19    0     0     0     0     0     0     0     1     1     0     6     3
      3     1     3     0     0     1     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0

# 2015 WA recreational fleet (n=39)
1979  1     9     0     0     40    0     0     0     0     0     0     0     0     1     0     3     5
      4     3     2     3     1     6     2     1     0     3     2     1     1     1     1     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     9     0     0     21    0     0     0     0     0     1     0     0     5     2     5     3
      11    18    8     10    11    3     9     3     2     2     0     3     2     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1981  1     9     3     0     4     0     0     0     0     0     0     0     3     0     2     4     0
      0     3     0     2     0     2     3     1     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1981  1     9     0     0     43    0     0     0     0     0     0     0     4     1     2     6     4
      1     9     2     6     1     3     3     1     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1982  1     9     0     0     6     0     0     0     0     0     0     0     1     0     0     1     3
      1     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
```

1983	1	9	0	0	3	0	0	0	0	0	0	0	0	0	0	1	1
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1984	1	9	0	0	10	0	0	0	0	0	0	0	0	2	3	5	8
	10	4	1	1	1	1	0	0	2	1	1	2	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1985	1	9	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0
	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1986	1	9	0	0	2	0	0	0	0	0	0	0	0	0	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1987	1	9	0	0	4	0	0	0	0	0	1	0	2	0	3	0	0
	1	1	0	2	3	1	2	2	1	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1988	1	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	9	0	0	38	0	0	0	0	0	0	0	0	0	2	3	9
	9	5	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1996	1	9	0	0	15	0	0	0	0	0	0	0	0	0	0	2	3
	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1997	1	9	0	0	14	0	0	0	0	0	0	0	0	0	1	1	3
	1	4	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1998	1	9	0	0	4	0	0	0	0	0	0	0	0	0	0	1	2
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2002	1	9	3	0	142	0	0	0	0	0	0	0	0	0	0	4	12
	17	37	12	5	6	1	2	0	0	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	0	4	15	12	4	3	4	2
	0	0	0	0	0	0	0	0	0	0							

2002	1	9	0	0	55	0	0	0	0	0	0	0	0	0	2	7	8
	18	8	8	1	1	1	0	0	0	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	9	3	0	197	0	0	0	0	0	0	0	0	1	5	9	12
	20	23	19	12	9	6	4	1	1	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	2	9	7	12	13	10	6	5	8
	0	0	0	1	0	0	0	0	0	0							
2003	1	9	0	0	32	0	0	0	0	0	0	0	0	0	1	2	4
	3	3	5	2	3	2	2	2	0	3	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	9	3	0	40	0	0	0	0	0	0	0	0	0	1	3	4
	7	5	1	3	2	2	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	0	1	2	1	1	3	0	1	1	1
	0	0	0	0	0	0	0	0	0	0							
2004	1	9	0	0	4	0	0	0	0	0	0	0	0	0	0	0	2
	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	9	3	0	41	0	0	0	0	0	0	0	0	2	4	9	4
	2	2	4	1	3	2	1	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	2
	0	0	0	0	0	0	0	0	0	0							
2005	1	9	0	0	10	0	0	0	0	0	0	0	0	2	1	4	0
	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	9	3	0	4	0	0	0	0	0	0	0	0	0	1	1	1
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	9	0	0	11	0	0	0	0	0	0	0	0	0	2	4	4
	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	9	3	0	7	0	0	0	0	0	0	0	0	1	0	1	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	9	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0
	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2008	1	9	3	0	10	0	0	0	0	0	0	0	0	0	2	2	2
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	9	0	0	3	0	0	0	0	0	0	0	0	1	0	1	0
	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	9	3	0	8	0	0	0	0	0	0	0	0	0	1	2	1
	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	9	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	9	3	0	11	0	0	0	0	0	0	0	0	4	0	0	0
	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	9	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	9	0	0	10	0	0	0	0	0	0	0	0	0	1	0	1
	1	3	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	9	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	1
	0	0	0	0	0	0	0	0	0	0							
2012	1	9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	9	0	0	6	0	0	0	0	0	0	0	0	0	1	1	1
	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

```
2014   1      9      3      0      8      0      0      0      0      0      0      0      0      0      0      0      1
       2      0      2      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      1      2      0      0      0      0
       0      0      0      0      0      0      0      0      0      0

# 2009 At-sea hake fishery (n=8)
#2003  1      10     3      0      96.55  0      0      0      0      0      0      0      0      0      0      0      0
       2      3      0      16.111111     29.51634      32.738562     20.26634      33.710784     20.873483     14.301587
       9.151261      5.722222      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      2.6    14.643791     24.322222     49.410458     52.599673     48.207143     28.317927
       13.857143     3      4.634921      0      0      0      0      0
#2004  1      10     3      0      118.47 0      0      0      0      0      0      0      0      0      0      0      0
       0      0      3.5    0      32.728571     136.17437     135.745798    150.712465    223.222549    133.012465    24.95
       112.702941    0      6.25   0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      3.5    9.571429      17.828571     133.931513    77.771429     144.62437     15.85  9.25   8.6    0
       0      3      0      0      0
#2005  1      10     3      0      202.4  0      0      0      0      0      0      0      0      0      0      0      0
       0      1.75   5      11.5   27.277778     55.72  55.8   51.67  63.882222     33.888889     22.97  27.498889
       10.826667     4.333333      0      2      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      1      14.5   48.586667     90.476667     55.525556     32.386667     18.36  9.493333      2
       2.333333      0      0      0      1
#2006  1      10     3      0      182.29 0      0      0      0      0      3      2      0      0      1      0      3
       4      8      9      21     33.095238     43.5   38.833333     40.095238     28.333333     27.3   15.428571     11
       4      0      0      0      0      0      0      0      0      0      0      2      0      3      1      3      11.8
       3      4      22.633333     53.8   48.345238     46.761905     20.8   5.833333      2      0      0      0      0
       0      0
#2007  1      10     3      0      260.72 0      0      0      0      0      0      0      0      2.2    0      6.6    0      0
       1.833333      9.666667      22.914787     34.407644     45.785965     68.555013     80.901116     99.077056
       45.254762     48.647619     52.935965     25.964286     20.364719     0      0      0      0      0      0      0
       0      0      0      0      2      2.2    6.2    6.619048      3.809524      9.359524      19.571679     62.355263
       87.979073     111.800684    34.281385     17.485965     16.45  0      2.25   0      0      0      0      0
#2008  1      10     3      0      243.67 0      0      0      0      0      0      0      0      0      0      8.5    0
       5.9    5.9    6.4    12.333333     32.329469     44.932925     58.090574     41.54071      81.634804     85.330859
       74.025614     28.506803     19.666667     13.5   2      0      0      0      0      0      0      0      0      0
       0      0      3.833333      0      4      7.9    10.073913     17.356463     37.847732     70.180519     65.647066
       59.151545     20.059215     15.186667     0      0      0      0      0      2
#2009  1      10     3      0      152.47 0      0      0      0      0      0      0      0      0      0      0      0
       0      0      2      10.166667     70.238095     57.071429     129.984524    153.859524    130.417857    140.442857
       45.475 36.1   11.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      5      12.8   13.666667     112.517857    83.046429     59.371429     0      8.341667      9
       0      0      0      0      0
#2010  1      10     3      0      141.52 0      0      0      0      0      0      0      0      0      0      0      0
       0      2      2      6.538462      29.975962     19.475962     39.975962     30.038462     35.705128     28.916667
       31.75  27.9375       6.666667      6.4375 0      0      0      0      0      0      0      0      0      0      0
```

```
      0      0      0      0      0      6.538462      33.975962     51.951923     58.951923     60.291667     33.663462
      25.375 6.833333      4      1      0      0      2      2

# 2015 ASHOP -- CA (n=3)
2008  1      10     3      0      2      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      2.642867742  0
      2.447096115  0      0      0      0      0      0      0      0      0      0      0
2010  1      10     3      0      3      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      1.876530142  4.350953504
      3.124805412  0      0      0      0      0      0      0      0      0      0      0
2014  1      10     3      0      11     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      1.853987903  5.884530084  3.834707844  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      1.820118421
      1.690528052  1.690528052  0      3.677582135  3.441490542  0      0      0      0      0      0      0      0
      0      0
# 2015 ASHOP -- OR (n=13)
2003  1      11     3      0      43     0      0      0      0      0      0      0      0      0      0      0      0
      0      3.050178632  0      8.484571894  12.67441683  10.59380132  6.010533307  10.01299748  3.559715716
      3.506806189  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      5.404300765  11.50867521  23.29710019  18.81846745  8.503376694  3.081459096
      0      0      0      0      0      0      0      0
2004  1      11     3      0      92     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      14.22549225  0      32.54403648  224.4665081  220.5882798  217.7883462  390.4597761  204.8224326
      7.137854296  192.1571078  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      5.936022347  11.74513892  213.8059147  52.81940493  204.8981849  1.011990078
      0      0      0      0      0      0      0      0
2005  1      11     3      0      94     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      5.757845661  16.79850853  38.2733484   19.33452229  17.57555558  19.83645637  9.200633277
      4.10502353   1.815244231  0      2.676732381  0      1.010643233  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1.312140737  5.552618503  33.76395088  50.21027508  22.85469393
      3.799658015  4.253140865  1.281254467  0      1.449219009  0      0      0      0
2006  1      11     3      0      83     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      3.127741267  12.17815923  23.6606138   27.49777489  14.3759856   16.65157443  8.054270751
      8.127478311  2.131053537  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      5.663438163  0      0      15.21592433  36.29084161  28.40431502  15.22340988
      13.87982264  0      1.922126451  0      0      0      0      0      0
2007  1      11     3      0      233    0      0      0      0      0      0      0      0      0      0      0      0
      0      3.418531638  10.14560289  17.25946271  38.25151262  57.58319595  63.41430638  77.36442547  33.45347187
      33.58615122  31.71138827  9.552314086  18.81276119  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      2.033214052  7.608708132  8.04510816   47.32068318  65.75026651
      91.73102853  30.06993746  10.83600511  2.201666796  0      1.956733912  0      0      0      0      0
2008  1      11     3      0      95     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      9.164181767  25.2657469   22.03361216  21.44899616  22.52676153  17.02820105  18.93977972
```

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      13.2362751   5.815634937  3.242509415  0      0      1.278753501  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      14.55650224  28.53343653  28.82415564  6.473594713
      3.616727075  4.741764449  0      0      0      0      0      0      0.816563469
2009  1      11     3      0      4      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      1.089580606  2.753547002  1.807636943  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      1.811407102  0      0      0      0      0      0      0      0      0
2010  1      11     3      0      5      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      5.323315818  0      0.80266549   0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      2.36424816   0      0      0      0      0.78485709   0      0      0      0
2011  1      11     3      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      2.025533303  0      0
      0      0      0      0      0      0      0      0      0      0      0
2012  1      11     3      0      30     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0.980843047  10.06046217  6.176894706  5.658266211  4.15559813   0      1.988798074  1.597112457
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      3.720439145  8.592514293  9.594242522  5.650613548  2.029923672  1.951100307  0      0
      0      0      0      0      0      0
2013  1      11     3      0      20     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      3.825733436  0      0      3.796635483  5.564103631  0      1.996937161  0      0      3.034973169
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      1.927936679  0      1.785086068  4.016655907  4.267915926  2.114944395  7.401076404  1.956919131  0      0
      0      0      0      0      0      0
2014  1      11     3      0      67     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      6.391908631  5.19860231   6.105173111  26.10030579  6.807502628  9.673365393  3.302526437  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      2.959914776  20.95731948  32.36635736  41.0559511   11.10704119  3.476001837  3.098837437  0
      0      0      0      0      0      0      0
2014  1      11     0      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      2.100885427  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
# 2015 ASHOP -- WA (n=15)
2003  1      12     3      0      86     0      0      0      0      0      0      0      0      0      0      0      0
      2.683530501  0      0      7.976763751  18.97314393  25.01987457  17.85264617  27.2550814   20.31640629
      12.40549807  10.75789981  7.612053154  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      3.713242847  13.26634561  14.84544616  30.89774635  37.64201081
      43.49939891  27.0114883   13.38940003  3.145698313  4.284692398  0      0      0      0      0
2004  1      12     3      0      59     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      4.541528763  3.529577453  8.385331665  27.70017193  19.03383399  25.93287404
      27.08372705  18.74058429  0      7.768673524  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      3.343317396  4.11238419   6.625491553  12.35107378  37.96648124  43.52897088
      23.32551622  12.44310261  14.19905552  0      0      3.087263915  0      0      0
```

2005	1	12	3	0	114	0	0	0	0	0	0	0	0	0	0	0	0
	0	2.326343992	5.367144806	6.388288649	9.323638927	18.31969116	37.38248005	37.47556392	46.59389446								
	21.31862219	18.80164269	22.13234367	10.10914428	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	8.596315917	18.2594051	40.02883508	32.86288407					
	27.51854954	14.51064349	7.53159479	2.079798648	0	0	0	0	0								
2006	1	12	3	0	94	0	0	0	0	0	3.183110119	2.021840505	0	0			
	1.240899302	0	2.476401398	4.89256431	7.620394955	5.521752529	10.65907049	11.13149072	15.03919834								
	22.36981251	22.16060031	19.86292412	21.78268456	13.81175396	11.32897132	4.102191363	0	0	0							
	0	0	0	0	0	0	0	1.925229645	0	2.462146939	1.240899302	3.183110119					
	6.297425012	2.904701667	3.894970295	7.862186918	17.38759126	20.95937029	30.29377396	5.010768433									
	5.295592453	0	0	0	0	0	0	0									
2007	1	12	3	0	93	0	0	0	0	0	0	0	2.193984845	0	6.410867775		
	0	0	1.784499824	5.691413802	14.58694324	20.42097684	8.577878342	13.71792781	19.11793417								
	22.05383188	9.477906175	12.13864277	18.63206314	14.22801122	0	0	0	0	0	0	0					
	0	0	0	0	0	1.898017288	2.193984845	5.571520413	7.655922607	2.313878234	2.313878234						
	12.56510677	18.16140277	22.35220465	17.01922118	4.016330339	7.502449635	12.82367528	0	0	0							
	0	0	0	0													
2008	1	12	3	0	210	0	0	0	0	0	0	0	0	0	3.154264991		
	11.61297478	0	3.154264991	3.154264991	6.342316088	11.20730307	17.55399724	29.8181659	49.76529602								
	48.96516689	73.08862304	94.49834201	75.86050666	30.16009533	12.09940883	11.13916078	1.410128234	0								
	0	0	0	0	0	0	0	0	0	0	7.863103096	3.154264991	6.809424333				
	4.958382211	7.826754496	9.398181294	22.05322335	47.32655922	78.03433631	77.19497283	22.7191616									
	23.88731435	0	0	0	0	0	0										
2008	1	12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1.972860312	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0						
2009	1	12	3	0	157	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1.95532344	9.992400836	73.65017586	59.50120179	131.5951712	152.7011907	136.2943532								
	142.5503187	40.63304324	31.42454033	9.837108897	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	4.900896519	12.10449372	13.65763635	120.0028908					
	82.37041612	61.76697395	0	8.031711575	7.795819361	0	0	0	0	0							
2009	1	12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	1.85963759	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0						
2010	1	12	3	0	164	0	0	0	0	0	0	0	0	0	0	0	0
	0	2.003548487	2.003548487	6.592909473	29.49202407	18.62813397	32.73812639	28.56405793	33.86886351								
	28.4342029	29.45839383	24.93454188	6.401509447	5.868134833	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	4.43753726	30.01267519	47.61759814	54.71491416					
	56.3811229	32.17395755	23.76397292	6.357909208	3.549463663	0	0	0	2.106729854	0							
2011	1	12	3	0	118	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	4.774471357	6.120387203	12.9476458	26.62762243	22.73845887	47.24569614	38.2658395								
	40.6307116	45.557981	16.03161974	3.622738966	0	0	0	0	0	0	0	0	0				

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      0      0      0      0      0      0      0      4.900033167  7.956867039  8.21963983   30.68742854  42.52472609
      35.8590627   45.45241682  32.43779673  3.72915277   0.986331751  0      0      0      0      0
2011  1      12     0      0      1      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      1.799514355  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
2012  1      12     3      0      62     0      0      0      0      0      0      0      0      0      0      0      0
      1.91457809   0      1.91457809   1.788228547  14.747959    5.939531344  17.89202337  6.536507038  11.12140347
      9.083743473  4.117938722  2.559526449  5.892460875  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      4.756090009  4.600977368  10.14906691  20.44736993
      10.25448651  6.067995975  1.911110649  0      1.915517386  0      0      0      0      1.128170852
2013  1      12     3      0      89     0      0      0      0      0      0      0      0      0      0      0      0
      0      4.230160177  4.435787424  5.476637133  4.817184101  12.61139918  13.42885098  29.56727342  10.15929265
      28.89550643  15.96497209  10.40551171  5.141951212  4.818509766  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      4.556180105  4.109900105  13.44791634  15.44206267
      25.03614382  11.71792876  0.951130354  0      0      1.709726626  0      0      1.226302555  0      0
2014  1      12     3      0      62     0      0      0      0      0      0      0      0      0      0      0      0
      0      1.93239021   0      3.945998862  9.415403527  14.47838288  11.7390588   8.33408767   14.83250781
      1.858077641  2.853243433  0.593025771  0      0      1.758462711  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      2.257679836  1.923622103  8.962695091  13.33213308  15.03292249
      12.53897411  5.320025776  2.891730423  0      0      0      0      0      0      0

## 2015 NWFSC survey (n=12)  -- CA
#year  Season Fleet  gender partition    nSamps F.999  F14    F16    F18    F20    F22    F24    F26    F28    F30    F32
      F34    F36    F38    F40    F42    F44    F46    F48    F50    F52    F54    F56    F58    F60    F62    F64    F66
      M.999  M14    M16    M18    M20    M22    M24    M26    M28    M30    M32    M34    M36    M38    M40    M42    M44
      M46    M48    M50    M52    M54    M56    M58    M60    M62    M64    M66
2003  1      16     3      0      27.8   0      3.58905309   4.785376482  6.041312913  0      1.196323393  0.91218726
      0      0.962348439  0      0.962348439  0.962348439  3.849310843  4.811659282  8.282066674  1.924696877
      0.583444987  0.844034385  0      0      0      0      0      0      0      0      0      0.89469303
      14.35604654  18.2888488   2.736478868  0      0.940211191  0.91218726   0      0.91218726   0      0
      0.990206548  5.599231249  0.962348439  6.274292935  3.168362474  1.767746279  0.674730042  0      1.815917593
      0      0      0      0      0      0      0      0
2004  1      16     3      0      32.528 0      0.708896324  0.708896324  1.417792649  2.835702267  2.757332407  0
      0      1.27660993   1.703023848  2.388526185  4.667217595  6.108930596  4.389940351  5.815803926  5.248148804
      4.680435198  0      0.567655121  0      0.794401351  0      0.567655121  0      0      0      0      0      0
      1.417792649  0      0      4.71599406   0.548179626  0.708896324  0      2.126747458  0.691058408  3.042505122
      6.046117738  11.00371321  2.396480141  5.556949447  7.366649881  3.994991347  2.611587861  0      1.135368727
      0      0      0      0      0      0      0      0
2005  1      16     3      0      70.51  0      0      0      0.144962296  0.289906086  1.182257933  0.144962296
      0.144962296  0.144962296  0.289924593  0.422524472  0.991732356  1.833357577  3.272949958  3.175938295
      3.519754143  2.295985879  6.558706491  7.15126972   5.273477766  3.395648799  3.053813158  0      0      0
      0      0      0      0      0      0.289906086  0.144962296  0.602427253  0.579830679  0.336061578  0.289924593
      0.144962296  0.286482363  0.966026671  1.445107351  3.175956801  3.038008511  3.360042077  2.721175303
```

5.912548113 11.47824529 14.74986277 4.629854793 1.106232768 0.970190659 0.485095329 0 0 0
0 0
2006 1 16 3 0 37.736 0 0.605879875 0.605879875 0.605879875 0.564305219 0 0 0
0.56016952 0.29896749 0 1.094218837 3.646217087 1.61226953 5.27301598 7.792418393 3.303280589
6.35558956 4.866465904 2.612292385 2.658818997 0 0 0 0 0 0 0 0
0 0 0.53829385 0.56016952 0 0 0 0.278669916 1.744176555 2.799976927 2.440497633
8.41565732 7.44752288 12.38070414 7.447903799 8.623421768 3.161088734 0.547109419 0.673139398
0.485999027 0 0 0 0 0 0
2007 1 16 3 0 38.462 0 0 0 0 0 0 0 0.367875192 0.367875192
1.471572337 1.471572337 2.20732272 1.852258747 0.923230746 0 2.401924402 1.006968873 8.360357369
2.475714154 8.129433379 7.122464506 5.496584987 0.618946431 0.618946431 0 0 0 0 0
0 0 0 0 0 0.367875192 0.367875192 0.367875192 0.367875192 2.575233697 1.839447529
0.735750383 1.471572337 0.713491787 5.797147607 10.12322387 16.50954436 8.458517062 5.023500354 0
0 0 0.388022442 0 0 0 0
2008 1 16 3 0 26.766 0 0 0 0 0 0 0.825577504 0 0 0.825577504
3.484817527 1.865149752 1.865149752 0 6.301987249 0.932574876 0.932574876 1.964151932 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 2.476633807
1.651155009 1.651056303 1.75815238 3.730200798 7.353700342 13.98812961 11.18714768 17.83115144
6.52782672 5.857020321 4.988209561 0.914412961 1.0876421 0 0 0 0 0 0 0
0
2009 1 16 3 0 38.978 0.597461771 0.516454448 0.516454448 1.549363345 2.060050282 0.516454448
0 1.629846348 1.073150398 2.783479749 1.67008785 11.09354642 6.775056561 6.172548218 4.452060181
0.55669595 0.514291632 0.688824398 0 0 1.245520348 0 0 0 0 0 0 0
0 0 0.516454448 4.131766667 3.597813064 1.027141385 0 1.583771795 2.065883334 3.856630148
7.668693161 8.822326562 7.285940117 6.156687561 2.940054582 1.580101561 0.518486185 2.584893838 0
1.252008798 0 0 0 0 0 0 0 0
2010 1 16 3 0 19.28 0 1.660160603 23.24139937 0 0 0 0 0 0 0
0 1.778394775 0 3.55678955 1.778394775 3.007223535 1.778394775 0 0 0 0 0
0 0 0 0 0 0 1.660160603 3.320321206 31.54199011 1.660160603 0 0 0
0 0 1.778394775 0 0 6.944612491 0 1.288051981 4.882200981 3.387610672 1.778394775
3.233290667 0 1.724053755 0 0 0 0 0 0 0
2011 1 16 3 0 15.486 4.561158849 4.560896713 0 4.8489837 7.273475551 0 2.003764267
4.007528533 2.003764267 0 0 0 0 2.234181429 0 0 1.960774034 0 0 0
0 0 0 0 0 0 0 0 0 0 2.42449185 2.305482303 9.277239817 0
16.029852 22.04088266 8.015057067 0 0 0 0 2.130900016 2.321734708 0 1.999832233
0 0 0 0 0 0 0 0 0 0 0
2012 1 16 3 0 20.416 0 0 7.134127588 4.076759959 0 3.567266135 0 0 0
0 0 0 5.711672629 2.946484938 2.946484938 2.367790602 2.946484938 0 2.784207715
2.745762986 0 0 0 0 0 0 0 0 3.721854412 7.798614371 0 0
0 0 0 0 0 5.892969876 6.643653787 0 6.88362983 3.125758778 17.32481344
8.435178141 0 2.946484938 0 0 0 0 0 0 0 0 0
2013 1 16 3 0 32.596 0 0 0.65871763 0.65871763 0.65871763 1.317435261 4.611023413
2.634870522 2.634870522 5.233590803 3.348054515 0.65871763 0 0 0.776989167 0 7.742357237
3.534409004 3.885066336 3.108077169 2.331027751 2.331027751 2.331027751 0.776989167 0.776989167 0
0 0 0 0.65871763 1.317435261 5.164965597 2.856471496 0.65871763 1.317435261 4.048766674

```
      5.269741044  7.213117717  5.259377975  3.498921518  1.965789823  2.331027751  2.428271898  0.681793534
      3.108077169  0      1.435706797  0.776989167  0      0      0      0      0      0      0
2014  1      16     3      0      54.466 0.264929297  0.945090496  0.313591237  2.693388398  1.554791774  1.157005393
      3.245687139  3.474155658  7.383057939  8.099929647  7.513917172  5.041077241  4.480965476  1.203954889
      0.294040839  0      0.33100108   0      0.291222442  0.526041273  0      0      0      0      0      0
      0      0.313591237  0.612091564  0.627182474  2.637341545  4.177078086  1.439094802  3.649253018  6.774284234
      7.55683529   6.341499787  3.957956655  3.709866387  4.315607639  2.618718721  0.300248447  0.300248447
      0.90206535   0.622187847  0.33100108   0      0      0      0      0      0      0      0      0
## 2015 NWFSC survey (n=12)  -- OR
2003  1      17     3      0      31.386 0      0      0      0      0      2.057959679  1.027482713  1.027482713
      3.088436646  1.027482713  0      0      0      1.022945965  1.022945965  1.022945965  2.016947476  6.952475749
      4.950318071  6.026253254  5.326505225  0      1.022945965  0.987922269  0      0      0      0      1.027482713
      0      0      0      0      3.091430899  2.057959679  1.027482713  2.060953933  0      0      0      0
      3.097782347  3.035356693  8.978768926  17.10308671  14.70886326  5.229781755  0      0      0      0      0
      0      0      0      0
2004  1      17     3      0      32.562 0      0      0      2.23697334   0      0.745638717  2.23697334   0.745638717
      2.23697334   5.219642588  2.23697334   2.23697334   2.982669247  4.474003871  1.084029903  1.15574573
      1.119716248  4.31673232   3.792703515  4.287165269  6.199587319  0      0.616676046  0      0      0      0
      0      0      0      0.689421286  0      0      0      5.965281304  4.473946681  0.745638717  4.473946681
      3.728307964  0.745638717  3.599345293  0.745638717  1.119716248  1.233352092  2.27020053   5.520917688
      10.53141771  3.700056275  0.616676046  1.266178953  0.649502908  0      0      0      0      0
2005  1      17     3      0      31.108 0      1.378932619  1.792678393  0      0      0      0      0      0      0
      0      0      0      0      0      0      4.406249519  3.152034525  10.75541048  5.570500652  6.129200421
      4.890162705  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      3.498912295  0      0      11.87149025  17.68900659  11.69794139  8.010522912  7.688280722
      1.468676519  0      0      0      0      0      0      0
2006  1      17     3      0      34.77  0      0      0      0      0      0.181684162  0      0      0      0      0
      0      0      1.408778398  1.606645195  6.572135577  10.79847077  10.56583798  9.157059586  6.096555796
      3.202175942  1.63106734   0.926678141  0      0      0.232603149  0      0      0      0      0      0      0
      0.384885893  0.181684162  0.181684162  0      0      0      0      0      0.704389199  4.448624135  11.71658338
      14.73962407  10.5204614   1.504244089  1.829349076  1.408778398  0      0      0      0      0      0      0
2007  1      17     3      0      35.352 0      0      0      4.141436246  3.106077185  6.212154369  3.106077185
      3.106077185  2.070718123  2.070718123  0      0      3.106077185  1.851376326  0      0.816017264  2.838920393
      2.673591829  1.778641877  0      1.68465632   1.889830712  1.81456637   0      0      0      0      0      0
      0      0      0      0      6.212154369  1.035359062  4.144092635  1.035359062  4.141436246  1.851376326
      1.035359062  1.13478389   4.878394327  2.057183191  0.868006583  0.816017264  7.220570061  9.798784892
      9.656351868  0.868006583  0      0.979827891  0      0      0      0      0
2008  1      17     3      0      78.272 10.49682346  5.761419057  3.378318458  9.109217133  6.790266923  0
      0.205764966  0.187268463  0.201618801  0.403237602  0.403237602  2.129769904  1.31219219   1.483843431
      0.481484954  2.252565497  5.653733933  2.343919338  4.58480647   1.361900105  3.63667062   2.137808858
      0.292995676  0      0      0.416159817  0      0      2.432186588  4.878700481  0.205764966  3.658437988
      6.760207225  0.617294899  0      0.384718064  0.403237602  1.770090071  1.030275989  0.403237602  0.817577714
      0.787610153  0.494614477  1.464955345  3.573026984  3.024742702  1.222059165  0      0.472662835  0.375527398
      0      0.198048492  0      0      0      0
```

```
2009  1     17    3     0     10.76 0     0     5.372358083  5.719080816  0     0     0     0     0     0
      0     0     0     0     0     0     0     8.656387936  4.36415723   0     5.036086213  10.07217243  0
      0     0     0     0     0     0     0     5.719080816  0     0     0     0     0     0     0
      0     0     4.830757503  5.896745478  9.081184759  5.036086213  5.036086213  10.07217243  10.07155767
      5.036086213  0     0     0     0     0     0     0
2010  1     17    3     0     43.288 34.40648311  2.33263285   0     0.494221014  2.692541756  3.866405808
      1.657031061  0     0     0.605295938  0.605295938  1.815887815  4.315875929  4.315875929  0.543548027
      1.148784535  1.422519743  0.543548027  0.997059397  2.033877555  0     2.470391906  0.498499983  1.49555938
      0     0     0     0     0     0.494221014  1.471668465  1.0465647    3.866405808  5.45420076   1.587854382
      0     0     0     0     1.236859997  1.815887815  2.962889446  1.236859997  1.044425215  2.648444594
      0.980359529  2.991237621  1.315188917  0.543548027  1.04204801   0     0     0     0     0     0
2011  1     17    3     0     41.358 0     0     0     0.930443274  2.79953704   2.961346918  9.906769642
      8.990844027  3.553616301  5.760883958  2.637690686  2.369077534  1.846514795  0.782421523  1.149484824  0
      0.351962018  0.39259687   0.390991903  0.351962018  0.351962018  0     0.316360926  0     0.328799423  0
      0     0     0     0     0.33817389   0.33817389   1.184538767  0.592269384  12.02171521  9.906769642
      8.722230875  7.537692108  2.045421302  1.022728889  1.022728889  1.217148783  0     0.703924035  1.632288147
      3.058593341  1.449212454  1.0331247    0     0     0     0     0     0     0     0
2012  1     17    3     0     47.084 4.710673957  1.046827748  1.046827748  0     0     0     0.776491432  0
      2.270214131  5.770993066  4.994501634  1.684587266  1.824744682  0.458349879  2.751830243  0.916699759
      1.992292106  2.322397695  4.933459592  2.273726976  4.526325972  1.387268229  0.922809054  0     0     0
      0     0     0.523413874  0.523413874  2.61701846   0     0     0     0.454022462  0.908044924  1.362118296
      7.909653705  7.13743878   5.46736109   2.722912912  2.289254768  2.730905907  1.847501807  3.198114264
      7.438881592  2.827483683  1.763244443  0.877905734  0.790288257  0     0     0     0     0     0
2013  1     17    3     0     25.732 23.64867042  1.4332414    1.4332414    0     0     0     0.979570185
      1.95914037   1.95914037   3.91828074   1.95914037   0     0.979570185  0     0.919105665  1.937412104
      2.036612878  1.946852661  1.915608912  1.018306439  2.9651591    0     0.92022954   0     0     0     0
      0     0.716658163  2.149899563  0.716658163  0     0     0     1.95914037   0     3.91828074   3.91828074
      1.95914037   4.837386404  2.955793468  0     0.689385442  6.010712785  5.841307232  2.85876552   3.723625444
      4.797376424  1.018306439  0     0     0     0     0     0     0
2014  1     17    3     0     97.38 0     0.12106517   0.847456188  0.726391018  1.796505684  0.929600276
      0.566404766  0.566416087  0.750176124  0     0.406429835  0.406429835  0.07844217   0.557936771  0.806180369
      2.93682094   3.91282538   3.498391703  5.133314895  5.4538308    3.468493339  3.96410883   2.049153093
      1.680512255  0     0     0     0     0     0.484260679  2.765581763  1.675440514  1.050665445  1.394400413
      0.730715583  0.203209257  0.750164803  0.406441156  0.425890376  0.664941445  0.297489296  1.630870328
      3.406998482  5.543073061  7.663456942  9.599967577  11.11542184  6.632455813  2.590221797  0.311447904  0
      0     0     0     0     0
## 2015 NWFSC survey (n=12)  -- WA
2003  1     18    3     0     49.188 0     0     0     0     0     0     0     0     0     0     0.367885043
      0.371376571  2.210635524  1.05532796   5.480478483  7.070619741  4.759117874  3.721302971  4.404810992
      4.197702464  2.594925204  1.588589467  17.27491288  0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     1.107091236  1.81099421   2.50641776   5.57380756   7.893290061
      8.272647265  5.789118406  6.407451252  5.126892075  0.414605003  0     0     0     0     0     0     0
2004  1     18    3     0     38.426 0     0     0     0     0     0     0     0     0     0.779549961
      0.145628662  0.134779282  0     1.070824925  2.539407504  6.557400185  5.929000603  1.944649818  3.425299024
      2.242946007  6.704281377  8.012504836  6.373048942  5.673837313  3.118217484  0.779549961  0.779549961  0
```

0 0 0 0 0 0 0 0 0 0 0 0.980289941 0.499159658 0.136596333
1.178542503 2.219677175 3.647543709 5.462918321 5.08010282 14.0333988 5.094409888 2.338667523
2.338667523 0 0.779549961 0 0 0
2005 1 18 3 0 24.522 0 0 0 0 0 0 0 0 0 0 0 0 0
5.318739849 1.77296355 4.216236106 3.545776299 5.671462631 7.137848406 4.223474538 5.344375964
6.07485444 1.859070736 0 0 1.428082404 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 3.456200698 4.590824985 9.778066645 11.04660193 10.44867725
9.82164804 2.837013121 1.428082404 0 0 0 0 0 0 0
2006 1 18 3 0 42.36 0 0 0 0 0 0 0 0 0 0.123377309
0.123377309 0.123377309 0 0.123377309 0.370129438 2.28877487 2.221839215 3.449331329 8.230303447
8.381900338 6.514789239 3.742133138 5.565620844 3.220406809 2.446147568 0 0 0 0 0
0 0 0 0 0 0 0 0 0.123377309 0 0 1.795268123 1.144388679
2.967876385 4.415456358 8.456070061 14.81603731 11.90059361 4.763144509 1.918645432 0 0.774256753
0 0 0 0
2007 1 18 3 0 67.06 0 0 0 0 0 0.519506866 1.217393147 6.509467205
3.295420611 1.696213005 0.657199273 0.876265697 0.657199273 0.295141668 0.543540587 1.787957478
0.809576851 3.700209037 4.387005743 5.154684437 4.816887644 1.998810804 2.162656442 1.087081175
1.572183863 0 0 0 0 0 0 0 0 0.519506866 2.297093888 7.151035096
2.059822393 1.996653446 0.501301795 0 1.234576312 0.501301795 0.597966558 3.666523978 7.457909763
12.84142551 4.73403754 7.543901282 1.785535182 0.762607012 0.324474163 0 0 0.27992662 0
0
2008 1 18 3 0 41.224 0 0 0 0 0 0 0 0 0 3.454228424 2.590692061
3.454228424 2.895906427 3.663692517 7.179445055 4.003340473 2.894164004 1.634060546 2.275272077
1.075738549 3.354827361 4.583442753 5.344756988 1.529764105 1.570669551 0.811429629 0 0 0
0 0 0 0 0 0 0 0 0.863577849 3.0224395 1.663847676 4.065694312
7.948973568 6.528069392 5.232702618 4.953500133 2.614007336 3.109062796 1.243218553 2.330075418
2.865994838 1.243177067 0 0 0 0 0 0
2009 1 18 3 0 25.766 0 0 0 0 0 0 0 0.797492679 0 1.594985358
1.763270268 5.856790368 3.003182735 1.595088727 2.834897825 2.729047857 2.051463345 1.945613377
2.037405146 3.845124131 6.007709268 3.973405196 1.945613377 0.965777589 0 0 0 0 0
0 0 0 0 0 0.797492679 0 0 0.797492679 5.856790368 6.126273637 1.931555178
5.084209645 6.006262101 5.146437849 10.72930008 5.720446513 4.791468327 4.065403703 0 0 0
0 0 0 0 0
2010 1 18 3 0 56.742 0 0 0 0 0 0 0 0 0 0.13003377 0
0.13003377 0.632741821 1.022843131 1.538021113 0.349895644 1.255192088 1.406203474 3.839709751
9.358812245 12.84999856 14.36978647 6.113885638 1.709015263 1.301075261 0 0 0 0 0
0 0 0 0 0 0 0 0.13003377 0.26006754 0.362640017 1.152876901 1.655602104
1.624264325 2.628874255 3.666794511 5.402807947 11.51940369 10.25728196 4.031029718 1.301075261 0
0 0 0 0 0
2011 1 18 3 0 67.23 0 0 0 0 0 0 0 0 0 0 0 0
0 0.772677922 0.787850328 1.19717902 1.883580873 1.52599607 1.926406214 5.562155341 8.231900719
8.595766572 5.468646548 2.952909255 0.805551469 0 0 0 0 0 0 0 0 0
0 0 0 0.170730361 0 0.199171826 0.566436516 1.006164402 2.452165453 2.860569661
5.362276557 9.416218541 15.66164881 10.76933619 8.199679748 2.416654408 1.208327204 0 0 0
0 0

```
2012   1      18     3      0      104.938       0.183460199   0.094317874   2.396030851   3.006166583   0.538197971
       0.384987553   0.384987553   0.179962568   0.089981284   0.089981284   0.907351654   2.119103552   1.176113874
       2.022481496   4.654177052   4.287256653   3.663272192   1.326594722   2.736470874   2.526742993   2.523658933
       4.972130616   2.479418628   0.925631503   0.462821659   0      0      0      0.115055517   0.116130802   0.713174052
       2.261785628   1.20966041    0.454266643   0.384987553   0.089981284   0.367487582   0.269104894   1.36446603
       1.737932671   2.166451551   2.159976207   4.0492405     4.112753225   4.064223595   8.608048025   8.0329595
       7.86787368    4.535198516   1.187942012   0      0      0      0      0      0
2013   1      18     3      0      50.328 0      0      0.774876796   2.235466539   5.732645723   20.36587386   5.979012486
       2.41371204    1.062856095   0.486876947   1.460610293   1.062856095   0.486876947   0.179560662   0      0.957602066
       0.259127941   0.518255882   0.94545737    0.777383823   1.295639705   0.707598059   0.489630567   0      0      0
       0      0      0      0.266998361   2.691848176   1.748610141   4.470912529   19.92028066   11.0760858    1.549733043
       0.973733345   0.486876947   2.036589441   1.520861135   0.678664503   0.486876947   0      0.60676215    1.042964276
       0.259127941   1.213770893   0.518255882   0.259127941   0      0      0      0      0      0      0
2014   1      18     3      0      125.6  0      0.270021825   0      0.271697993   0.410078886   0.136687081   0.662068673
       1.196095764   0.395363896   0.132434907   0      0.139104291   0.556399521   1.80828521    2.77204646    2.248429254
       3.589928172   4.071976414   6.2196768     4.363770778   7.430505197   6.687768738   3.835425014   1.181945378   0
       0      0      0      0      0.135010913   0      0      0      0.260511778   0.132434907   0.666444354   0.655434577
       0      0      0.556399521   1.146251824   1.942431573   3.480095065   4.608456002   7.796827279   8.724877331
       10.94899333   7.288207365   2.981849748   0.144044575   0.152019606   0      0      0      0      0

## 2015 Triennial survey (n=9)  -- CA
#year  Season Fleet  gender partition     nSamps F.999  F14    F16    F18    F20    F22    F24    F26    F28    F30    F32
       F34    F36    F38    F40    F42    F44    F46    F48    F50    F52    F54    F56    F58    F60    F62    F64    F66
       M.999  M14    M16    M18    M20    M22    M24    M26    M28    M30    M32    M34    M36    M38    M40    M42    M44
       M46    M48    M50    M52    M54    M56    M58    M60    M62    M64    M66
1980   1      19     3      0      7.06   0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      3.076923077   3.076923077   1.538461538   8.461538462   6.153846154   4.615384615   3.076923077
       0.769230769   0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      2.307692308   10     21.53846154   15.38461538   16.92307692   2.307692308   0.769230769
       0      0      0      0      0      0      0
1983   1      19     3      0      28.24  0      0      0      0      0      0      0      0      0      0      1.797464871
       2.705457147   9.06140308    15.81585536   19.51081908   3.594929741   0      0      0      0      0      0      0
       1.29527601    0      0      0      0      0      0      0      0      0      0      0      0      1.815984552
       2.705457147   6.787704603   7.245418528   10.43454485   14.06651396   3.163171071   0      0      0      0      0
       0      0      0      0      0      0      0
1986   1      19     3      0      16.558 0      0      0      0      0      0      0      0.449309566   0      0.405720386
       0.405720386   2.028601929   1.648637981   5.007335865   4.797313662   5.246623228   0.449309566   0      4.089844713
       5.738482694   4.089844713   0      1.199328415   3.597985246   0      0      0      0      0      0      0      0
       0      0.898619131   0      0      0.449309566   0.898619131   0.811440772   3.297275962   8.025244006   4.065127554
       4.797313662   6.445951643   1.199328415   4.089844713   12.26953414   2.804377217   9.594627324   1.199328415   0
       0      0      0      0      0
1989   1      19     3      0      61.852 0      0      0      0      0.749079382   0      0.749079382   4.972568726
       4.635371635   8.35988308    7.436757478   5.009759213   4.741744224   4.165019367   4.528143348   2.279908335
       0.668978621   0.167244655   0.33448931    0      0      0      0      0.379487971   0      0      0      0      0
       0      0      0.434301245   1.183380627   0.629556274   1.617681873   5.308719097   7.315249967   9.074882943
```

```
      6.353188785  4.659015103  4.947521489  4.229489626  2.941337217  1.530698063  0.167244655  0.167244655  0
      0.262973653  0      0      0      0      0      0      0      0
1992  1      19     3      0      18.696 0      0      4.519763262  0      1.506587754  4.519763262  0      1.506587754
      1.458569496  1.42524346   4.309056417  8.618112834  8.684764906  8.684764906  1.458569496  2.883812957  0
      0      0      0      0      0      0      0      0      0      0      0      1.506587754  10.54611428
      1.506587754  7.53293877   7.53293877   1.506587754  0      0      1.42524346   5.734299878  1.42524346
      5.800951949  0      1.418656182  1.418656182  1.458569496  0      0      0      1.611027809  0      0      0
      0      0      0      0
1995  1      22     3      0      47.396 0      0      0      0      0.3768589    0.373914427  0.768616029  0.383818729
      0.383818729  3.900403112  1.560804441  4.685314648  5.066729921  1.50556201   2.36456003   2.02424414
      0.392074176  2.10352514   1.205812947  0.410997109  2.054985546  4.109971091  1.643988436  4.5209682
      2.876979764  0.410997109  0      0      0      0      0      0      0      0      0.768126744  0.757733156
      0.758222442  3.83485429   2.925594014  4.478143008  5.194786966  6.972241975  2.864398107  3.250131006
      0.410997109  2.465982655  2.054985546  6.164956637  10.27492773  3.698973982  0      0      0      0      0
      0
1998  1      22     3      0      48.944 0      0      0.614517218  0      0      0      0.407436787  0      0
      2.10162657   1.050813285  4.629628518  8.034803091  9.836206984  8.817268053  6.986421695  3.311689722
      1.649722937  2.937356518  1.750902103  0.583634034  0.583634034  0      0      0      0      0      0      0
      0      0      0      0      0      0.407436787  0      0      0.412831298  3.043743949  5.837700458  6.545548155
      7.373412868  5.211917215  2.168541832  7.496575118  3.995618752  1.750902103  2.047278617  0.412831298  0
      0      0      0      0      0      0
2001  1      22     3      0      21.486 0      0      0      0      1.80931988   0      0      0      0      0
      1.695027713  0      15.48495391  3.390055426  6.620501316  1.695027713  9.383615611  5.185351907  1.997177574
      1.535077041  1.94097119   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      1.695027713  0      0      1.695027713  8.806405349  3.390055426  14.62994806  5.585472469  5.108531554
      0      5.119070139  1.535077041  0      1.698305252  0      0      0      0      0      0      0
2004  1      22     3      0      31.698 0      0      0.855368006  0      0      0      0      0      0      0      0
      0      2.006168053  6.018504159  15.55274878  7.620016212  2.787679432  5.038034676  1.337445369  5.858433513
      3.817483411  0.797955078  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0.668722684  3.343613422  4.440700104  8.137460907  6.805356949  14.20185888
      8.225870242  0      2.486580129  0      0      0      0      0      0      0      0
## 2015 Triennial survey (n=9)  -- OR
1980  1      20     3      0      42.36  0      0      0      0      0      0      0      0      0      0      0.555808284
      0      0.19297298   0.38594596   1.690535508  1.145770423  1.0793247    2.384716116  3.982590829  4.713997206
      5.446566596  6.497616691  5.07555172   1.19443304   0      0      0      0      0      0      0      0      0
      0      0      0      0.555808284  0      0      0      1.304589548  0.38594596   1.134727224  4.829631073
      4.781464689  8.012717907  15.45163558  18.19046018  7.940584421  2.046677509  0.634066572  0.385860996  0
      0      0      0
1983  1      20     3      0      120.02 0      0      0.197450796  0.197450796  0.296176194  0.296176194  0.414820236
      1.133368216  3.264934421  2.572001598  3.050281235  2.171827856  1.28932654   1.294051601  1.464596769
      2.24610452   2.45814909   3.951734339  3.857355525  2.99888536   5.052653446  3.536363815  1.50731259
      1.49090218   0.599504983  0.100014332  0      0      0      0      0      0.49362699   0.789803184  0.303727743
      0.098725398  1.338370561  1.961829859  2.841350916  1.810589071  1.058579234  1.207462718  1.329035059
      1.961276447  2.145585031  4.682251869  6.248947978  10.26066708  9.49705909   5.019998409  1.212205604
      0.100014332  0.197450796  0      0      0      0
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1986   1      20     3      0      65.372 0      0      0      0      0      0      0      0      0      0      0.133571366  0
       0      0.400714098  0.133571366  1.022782986  2.200654897  4.320790518  2.772023793  3.676178475  6.452130527
       6.139857703  6.172810471  5.933540041  1.447722394  1.460933825  0.447235213  0      0      0      0      0
       0      0      0      0      0.167008152  0      0      0.121576787  0      0.428222304  0.655862252  2.674065791
       3.592344949  6.461214483  9.225997003  8.928224054  12.03876053  8.923311729  3.585721752  0.188521606
       0.294650938  0      0      0      0
1989   1      20     3      0      70.954 0.244569501  0.978278003  3.179403511  0.978278003  0.244569501  0.244569501
       0.489139002  0.489139002  0      1.428430216  2.124805555  2.574214036  3.064016174  3.427127466  2.202418256
       4.209799994  4.293216304  2.92204536   4.367109565  2.681807964  1.54620056   2.370977019  0.426791042
       0.688129878  0.254627968  0      0      0      0.978278003  0      2.93483401   2.445695009  0.244569501
       0.733708503  0.244569501  0.489139002  0.476143405  1.172518744  1.778965911  3.077092365  5.148428072
       3.940229791  8.971558907  4.764105861  6.195228821  3.079495445  2.237105305  3.278542411  2.173106747
       0.207021304  0      0      0      0      0      0
1992   1      20     3      0      30.008 0      0      0      0      0      0      1.332857572  0      2.665715145
       2.665715145  4.070169598  5.438825611  6.771683184  5.403027171  4.105968039  6.79918353   3.842188262
       1.936071345  5.13950603   1.349114016  4.062096169  0      0      0      0      0      0      0      0      0
       0      0      0      0      1.332857572  0      0      1.332857572  2.665715145  1.368656013  8.054798583
       2.737312026  3.203434684  2.615972971  2.391167413  1.936071345  0      6.392741934  9.053436353  1.332857572
       0      0      0      0      0      0
1995   1      23     3      0      64.574 0      0      0      0      0      0.316475565  0.316475565  0.334424016
       2.33079652   2.340968115  4.337340619  3.334068569  1.003272049  0.985323598  1.565636728  2.059797591
       1.157541742  1.983152056  1.988124034  4.044153642  2.85577496   3.133472785  2.033857919  0.573330957
       0.854556523  0.292105392  0      0      0      0      0      0      0      1.003272049  1.672120082  1.988595647
       3.61366758   7.022904345  7.603365255  2.340968115  1.978424052  0.943004973  0.252805579  2.021720708
       3.212666863  5.752484027  7.769403116  10.65558193  3.755035771  0.573330957  0      0      0      0      0
       0
1998   1      23     3      0      36.556 0      0      8.865775144  0      0      1.778954259  0      0      1.778954259
       0      0      3.111227243  1.774635217  1.475436005  7.997281678  3.032154648  4.997770718  4.790307181
       2.891646859  1.513950626  3.482484872  0      0      0      0      0      0      0      0      1.773155029
       3.546310058  1.773155029  0      0      0      0      0      0      0      3.008304291  4.885477686  9.626500933
       4.408592316  6.258282801  7.820671616  6.164303005  1.47003331   1.774635217  0      0      0      0      0
       0      0      0
2001   1      23     3      0      57.116 0      0      0      0      0      0      0      0.535557915  1.071115831
       1.071115831  2.786138093  2.177993586  2.158725562  3.849585659  3.767565724  3.740945788  2.208200307
       10.57728711  7.025297209  6.597429543  0.57131984   0.53687874   1.113427686  0      0      0      0      0
       0      0      0      0      0      0      0      1.125290089  0.535557915  0.535557915  1.071115831  3.381517013
       2.268089327  2.227065972  3.744561946  9.217349889  5.967242333  7.19035726   5.555258021  5.118045047
       1.713959521  0.560447496  0      0      0      0      0      0
2004   1      23     3      0      40.558 0      0      0      0      0.824222309  0      0      0      0      0      0
       0      0      0      0.824222309  0      2.619086081  5.233960235  1.768969676  4.272146167  3.588611529
       10.33666801  1.725730243  0.862865121  0      0      0      0      0      0      0.824222309  0      0      0
       0      0      1.78000244   0      0      1.648444617  0      0      0      3.657211958  16.96184667  9.385519449
       11.24976193  11.23697583  3.451460485  6.88520752   0.862865121  0      0      0      0      0
## 2015 Triennial survey (n=9)  -- WA
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```
1980  1      21     3      0      24.078 0      2.108666897  2.033096845  0      0      0      0      0      0      0
      4.277587546  0.978763396  4.640121508  5.314439867  5.437617923  0      1.151280644  4.499443986  1.151280644
      0      2.188132965  0      0      0      0      0      0      0      0      1.054333449  1.054333449  0
      2.108666897  2.108666897  0      0      1.160030377  0      0      4.458854527  11.22902007  9.090226302
      4.640121508  3.117557169  4.26008808   12.26271319  3.110556964  0      6.564398896  0      0      0      0
      0      0      0
1983  1      21     3      0      169.44 0      0      0      0      0.136084767  0.163579946  0.214175827  1.502308201
      4.329961744  8.499761695  3.108441694  3.3781381    1.576668797  0.795636443  1.536970767  1.311014052
      1.690702275  3.259096908  2.022325627  2.618820263  2.624054267  2.457743788  1.352500094  0.391035541
      0.222909998  0      0      0      0      0      0      0      0.049708315  0.449872026  1.971644578
      4.905534475  7.130427952  5.423477159  2.869066031  1.709409118  1.465141005  0.964272102  2.650270169
      3.226670417  4.165356678  6.779279647  6.422058423  4.584785039  1.519293357  0.446481411  0.075321301  0
      0      0      0
1986  1      21     3      0      204.74 0      0.110306438  0.050734308  0.080520373  0.643985402  0.275766095
      0.271651375  0.501823775  0.617932132  1.186960374  2.08378111   2.050594996  1.744245921  3.506289951
      7.785066772  7.708551176  7.070227753  5.509250208  3.375150577  1.127161781  1.065594375  0.549831555
      0.830730845  0.420200204  0.048644209  0      0      0      0      0      0.261527888  0.280596009  0.807299159
      0.365091818  0.347682068  0.373327247  1.449065645  1.194345338  2.02185113   1.909670558  2.243497803
      4.146262403  9.107162943  8.128231298  5.997261082  4.67181019   2.26908001   1.441767681  1.349265162
      1.812082559  0.942286833  0      0.265833474  0      0      0
1989  1      21     3      0      152.572      0      0      0      0.116405536  0.465622144  0      0.349216608
      0.980840334  0.891710327  1.019371533  0      0.050160699  0.276312728  0.649467953  2.640116405  2.760688347
      1.832226207  3.376471049  1.700771881  6.721150699  5.731008592  3.09072921   3.532401576  0.939682567
      1.753941465  1.540466726  0      0      0      0      0      0.157656819  0.349216608  0.465622144  0.116405536
      0.58202768   0.58202768   0.372039398  0.049555648  0.235278182  0.522198393  1.924022056  3.3427435
      4.152239214  3.942694006  5.909618702  12.17574238  9.709166315  9.995788872  2.112429317  0.775926886
      0.614514905  1.494323172  0      0      0
1992  1      21     3      0      51.154 0      0      0      0      0.513720458  0      1.332127282  2.568602291
      1.599151504  2.588930275  2.075209817  1.919656209  6.312262435  5.404228803  8.485876589  9.639558371
      5.145877975  2.499275385  1.212001019  1.527833776  0.631779621  1.858594907  0.631779621  0.320504705
      0.920042827  0.631779621  0      0      0      0      0      0      0      0      0.304686366  0.571710587
      1.352455266  2.588930275  0.513720458  1.352455266  4.941844318  7.07267913   6.355135387  3.402827455
      3.085679559  3.26033134   2.823584842  2.993668439  0.620496557  0.310248279  0.630752984  0      0      0
      0      0
1995  1      24     3      0      15.176 0      0      0      0      0      0      0      0      0      2.271020712
      6.813062137  1.91067401   7.642696039  1.91067401   1.91067401   3.82134802   5.361536789  0      0
      1.715452125  1.734880285  1.715452125  1.715452125  0      2.238475179  0      0      0      0      0      0
      0      0      0      0      1.91067401   2.271020712  7.665861759  10.27406345  6.452715435  4.181694722
      1.91067401   1.715452125  0      3.430904249  9.132829211  6.861808498  1.715452125  1.715452125  0      0
      0      0      0      0      0
1998  1      24     3      0      77.81  0      0      0      0      0      0.709998211  0.718497851  0.72699749   0
      0.72699749   1.460533406  0.363498745  1.21916255   2.391954954  3.647246533  3.146433254  5.738258111
      4.015224645  3.308307394  7.366957937  2.847520413  2.427164515  1.709791375  0.807436292  0.403634727  0
      0      0      0      0      0      0      0      0.718497851  0.72699749   0      0      0.72699749   1.110251391
```

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      3.476832649  1.953452218  1.606648644  5.133237432  6.599472649  8.357789334  10.64505124  7.131440385
      4.633841168  0.826398966  1.281988785  1.335486422  0      0      0      0      0
2001  1      24     3      0      53.564 0      0      0.141846658  0      1.134097506  0      2.653558473  0      0
      2.774367634  1.005328652  8.126503616  14.98474293  10.32524178  5.002556723  2.776489232  1.146161488
      0.476593455  1.151540855  1.09291341   0.755040272  0.261542217  0.398418692  0      0      0      0      0
      0      0      0      0      0.884519491  0      0.884519491  1.026366149  0.884519491  2.774367634  3.135772028
      9.187468205  11.77870783  5.95294668   5.460203704  1.094091583  1.229467076  1.232975112  0.131163771
      0.135968165  0      0      0      0      0      0      0      0
2004  1      24     3      0      46.6   0      0      0      0      0      0      0      0      0      0      0      0
      0      0.476682266  0.491780901  2.390453509  1.933968098  2.488879921  5.608003046  5.5334459    3.854781517
      5.440763073  4.446532413  2.417692541  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0.482432097  1.477482687  3.140066521  2.343403843  5.883648038  10.97271713
      15.6389993   13.96285719  9.079019267  1.936390747  0      0      0      0      0      0

## 2015 NWFSC survey (n=12)  -- Coastwide
2003  1      28     3      0      108.374      0      1.052572454  1.403421833  1.771754108  0      0.902350854
      0.542869447  0.27534953   1.109884255  0.27534953   0.4436376    0.445169481  2.098798543  2.148280731
      5.107558714  3.940776022  2.799646257  3.743382213  3.25918624   3.456652996  2.565924985  0.696981538
      7.853370296  0.264747941  0      0      0      0      0.537738861  4.210241184  5.363625996  0.802535433  0
      1.104194412  0.819021391  0.27534953   0.819823805  0      0      0.776128723  2.436663408  2.212060475
      5.098975318  6.798487863  8.731356947  6.679560404  4.212721372  2.781944521  0.181904789  0      0      0
      0      0      0      0
2004  1      28     3      0      103.516      0      0.1328047    0.1328047    0.694176008  0.531240714  0.659410781
      0.428566608  0.142851884  0.667726825  1.803200987  0.966479879  1.386631834  1.715877048  2.344620363
      2.874381939  5.277258436  4.773715955  2.034790208  2.960336306  2.214390459  5.500433004  4.976379806
      4.18264136   3.523887973  1.936652125  0.484160292  0.484160292  0      0      0.265609401  0.132081566  0
      0.883494746  0.10269602   1.27565264   0.857133215  0.541276941  0.986596159  1.284264511  1.884367328
      3.061027271  0.676645481  1.987523524  2.99494814   3.448758707  4.939861526  5.172776494  9.637385427
      3.282163916  1.695070503  1.576925707  0      0.484160292  0      0      0
2005  1      28     3      0      126.14 0      0.096132201  0.124976461  0.120115414  0.240215493  0.979616109
      0.120115414  0.120115414  0.120115414  0.240230828  0.350102772  0.82174707   2.05996478   2.892246675
      3.06031318   3.277020831  2.786346375  6.38010203   7.104812161  5.301394155  3.858659749  3.060343849  0
      0      0.145218048  0      0      0      0      0      0.240215493  0.120115414  0.499169788  0.480446321
      0.278459824  0.240230828  0.120115414  0.237378604  0.8004474    1.197412512  2.875516697  2.868738833
      3.250952121  4.07668617   7.25561198   11.38886725  13.77889256  4.66076328   1.164228578  0.803897671
      0.401948835  0      0      0      0      0
2006  1      28     3      0      117.974      0      0.024526117  0.024526117  0.024526117  0.022843168  0.013503242
      0      0      0.022675754  0.120577562  0.109213251  0.153507409  0.147599465  0.279182279  0.660500172
      2.829913826  2.903053817  4.095894517  8.163013691  7.978492882  6.112496852  3.433751047  4.995545252
      2.850695161  2.165323032  0.017287674  0      0      0      0      0      0      0.021790223  0.05128148
      0.013503242  0.013503242  0      0.012018546  0.179817804  0.113343525  0.098791744  1.982185589  1.645120001
      3.999135969  5.305529461  8.616275446  13.35487581  10.69248149  4.348275173  1.718052927  0      0.685369927
      0      0      0      0
2007  1      28     3      0      140.874      0      0      0      0.525766915  0.394325186  1.009074217  0.910858259
      3.32134058   1.826196939  1.642949344  0.939218197  1.36233691   1.504377483  0.774566756  0.230621218
```

1.940086339 1.155787916 5.661131822 3.198169162 5.835209811 5.453876238 3.554611509 1.425721211
0.738996392 0.66706878 0 0 0 0 0 0 0 0 1.009074217 1.27117079
3.725333197 1.170497828 1.538020785 1.603380325 0.956898997 0.998057842 1.492397577 0.835060463
4.267367732 7.81077016 13.77392087 7.048392075 6.681045765 0.86778841 0.323569871 0.262064456
0.174126165 0 0.118771292 0 0
2008 1 28 3 0 146.262 5.86877602 3.221210505 1.888818501 5.092965054 3.796439545 0
0.222758624 0.104701834 1.185010973 1.137386449 1.752409913 2.333073661 2.114307357 3.058310937
2.334181208 2.279512169 3.789935926 2.273060064 2.897304501 1.802867697 3.456087755 2.85440637
0.638694063 0.48757828 0.251889688 0.232675034 0 0 1.35983599 2.727682379 0.115043232
2.045433384 3.779633162 0.345129697 0.323133297 0.430526727 0.708946031 2.157295638 1.579220459
2.447009346 4.749754247 3.92646042 4.227391262 3.208460835 3.573320324 3.307096917 1.188488156
0.865226074 1.153948141 0.595873202 0 0.11072895 0 0 0 0
2009 1 28 3 0 75.504 0.343240855 0.296702275 0.62574811 1.24038871 1.183495672 0.296702275
0 1.226833784 0.616523229 2.180083973 1.601740453 8.506582235 4.986179623 4.127136172 3.590323439
1.313886532 1.042712702 1.634611149 1.009427828 1.400600408 3.21232926 2.064227006 0.708696728
0.351787989 0 0 0 0 0 0 0.296702275 2.723975389 2.066937991 0.590091123
0.2904896 0.909874425 1.186846751 2.506117602 6.539009383 7.29993023 4.889337206 5.684823114
4.238022999 3.338578337 4.514505842 3.87716074 2.362209468 2.816977244 0.308449877 0 0 0
0 0 0 0
2010 1 28 3 0 119.31 7.251460494 0.589583544 1.371407071 0.104161304 0.567476196 0.814878082
0.349233464 0 0 0.222526423 0.127571294 0.582606891 1.371657579 1.866398723 1.342611155
0.675069463 1.321330484 1.141415504 3.01402683 7.262783464 9.383510624 11.01396821 4.569632571
1.563183613 0.950089876 0 0 0 0.097961227 0.300083757 2.17136739 0.318533685 0.814878082
1.149519444 0.334653887 0 0 0.199893008 0.189910257 0.525491024 1.634365515 1.833431846
1.522776643 2.427900299 3.435694736 4.256873099 9.233080458 7.767407156 3.159885222 1.169710404 0
0 0 0 0 0
2011 1 28 3 0 124.074 0.255856015 0.25584131 0 0.647080448 1.536547708 1.19377417
4.106003794 3.849177291 1.544929198 2.322319761 1.063302307 0.955019336 0.744364551 0.858588087
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3.084903025 1.596894437 0.568176805 0 0 0 0 0 0.272324908 0.265649124 0.99791198
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1.306894878 0.653447439 0 0 0 0 0
2012 1 28 3 0 173.576 1.012291414 0.267411166 2.257443392 2.477769058 0.426701807
0.387813643 0.448117934 0.142680495 0.489095247 1.133293468 1.638446126 1.990088437 1.400470424
1.756047456 4.264582289 3.622585639 3.339192009 1.47912738 3.141856358 2.485254397 2.833758299
4.197354762 2.135579447 0.733872396 0.366940882 0 0 0 0.18753632 0.274549875 1.227539415
1.793221206 0.959060254 0.360158172 0.388778587 0.238434753 0.542007883 1.668855902 2.531618532
2.53777356 2.218695754 2.2931182 3.785267635 4.001770999 4.006033614 8.193626519 6.957318296
6.562384681 3.757209323 1.087266595 0 0 0 0 0 0
2013 1 28 3 0 108.656 4.015289167 0.243348931 0.862133779 1.522988517 3.687978558
12.88601859 4.841319425 2.383226797 1.546955759 2.071728971 1.943776461 0.797063478 0.467730156
0.111160174 0.320110259 0.921772014 2.140959191 1.39765663 1.730857278 1.310400091 1.797721305
0.930231789 0.951540245 0.164056031 0.164056031 0 0 0 0.121680826 0.669403563 2.066284183
2.173055451 3.37092145 12.47108252 7.467653445 1.814259212 2.380758833 2.48969275 2.703909523

```
      2.501625485  1.337064285  0.793590518  0.629763474  1.540137053  2.293705838  0.645805243  1.686777397
      1.299434187  0.333315142  0      0      0      0      0      0      0
2014  1      28     3      0      277.446      0.04291503   0.303335173  0.483403771  0.896089629  1.303244962
      0.706728361  1.031746431  1.243674786  1.708400753  1.355458441  1.424627575  1.069622152  0.948141296
      1.07211869   1.367114732  2.235621081  3.226856556  3.119568982  4.704784066  4.298559156  4.204349513
      4.21407561   2.302287898  1.244992404  0      0      0      0      0.050797618  0.390575314  1.513358704
      1.282486709  1.212970834  1.030249664  1.007520764  1.419362885  1.821727407  1.2347173    0.858543313
      1.122627357  1.22637239   1.892936536  2.927688059  4.387683259  6.61188499   7.859061865  9.313977303
      5.772868998  2.298912948  0.206166669  0.049792068  0      0      0      0      0

# 2015 Triennnial survey (n=8)
1983  1      29     3      0      331.82 0      0      0.077914628  0.077914628  0.077914628  0.243539372  0.358383897
      0.790894546  4.331094098  9.398010912  1.955888686  3.663212259  2.216370665  3.209298613  4.724452927
      1.371645103  0.777313811  2.225415972  2.131954898  3.328206053  1.551308458  1.498782588  0.852869527
      0.390255867  0.138533294  0.019533643  0      0      0      0      0      0.311658513  0.101632856
      0.457498076  1.866977402  2.61316755   7.683996276  5.551833727  4.034284358  2.920490502  2.952572486
      3.718430185  2.266975489  2.20171392   3.506474194  5.686117753  4.608941545  2.857291102  0.907482247
      0.255547172  0.086205572  0      0      0      0
1986  1      29     3      0      310.64 0      0.262095287  0.120548022  0.191321654  1.239702801  0.655238217
      0.388115807  0.676516465  1.17839086   2.087066055  3.760022729  6.338706701  4.840718624  7.336517572
      4.771651099  3.967596629  3.381539491  1.342059517  1.926431609  2.790377124  2.4186349    2.225863925
      1.972632493  0.586284623  0.576159129  0.172191385  0      0      0      0      0.251595665  0.524190573
      1.622346109  0.678697896  0.724973919  0.772228142  2.895280368  2.544300725  2.647233742  2.494775078
      2.739217607  2.595470561  4.378488621  2.555378114  2.861937118  2.964800438  2.583143302  4.165492449
      3.128624359  1.459496909  0.205945585  0      0      0      0      0
1989  1      29     3      0      318.15 0      0      0      0.075931287  0.486232215  0      0.410300927  1.039575483
      2.315883104  5.288062322  3.691995087  2.256653374  2.474982225  2.190229547  2.918492067  3.130966491
      2.527542045  2.674862022  1.28637069   2.233279444  1.41094372   0.747814189  0.536623772  0.473705094
      0.030099423  0.030099423  0      0      0      0      0      1.020204049  2.298846451  0.66873928   3.091256638
      8.304896707  4.637367923  5.484934074  3.099781915  2.68009793   2.448931001  2.888589007  4.908664165
      3.545627384  3.076317703  2.500394621  4.760990305  3.110559293  1.965702344  0.788219077  0.227637833
      0.26159835   0      0      0      0
1992  1      29     3      0      125.764      0      0      2.281025072  0      0.760341691  2.281025072  0.399166857
      0.760341691  1.972522169  1.517622729  3.393628511  6.665883344  6.910208012  6.001119164  3.187101108
      3.990831058  2.540872432  1.890753245  2.287991068  0.89524894   1.2165247    0.748801504  0      0.249600501
      0.224491683  0      0      0      0      0.760341691  5.322391834  0.760341691  3.801708453  3.801708453
      1.59758907   0.438080523  0.438080523  1.118455872  3.692308692  1.567257384  6.152322744  1.318976693
      2.273695354  1.398869674  2.563107715  2.236719359  1.214906257  4.22842628   4.007617689  0.640779927
      0.491213571  0      0      0      0      0
1995  1      30     3      0      137.044      0      0      0      0      0.353329168  0.350568537  0      0.359854449
      0.359854449  3.296562595  1.095758894  4.03246704   4.341358572  1.41156006   2.050788785  1.121240353  0
      1.156007724  1.384455363  1.967538848  11.67256682  10.18217084  1.541343632  4.238694987  2.697351355
      0.385335908  0      0      0      0      0      0      0      0.359854449  0.710422986  0.350568537
      2.857887492  1.515862173  2.971475517  4.05239748   5.336642949  1.541343632  2.312015447  0.385335908
      2.570972115  2.154953451  5.780038618  9.633397697  3.468023171  0      0      0      0      0      0
```

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1998   1      30     3      0      211.328       0      0      1.087218527   0      0      0.560893404   0.171369267   0
       0.218154871   2.192506209   1.27488172    5.061897141   3.909598409   12.62753962   7.759820731   2.345963404
       2.248355424   2.246226371   1.749640945   2.145177413   1.117562693   0.645101361   0.388052959   0.183255131
       0.091608633   0      0      0      0      0.217443705   0.434887411   0.217443705   0      0.171369267   0      0
       0      0.296290065   3.395756736   7.726233778   8.885515587   9.56182693    5.193226727   3.001927505   3.744608793
       4.142911173   2.044749969   1.863075268   0.48384895    0.290959206   0.30310099    0      0      0      0      0
2001   1      30     3      0      136.202       0      0      0.11109108    0      1.045318666   0      2.078206703
       0.102008617   0.204017234   2.376838926   1.410381881   6.648482475   13.21083503   8.92256657    5.046287998
       3.007954899   1.983924363   2.25469499    2.242876447   2.113761669   0.45113377    0.264085217   0.393735147   0
       0      0      0      0      0      0      0      0      0.692735568   0      0.692735568   1.137935135   0.794744185
       2.274830309   2.587838851   8.375948712   9.374336778   6.26024451    4.974207663   2.5765153     1.359377401
       2.233554358   1.161042027   1.055062942   0.473939638   0.106749377   0      0      0      0      0      0
2004   1      30     3      0      118.856       0      0      0      0      0      0      0      0      0      0      0
       0      1.121850128   3.596178893   6.221134216   3.55943762    1.768426128   2.046212062   2.706452923   5.950843007
       4.075540913   3.980789472   2.133609227   1.162643299   0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0.373950043   2.103160607   2.598534381   5.217030891   4.412592044
       9.026543186   7.434487175   10.07504157   11.73006738   6.576169918   2.129304919   0      0      0      0      0
       0

### Age data ###
35     # Number of age bins for data inputs
# Lower edge of age bins (first is a minus group, last is a plus group)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

8      # Number of ageing error types
# Vectors of: Average age at true age (to accumulator age)
#             SD of ageing precision at true age

#########
# ODFW unbiased
#########
# Definition 1 : CAPS / ODFW Break-and-burn
0.5    1.5    2.5    3.5    4.5    5.5    6.5    7.5    8.5    9.5    10.5   11.5   12.5   13.5   14.5   15.5   16.5   17.5
       18.5   19.5   20.5   21.5   22.5   23.5   24.5   25.5   26.5   27.5   28.5   29.5   30.5   31.5   32.5   33.5   34.5
       35.5   36.5   37.5   38.5   39.5   40.5
0.137017      0.137017      0.274033      0.41105       0.548066      0.685083      0.822099      0.959116      1.09613
       1.23315       1.37017       1.50718       1.6442 1.78121       1.91823       2.05525       2.19226       2.32928
       2.4663 2.60331       2.74033       2.87735       3.01436       3.15138       3.2884 3.42541       3.56243
       3.69945       3.83646       3.97348       4.1105 4.24751       4.38453       4.52154       4.65856       4.79558
       4.93259       5.06961       5.20663       5.34364       5.48066
# Definition 2 : WDFW / ODFW Break-and-burn
0.561732      1.6852 2.80866       3.93213       5.05559       6.17906       7.30252       8.42599       9.54945
       10.6729       11.7964       12.9198       14.0433       15.1668       16.2902       17.4137       18.5372
       19.6606       20.7841       21.9076       23.031 24.1545       25.278 26.4014       27.5249       28.6484
```

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      29.7718      30.8953      32.0187      33.1422      34.2657      35.3891      36.5126      37.6361
      38.7595      39.883 41.0065      42.1299      43.2534      44.3769      45.5003
0.138692     0.138692     0.277384     0.416076     0.554768     0.693459     0.832151     0.970843     1.10954
      1.24823      1.38692      1.52561      1.6643 1.80299      1.94169      2.08038      2.21907      2.35776
      2.49645      2.63515      2.77384      2.91253      3.05122      3.18991      3.32861      3.4673 3.60599
      3.74468      3.88337      4.02206      4.16076      4.29945      4.43814      4.57683      4.71552
      4.85422      4.99291      5.1316 5.27029      5.40898      5.54768
# Definition 3 : CAPS / WDFW / ODFW Surface reads
0.5   0.501002     2.13403      3.67111      5.11789      6.47967      7.76144      8.9679 10.1035      11.1723
      12.1784      13.1254      14.0167      14.8556      15.6453      16.3886      17.0882      17.7467
      18.3665      18.9499      19.499 20.0158      20.5023      20.9602      21.3912      21.7969      22.1788
      22.5382      22.8765      23.1949      23.4946      23.7767      24.0422      24.2922      24.5274
      24.7488      24.9573      25.1534      25.3381      25.5119      25.6755
0.174808     0.174808     0.349615     0.524423     0.699231     0.874038     1.04885      1.22365      1.39846
      1.57327      1.74808      1.92288      2.09769      2.2725 2.44731      2.62211      2.79692      2.97173
      3.14654      3.32135      3.49615      3.67096      3.84577      4.02058      4.19538      4.37019      4.545
      4.71981      4.89461      5.06942      5.24423      5.41904      5.59384      5.76865      5.94346
      6.11827      6.29308      6.46788      6.64269      6.8175 6.99231
# Definition 4 : CAPS / WDFW / ODFW Surface reads (truncated at age-20)
0.5   0.501002     2.13403      3.67111      5.11789      6.47967      7.76144      8.9679 10.1035      11.1723
      12.1784      13.1254      14.0167      14.8556      15.6453      16.3886      17.0882      17.7467
      18.3665      18.9499      19.499 20.5   20.5   20.5   20.5   20.5   20.5   20.5   20.5   20.5   20.5   20.5   20.5
      20.5   20.5   20.5   20.5   20.5   20.5   20.5   20.5
0.174808     0.174808     0.349615     0.524423     0.699231     0.874038     1.04885      1.22365      1.39846
      1.57327      1.74808      1.92288      2.09769      2.2725 2.44731      2.62211      2.79692      2.97173
      3.14654      3.32135      3.49615      0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1
      0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1

#########
# WDFW unbiased
#########
# Definition 5 : CAPS / ODFW Break-and-burn
0.445998     1.33799      2.22999      3.12198      4.01398      4.90597      5.79797      6.68996      7.58196
      8.47395      9.36595      10.2579      11.1499      12.0419      12.9339      13.8259      14.7179
      15.6099      16.5019      17.3939      18.2859      19.1779      20.0699      20.9619      21.8539
      22.7459      23.6379      24.5299      25.4219      26.3139      27.2059      28.0978      28.9898
      29.8818      30.7738      31.6658      32.5578      33.4498      34.3418      35.2338      36.1258
0.122778     0.122778     0.245556     0.368334     0.491112     0.61389      0.736668     0.859446     0.982224
      1.105  1.22778      1.35056      1.47334      1.59611      1.71889      1.84167      1.96445      2.08723
      2.21   2.33278      2.45556      2.57834      2.70112      2.82389      2.94667      3.06945      3.19223
      3.31501      3.43778      3.56056      3.68334      3.80612      3.9289 4.05167      4.17445      4.29723
      4.42001      4.54279      4.66556      4.78834      4.91112
# Definition 6 : WDFW / ODFW Break-and-burn
```

```
0.5    1.5    2.5    3.5    4.5    5.5    6.5    7.5    8.5    9.5    10.5   11.5   12.5   13.5   14.5   15.5   16.5   17.5
       18.5   19.5   20.5   21.5   22.5   23.5   24.5   25.5   26.5   27.5   28.5   29.5   30.5   31.5   32.5   33.5   34.5
       35.5   36.5   37.5   38.5   39.5   40.5
0.122115     0.122115     0.244229     0.366344     0.488459     0.610574     0.732688     0.854803     0.976918
       1.09903      1.22115      1.34326      1.46538      1.58749      1.70961      1.83172      1.95384
       2.07595      2.19807      2.32018      2.44229      2.56441      2.68652      2.80864      2.93075
       3.05287      3.17498      3.2971 3.41921      3.54133      3.66344      3.78556      3.90767      4.02979
       4.1519 4.27402      4.39613      4.51825      4.64036      4.76247      4.88459
# Definition 7 : CAPS / WDFW / ODFW Surface reads
0.5    0.501001     1.92349      3.27465      4.55805      5.77709      6.93501      8.03485      9.07955
       10.0719      11.0144      11.9097      12.7601      13.5678      14.3351      15.0638      15.756 16.4135
       17.0381      17.6313      18.1948      18.73  19.2384      19.7212      20.1799      20.6156      21.0294
       21.4225      21.7958      22.1505      22.4873      22.8073      23.1112      23.3999      23.6741
       23.9345      24.1819      24.4169      24.6401      24.8521      25.0535
0.155664     0.155664     0.311329     0.466993     0.622658     0.778322     0.933987     1.08965      1.24532
       1.40098      1.55664      1.71231      1.86797      2.02364      2.1793 2.33497      2.49063      2.6463
       2.80196      2.95763      3.11329      3.26895      3.42462      3.58028      3.73595      3.89161
       4.04728      4.20294      4.35861      4.51427      4.66993      4.8256 4.98126      5.13693      5.29259
       5.44826      5.60392      5.75959      5.91525      6.07092      6.22658
# Definition 8 : CAPS / WDFW / ODFW Surface reads (truncated at age-20)
0.5    0.501001     1.92349      3.27465      4.55805      5.77709      6.93501      8.03485      9.07955
       10.0719      11.0144      11.9097      12.7601      13.5678      14.3351      15.0638      15.5   15.5   15.5
       15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5   15.5
       15.5   15.5   15.5   15.5   15.5
0.155664     0.155664     0.311329     0.466993     0.622658     0.778322     0.933987     1.08965      1.24532
       1.40098      1.55664      1.71231      1.86797      2.02364      2.1793 2.33497      0.1    0.1    0.1    0.1
       0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1    0.1
       0.1    0.1    0.1    0.1

### Age composition data ###
1970   # Number of age comp observations using restricted length ranges
2   # Length bin refers to: 1=population length bin indices; 2=data length bin indices; 3= actual pop? data? lengths
match bins?
0 #_combine males into females at or below this bin number

# Conditional ages for surveys, marginal for fishing fleets
# Gender: 0=sexes combined into length bins ("unknown sex"), 1=females only (0s male bins), 2=males only (0s for female
bins), 3=use data for both males and females
# Year Season Type   Gender Partition    (0=discard+retained; 1=discard; 2=retained)    ageerr Lbin_lo      Lbin_hi
       Nsamps Data: females then males

###    2015 California     trawl  fleet  age    key    1 (n=14)
1980   1      1      1      0      1      -1     -1     57     0      0      0      0      0      2503.635     6982.873464
       6107.45626   2172.85768   6419.835884  6111.066982  9812.724842  9882.699619  4903.821833  2554.672423
       1762.200084  1689.807209  0      156.2275742  459.0019541  4725.444263  0      0      0      626.5182592
```

1582.662582 0 0 0 0 687.53999 0 0 0 0 0 0 0 0 0
2503.635 6982.873464 6107.45626 2172.85768 6419.835884 6111.066982 9812.724842 9882.699619
4903.821833 2554.672423 1762.200084 1689.807209 0 156.2275742 459.0019541 4725.444263 0 0
0 626.5182592 1582.662582 0 0 0 0 687.53999 0 0 0 0
1981 1 1 1 0 1 -1 -1 46 0 0 0 0 2006.982606 2210.550846
2050.921049 7876.776488 13691.2588 15381.0506 16389.57708 3606.660459 16604.17064 8731.696728
8766.088345 8144.936025 7415.309583 200.1661155 1781.241533 637.9239646 4702.187416 6633.59156 0
1016.513108 0 163.8020585 705.4287319 0 0 1926.513781 0 0 0 0 0 0
0 0 0 2006.982606 2210.550846 2050.921049 7876.776488 13691.2588 15381.0506 16389.57708
3606.660459 16604.17064 8731.696728 8766.088345 8144.936025 7415.309583 200.1661155 1781.241533
637.9239646 4702.187416 6633.59156 0 1016.513108 0 163.8020585 705.4287319 0 0
1926.513781 0 0 0 0 0
1982 1 1 1 0 1 -1 -1 53 0 0 0 0 0 5636.627969 6255.966764
10014.23302 6616.462348 20595.06133 18744.4944 21094.60477 1944.962661 11073.65693 6817.638082 0
4716.539744 5457.807955 143.3458158 0 187.2143371 0 5309.831423 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 5636.627969 6255.966764
10014.23302 6616.462348 20595.06133 18744.4944 21094.60477 1944.962661 11073.65693 6817.638082 0
4716.539744 5457.807955 143.3458158 0 187.2143371 0 5309.831423 0 0 0 0 0
0 0 0 0 0 0 0
1983 1 1 1 0 1 -1 -1 102 0 0 0 34.008832 552.5605831 1298.967681
5634.827411 12390.40605 12577.68889 3328.74821 9862.680547 2152.653036 7141.619428 5454.487169
11675.12513 2747.905862 3878.302238 1252.140345 1146.484816 52.31102503 2708.257916 0 5088.1799
1675.451071 4556.134703 0 0 321.8675881 1483.557613 0 1213.361593 0 2129.411516 0
2159.445807 0 0 0 34.008832 552.5605831 1298.967681 5634.827411 12390.40605 12577.68889
3328.74821 9862.680547 2152.653036 7141.619428 5454.487169 11675.12513 2747.905862 3878.302238
1252.140345 1146.484816 52.31102503 2708.257916 0 5088.1799 1675.451071 4556.134703 0 0
321.8675881 1483.557613 0 1213.361593 0 2129.411516 0 2159.445807
1984 1 1 1 0 1 -1 -1 86 0 0 0 499.4938019 388.4951792 6773.706251
4127.929653 8297.931976 11942.75155 8374.731854 9317.714924 5599.71556 2219.921276 7225.323515
2224.339058 8934.872111 765.6140278 2402.457377 450.1229108 1124.616829 383.6787943 0 824.5397446
859.5826837 0 1313.916155 0 1110.533403 2927.115515 0 135.8937031 0 0 1281.52781
2657.589207 0 0 0 499.4938019 388.4951792 6773.706251 4127.929653 8297.931976 11942.75155
8374.731854 9317.714924 5599.71556 2219.921276 7225.323515 2224.339058 8934.872111 765.6140278
2402.457377 450.1229108 1124.616829 383.6787943 0 824.5397446 859.5826837 0 1313.916155 0
1110.533403 2927.115515 0 135.8937031 0 0 1281.52781 2657.589207
1985 1 1 1 0 1 -1 -1 76 0 0 0 0 315.74182 1125.820558
9382.838961 9704.276589 9729.640722 3904.571283 8129.774447 5095.498652 3469.650632 561.8027628
767.3760518 4239.593118 2552.338624 1198.968219 4699.512918 1750.628091 5557.198145 438.107086
1312.521005 1183.231107 1750.628091 1398.099207 1140.163837 0 767.3760518 725.8159866 0 0
0 9.610644311 2280.327674 0 0 0 0 315.74182 1125.820558 9382.838961 9704.276589
9729.640722 3904.571283 8129.774447 5095.498652 3469.650632 561.8027628 767.3760518 4239.593118
2552.338624 1198.968219 4699.512918 1750.628091 5557.198145 438.107086 1312.521005 1183.231107
1750.628091 1398.099207 1140.163837 0 767.3760518 725.8159866 0 0 0 9.610644311
2280.327674

2001	1	1	1	0	1	-1	-1	3	0	0	0	0	0	0	26.25277218
	26.25277218	26.25277218	78.75831655	78.75831655	78.75831655	52.50554436	52.50554436	26.25277218	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	26.25277218	26.25277218	26.25277218	78.75831655			
	78.75831655	78.75831655	52.50554436	52.50554436	26.25277218	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0			
2002	1	1	1	0	1	-1	-1	11	0	0	0	0	0	0	12.05347583
	78.28671675	93.68564709	57.79580784	236.3736056	97.16577454	54.17976509	0	42.12628926	0						
	16.60427793	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	12.05347583	78.28671675	93.68564709	57.79580784		
	236.3736056	97.16577454	54.17976509	0	42.12628926	0	16.60427793	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0			
2003	1	1	1	0	1	-1	-1	7	0	0	0	0	0	0	6.074949367
	30.37474684	60.74949367	6.074949367	18.2248481	24.29979747	24.29979747	12.14989873	6.074949367							
	6.074949367	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	6.074949367	30.37474684	60.74949367			
	6.074949367	18.2248481	24.29979747	24.29979747	12.14989873	6.074949367	6.074949367	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2004	1	1	1	0	1	-1	-1	5	0	0	0	0	35.74022143	35.74022143	
	35.74022143	0	35.74022143	35.74022143	0	0	35.74022143	35.74022143	0	0	0	0			
	0	0	35.74022143	35.74022143	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	35.74022143	35.74022143	35.74022143	0	35.74022143	35.74022143			
	0	0	35.74022143	35.74022143	0	0	0	0	0	0	35.74022143	35.74022143	0		
	0	0	0	0	0	0	0	0	0	0	0				
2005	1	1	1	0	1	-1	-1	10	0	0	0	5.321926513	5.321926513	15.96577954	
	15.96577954	26.60963257	0	56.15175525	21.28770605	5.321926513	10.64385303	30.73684088	36.0587674						
	5.321926513	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	5.321926513	5.321926513	15.96577954	15.96577954	26.60963257			
	0	56.15175525	21.28770605	5.321926513	10.64385303	30.73684088	36.0587674	5.321926513	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	1	1	1	0	1	-1	-1	5	0	0	0	0	0	0	17.18399161
	0	85.91995804	17.18399161	0	51.55197482	0	34.36798322	17.18399161	17.18399161	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	17.18399161	0	0	85.91995804	17.18399161	0	51.55197482	0		
	34.36798322	17.18399161	17.18399161	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0								
2007	1	1	1	0	1	-1	-1	2	0	0	0	0	419.5834583	104.8958646	
	209.7917291	104.8958646	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	419.5834583	104.8958646	209.7917291	104.8958646	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0													
2009	1	1	1	0	1	-1	-1	3	0	0	0	0	0	0	51.89051186
	16.87237502	0	0	0	16.87237502	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 0 51.89051186 16.87237502 0 0 0 16.87237502 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1980 1 1 2 0 1 -1 -1 74 0 0 0 0 2033.719349 5183.148577
4441.593217 10849.12611 12438.33514 5934.251542 7944.756322 12415.14227 7621.654292 8947.25338
4950.542322 5730.752661 1623.498257 9318.487301 2240.360811 2718.494052 5644.79812 0 0
1183.968257 234.3326529 1146.541944 0 2167.442994 0 0 1470.769898 2806.469091 0 0
1442.920014 0 0 0 0 2033.719349 5183.148577 4441.593217 10849.12611 12438.33514
5934.251542 7944.756322 12415.14227 7621.654292 8947.25338 4950.542322 5730.752661 1623.498257
9318.487301 2240.360811 2718.494052 5644.79812 0 0 1183.968257 234.3326529 1146.541944 0
2167.442994 0 0 1470.769898 2806.469091 0 0 1442.920014
1981 1 1 2 0 1 -1 -1 49 0 0 0 0 527.5378328 3598.368485
1717.600157 18855.34391 19841.30519 5280.928455 12870.67066 5096.511952 13268.16585 8620.603289
10327.00493 6098.656504 0 173.5088472 0 862.902868 5771.052387 0 1016.513108 0 0
534.4800502 0 0 0 0 0 214.1842421 0 0 381.7343211 0 0 0 0
527.5378328 3598.368485 1717.600157 18855.34391 19841.30519 5280.928455 12870.67066 5096.511952
13268.16585 8620.603289 10327.00493 6098.656504 0 173.5088472 0 862.902868 5771.052387 0
1016.513108 0 0 534.4800502 0 0 0 0 0 214.1842421 0 0 381.7343211
1982 1 1 2 0 1 -1 -1 61 0 5433.543835 0 0 373.001373 12057.0186
1696.448093 12493.16532 16861.86757 30395.82378 17201.67365 10156.57206 3185.321909 1819.694098
4703.004006 9433.079489 2744.36032 5797.365333 606.8274166 10975.3125 2068.001889 7085.878876
8929.332066 0 0 0 2744.36032 0 0 0 0 6184.971746 0 0 2744.36032
0 5433.543835 0 0 373.001373 12057.0186 1696.448093 12493.16532 16861.86757 30395.82378
17201.67365 10156.57206 3185.321909 1819.694098 4703.004006 9433.079489 2744.36032 5797.365333
606.8274166 10975.3125 2068.001889 7085.878876 8929.332066 0 0 0 2744.36032 0 0
0 0 6184.971746 0 0 2744.36032
1983 1 1 2 0 1 -1 -1 127 0 0 0 0 1798.58857 614.76738
11052.85197 12073.17449 17529.47742 8116.892529 29416.24583 6011.059558 5358.118277 3147.584742
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1916.512456 2129.411516 0 307.8257107 367.1239811 0 0 2958.768384 0 1213.361593
8287.294473
1984 1 1 2 0 1 -1 -1 83 0 0 55.49931132 499.4938019 593.609377
1335.192528 3027.689075 9738.658635 10878.82318 10034.33445 8927.502701 12671.96302 431.7257619
2786.338376 5419.982734 1699.955905 2309.062391 2375.978598 60.74217659 798.8405071 0 1863.240862
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2786.338376 5419.982734 1699.955905 2309.062391 2375.978598 60.74217659 798.8405071 0 1863.240862
2410.671764 0 2789.179348 2810.849898 2786.338376 4461.798638 7671.326153 60.74217659 925.9384861
1634.243184 817.121592 885.2819211 3012.071416
1985 1 1 2 0 1 -1 -1 97 0 0 0 0 99.61594154 472.4978094
7458.257474 3681.415109 14084.76145 10218.64998 8728.654065 6141.240232 4278.569648 2416.528004

	561.8027628	1674.40944	3060.351083	1825.19624	0	67.50420857	1371.024327	1398.099207	1895.010675							
	4772.039377	3792.827747	767.3760518	2454.485095	426.8569508	0	3563.574465	0	0	0						
	178.1268923	1516.274212	0	0	0	0	99.61594154	472.4978094	7458.257474	3681.415109						
	14084.76145	10218.64998	8728.654065	6141.240232	4278.569648	2416.528004	561.8027628	1674.40944								
	3060.351083	1825.19624	0	67.50420857	1371.024327	1398.099207	1895.010675	4772.039377	3792.827747							
	767.3760518	2454.485095	426.8569508	0	3563.574465	0	0	0	178.1268923	1516.274212						
1987	1	1	2	0	1	-1	-1	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	776.1466968	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	776.1466968	0	0	0
	0	0	0	0	0	0	0	0	0	0	0					
2001	1	1	2	0	1	-1	-1	3	0	0	0	0	0	0	0	26.25277218
	52.50554436	0	78.75831655	52.50554436	78.75831655	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	26.25277218	52.50554436	0	78.75831655	52.50554436	78.75831655	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
2002	1	1	2	0	1	-1	-1	12	0	0	0	0	0	77.72094135	103.7336889	
	95.591443	48.58288727	126.3038286	126.1187155	108.284491	90.2184403	12.05347583	15.66951858	0							
	12.05347583	0	15.66951858	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	16.60427793	0	0	0	0	0	77.72094135	103.7336889	95.591443				
	48.58288727	126.3038286	126.1187155	108.284491	90.2184403	12.05347583	15.66951858	0	12.05347583							
	0	15.66951858	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	16.60427793														
2003	1	1	2	0	1	-1	-1	6	0	0	0	0	0	0	0	12.14989873
	12.14989873	24.29979747	0	6.074949367	12.14989873	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	12.14989873	12.14989873	24.29979747	0	6.074949367	12.14989873	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
2004	1	1	2	0	1	-1	-1	3	0	0	0	0	0	0	35.74022143	0
	0	71.48044286	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	35.74022143	0	0	71.48044286	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	1	2	0	1	-1	-1	7	0	0	0	0	0	26.60963257	21.28770605	
	15.96577954	5.321926513	46.70262042	25.41491437	61.47368177	25.41491437	0	0	0	0	0	0	0			
	25.41491437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	26.60963257	21.28770605	15.96577954	5.321926513	46.70262042						
	25.41491437	61.47368177	25.41491437	0	0	0	0	0	25.41491437	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0					
2006	1	1	2	0	1	-1	-1	5	0	0	0	0	0	0	0	34.36798322
	85.91995804	17.18399161	34.36798322	17.18399161	17.18399161	51.55197482	17.18399161	17.18399161	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	34.36798322	85.91995804	17.18399161	34.36798322				

```
      17.18399161  17.18399161  51.55197482  17.18399161  17.18399161  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
2007  1      1      2      0      1      -1     -1     4      0      0      0      0      524.4793228  629.3751874
      104.8958646  0      816.4575026  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      524.4793228  629.3751874  104.8958646  0      816.4575026  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
2009  1      1      2      0      1      -1     -1     4      0      0      0      0      0      0      33.74475004
      33.74475004  84.36187511  16.87237502  18.14576182  50.61712507  0      16.87237502  0      16.87237502  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      33.74475004  33.74475004  84.36187511  16.87237502  18.14576182
      50.61712507  0      16.87237502  0      16.87237502  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0

#     2015   Oregon trawl  fleet  with   age    error  key    1      (n=70)
1980  1      2      1      0      1      -1     -1     31     0      0      0      0      0      19.2994377   365.1599199
      758.0579002  650.6998968  315.7002295  4733.376316  5679.672547  6760.372237  9448.189777  6787.468294
      15636.13218  16676.17245  3832.904927  14572.23481  9519.514945  4280.920969  9183.82242   10606.1367
      3155.679625  0      2383.198348  1216.171618  1262.800918  1216.171618  2524.279166  0      0      0      0
      0      0      0      0      0      0      19.2994377   365.1599199  758.0579002  650.6998968  315.7002295
      4733.376316  5679.672547  6760.372237  9448.189777  6787.468294  15636.13218  16676.17245  3832.904927
      14572.23481  9519.514945  4280.920969  9183.82242   10606.1367   3155.679625  0      2383.198348  1216.171618
      1262.800918  1216.171618  2524.279166  0      0      0      0      0
1981  1      2      1      0      1      -1     -1     32     0      0      0      0      0      0      0      6033.404784
      82.47575884  82.47575884  45760.89701  33702.44857  23052.68976  27352.46587  15972.32501  11023.77991
      12812.84987  24141.73868  5668.211041  6745.611694  28967.78451  17612.85777  1119.124926  7469.616596
      7464.758276  1431.353492  399.0762524  1073.515119  0      41.23787942  715.676746   0      357.838373
      357.838373   7549.568767  0      0      0      0      0      0      0      6033.404784  82.47575884  82.47575884
      45760.89701  33702.44857  23052.68976  27352.46587  15972.32501  11023.77991  12812.84987  24141.73868
      5668.211041  6745.611694  28967.78451  17612.85777  1119.124926  7469.616596  7464.758276  1431.353492
      399.0762524  1073.515119  0      41.23787942  715.676746   0      357.838373   357.838373   7549.568767
1982  1      2      1      0      1      -1     -1     36     0      0      0      0      0      0      0      2771.142994
      7687.86899   2391.697538  8093.326144  10229.21577  26699.26318  9694.431858  15169.4266   7328.77129
      4486.683016  8200.355244  8362.484958  5355.181406  16441.08325  19229.91562  1424.463699  1566.94617
      10905.39036  3891.688798  6472.438991  1227.574904  0      216.9783796  1411.923067  0      1663.06099   0
      2455.149808  0      0      0      0      0      0      0      2771.142994  7687.86899   2391.697538  8093.326144
      10229.21577  26699.26318  9694.431858  15169.4266   7328.77129   4486.683016  8200.355244  8362.484958
      5355.181406  16441.08325  19229.91562  1424.463699  1566.94617   10905.39036  3891.688798  6472.438991
      1227.574904  0      216.9783796  1411.923067  0      1663.06099   0      2455.149808
1983  1      2      1      0      1      -1     -1     179    0      0      0      0      4271.14852   4742.281944
      21247.29477  43722.03571  57812.82305  77511.41974  60661.08965  54915.36355  59780.45648  55765.51654
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      13716.36431  15152.27429  7120.798105  4678.094394  3615.242316  4577.170685  4137.919365  686.7381213
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4742.281944 21247.29477 43722.03571 57812.82305 77511.41974 60661.08965 54915.36355 59780.45648
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686.7381213 174.0967106 3081.615262 2077.498862 2726.383286 6257.642536
1984 1 2 1 0 1 -1 -1 120 0 0 0 213.7280339 447.9180744 2984.652455
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1200.043738 584.5694497 1322.869993 1085.206525 0 0 0 213.7280339 447.9180744 2984.652455
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493.3063895 1829.929796 0 0 0 0 0 2871.162034 7379.597794 8716.32192 18802.03318
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1986 1 2 1 0 1 -1 -1 64 0 0 0 0 1071.509023 4181.293894
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1987 1 2 1 0 1 -1 -1 119 0 0 0 0 392.6329004 1715.034964
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0 56.2228723 112.4457446
1988 1 2 1 0 1 -1 -1 43 0 0 0 0 0 1561.669984 5298.893568
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1989  1      2      1      0      1      -1     -1     90     0      0      0      84.72349319  129.9842424  2487.410524
      7140.564898  13677.79503  31658.20107  41558.32563  48513.71855  35962.0693   24669.07692  23215.77689
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1990  1      2      1      0      1      -1     -1     85     0      0      0      0      66.26930961  2864.057007
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      0      0      0      1515.816665  0      0      979.2059243  0      1729.750998
1991  1      2      1      0      1      -1     -1     77     0      0      0      252.6673014  4613.100984  8944.998159
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      10603.48059  3588.90136   808.581668   4613.350373  3292.282175  1106.731152  0      740.7448755  0
      2073.18173   80.52362535  0      0      0      0      0      0      770.0413996
1992  1      2      1      0      1      -1     -1     109    0      0      0      20.30457047  3296.827299  3795.568171
      16351.36775  24975.80303  36616.1468   35668.54546  31709.95116  17785.31996  32222.783    18644.33131
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      1746.054473  2038.538735  0      904.6889969  0      569.8799401  0      1334.443005  375.9146167  631.1186164
      0      0      569.8799401  0      0      0      20.30457047  3296.827299  3795.568171  16351.36775  24975.80303
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      13006.1722   4041.678078  4298.064474  3225.966409  2610.819758  1431.198076  1746.054473  2038.538735  0
      904.6889969  0      569.8799401  0      1334.443005  375.9146167  631.1186164  0      0      569.8799401
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2006 1 2 2 0 1 -1 -1 52 0 0 0 6.765262627 3.372503675 6.74500735
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0 0 4.6228485 14.91120608 94.95309778 215.0313179 235.1672866 283.6616541 163.719491
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37.5958215 14.92063565 11.11799533 0 28.66429695 4.571483516 0 10.83610908 4.571483516 0
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167.5476394 86.17949721 159.6226308 155.8883237 184.1636808 161.6175705 143.3249431 160.2239829
72.88525619 38.15735405 20.28617329 41.56445644 26.09376336 22.67176696 8.290792676 15.03054177
28.17236176 15.63476445 9.352432278 26.18162481 6.084605004 43.16822295 0 13.97414733 0
2.892062405 9.191202462 0 2.892062405 3.192542599 16.86620973

```
2014  1      2      2      0      1      -1     -1     45     0      0      0      17.65794308  14.73606819  33.86796727
      188.1426419  68.58050521  39.22142891  27.56361822  75.30797986  39.28467796  17.33076216  6.070854065
      31.01437749  2.814977024  15.03243408  11.58167481  11.58167481  11.58167481  0      5.629954049  8.766697783
      0      2.814977024  5.629954049  0      0      0      2.814977024  0      0      0      0      13.48873309  0
      0      0      17.65794308  14.73606819  33.86796727  188.1426419  68.58050521  39.22142891  27.56361822
      75.30797986  39.28467796  17.33076216  6.070854065  31.01437749  2.814977024  15.03243408  11.58167481
      11.58167481  11.58167481  0      5.629954049  8.766697783  0      2.814977024  5.629954049  0      0      0
      2.814977024  0      0      0      0      13.48873309
#     2015   Oregon trawl  fleet  with   age    error  key    4 surface reads     (n=20)
1973  1      2      1      0      4      -1     -1     3      0      0      0      0      0      1383.422779  6917.113894
      2075.134168  0      0      0      0      691.7113894  691.7113894  0      0      0      0      691.7113894  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      1383.422779  6917.113894  2075.134168  0      0      0      0      691.7113894  691.7113894
      0      0      0      0      691.7113894  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
1974  1      2      1      0      4      -1     -1     25     0      0      0      0      914.8534795  2395.012188
      4239.003272  2088.561844  1159.42424   1303.135807  7955.687413  15745.00882  13010.48048  15864.27043
      15247.74251  5978.262398  3683.863871  2462.560047  1044.280922  5369.368199  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      914.8534795
      2395.012188  4239.003272  2088.561844  1159.42424   1303.135807  7955.687413  15745.00882  13010.48048
      15864.27043  15247.74251  5978.262398  3683.863871  2462.560047  1044.280922  5369.368199  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1977  1      2      1      0      4      -1     -1     27     0      0      0      0      556.1496114  0      99.83169929
      2944.398021  5357.793739  8091.978872  6266.259934  3063.250859  8002.696662  5706.266686  10673.84331
      9740.171455  5042.139717  3027.237424  5555.570041  10230.67406  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      556.1496114  0      99.83169929
      2944.398021  5357.793739  8091.978872  6266.259934  3063.250859  8002.696662  5706.266686  10673.84331
      9740.171455  5042.139717  3027.237424  5555.570041  10230.67406  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1978  1      2      1      0      4      -1     -1     41     0      0      0      0      0      916.436641   0      0
      17045.21325  15717.96506  44942.64093  42504.84305  33186.42335  27340.94103  29439.70197  36142.58691
      20841.17067  35335.55894  19210.99867  22520.94759  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      916.436641   0      0      17045.21325
      15717.96506  44942.64093  42504.84305  33186.42335  27340.94103  29439.70197  36142.58691  20841.17067
      35335.55894  19210.99867  22520.94759  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1979  1      2      1      0      4      -1     -1     25     0      0      0      0      0      0      0      370.0906863
      370.0906863  740.1813726  15573.49     16750.71982  15408.28999  11625.31876  15455.16198  17557.37807
      10709.65405  7664.184723  11625.31876  12965.92618  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      370.0906863  370.0906863
      740.1813726  15573.49     16750.71982  15408.28999  11625.31876  15455.16198  17557.37807  10709.65405
      7664.184723  11625.31876  12965.92618  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1980  1      2      1      0      4      -1     -1     40     0      0      0      0      0      0      954.8637436
      754.3910162  1763.85743   2874.629298  9502.497017  25611.99805  19724.64319  22847.19641  15410.37334
```

```
      34942.0804    40732.32882   24978.54973   33613.47991   71581.28807   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      954.8637436
      754.3910162   1763.85743    2874.629298   9502.497017   25611.99805   19724.64319   22847.19641   15410.37334
      34942.0804    40732.32882   24978.54973   33613.47991   71581.28807   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1981  1      2      1      0      4      -1     -1     14     0      0      0      0      0      1439.14071    0
      7431.25307    9424.236764   9542.968159   5838.806902   7469.438128   5486.331486   5443.632334   321.4588132   0
      0      800.4872367   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      1439.14071    0      7431.25307    9424.236764   9542.968159
      5838.806902   7469.438128   5486.331486   5443.632334   321.4588132   0      0      800.4872367   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
1982  1      2      1      0      4      -1     -1     74     0      0      0      0      0      196.8887948   0
      4993.031272   28634.46596   34730.00892   21048.17169   39318.41421   53251.40205   41328.81804   27477.52188
      13596.65788   7747.519205   6993.662935   6229.36754    60411.42797   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      196.8887948   0
      4993.031272   28634.46596   34730.00892   21048.17169   39318.41421   53251.40205   41328.81804   27477.52188
      13596.65788   7747.519205   6993.662935   6229.36754    60411.42797   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1988  1      2      1      0      4      -1     -1     40     0      0      521.124712    2084.498848   5799.515608
      4555.709107   2586.530564   6363.609871   20954.97618   19184.634     14577.86316   9193.521573   7071.452531
      6561.437016   2427.589093   1034.452022   0      1481.315388   394.4622504   3431.169549   0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      521.124712    2084.498848
      5799.515608   4555.709107   2586.530564   6363.609871   20954.97618   19184.634     14577.86316   9193.521573
      7071.452531   6561.437016   2427.589093   1034.452022   0      1481.315388   394.4622504   3431.169549   0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1989  1      2      1      0      4      -1     -1     4      0      0      0      0      0      0      0      0      0
      3571.321598   2380.881065   1190.440533   2380.881065   0      1190.440533   0      1190.440533   2380.881065
      2380.881065   5952.202663   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      3571.321598   2380.881065   1190.440533
      2380.881065   0      1190.440533   0      1190.440533   2380.881065   2380.881065   5952.202663   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1973  1      2      2      0      4      -1     -1     6      0      0      0      0      0      691.7113894   3458.556947
      2075.134168   1383.422779   691.7113894   691.7113894   0      691.7113894   0      1383.422779   0      1383.422779
      0      691.7113894   9683.959451   0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      691.7113894   3458.556947   2075.134168   1383.422779
      691.7113894   691.7113894   0      691.7113894   0      1383.422779   0      1383.422779   0      691.7113894
      9683.959451   0      0      0      0      0      0      0      0      0      0      0      0      0      0
1974  1      2      2      0      4      -1     -1     28     0      0      0      0      0      1044.280922   1609.586151
      1159.42424    4248.923568   6308.671631   14422.8458    23257.18472   17609.44336   16962.55168   9935.019747
      10126.81784   5499.041173   12147.83182   4224.719147   7429.607325   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      1044.280922   1609.586151
      1159.42424    4248.923568   6308.671631   14422.8458    23257.18472   17609.44336   16962.55168   9935.019747
      10126.81784   5499.041173   12147.83182   4224.719147   7429.607325   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
```

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1977  1      2      2      0      4      -1     -1     35     0      0      0      0      1112.299223  1112.299223
      755.81301     1768.280533  8389.454482  20737.29311  9434.028856  7342.808767  20562.69842  17738.89859
      20551.55815   10840.41844  10446.43343  7547.353868  2594.496362  10627.40168  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      1112.299223
      1112.299223   755.81301    1768.280533  8389.454482  20737.29311  9434.028856  7342.808767  20562.69842
      17738.89859   20551.55815  10840.41844  10446.43343  7547.353868  2594.496362  10627.40168  0      0      0
      0      0      0      0      0      0      0      0      0      0      0
1978  1      2      2      0      4      -1     -1     42     0      0      0      0      0      0      0      1578.191203
      9173.918597   35825.25012  39086.06426  52480.41875  39219.90342  35787.4508   48091.21197  35552.06367
      34797.03562   19654.81686  22171.44     61077.68381  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      1578.191203  9173.918597
      35825.25012   39086.06426  52480.41875  39219.90342  35787.4508   48091.21197  35552.06367  34797.03562
      19654.81686   22171.44     61077.68381  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1979  1      2      2      0      4      -1     -1     28     0      0      0      0      0      0      0      1639.722955
      0      4235.661927  18030.15453  12984.19314  17464.97562  23052.86982  15500.21157  24124.25352  13212.70969
      13414.1186    9069.931092  42625.95251  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      1639.722955  0      4235.661927
      18030.15453   12984.19314  17464.97562  23052.86982  15500.21157  24124.25352  13212.70969  13414.1186
      9069.931092   42625.95251  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
1980  1      2      2      0      4      -1     -1     45     0      0      0      0      0      27.11242427  27.11242427
      1763.85743    949.8641895  13125.22172  16136.74266  27193.87624  30786.81001  21337.51986  10967.95975
      12491.3581    22921.57557  23131.73836  18320.75238  102534.1958  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      27.11242427  27.11242427
      1763.85743    949.8641895  13125.22172  16136.74266  27193.87624  30786.81001  21337.51986  10967.95975
      12491.3581    22921.57557  23131.73836  18320.75238  102534.1958  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1981  1      2      2      0      4      -1     -1     20     0      0      0      0      0      0      2357.402706
      10949.63099   20632.94539  22133.98089  6111.942559  11588.28447  18390.25648  4318.865159  0      1439.14071
      642.9176264   0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      2357.402706  10949.63099  20632.94539  22133.98089
      6111.942559   11588.28447  18390.25648  4318.865159  0      1439.14071   642.9176264  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1982  1      2      2      0      4      -1     -1     91     0      0      0      0      196.8887948  1767.283786
      6991.606055   18918.14065  32880.05586  56819.44692  35333.85612  33692.39761  39174.90833  36692.496
      17621.02676   16013.56308  12243.99992  14213.83333  36552.41368  185301.9058  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      196.8887948
      1767.283786   6991.606055  18918.14065  32880.05586  56819.44692  35333.85612  33692.39761  39174.90833
      36692.496     17621.02676  16013.56308  12243.99992  14213.83333  36552.41368  185301.9058  0      0      0
      0      0      0      0      0      0      0      0      0      0
1988  1      2      2      0      4      -1     -1     43     0      0      67.14377592  1563.374136  1373.768101
      4231.389643   9588.98772   13320.47173  19825.77173  14772.98317  13521.36666  12467.05608  8144.339731
      2371.795701   1407.440132  1284.084263  290.241169   67.14377592  636.0407284  7693.087899  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      67.14377592
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```
      1563.374136  1373.768101  4231.389643  9588.98772   13320.47173  19825.77173  14772.98317  13521.36666
      12467.05608  8144.339731  2371.795701  1407.440132  1284.084263  290.241169   67.14377592  636.0407284
      7693.087899  0      0      0      0      0      0      0      0      0      0      0      0      0      0
1989  1      2      2      0      4      -1     -1     4      0      0      0      0      0      0      0      0
      1190.440533  4761.762131  0      0      5952.202664  1190.440533  2380.881065  0      0      0      8333.08373
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1190.440533  4761.762131  0      0      5952.202664  1190.440533
      2380.881065  0      0      0      8333.08373   0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#     2015   Oregon trawl  fleet  with   age    error  key    8 surface reads     (n=20)
#1973 1      2      1      0      8      -1     -1     3      0      0      0      0      0      1383.422779  6917.113894
      2075.134168  0      0      0      0      691.7113894  691.7113894  691.7113894  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      1383.422779  6917.113894  2075.134168  0      0      0      0      691.7113894  691.7113894
      691.7113894  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#1974 1      2      1      0      8      -1     -1     25     0      0      0      0      914.8534795  2395.012188
      4239.003272  2088.561844  1159.42424   1303.135807  7955.687413  15745.00882  13010.48048  15864.27043
      33786.07795  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      914.8534795  2395.012188  4239.003272  2088.561844
      1159.42424   1303.135807  7955.687413  15745.00882  13010.48048  15864.27043  33786.07795  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1977 1      2      1      0      8      -1     -1     27     0      0      0      0      556.1496114  0      99.83169929
      2944.398021  5357.793739  8091.978872  6266.259934  3063.250859  8002.696662  5706.266686  44269.636    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      556.1496114  0      99.83169929  2944.398021  5357.793739  8091.978872
      6266.259934  3063.250859  8002.696662  5706.266686  44269.636    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1978 1      2      1      0      8      -1     -1     41     0      0      0      0      0      916.436641   0      0
      17045.21325  15717.96506  44942.64093  42504.84305  33186.42335  27340.94103  163490.9647  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      916.436641   0      0      17045.21325  15717.96506  44942.64093  42504.84305
      33186.42335  27340.94103  163490.9647  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1979 1      2      1      0      8      -1     -1     25     0      0      0      0      0      0      0      370.0906863
      370.0906863  740.1813726  15573.49     16750.71982  15408.28999  11625.31876  75977.62376  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      370.0906863  370.0906863  740.1813726  15573.49     16750.71982
      15408.28999  11625.31876  75977.62376  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1980 1      2      1      0      8      -1     -1     40     0      0      0      0      0      0      954.8637436
      754.3910162  1763.85743   2874.629298  9502.497017  25611.99805  19724.64319  22847.19641  221258.1003  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      954.8637436  754.3910162  1763.85743   2874.629298
```

```
      9502.497017  25611.99805  19724.64319  22847.19641  221258.1003  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1981 1      2      1      0      8      -1     -1     14     0      0      0      0      0      1439.14071   0
      7431.25307   9424.236764  9542.968159  5838.806902  7469.438128  5486.331486  5443.632334  1121.94605   0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1439.14071   0      7431.25307   9424.236764  9542.968159
      5838.806902  7469.438128  5486.331486  5443.632334  1121.94605   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1982 1      2      1      0      8      -1     -1     74     0      0      0      0      0      196.8887948  0
      4993.031272  28634.46596  34730.00892  21048.17169  39318.41421  53251.40205  41328.81804  122456.1574  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      196.8887948  0      4993.031272  28634.46596  34730.00892
      21048.17169  39318.41421  53251.40205  41328.81804  122456.1574  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#1988 1      2      1      0      8      -1     -1     40     0      0      521.124712   2084.498848  5799.515608
      4555.709107  2586.530564  6363.609871  20954.97618  19184.634    14577.86316  9193.521573  7071.452531
      6561.437016  8768.988302  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      521.124712   2084.498848  5799.515608  4555.709107
      2586.530564  6363.609871  20954.97618  19184.634    14577.86316  9193.521573  7071.452531  6561.437016
      8768.988302  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#1989 1      2      1      0      8      -1     -1     4      0      0      0      0      0      0      0      0      0
      3571.321598  2380.881065  1190.440533  2380.881065  0      13094.84586  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      3571.321598  2380.881065  1190.440533  2380.881065  0      13094.84586
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1973 1      2      2      0      8      -1     -1     6      0      0      0      0      0      691.7113894  3458.556947
      2075.134168  1383.422779  691.7113894  691.7113894  0      691.7113894  0      13142.5164   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      691.7113894  3458.556947  2075.134168  1383.422779  691.7113894  691.7113894
      0      691.7113894  0      13142.5164   0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1974 1      2      2      0      8      -1     -1     28     0      0      0      0      0      1044.280922  1609.586151
      1159.42424   4248.923568  6308.671631  14422.8458   23257.18472  17609.44336  16962.55168  49363.03705  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1044.280922  1609.586151  1159.42424   4248.923568  6308.671631
      14422.8458   23257.18472  17609.44336  16962.55168  49363.03705  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
#1977 1      2      2      0      8      -1     -1     35     0      0      0      0      1112.299223  1112.299223
      755.81301    1768.280533  8389.454482  20737.29311  9434.028856  7342.808767  20562.69842  17738.89859
      62607.66193  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      1112.299223  1112.299223  755.81301    1768.280533
      8389.454482  20737.29311  9434.028856  7342.808767  20562.69842  17738.89859  62607.66193  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
#1978 1      2      2      0      8      -1     -1     42     0      0      0      0      0      0      0      1578.191203
      9173.918597  35825.25012  39086.06426  52480.41875  39219.90342  35787.4508   221344.2519  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1578.191203  9173.918597  35825.25012  39086.06426  52480.41875
      39219.90342  35787.4508   221344.2519  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1979 1      2      2      0      8      -1     -1     28     0      0      0      0      0      0      0      1639.722955
      0      4235.661927  18030.15453  12984.19314  17464.97562  23052.86982  117947.177   0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      1639.722955  0      4235.661927  18030.15453  12984.19314  17464.97562
      23052.86982  117947.177   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#1980 1      2      2      0      8      -1     -1     45     0      0      0      0      0      27.11242427  27.11242427
      1763.85743   949.8641895  13125.22172  16136.74266  27193.87624  30786.81001  21337.51986  190367.58    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      27.11242427  27.11242427  1763.85743   949.8641895  13125.22172
      16136.74266  27193.87624  30786.81001  21337.51986  190367.58    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1981 1      2      2      0      8      -1     -1     20     0      0      0      0      0      0      2357.402706
      10949.63099  20632.94539  22133.98089  6111.942559  11588.28447  18390.25648  4318.865159  2082.058337  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      2357.402706  10949.63099  20632.94539  22133.98089
      6111.942559  11588.28447  18390.25648  4318.865159  2082.058337  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1982 1      2      2      0      8      -1     -1     91     0      0      0      0      196.8887948  1767.283786
      6991.606055  18918.14065  32880.05586  56819.44692  35333.85612  33692.39761  39174.90833  36692.496
      281946.7426  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      196.8887948  1767.283786  6991.606055  18918.14065
      32880.05586  56819.44692  35333.85612  33692.39761  39174.90833  36692.496    281946.7426  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1988 1      2      2      0      8      -1     -1     43     0      0      67.14377592  1563.374136  1373.768101
      4231.389643  9588.98772   13320.47173  19825.77173  14772.98317  13521.36666  12467.05608  8144.339731
      2371.795701  11378.03797  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      67.14377592  1563.374136  1373.768101  4231.389643
      9588.98772   13320.47173  19825.77173  14772.98317  13521.36666  12467.05608  8144.339731  2371.795701
      11378.03797  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#1989 1      2      2      0      8      -1     -1     4      0      0      0      0      0      0      0      0      0
      1190.440533  4761.762131  0      0      5952.202664  11904.40533  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      1190.440533  4761.762131  0      0      5952.202664  11904.40533  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0

###    2015   Washington   trawl  fleet  with   age    error  key    2      (n=92)
```

```
1980  1      3      1      0      1      -1     -1     35     0      0      0      0      118.0088657  346.2054647
      668.2987185  1094.517717  1430.509428  2128.020119  3706.960541  2633.266747  2311.519571  1377.125078
      1272.804839  527.4411168  950.9836481  764.3619404  670.4795167  118.0088657  101.5835324  420.5786645
      110.1877333  110.1877333  110.1877333  107.2238665  0      0      0      107.2238665  214.4630693  107.2392028
      0      107.2238665  861.1764531  0      0      0      0      118.0088657  346.2054647  668.2987185  1094.517717
      1430.509428  2128.020119  3706.960541  2633.266747  2311.519571  1377.125078  1272.804839  527.4411168
      950.9836481  764.3619404  670.4795167  118.0088657  101.5835324  420.5786645  110.1877333  110.1877333
      110.1877333  107.2238665  0      0      0      107.2238665  214.4630693  107.2392028  0      107.2238665
      861.1764531
1981  1      3      1      0      1      -1     -1     52     0      0      0      0      141.9902824  502.3946523
      3247.353102  6794.581899  6346.330934  9667.940165  11681.15273  7596.098223  5376.347508  4881.245505
      2896.237482  2327.304083  1125.424068  2359.81961   450.2433382  494.9185714  519.4877959  122.420687
      397.0671089  308.2530558  141.9902824  122.420687   97.85146244  0      122.420687   151.5374264  0
      170.9087439  0      0      426.5072604  0      0      0      0      141.9902824  502.3946523  3247.353102
      6794.581899  6346.330934  9667.940165  11681.15273  7596.098223  5376.347508  4881.245505  2896.237482
      2327.304083  1125.424068  2359.81961   450.2433382  494.9185714  519.4877959  122.420687   397.0671089
      308.2530558  141.9902824  122.420687   97.85146244  0      122.420687   151.5374264  0      170.9087439  0
      0      426.5072604
1982  1      3      1      0      1      -1     -1     55     0      0      0      34.73250836  2235.518724  4560.132924
      2640.362774  12236.37838  10354.27152  6250.417318  8892.830065  11075.19748  4061.455745  3602.544805
      1260.317891  462.0347842  1348.521481  2951.925568  2641.336418  232.1473414  0      82.9556036   0      0
      41.4778018   101.5909462  102.3944976  209.6088096  0      0      0      0      0      0      0      0      0
      0      34.73250836  2235.518724  4560.132924  2640.362774  12236.37838  10354.27152  6250.417318  8892.830065
      11075.19748  4061.455745  3602.544805  1260.317891  462.0347842  1348.521481  2951.925568  2641.336418
      232.1473414  0      82.9556036   0      0      41.4778018   101.5909462  102.3944976  209.6088096  0      0
      0      0      0      0      0
1983  1      3      1      0      1      -1     -1     30     0      0      0      96.04839098  1720.58651   1912.683292
      7734.354765  7389.507783  5096.967422  9050.354687  3344.436402  4438.144933  5451.662399  3781.552927
      1457.666578  832.4236885  912.756225   447.8390769  316.9717179  223.9195384  0      304.252075   0      0
      781.6611723  0      0      12.71964288  0      0      0      0      0      0      0      0      0
      96.04839098  1720.58651   1912.683292  7734.354765  7389.507783  5096.967422  9050.354687  3344.436402
      4438.144933  5451.662399  3781.552927  1457.666578  832.4236885  912.756225   447.8390769  316.9717179
      223.9195384  0      304.252075   0      0      781.6611723  0      0      12.71964288  0      0      0      0
      0      0      0
1984  1      3      1      0      1      -1     -1     51     0      0      0      0      2583.435332  1512.195694
      1968.828116  5843.10964   9742.973607  9061.257988  8173.855785  4399.300488  7056.489914  3897.754996
      6713.935264  2727.256678  3089.353985  1585.215959  1081.056174  1880.758241  946.4449486  1583.183713  0
      0      0      337.6960976  611.8819766  484.0377607  27.74084694  0      0      0      0      0      69.35211735
      0      0      0      0      2583.435332  1512.195694  1968.828116  5843.10964   9742.973607  9061.257988
      8173.855785  4399.300488  7056.489914  3897.754996  6713.935264  2727.256678  3089.353985  1585.215959
      1081.056174  1880.758241  946.4449486  1583.183713  0      0      0      337.6960976  611.8819766  484.0377607
      27.74084694  0      0      0      0      0      69.35211735
1985  1      3      1      0      1      -1     -1     41     0      0      0      0      1255.974892  4841.946875
      3026.734463  3613.525779  5580.5189    6372.285636  6939.068061  6903.323955  2641.891431  6494.321648
      4489.323722  1316.280424  443.5425036  1488.388979  211.8387126  1064.711554  0      552.2208555  793.2552308
```

0 0 19.86507851 0 0 0 19.86507851 0 0 773.3901523 19.86507851 0 0
0 0 0 1255.974892 4841.946875 3026.734463 3613.525779 5580.5189 6372.285636 6939.068061
6903.323955 2641.891431 6494.321648 4489.323722 1316.280424 443.5425036 1488.388979 211.8387126
1064.711554 0 552.2208555 793.2552308 0 0 19.86507851 0 0 0 19.86507851 0
0 773.3901523 19.86507851 0
1986 1 3 1 0 1 -1 -1 91 0 0 0 0 634.4806387 6518.80839
14362.63404 26331.45733 16148.84286 30519.76993 15624.99121 17084.0833 7730.92276 5976.480114
4282.814786 1952.33509 1720.076257 330.9046702 297.6936006 10.71956923 790.1031451 1668.123408
211.3431089 0 258.8494275 161.9923147 0 0 757.6028329 362.6581641 0 0 0
510.1876883 1696.802565 0 0 0 0 634.4806387 6518.80839 14362.63404 26331.45733
16148.84286 30519.76993 15624.99121 17084.0833 7730.92276 5976.480114 4282.814786 1952.33509
1720.076257 330.9046702 297.6936006 10.71956923 790.1031451 1668.123408 211.3431089 0 258.8494275
161.9923147 0 0 757.6028329 362.6581641 0 0 0 510.1876883 1696.802565
1987 1 3 1 0 1 -1 -1 62 0 0 0 0 0 2680.634681 2249.343819
19041.21897 27648.25351 24787.47973 34603.97317 21781.22758 17433.46702 9058.809982 9959.878302
6848.516426 5266.56424 3833.081926 2575.171937 614.9419734 203.011462 705.0770106 317.2191048
2218.588433 533.9396911 1415.37846 0 0 0 203.011462 0 0 0 0 359.7819953
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	122.0784048	229.6613028	74.13784983	155.3066266	0	0	74.13784983	0
	74.13784983	0						

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404.6329958 341.4885218 63.14447403 0 198.1066367 0 63.14447403 0 0 143.3818851 0
0 176.956596 341.4885218 0 198.1066367 0 0 0 341.6223457 0 0 0 0
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4170.872469 6156.610886 6476.793725 4324.15587 6119.252614 4339.931847 6799.414663 1086.619727
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692.2448226 959.1778403 959.1778403 1918.355681 1079.411868 959.1778403 0 3917.781014
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1783.123333 719.9911367 906.4865193 1389.047244 1364.703484 1091.909417 727.6948793 956.8063837
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323.3210018 1129.533822 0 0 0 0 0 0 862.9989381 1783.123333 719.9911367
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848.8289423 159.5708169 28.19203294 79.78540847 323.3210018 323.3210018 36.10284525 646.6420036
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      4.940815289  15.63974118  9.881630578  0      19.80979761  0      0      4.940815289  0      0      0      0
      0      0      0      0      14.82244587
2007  1      3      2      0      2      -1     -1     54     0      0      0      7.623894541  70.22267911  199.5462054
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      5.094094368  0      2.54129818   0      0      2.54129818   3.032352246  0      0      0      0      7.623894541
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2008  1      3      2      0      2      -1     -1     31     0      0      0      0      103.1590156  247.8750626
      118.2983301  128.4025398  63.48134176  34.3192418   48.99133511  56.45656114  82.69873815  46.75475203
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2012  1      3      2      0      2      -1     -1     53     0      0      0      20.1479435   22.20854667  171.6094398
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      0      0      0      0      3.607667491  11.32395054
2014  1      3      2      0      2      -1     -1     11     0      0      0      0      0      0      0      0
      15.16557458  58.85189924  39.52764261  62.27600448  31.05631365  7.582787288  30.33114915  7.582787288
      23.83930795  24.36206804  15.52815683  9.196493462  15.89073908  0      0      15.16557458  7.582787288  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
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      23.83930795  24.36206804  15.52815683  9.196493462  15.89073908  0      0      15.16557458  7.582787288  0
      0      0      0      0      0      0      0      0      0
#     2015   WA     trawl  fleet  with   age    error  key    4 surface reads     (n=14)
1975  1      3      1      0      4      -1     -1     21     0      0      897.8280051  11951.84211  1476.479856
      36419.77971  78100.92265  109745.3519  16605.75656  7382.399278  4464.440383  0      897.8280051  0
      2987.960527  2090.132522  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      897.8280051  11951.84211  1476.479856  36419.77971
      78100.92265  109745.3519  16605.75656  7382.399278  4464.440383  0      897.8280051  0      2987.960527
      2090.132522  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1976  1      3      1      0      4      -1     -1     8      0      0      0      0      0      0      0      56.86887923
      14.21721981  42.65165942  5377.901495  3566.31137   3580.52859   3566.31137   12482.0898   5349.467056
      3608.96303   3566.31137   5349.467056  1783.155685  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      56.86887923  14.21721981
```

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      42.65165942  5377.901495  3566.31137   3580.52859   3566.31137   12482.0898   5349.467056  3608.96303
      3566.31137   5349.467056  1783.155685  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1977  1      3      1      0      4      -1     -1     7      0      0      0      0      0      0      0      772.2754001
      3089.1016    3089.1016    1544.5508    772.2754001  2316.8262    4633.652401  1544.5508    6178.203201
      3861.377001  2316.8262    2316.8262    772.2754001  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      772.2754001  3089.1016
      3089.1016    1544.5508    772.2754001  2316.8262    4633.652401  1544.5508    6178.203201  3861.377001
      2316.8262    2316.8262    772.2754001  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1978  1      3      1      0      4      -1     -1     17     0      0      0      0      190.9753139  0      381.9506279
      649.5653743  2442.971609  2787.225788  3052.829511  6449.913202  917.1801208  5611.383537  9010.47825
      5961.670785  8740.85248   7634.708069  458.5900604  3129.468944  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      190.9753139  0      381.9506279
      649.5653743  2442.971609  2787.225788  3052.829511  6449.913202  917.1801208  5611.383537  9010.47825
      5961.670785  8740.85248   7634.708069  458.5900604  3129.468944  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1979  1      3      1      0      4      -1     -1     44     0      0      0      0      0      213.7826455  3026.545271
      248.0846447  5593.936704  18111.78398  37273.64091  37404.00742  31163.10551  22818.33232  6433.582785
      13051.05464  8484.980673  11905.71393  4369.527749  15483.94284  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      213.7826455  3026.545271
      248.0846447  5593.936704  18111.78398  37273.64091  37404.00742  31163.10551  22818.33232  6433.582785
      13051.05464  8484.980673  11905.71393  4369.527749  15483.94284  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1980  1      3      1      0      4      -1     -1     43     0      0      0      0      142.029887   284.059774
      568.119548   1924.56873   3456.692912  3289.746797  10312.81165  21264.70083  18516.73163  16998.56434
      4753.32054   7698.900539  6748.018137  3707.275949  4167.059263  15306.52618  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      142.029887
      284.059774   568.119548   1924.56873   3456.692912  3289.746797  10312.81165  21264.70083  18516.73163
      16998.56434  4753.32054   7698.900539  6748.018137  3707.275949  4167.059263  15306.52618  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1982  1      3      1      0      4      -1     -1     3      0      0      0      0      0      0      0      0
      69.09167938  0      138.1833588  138.1833588  69.09167938  138.1833588  69.09167938  0      138.1833588
      207.2750382  0      207.2750381  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      69.09167938  0      138.1833588
      138.1833588  69.09167938  138.1833588  69.09167938  0      138.1833588  207.2750382  0      207.2750381  0
      0      0      0      0      0      0      0      0      0      0      0      0
1975  1      3      2      0      4      -1     -1     21     0      0      2090.132522  7133.224756  10121.18528
      38464.61024  74134.83132  84315.71706  16595.45538  2374.307861  2987.960527  0      897.8280051  2090.132522
      897.8280051  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      2090.132522  7133.224756  10121.18528  38464.61024  74134.83132
      84315.71706  16595.45538  2374.307861  2987.960527  0      897.8280051  2090.132522  897.8280051  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
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1976  1      3      2      0      4      -1     -1     14     0      0      0      0      0      0      14.21721981
      3594.74581   3623.18025   3651.614689  7203.70884   3594.74581   5349.467056  21426.30266  24964.17959
      19628.92976  5363.684275  7146.839961  5349.467056  17831.55685  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      14.21721981
      3594.74581   3623.18025   3651.614689  7203.70884   3594.74581   5349.467056  21426.30266  24964.17959
      19628.92976  5363.684275  7146.839961  5349.467056  17831.55685  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1977  1      3      2      0      4      -1     -1     7      0      0      0      0      772.2754001  0      772.2754001
      772.2754001  2316.8262    3089.1016    3089.1016    4633.652401  6950.478601  5405.927801  3089.1016
      3089.1016    772.2754001  3861.377001  1544.5508    3089.1016    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      772.2754001  0      772.2754001
      772.2754001  2316.8262    3089.1016    3089.1016    4633.652401  6950.478601  5405.927801  3089.1016
      3089.1016    772.2754001  3861.377001  1544.5508    3089.1016    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1978  1      3      2      0      4      -1     -1     21     0      0      0      0      0      0      190.9753139
      381.9506279  1336.827198  7058.524569  4617.563983  3320.444258  7288.442867  7554.04659   11524.05622
      13090.80172  13165.43013  19721.63512  7823.67236   10421.93386  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      190.9753139
      381.9506279  1336.827198  7058.524569  4617.563983  3320.444258  7288.442867  7554.04659   11524.05622
      13090.80172  13165.43013  19721.63512  7823.67236   10421.93386  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1979  1      3      2      0      4      -1     -1     56     0      0      0      0      0      0      641.3479366
      2880.315325  3942.882052  22074.73081  53558.1207   79321.60143  50374.27987  48439.07869  23094.21017
      26618.70697  22144.05984  34287.13112  14296.04349  103516.7888  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      641.3479366
      2880.315325  3942.882052  22074.73081  53558.1207   79321.60143  50374.27987  48439.07869  23094.21017
      26618.70697  22144.05984  34287.13112  14296.04349  103516.7888  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1980  1      3      2      0      4      -1     -1     49     0      0      0      0      284.059774   142.029887
      1162.299162  4368.986361  4951.895358  7891.996699  17292.49879  29520.68761  25847.74553  17005.65132
      14509.07703  10239.26825  11901.99159  11476.42977  7477.46046   23018.92468  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      284.059774
      142.029887   1162.299162  4368.986361  4951.895358  7891.996699  17292.49879  29520.68761  25847.74553
      17005.65132  14509.07703  10239.26825  11901.99159  11476.42977  7477.46046   23018.92468  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1982  1      3      2      0      4      -1     -1     7      0      0      0      0      0      0      69.09167938
      69.09167938  138.1833588  207.2750382  276.3667175  207.2750382  414.5500763  483.6417557  414.5500763
      207.2750382  345.4583969  69.09167938  138.1833588  2625.483817  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      69.09167938
      69.09167938  138.1833588  207.2750382  276.3667175  207.2750382  414.5500763  483.6417557  414.5500763
      207.2750382  345.4583969  69.09167938  138.1833588  2625.483817  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
#     2015   WA     trawl  fleet  with   age    error  key    8 surface reads     (n=14)
#1975 1      3      1      0      8      -1     -1     21     0      0      897.8280051  11951.84211  1476.479856
      36419.77971  78100.92265  109745.3519  16605.75656  7382.399278  4464.440383  0      897.8280051  0
```

```
      5078.09305   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      897.8280051  11951.84211  1476.479856  36419.77971  78100.92265
      109745.3519  16605.75656  7382.399278  4464.440383  0      897.8280051  0      5078.09305   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1976 1      3      1      0      8      -1     -1     8      0      0      0      0      0      0      0      56.86887923
      14.21721981  42.65165942  5377.901495  3566.31137   3580.52859   3566.31137   32139.45399  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      56.86887923  14.21721981  42.65165942  5377.901495  3566.31137
      3580.52859   3566.31137   32139.45399  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1977 1      3      1      0      8      -1     -1     7      0      0      0      0      0      0      0      772.2754001
      3089.1016    3089.1016    1544.5508    772.2754001  2316.8262    4633.652401  16990.0588   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      772.2754001  3089.1016    3089.1016    1544.5508    772.2754001
      2316.8262    4633.652401  16990.0588   0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1978 1      3      1      0      8      -1     -1     17     0      0      0      0      190.9753139  0      381.9506279
      649.5653743  2442.971609  2787.225788  3052.829511  6449.913202  917.1801208  5611.383537  34935.76859  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      190.9753139  0      381.9506279  649.5653743  2442.971609  2787.225788
      3052.829511  6449.913202  917.1801208  5611.383537  34935.76859  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1979 1      3      1      0      8      -1     -1     44     0      0      0      0      0      213.7826455  3026.545271
      248.0846447  5593.936704  18111.78398  37273.64091  37404.00742  31163.10551  22818.33232  59728.80262  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      213.7826455  3026.545271  248.0846447  5593.936704  18111.78398
      37273.64091  37404.00742  31163.10551  22818.33232  59728.80262  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1980 1      3      1      0      8      -1     -1     43     0      0      0      0      142.029887   284.059774
      568.119548   1924.56873   3456.692912  3289.746797  10312.81165  21264.70083  18516.73163  16998.56434
      42381.10061  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      142.029887   284.059774   568.119548   1924.56873
      3456.692912  3289.746797  10312.81165  21264.70083  18516.73163  16998.56434  42381.10061  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1982 1      3      1      0      8      -1     -1     3      0      0      0      0      0      0      0
      69.09167938  0      138.1833588  138.1833588  69.09167938  138.1833588  621.8251145  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      69.09167938  0      138.1833588  138.1833588  69.09167938
      138.1833588  621.8251145  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#1975 1      3      2      0      8      -1     -1     21     0      0      2090.132522  7133.224756  10121.18528
      38464.61024  74134.83132  84315.71706  16595.45538  2374.307861  2987.960527  0      897.8280051  2090.132522
      897.8280051  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      2090.132522  7133.224756  10121.18528  38464.61024  74134.83132
      84315.71706  16595.45538  2374.307861  2987.960527  0      897.8280051  2090.132522  897.8280051  0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#1976 1      3      2      0      8      -1     -1     14     0      0      0      0      0      0      14.21721981
      3594.74581   3623.18025   3651.614689  7203.70884   3594.74581   5349.467056  21426.30266  80284.65749  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      14.21721981  3594.74581   3623.18025   3651.614689
      7203.70884   3594.74581   5349.467056  21426.30266  80284.65749  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#1977 1      3      2      0      8      -1     -1     7      0      0      0      0      772.2754001  0      772.2754001
      772.2754001  2316.8262    3089.1016    3089.1016    4633.652401  6950.478601  5405.927801  15445.508    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      772.2754001  0      772.2754001  772.2754001  2316.8262    3089.1016
      3089.1016    4633.652401  6950.478601  5405.927801  15445.508    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#1978 1      3      2      0      8      -1     -1     21     0      0      0      0      0      0      190.9753139
      381.9506279  1336.827198  7058.524569  4617.563983  3320.444258  7288.442867  7554.04659   75747.5294   0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      190.9753139  381.9506279  1336.827198  7058.524569
      4617.563983  3320.444258  7288.442867  7554.04659   75747.5294   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#1979 1      3      2      0      8      -1     -1     56     0      0      0      0      0      0      641.3479366
      2880.315325  3942.882052  22074.73081  53558.1207   79321.60143  50374.27987  48439.07869  223956.9403  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      641.3479366  2880.315325  3942.882052  22074.73081
      53558.1207   79321.60143  50374.27987  48439.07869  223956.9403  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#1980 1      3      2      0      8      -1     -1     49     0      0      0      0      284.059774   142.029887
      1162.299162  4368.986361  4951.895358  7891.996699  17292.49879  29520.68761  25847.74553  17005.65132
      78623.15178  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      284.059774   142.029887   1162.299162  4368.986361
      4951.895358  7891.996699  17292.49879  29520.68761  25847.74553  17005.65132  78623.15178  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1982 1      3      2      0      8      -1     -1     7      0      0      0      0      0      0      69.09167938
      69.09167938  138.1833588  207.2750382  276.3667175  207.2750382  414.5500763  483.6417557  3800.042366  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      69.09167938  69.09167938  138.1833588  207.2750382
      276.3667175  207.2750382  414.5500763  483.6417557  3800.042366  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0

####  2015   California   non-trawl    fleet  with   age    error  key    1      (n=14)
1980  1      4      1      0      1      -1     -1     1      0      0      0      0      0      0      0      0      0
      0      0      170.1934565  0      0      0      0      510.5803694  0      0      340.386913   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      170.1934565  0      0      0      0      510.5803694  0      0
      340.386913   0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
1981  1      4      1      0      1      -1     -1     2      0      0      0      0      0      0      0      0      0
      0      0      0      5944.618595  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      5944.618595  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
1982  1      4      1      0      1      -1     -1     3      0      0      0      0      0      0      1781.122447
      1714.70827   1714.70827   1714.70827   0      1714.70827   0      0      1714.70827   0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      1781.122447  1714.70827   1714.70827   1714.70827   0      1714.70827   0
      0      1714.70827   0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
1983  1      4      1      0      1      -1     -1     2      0      0      0      0      3709.811116  2114.150769  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      3709.811116
      2114.150769  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
1984  1      4      1      0      1      -1     -1     5      0      0      0      0      0      0      1316.923538  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      1316.923538  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
1985  1      4      1      0      1      -1     -1     4      0      0      0      0      0      0      0      0
      3656.41518   2690.558214  1798.674589  0      911.666185   0      911.666185   0      916.5414052  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      887.0084044  0      0
      916.5414052  0      0      0      0      0      0      0      0      3656.41518   2690.558214  1798.674589  0
      911.666185   0      911.666185   0      916.5414052  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      887.0084044  0      0      916.5414052
2002  1      4      1      0      1      -1     -1     1      0      0      0      0      22.62773333  11.31386667
      22.62773333  11.31386667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      22.62773333  11.31386667  22.62773333  11.31386667  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
2003  1      4      1      0      1      -1     -1     1      0      0      0      0      0      0      6.979333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      6.979333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1980  1      4      2      0      1      -1     -1     1      0      0      0      0      0      0      0      0
      170.1934565  0      0      0      170.1934565  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      170.1934565  0      0      0      170.1934565  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
1981  1      4      2      0      1      -1     -1     2      0      0      0      0      0      0      0      0      0
      0      0      0      5944.618595  5944.618595  0      0      5944.618595  0      0      0      0      0      0      0
```

```
      0      0      5944.618595  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      5944.618595  5944.618595  0      0      5944.618595  0
      0      0      0      0      0      0      0      5944.618595  0      0      0      0      0      0      0      0
      0
1982  1      4      2      0      1      -1     -1     3      0      0      0      0      0      33.20708887  1714.70827
      0      3429.416539  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      33.20708887  1714.70827   0      3429.416539  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
1983  1      4      2      0      1      -1     -1     2      0      0      0      0      3709.811116  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      3709.811116  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
1985  1      4      2      0      1      -1     -1     5      0      0      0      0      0      0      0      0
      916.5414052  887.0084044  916.5414052  1803.54981   911.666185   0      1828.20759   0      887.0084044
      1803.54981   0      911.666185   0      911.666185   0      0      0      0      0      911.666185   0      0
      0      0      0      0      911.666185   0      0      0      0      0      0      0      0      916.5414052
      887.0084044  916.5414052  1803.54981   911.666185   0      1828.20759   0      887.0084044  1803.54981   0
      911.666185   0      911.666185   0      0      0      0      0      911.666185   0      0      0      0      0
      0      911.666185
2002  1      4      2      0      1      -1     -1     4      0      0      0      0      11.31386667  33.9416
      11.31386667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.31386667  33.9416      11.31386667  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0

#     2015   OR     non-trawl    fleet  (n=10)
1997  1      5      1      0      1      -1     -1     10     0      0      0      0      0      71.92755646  729.8471704
      364.9235852  364.9235852  819.5558473  819.5558473  2919.388681  1328.334545  89.7086769   909.2645242
      179.4173538  723.7582928  269.1260307  179.4173538  161.6362334  454.6322621  179.4173538  0      89.7086769
      89.7086769   0      89.7086769   0      0      0      0      0      0      0      179.4173538  0      0      0
      0      0      71.92755646  729.8471704  364.9235852  364.9235852  819.5558473  819.5558473  2919.388681
      1328.334545  89.7086769   909.2645242  179.4173538  723.7582928  269.1260307  179.4173538  161.6362334
      454.6322621  179.4173538  0      89.7086769   89.7086769   0      89.7086769   0      0      0      0      0
      0      0      179.4173538
1998  1      5      1      0      1      -1     -1     7      0      0      0      0      0      1005.256642  2010.513284
      3287.984367  3565.180957  1005.256642  511.9682357  784.1826765  0      0      0      0      0      0      0
      0      239.7537949  0      0      0      0      239.7537949  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      1005.256642  2010.513284  3287.984367  3565.180957  1005.256642
      511.9682357  784.1826765  0      0      0      0      0      0      0      0      239.7537949  0      0      0
      0      239.7537949  0      0      0      0      0      0      0      0      0
2000  1      5      1      0      1      -1     -1     15     0      0      0      0      0      41.89482651  237.1500014
      257.8788433  677.5720891  430.4209679  340.5047511  133.3581089  237.1500014  85.98783836  41.89482651  0
      0      51.89594626  45.25675703  0      0      0      40.73108133  0      0      40.73108133  0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      41.89482651  237.1500014  257.8788433
      677.5720891  430.4209679  340.5047511  133.3581089  237.1500014  85.98783836  41.89482651  0      0
      51.89594626  45.25675703  0      0      0      40.73108133  0      0      40.73108133  0      0      0      0
      0      0      0      0      0
2001  1      5      1      0      1      -1     -1     7      0      0      0      0      138.3028111  111.668871
      37.222957    113.6855947  111.668871   113.6855947  150.9085517  39.23968067  37.222957    0      37.222957
      39.23968067  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      138.3028111  111.668871   37.222957    113.6855947
      111.668871   113.6855947  150.9085517  39.23968067  37.222957    0      37.222957    39.23968067  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2002  1      5      1      0      1      -1     -1     1      0      0      0      0      0      0      0      91.3296701
      0      0      91.3296701   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      91.3296701   0      0      91.3296701   0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
1997  1      5      2      0      1      -1     -1     12     0      0      0      0      0      71.92755646  963.4109602
      2261.469068  1094.770756  3733.658726  1238.625868  2423.105301  1184.479432  364.9235852  0      0
      179.4173538  0      179.4173538  0      0      0      0      0      0      0      0      0      0      0      0
      0      89.7086769   0      627.9607383  0      0      0      0      0      71.92755646  963.4109602  2261.469068
      1094.770756  3733.658726  1238.625868  2423.105301  1184.479432  364.9235852  0      0      179.4173538  0
      179.4173538  0      0      0      0      0      0      0      0      0      0      0      0      0      89.7086769
      0      627.9607383
1998  1      5      2      0      1      -1     -1     13     0      0      0      0      309.6572354  928.9717063
      1277.471083  3521.356667  1263.690266  4116.926023  789.1648252  816.6433223  1587.128318  3230.379261
      544.4288816  239.7537949  1789.439319  239.7537949  0      239.7537949  0      821.6254711  719.2613847
      239.7537949  0      0      239.7537949  0      239.7537949  0      0      0      0      0      239.7537949  0
      0      0      0      309.6572354  928.9717063  1277.471083  3521.356667  1263.690266  4116.926023  789.1648252
      816.6433223  1587.128318  3230.379261  544.4288816  239.7537949  1789.439319  239.7537949  0      239.7537949
      0      821.6254711  719.2613847  239.7537949  0      0      239.7537949  0      239.7537949  0      0      0
      0      0      239.7537949
2000  1      5      2      0      1      -1     -1     15     0      0      0      0      0      134.5218541  135.6855993
      290.2096929  664.0797338  838.7353719  241.6756771  186.4178004  144.5229739  83.78965302  51.89594626
      51.89594626  0      0      51.89594626  45.25675703  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      134.5218541  135.6855993  290.2096929
      664.0797338  838.7353719  241.6756771  186.4178004  144.5229739  83.78965302  51.89594626  51.89594626  0
      0      51.89594626  45.25675703  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
2001  1      5      2      0      1      -1     -1     6      0      0      0      0      93.03053578  47.76476129  0
      152.9252753  113.6855947  76.46263767  37.222957    0      74.44591399  0      37.222957    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      93.03053578  47.76476129  0      152.9252753  113.6855947  76.46263767  37.222957
      0      74.44591399  0      37.222957    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
2002  1      5      2      0      1      -1     -1     2      0      0      0      0      0      0      0      91.3296701
      0      91.3296701   91.3296701   0      0      0      91.3296701   0      0      0      0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      91.3296701   0      91.3296701   91.3296701   0      0      0      91.3296701   0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
# 2015 OR non-trawl fleet, SURFACE READS (n=2)
1978  1      5      1      0      4      -1     -1     7      0      0      0      0      1327.655597  663.8277987
      663.8277987  663.8277987  3319.138993  5310.62239   5974.450188  4646.794591  1327.655597  0      1327.655597
      663.8277987  0      0      663.8277987  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      1327.655597  663.8277987  663.8277987  663.8277987
      3319.138993  5310.62239   5974.450188  4646.794591  1327.655597  0      1327.655597  663.8277987  0      0
      663.8277987  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
1978  1      5      2      0      4      -1     -1     7      0      0      0      0      0      0      0      663.8277987
      2655.311195  3982.966792  4646.794591  2655.311195  3319.138993  2655.311195  1991.483396  3982.966792
      3982.966792  1991.483396  2655.311195  4646.794591  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      663.8277987  2655.311195
      3982.966792  4646.794591  2655.311195  3319.138993  2655.311195  1991.483396  3982.966792  3982.966792
      1991.483396  2655.311195  4646.794591  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
# 2015 OR non-trawl fleet, SURFACE READS (n=2)
#1978 1      5      1      0      8      -1     -1     7      0      0      0      0      1327.655597  663.8277987
      663.8277987  663.8277987  3319.138993  5310.62239   5974.450188  4646.794591  1327.655597  0      2655.311194
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1327.655597  663.8277987  663.8277987  663.8277987  3319.138993
      5310.62239   5974.450188  4646.794591  1327.655597  0      2655.311194  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1978 1      5      2      0      8      -1     -1     7      0      0      0      0      0      0      0      663.8277987
      2655.311195  3982.966792  4646.794591  2655.311195  3319.138993  2655.311195  19251.00616  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      663.8277987  2655.311195  3982.966792  4646.794591  2655.311195
      3319.138993  2655.311195  19251.00616  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0

#     2015   WA     non-trawl    fleet  (n=12)
2002  1      6      1      0      1      -1     -1     2      0      0      0      0      0      0      171.7505274  0
      0      171.7505274  0      0      171.7505274  0      171.7505274  171.7505274  171.7505274  0      0      0
      0      0      171.7505274  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      171.7505274  0      0      171.7505274  0      0      171.7505274  0
      171.7505274  171.7505274  171.7505274  0      0      0      0      0      171.7505274  0      0      0      0
      0      0      0      0      0      0      0      0
2004  1      6      1      0      1      -1     -1     5      0      0      0      0      0      0      0      0
      42.11192113  42.11192113  84.22384225  0      126.3357634  84.22384225  42.11192113  0      0      0      0
      42.11192113  0      0      0      42.11192113  0      0      0      0      0      42.11192113  42.11192113  0
      0      0      0      0      0      0      0      0      0      0      0      42.11192113  42.11192113  84.22384225
```

```
      0      126.3357634  84.22384225  42.11192113  0      0      0      0      42.11192113  0      0      0
      42.11192113  0      0      0      0      0      42.11192113  42.11192113  0      0      0      0
2006  1      6      1      0      2      -1     -1     4      0      0      0      0      0      0      0      0
      0      0      16.87739434  25.3160915   33.75478867  8.438697168  8.438697168  33.75478867  16.87739434
      25.3160915   8.438697168  0      0      0      0      0      0      0      0      8.438697168  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      16.87739434
      25.3160915   33.75478867  8.438697168  8.438697168  33.75478867  16.87739434  25.3160915   8.438697168  0
      0      0      0      0      0      0      0      8.438697168  0      0      0      0      0      0
2007  1      6      1      0      2      -1     -1     2      0      0      0      0      0      0      0      0      0
      0      0      15.72183182  0      15.72183182  0      0      0      0      0      31.44366364  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      15.72183182  0      15.72183182  0      0      0      0      0
      31.44366364  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2010  1      6      1      0      2      -1     -1     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      500    0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      500    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2013  1      6      1      0      2      -1     -1     2      0      0      0      0      0      0      0      0      0
      123.4194083  0      123.4194083  123.4194083  0      123.4194083  0      0      123.4194083  0      0      0
      0      123.4194083  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      123.4194083  0      123.4194083  123.4194083  0      123.4194083
      0      0      123.4194083  0      0      0      0      123.4194083  0      0      0      0      0      0      0
      0      0      0      0      0
2002  1      6      2      0      1      -1     -1     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      171.7505274  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      171.7505274  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
2004  1      6      2      0      1      -1     -1     3      0      0      0      0      0      0      42.11192113  0
      42.11192113  42.11192113  0      42.11192113  0      84.22384225  0      0      0      0      0      0
      42.11192113  0      0      0      0      0      0      0      42.11192113  0      0      0      0      0      0
      0      0      0      0      0      0      42.11192113  0      42.11192113  42.11192113  0      42.11192113  0
      84.22384225  0      0      0      0      0      0      42.11192113  0      0      0      0      0      0      0
      42.11192113  0      0      0      0      0      0
2006  1      6      2      0      2      -1     -1     3      0      0      0      0      0      0      0      0      0
      0      0      0      8.438697168  8.438697168  8.438697168  0      8.438697168  16.87739434  16.87739434
      8.438697168  0      0      8.438697168  0      8.438697168  8.438697168  0      0      0      0      0      0
      0      8.438697168  0      0      0      0      0      0      0      0      0      0      0
      8.438697168  8.438697168  8.438697168  0      8.438697168  16.87739434  16.87739434  8.438697168  0      0
      8.438697168  0      8.438697168  8.438697168  0      0      0      0      0      0      0      8.438697168  0
2007  1      6      2      0      2      -1     -1     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      15.72183182  15.72183182  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0     0     0     0     0     0     0     0     0     15.72183182  15.72183182  0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0
2010  1     6     2     0     2     -1    -1    1     0     0     0     0     0     0     0     0     0
      0     500   0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     500   0     0     0     0     0     0     0     0
      0     0     500   0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     500
2013  1     6     2     0     2     -1    -1    2     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     123.4194083  0     0     0     0     0     123.4194083  123.4194083
      0     123.4194083  0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     123.4194083  0     0     0     0
      0     123.4194083  123.4194083  0     123.4194083  0     0     0     0     0     0     0     0     0
      0

# 2015 WA Rec MAAL (n=16)
2005  1     9     1     0     2     -1    -1    34    0     0     0     2     12    8     1     2     2
      3     2     1     0     0     0     0     0     1     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     2     12    8     1     2
      2     3     2     1     0     0     0     0     0     1     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2006  1     9     1     0     2     -1    -1    4     0     0     0     0     0     3     1     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     3     1     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2007  1     9     1     0     2     -1    -1    4     0     0     0     0     2     0     2     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     2     0     2     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2008  1     9     1     0     2     -1    -1    6     0     0     0     1     1     3     1     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     1     1     3     1     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2009  1     9     1     0     2     -1    -1    5     0     0     0     0     1     1     2     1     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     1     1     2     1
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2010  1     9     1     0     2     -1    -1    8     0     0     0     0     4     1     3     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     4     1     3     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
```

2012	1	9	1	0	2	-1	-1	2	0	0	0	0	0	0	0	0	1
	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	9	1	0	2	-1	-1	5	0	0	0	0	0	0	3	0	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	9	2	0	2	-1	-1	7	0	0	0	1	0	0	0	4	0
	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	9	2	0	2	-1	-1	3	0	0	0	1	1	1	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	9	2	0	2	-1	-1	3	0	0	0	0	2	1	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	9	2	0	2	-1	-1	3	0	0	0	0	0	0	2	1	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	9	2	0	2	-1	-1	3	0	0	0	0	0	1	2	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	9	2	0	2	-1	-1	1	0	0	0	0	0	0	0	0	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	9	2	0	2	-1	-1	5	0	0	0	0	0	1	1	1	0
	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	0	0	0	0	0	0	0	0	0	0							

```
2014  1     9     2     0     2     -1    -1    3     0     0     0     0     0     0     3     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     3     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0

##    2015 ASHOP -- CA (n=2)
2008  1     10    2     0     1     -1    -1    1     0     0     0     0     0     0     0     0
      2.988290583  0     2.452220708  0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     2.988290583  0     2.452220708  0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0
2010  1     10    2     0     1     -1    -1    1     0     0     0     0     0     0     0     0
      6.202733259  0     0     3.254827237  0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     6.202733259  0     0     3.254827237  0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0
##    2015 ASHOP -- OR (n=21)
2003  1     11    1     0     1     -1    -1    18    0     0     0     0     0     0     0.23717702
      0.091108494  0.523565917  0.27375264   0.102659613  0.124609506  0.12482435   0.133087249  0.313531656  0
      0     0     0.167970804  0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0.23717702   0.091108494  0.523565917  0.27375264
      0.102659613  0.124609506  0.12482435   0.133087249  0.313531656  0     0     0     0.167970804  0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0
2004  1     11    1     0     1     -1    -1    54    0     0     0     0     0     0     0.060133383
      0.565300195  0.435985069  1.287645716  16.39231869  0.706776748  1.843396914  15.85790883  15.85104678
      15.65997371  0.128780273  0.422796855  0.262512106  0.143300313  0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0.060133383
      0.565300195  0.435985069  1.287645716  16.39231869  0.706776748  1.843396914  15.85790883  15.85104678
      15.65997371  0.128780273  0.422796855  0.262512106  0.143300313  0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0
2005  1     11    1     0     1     -1    -1    46    0     0     0     0     0     0.096640053  0.16502123
      0.494951492  1.224691632  0.909073694  0.320728915  0.496662455  0.451961375  0.630254625  0.199268175
      0.09584165   0     0     0.085510461  0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0.096640053  0.16502123   0.494951492
      1.224691632  0.909073694  0.320728915  0.496662455  0.451961375  0.630254625  0.199268175  0.09584165   0
      0     0.085510461  0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0
2006  1     11    1     0     1     -1    -1    36    0     0     0     0     0     0.111134463  0.054860638
      0.173528011  0.655768983  0.684942913  0.683754549  0.572971123  0.478932516  0.334102616  0.100230938
      0.116882032  0     0     0.156723559  0     0     0     0.081109952  0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0.111134463  0.054860638  0.173528011
      0.655768983  0.684942913  0.683754549  0.572971123  0.478932516  0.334102616  0.100230938  0.116882032  0
      0     0.156723559  0     0     0     0.081109952  0     0     0     0     0     0     0     0     0
      0     0     0
```

2007 1 11 1 0 1 -1 -1 112 0 0 0 0 0 0 0.130415859
0.275213387 1.568298205 2.742580587 1.953000586 1.945255631 1.684304461 0.786757685 0.700216835
0.414700869 0.355670569 0.292258958 0.429459208 0.178046585 0.566315425 0 0 0.189159585 0
0 0 0 0 0.071263119 0 0 0 0 0.142136329 0 0 0 0 0
0 0.130415859 0.275213387 1.568298205 2.742580587 1.953000586 1.945255631 1.684304461 0.786757685
0.700216835 0.414700869 0.355670569 0.292258958 0.429459208 0.178046585 0.566315425 0 0
0.189159585 0 0 0 0 0 0.071263119 0 0 0 0 0.142136329
2008 1 11 1 0 1 -1 -1 62 0 0 0 0 0 0 0 4.916296912
15.81387551 30.03779994 30.47652231 13.24834276 6.843615686 6.385573785 15.73122861 12.10417751
10.76456754 7.132718501 2.127249301 3.695857146 3.743547124 3.053933445 1.006365901 1.969433139
2.116710566 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 4.916296912 15.81387551 30.03779994 30.47652231 13.24834276 6.843615686 6.385573785
15.73122861 12.10417751 10.76456754 7.132718501 2.127249301 3.695857146 3.743547124 3.053933445
1.006365901 1.969433139 2.116710566 0 0 0 0 0 0 0 0 0 0
2009 1 11 1 0 1 -1 -1 1 0 0 0 0 0 0 0 0 0
0 0 3.914963184 1.949712834 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 3.914963184 1.949712834 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0
2010 1 11 1 0 1 -1 -1 1 0 0 0 0 0 0 0 0 0
0 5.180650341 1.025136646 1.025136646 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 5.180650341 1.025136646 1.025136646 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2012 1 11 1 0 1 -1 -1 14 0 0 0 0 0 0 0 5.088878707
1.661989634 8.294200933 0 0 1.883329869 2.066438713 6.358676476 1.958278009 0 0 0
0 0 1.779613277 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 5.088878707 1.661989634 8.294200933 0 0 1.883329869
2.066438713 6.358676476 1.958278009 0 0 0 0 0 1.779613277 0 0 0 0
0 0 0 0 0 0 0 0 0
2013 1 11 1 0 1 -1 -1 8 0 0 0 0 0 0 0 0 0
5.708790149 0 0 4.001904064 3.843054613 1.991824735 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 1.680668054 0 1.738600675 0 0 0 0
0 0 0 0 0 0 0 5.708790149 0 0 4.001904064 3.843054613 1.991824735
0 0 0 0 0 0 0 0 0 0 0 0 0 0 1.680668054
0 1.738600675 0 0
2003 1 11 2 0 1 -1 -1 20 0 0 0 0 0 0.082202488 0.179639201
0.405642866 0.366609176 0.577775821 0.325605237 0 0.240290398 0.082202488 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0.082202488 0.179639201 0.405642866 0.366609176 0.577775821 0.325605237
0 0.240290398 0.082202488 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0
2004 1 11 2 0 1 -1 -1 35 0 0 0 0 0 0.03131947 0.380976152
0.440229713 1.001000821 0.625585871 0.609610342 0.33324277 0.577829877 15.70476695 0 0.128398498
0 0.041901453 0.129175415 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0.03131947 0.380976152 0.440229713 1.001000821
0.625585871 0.609610342 0.33324277 0.577829877 15.70476695 0 0.128398498 0 0.041901453
0.129175415 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
2005 1 11 2 0 1 -1 -1 43 0 0 0 0 0 0.06667952 0.169790853
0.758973341 0.725122033 0.836078671 0.313407892 0.927724441 0.15032743 0.225759766 0.192799451
0.412146584 0.088352706 0.067200414 0 0 0.101489709 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0.06667952 0.169790853
0.758973341 0.725122033 0.836078671 0.313407892 0.927724441 0.15032743 0.225759766 0.192799451
0.412146584 0.088352706 0.067200414 0 0 0.101489709 0 0 0 0 0 0 0
0 0 0 0 0 0 0
2006 1 11 2 0 1 -1 -1 35 0 0 0 0 0 0 0.044211899
0.269943334 0.512892515 1.019093533 0.48184312 0.525943006 0.406284146 0.267738784 0 0.26502377
0.285949328 0.22125495 0 0 0.116543244 0 0.076633958 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0.044211899 0.269943334
0.512892515 1.019093533 0.48184312 0.525943006 0.406284146 0.267738784 0 0.26502377 0.285949328
0.22125495 0 0 0.116543244 0 0.076633958 0 0 0 0 0 0 0 0
0 0 0 0
2007 1 11 2 0 1 -1 -1 77 0 0 0 0 0 0 0.541495668
0.414291507 1.337655293 2.044197059 1.5122574 0.914165358 0.47120396 0.879664742 0.807387531
0.293234223 0.425240561 0 0.658928094 0.130299573 0.102854401 0 0 0 0 0 0
0 0 0 0 0 0 0.099817689 0 0 0 0 0 0 0 0.541495668
0.414291507 1.337655293 2.044197059 1.5122574 0.914165358 0.47120396 0.879664742 0.807387531
0.293234223 0.425240561 0 0.658928094 0.130299573 0.102854401 0 0 0 0 0 0
0 0 0 0 0 0 0.099817689 0
2008 1 11 2 0 1 -1 -1 35 0 0 0 0 0 0 0 1.486325023
11.16527897 19.08653578 19.27140359 16.44969956 8.951534713 1.870808406 4.067770491 3.092188574 0
5.65803191 0 4.184740361 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 1.486325023 11.16527897 19.08653578
19.27140359 16.44969956 8.951534713 1.870808406 4.067770491 3.092188574 0 5.65803191 0
4.184740361 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2009 1 11 2 0 1 -1 -1 1 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1.916184512 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 1.916184512 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0
2010 1 11 2 0 1 -1 -1 1 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 2.310571866 0 0 0 0.992991064 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 2.310571866 0 0 0 0.992991064 0
0 0 0 0 0 0 0 0 0 0 0 0 0
2011 1 11 2 0 1 -1 -1 1 0 0 0 0 0 0 2.09763095 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

```
      2.09763095   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
2012  1      11     2      0      1      -1     -1     16     0      0      0      0      0      0      1.852541854
      4.904806256  3.860302599  6.462454096  4.793145981  0      0      6.115792619  2.166727524  0      0      0
      2.267373724  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1.852541854  4.904806256  3.860302599  6.462454096  4.793145981
      0      0      6.115792619  2.166727524  0      0      0      2.267373724  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2013  1      11     2      0      1      -1     -1     10     0      0      0      0      0      0      0      1.83150824
      0      0      3.928460655  1.973287432  5.995034409  2.074458045  0      2.038888175  0      0      2.367635018
      2.074458045  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1.83150824   0      0      3.928460655  1.973287432  5.995034409
      2.074458045  0      2.038888175  0      0      2.367635018  2.074458045  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
##    2015 ASHOP -- CA (n=22)
2003  1      12     1      0      1      -1     -1     28     0      0      0      0      0      0      0      0.266434335
      0.231733665  0.346303048  0.344703723  1.126121504  0.619136167  1.704595773  0.87622031   0.372773218
      0.271471344  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0.266434335  0.231733665  0.346303048
      0.344703723  1.126121504  0.619136167  1.704595773  0.87622031   0.372773218  0.271471344  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2004  1      12     1      0      1      -1     -1     18     0      0      0      0      0      0      0      0
      0.108357998  0.160764758  0.610164061  0      0      0.279727951  0      0.653292668  1.16847083   0
      0.363740151  0      0.441573263  0      0.363740151  0      0      0.363740151  0      0      0      0      0
      0.168670427  0      0      0.201430402  0      0      0      0      0      0      0      0      0.108357998
      0.160764758  0.610164061  0      0      0.279727951  0      0.653292668  1.16847083   0      0.363740151  0
      0.441573263  0      0.363740151  0      0      0.363740151  0      0      0      0      0      0.168670427  0
      0      0.201430402
2005  1      12     1      0      1      -1     -1     54     0      0      0      0      0      0      0.072836519
      2.703060864  0.535230276  0.365943759  1.117070474  1.265072432  1.264111993  0.127949326  0.092435338
      0.375116574  0.342725168  0.105486716  0      0.132029759  0.109557356  0      0.32629206   0      0.126733302
      0.2175275    0      0      0      0      0      0      0      0      0.073009644  0      0      0      0      0
      0      0.072836519  2.703060864  0.535230276  0.365943759  1.117070474  1.265072432  1.264111993  0.127949326
      0.092435338  0.375116574  0.342725168  0.105486716  0      0.132029759  0.109557356  0      0.32629206   0
      0.126733302  0.2175275    0      0      0      0      0      0      0      0      0.073009644
2006  1      12     1      0      1      -1     -1     56     0      0      0      0.101681127  0      0.159655741
      0.300303956  0.291362383  0.521105508  0.369919272  0.536484585  1.074323597  0.366156416  0.398212854
      0.192300972  0.627363923  0.076689397  0.082031774  0.186669304  0.338514348  0.096133086  0.433724434
      0.334675685  0.082031774  0.082031774  0      0      0      0      0      0      0      0      0      0      0
      0      0      0.101681127  0      0.159655741  0.300303956  0.291362383  0.521105508  0.369919272  0.536484585
      1.074323597  0.366156416  0.398212854  0.192300972  0.627363923  0.076689397  0.082031774  0.186669304
      0.338514348  0.096133086  0.433724434  0.334675685  0.082031774  0.082031774  0      0      0      0      0
      0      0      0      0      0
2007  1      12     1      0      1      -1     -1     36     0      0      0      0.055462586  0.110925172  0.178147826
      0      1.127200627  0.274097931  0.672352603  0.401759225  0.096009039  0.865633807  0.117834455  0.155318908
```

0.274874043 0.080238323 0.152827947 0.085874751 0.106984431 0 0.056609918 0 0.223451322 0
0.102991253 0 0 0 0 0 0 0 0 0.234926693 0 0 0 0.055462586
0.110925172 0.178147826 0 1.127200627 0.274097931 0.672352603 0.401759225 0.096009039 0.865633807
0.117834455 0.155318908 0.274874043 0.080238323 0.152827947 0.085874751 0.106984431 0 0.056609918
0 0.223451322 0 0.102991253 0 0 0 0 0 0 0 0 0.234926693
2008 1 12 1 0 1 -1 -1 128 0 0 0 0 8.102435571 2.368430094
8.431836137 11.66021427 0 27.0680479 30.87000861 26.78010364 35.36188248 47.12898853 53.17069189
53.32410491 20.64553592 34.31446143 36.21903688 20.91366645 27.00478992 17.9173659 10.202751
9.695682094 15.80935398 7.566745084 7.104726046 0 3.76412598 0 0 2.557159256 0 0
1.803072239 0 0 0 0 8.102435571 2.368430094 8.431836137 11.66021427 0 27.0680479
30.87000861 26.78010364 35.36188248 47.12898853 53.17069189 53.32410491 20.64553592 34.31446143
36.21903688 20.91366645 27.00478992 17.9173659 10.202751 9.695682094 15.80935398 7.566745084
7.104726046 0 3.76412598 0 0 2.557159256 0 0 1.803072239
2009 1 12 1 0 1 -1 -1 111 0 0 0 0 0 0 0 44.80023119
13.75507692 22.29755196 13.30512293 51.0059989 94.90853762 105.0476527 26.19996182 25.47490901
103.0748029 23.33531376 5.976527143 133.5216701 13.26723279 9.667246294 48.22826081 4.047524529
44.93493992 0 5.949036218 2.431900717 1.634894549 2.293775198 2.643302924 0 5.921890429 0
2.293775198 0 0 0 0 0 0 0 44.80023119 13.75507692 22.29755196 13.30512293
51.0059989 94.90853762 105.0476527 26.19996182 25.47490901 103.0748029 23.33531376 5.976527143
133.5216701 13.26723279 9.667246294 48.22826081 4.047524529 44.93493992 0 5.949036218 2.431900717
1.634894549 2.293775198 2.643302924 0 5.921890429 0 2.293775198
2010 1 12 1 0 1 -1 -1 78 0 0 0 0 0 0 0 3.768869712
7.955397143 28.05597321 12.80554392 15.44807094 26.0511457 22.76268267 12.09681666 17.26935705
4.06857825 19.15175578 8.744892217 13.28057189 5.287395958 5.233921226 5.752430261 1.651566781
4.989247718 5.708869627 16.49900736 0 3.963696278 2.028947177 0 0 0 0 0 0
0 0 0 0 0 0 3.768869712 7.955397143 28.05597321 12.80554392 15.44807094
26.0511457 22.76268267 12.09681666 17.26935705 4.06857825 19.15175578 8.744892217 13.28057189
5.287395958 5.233921226 5.752430261 1.651566781 4.989247718 5.708869627 16.49900736 0 3.963696278
2.028947177 0 0 0 0 0
2011 1 12 1 0 1 -1 -1 71 0 0 0 0 0 0 1.844430867
4.064730637 11.63682222 19.28565422 11.59032129 22.24705326 14.93082958 16.04290994 17.5924554
22.56834617 12.9406415 40.23373992 9.780549357 8.804134007 2.897009967 1.865346121 7.593960632
11.55228863 7.137629483 7.236947303 5.392516436 0 0 2.897009967 0 0 0 0
1.701058487 0 0 0 0 0 0 1.844430867 4.064730637 11.63682222 19.28565422
11.59032129 22.24705326 14.93082958 16.04290994 17.5924554 22.56834617 12.9406415 40.23373992
9.780549357 8.804134007 2.897009967 1.865346121 7.593960632 11.55228863 7.137629483 7.236947303
5.392516436 0 0 2.897009967 0 0 0 0 1.701058487
2012 1 12 1 0 1 -1 -1 29 0 0 0 0 0 1.96884671 0 0
6.630876209 16.87775325 5.83798492 7.959176492 6.436455864 5.244759202 3.95607195 1.009737098
4.494211064 3.743710564 5.936572056 6.004925158 1.974036027 0 0 3.330840491 0 0 0
0 1.781370252 0 0 0 0 0 2.296337595 0 0 0 0 0 1.96884671
0 0 6.630876209 16.87775325 5.83798492 7.959176492 6.436455864 5.244759202 3.95607195
1.009737098 4.494211064 3.743710564 5.936572056 6.004925158 1.974036027 0 0 3.330840491 0
0 0 0 1.781370252 0 0 0 0 0 2.296337595

```
2013  1      12     1      0      1      -1     -1     40     0      0      0      0      0      2.07808678   2.07808678
      0      4.316981809  16.86688701  0      13.88623091  31.3732003   0      3.577347597  9.318539706  9.980832337
      19.94676346  7.310207593  22.52771972  2.150141654  1.002969773  0      1.009804973  0      2.20924175
      4.190342102  0      0      0      2.761957165  0      0      0      0      0      0      0      0
      2.07808678   2.07808678   0      4.316981809  16.86688701  0      13.88623091  31.3732003   0      3.577347597
      9.318539706  9.980832337  19.94676346  7.310207593  22.52771972  2.150141654  1.002969773  0      1.009804973
      0      2.20924175   4.190342102  0      0      0      2.761957165  0      0      0      0
2003  1      12     2      0      1      -1     -1     44     0      0      0      0      0      0      0.323747032
      0.491167558  0.098812883  0.846354333  1.727159822  0.734389376  0.832843882  0.876289971  0.261409221  0
      0.713586799  0.108727694  0.099361042  0.124537891  0.10623587   0      0      0      0      0      0      0
      0      0      0      0      0      0      0.611287606  0      0      0      0      0      0      0.323747032
      0.491167558  0.098812883  0.846354333  1.727159822  0.734389376  0.832843882  0.876289971  0.261409221  0
      0.713586799  0.108727694  0.099361042  0.124537891  0.10623587   0      0      0      0      0      0      0
      0      0      0      0      0      0      0.611287606
2004  1      12     2      0      1      -1     -1     22     0      0      0      0      0      0      0.097192328
      0.108357998  0.309590426  0.309905588  0.119777876  0.818987814  0.150726485  0.363740151  1.022609572
      1.324971814  3.246635568  0.337340853  0      0      0.065239047  0      0      0      0.363740151  0      0
      0      0      0.363740151  0      0      0      0      0.128411923  0      0      0      0      0      0
      0.097192328  0.108357998  0.309590426  0.309905588  0.119777876  0.818987814  0.150726485  0.363740151
      1.022609572  1.324971814  3.246635568  0.337340853  0      0      0.065239047  0      0      0      0.363740151
      0      0      0      0      0.363740151  0      0      0      0      0.128411923
2005  1      12     2      0      1      -1     -1     54     0      0      0      0      0      0.09151234   0.138884027
      0.248081127  0.431581961  0.624988217  1.31192069   0.938254015  1.396840169  0.878381494  0.164101091
      0.19784639   0.48785746   0.092435338  0.109390653  0      0      0.132976713  0      0.091467706  0
      0.141088394  0      0      0      0.112040783  0      0      0      0      0      0      0      0      0
      0.09151234   0.138884027  0.248081127  0.431581961  0.624988217  1.31192069   0.938254015  1.396840169
      0.878381494  0.164101091  0.19784639   0.48785746   0.092435338  0.109390653  0      0      0.132976713  0
      0.091467706  0      0.141088394  0      0      0      0.112040783  0      0      0      0      0
2006  1      12     2      0      1      -1     -1     35     0      0      0.086361349  0.043344999  0.172722698
      0.073916244  0      0.141387733  0.507842155  0.473557557  0.23966171   0.403505497  0.804187259  0.202848204
      0.371450944  0.658494104  0      0.161048919  0      0      0      0      0.143796896  0.088318657  0      0
      0      0      0      0      0      0      0      0      0      0      0.086361349  0.043344999  0.172722698
      0.073916244  0      0.141387733  0.507842155  0.473557557  0.23966171   0.403505497  0.804187259  0.202848204
      0.371450944  0.658494104  0      0.161048919  0      0      0      0      0.143796896  0.088318657  0      0
      0      0      0      0      0      0      0      0      0
2007  1      12     2      0      1      -1     -1     35     0      0      0      0.025489579  0.114685314  0.055462586
      0.206681332  0.766891675  0.294205534  0.286796231  0.628115078  0.666252678  0.189068413  0.161529033
      0.335210735  0.172830178  0.165443036  0.159384057  0.086449164  0.051540517  0      0      0      0.111734385
      0.102991253  0.191165654  0      0      0.084780115  0.132618873  0      0      0      0      0      0      0
      0      0.025489579  0.114685314  0.055462586  0.206681332  0.766891675  0.294205534  0.286796231  0.628115078
      0.666252678  0.189068413  0.161529033  0.335210735  0.172830178  0.165443036  0.159384057  0.086449164
      0.051540517  0      0      0      0.111734385  0.102991253  0.191165654  0      0      0.084780115  0.132618873
      0      0      0      0      0
2008  1      12     2      0      1      -1     -1     70     0      0      0      0      4.477516078  2.082618323
      1.941273868  12.33816378  14.57089811  11.44656739  11.43501115  17.16557878  48.77903824  33.73678756
```

```
      27.71127893  32.049923    11.51387706  13.85762155  27.11468732  22.5590234   4.396466492  19.44684103
      7.372339501  8.323083058  0      6.331268792  3.230801941  0      1.006365901  1.991814266  0      2.557090611
      0      0      16.05234911  0      0      0      0      4.477516078  2.082618323  1.941273868  12.33816378
      14.57089811  11.44656739  11.43501115  17.16557878  48.77903824  33.73678756  27.71127893  32.049923
      11.51387706  13.85762155  27.11468732  22.5590234   4.396466492  19.44684103  7.372339501  8.323083058  0
      6.331268792  3.230801941  0      1.006365901  1.991814266  0      2.557090611  0      0      16.05234911
2009  1      12     2      0      1      -1     -1     46     0      0      0      0      0      0      0      0
      11.7126295   10.32970033  7.632151404  52.63706309  9.302336066  42.6160326   15.05573382  15.96454741  0
      5.554153213  39.90421829  2.528991622  5.588190972  0      78.95968241  0      0      0      0      2.094343642
      0      1.919160878  0      0      0      0      7.450914912  0      0      0      0      0      0      0      0
      11.7126295   10.32970033  7.632151404  52.63706309  9.302336066  42.6160326   15.05573382  15.96454741  0
      5.554153213  39.90421829  2.528991622  5.588190972  0      78.95968241  0      0      0      0      2.094343642
      0      1.919160878  0      0      0      0      7.450914912
2010  1      12     2      0      1      -1     -1     77     0      0      0      0      0      2.032311597  0
      4.074210231  19.37988834  40.25583146  37.94770729  16.11200684  25.74846095  14.82771839  14.19775005
      13.71361533  37.71203023  0      1.947897045  5.185642625  5.773901364  0      1.905460764  18.79661135
      1.662138311  0      0      0      0      2.320565909  0      0      0      0      12.385466    0      0      0
      0      0      2.032311597  0      4.074210231  19.37988834  40.25583146  37.94770729  16.11200684  25.74846095
      14.82771839  14.19775005  13.71361533  37.71203023  0      1.947897045  5.185642625  5.773901364  0
      1.905460764  18.79661135  1.662138311  0      0      0      0      2.320565909  0      0      0      0
      12.385466
2011  1      12     2      0      1      -1     -1     63     0      0      0      0      0      0      1.844430867
      1.985932777  12.83445255  22.06158029  19.04660073  22.85028451  13.56064051  17.93011873  11.43243967
      7.812082722  6.929643214  1.964692854  6.929400096  11.37059468  4.768636026  20.81655207  4.264302851
      10.78503287  2.419871984  0      9.042521188  0      0      1.889023705  0      0      0      0      7.81238842
      0      0      0      0      0      0      1.844430867  1.985932777  12.83445255  22.06158029  19.04660073
      22.85028451  13.56064051  17.93011873  11.43243967  7.812082722  6.929643214  1.964692854  6.929400096
      11.37059468  4.768636026  20.81655207  4.264302851  10.78503287  2.419871984  0      9.042521188  0      0
      1.889023705  0      0      0      0      7.81238842
2012  1      12     2      0      1      -1     -1     22     0      0      0      0      0      0      0      4.041946492
      8.338002955  4.152341402  4.164089637  3.869686105  8.063404216  6.563036544  4.678984879  6.570869255  0
      2.137254802  0      2.416156628  2.137254802  0      1.839965379  0      0      3.768525038  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      4.041946492  8.338002955
      4.152341402  4.164089637  3.869686105  8.063404216  6.563036544  4.678984879  6.570869255  0      2.137254802
      0      2.416156628  2.137254802  0      1.839965379  0      0      3.768525038  0      0      0      0      0
      0      0      0      0
2013  1      12     2      0      1      -1     -1     22     0      0      0      0      0      0      0      25.23524338
      12.09964332  20.22703389  11.05448017  5.319750085  8.628087599  5.018566601  2.90269266   1.009804973  0
      5.727693384  5.135781623  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      25.23524338  12.09964332  20.22703389
      11.05448017  5.319750085  8.628087599  5.018566601  2.90269266   1.009804973  0      5.727693384  5.135781623
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0

# 2014 NWFSC CAAL -- CA (n=334)
```

2003	1	16	1	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	4	4	4	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	7	7	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	13	13	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	14	14	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	15	15	6	0	0	0	0	0	33.33333333	50		
	16.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33.33333333		50	16.66666667		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2003	1	16	1	0	1	16	16	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2003	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	1	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	4	4	2	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	5	5	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	6	6	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	10	10	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2004	1	16	1	0	1	11	11	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	12	12	8	0	0	0	12.5	62.5	12.5	12.5	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	12.5	62.5	12.5	12.5	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	13	13	6	0	0	0	0	83.33333333	0	16.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.33333333		
	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2004	1	16	1	0	1	14	14	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	15	15	4	0	0	0	0	0	0	50	25	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	25
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	16	16	4	0	0	0	0	0	25	25	0	25
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	0
	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	1	0	1	17	17	3	0	0	0	0	0	0	33.33333333		
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	16	1	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	4	4	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2005	1	16	1	0	1	5	5	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	6	6	7	0	0	14.28571429		85.71428571		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429		85.71428571	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	16	1	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	9	9	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	10	10	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	11	11	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	12	12	4	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	13	13	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	15	15	4	0	0	0	0	0	0	50	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2005	1	16	1	0	1	16	16	4	0	0	0	0	0	0	25	25	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	17	17	4	0	0	0	0	0	0	25	50	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	18	18	7	0	0	0	0	0	0	0	14.28571429	
	14.28571429		57.14285714		14.28571429		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	14.28571429		14.28571429		57.14285714		14.28571429		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
2005	1	16	1	0	1	19	19	3	0	0	0	0	0	0	0	0	
	66.66666667		0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	66.66666667		0	33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2005	1	16	1	0	1	20	20	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	1	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	0	33.33333333		0	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	33.33333333		0	33.33333333		33.33333333		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2005	1	16	1	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	3	3	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	4	4	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	5	5	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	10	10	0.485319512	0	0	0	0	100	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	12	12	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	13	13	3	0	0	0	0	33.33333333		66.66666667		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	66.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2006	1	16	1	0	1	14	14	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	15	15	4	0	0	0	0	0	0	75	0	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	16	16	10	0	0	0	0	0	0	40	30	0
	10	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	30

	0	10	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	17	17	5	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	18	18	9	0	0	0	0	0	0	0	44.44444444	
	44.44444444		11.11111111		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	44.44444444		44.44444444		11.11111111		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2006	1	16	1	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	75	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	75	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	1	0	1	21	21	5	0	0	0	0	0	0	0	0	0
	0	0	20	40	40	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	20	40	40	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	8	8	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	9	9	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	10	10	4	0	0	0	0	75	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	75	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	11	11	4	0	0	0	0	25	75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	12	12	6	0	0	0	0	33.33333333	33.33333333			
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	1	16	1	0	1	13	13	5	0	0	0	0	0	80	20	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	14	14	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	16	16	5	0	0	0	0	0	0	0	60	20
	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	17	17	2	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	18	18	7	0	0	0	0	0	0	0	14.28571429	
	42.85714286	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	14.28571429	42.85714286	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
2007	1	16	1	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	20	20	10	0	0	0	0	0	0	0	0	0
	20	40	20	10	0	0	10	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	40	20	10	0	0	10	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	1	0	1	21	21	7	0	0	0	0	0	0	0	0	
	14.28571429	0	0	14.28571429	28.57142857	0	0	0	14.28571429	28.57142857	0	0					

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	14.28571429	0	0	14.28571429	28.57142857	0	0	0			
	14.28571429	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0													
2007	1	16	1	0	1	22	22	7	0	0	0	0	0	0	0	0	0
	14.28571429	0	14.28571429	14.28571429	14.28571429	28.57142857	0	14.28571429	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	14.28571429	0	14.28571429	14.28571429	14.28571429					
	28.57142857	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
2007	1	16	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	10	10	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	11	11	4	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	12	12	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	13	13	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	15	15	4	0	0	0	0	0	0	25	25	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2008	1	16	1	0	1	16	16	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	1	0	1	18	18	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	1	1	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	2	2	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	3	3	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	4	4	2.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	5	5	3.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	6	6	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2009	1	16	1	0	1	8	8	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	9	9	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	12	12	10	0	0	0	0	0	10	30	60	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	30	60
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	13	13	5	0	0	0	0	0	0	60	40	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	40
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	14	14	4	0	0	0	0	0	25	50	0	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	15	15	6	0	0	0	0	16.66666667	0	0	50	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		
	0	0	50	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2009	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	18	18	1	0	0	0	0	0	0	0	0	
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	1	0	1	21	21	1	0	0	0	0	0	0	0	0	
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							

2010	1	16	1	0	1	2	2	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	1	0	1	3	3	14	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	1	0	1	12	12	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	1	0	1	14	14	2	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	1	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	1	0	1	16	16	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	1	1	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	2	2	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2011	1	16	1	0	1	4	4	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	5	5	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	8	8	2	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	14	14	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2012	1	16	1	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	13	13	2	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	14	14	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	16	16	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	19	19	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	1	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	3	3	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2013	1	16	1	0	1	4	4	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	5	5	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	7	7	5	0	0	0	80	20	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	80	20	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	8	8	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	9	9	3	0	0	0	0	66.66666667	33.33333333	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2013	1	16	1	0	1	10	10	5	0	0	0	0	60	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	60	40	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	11	11	5	0	0	0	0	20	80	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	80	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	15	15	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	17	17	10	0	0	0	0	0	0	10	0	10
	50	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
	10	50	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2013	1	16	1	0	1	18	18	5	0	0	0	0	0	0	0	40	20
	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	19	19	5	0	0	0	0	0	0	0	0	20
	0	20	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	20	0	0	60	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	50	0	0	25	0	0	0	0	0	0	0	0	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	25	0	0	0	0	0	0	0	0	25	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	66.66666667		0	0	0	0	0	0	
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667		0	0	0
	0	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0		
2013	1	16	1	0	1	22	22	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	33.33333333		33.33333333		0	0	0	
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		
	33.33333333		0	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0
	0																
2013	1	16	1	0	1	23	23	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	33.33333333		0	33.33333333		0	0
	0	0	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		0
	33.33333333		0	0	0	0	0	0	33.33333333		0	0	0	0	0	0	
2013	1	16	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	1	1	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	2	2	2.5	40	60	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	40	60	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	3	3	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	4	4	6	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	5	5	4	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	6	6	4	0	25	50	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	50	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	7	7	7	0	0	28.57142857	71.42857143	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	28.57142857	71.42857143		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2014	1	16	1	0	1	8	8	8	0	0	25	75	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	25	75	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	9	9	15	0	0	0	73.33333333	26.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	73.33333333			
	26.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	16	1	0	1	10	10	8	0	0	0	25	50	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	25	50	25	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	11	11	7	0	0	0	14.28571429	42.85714286	14.28571429			
	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	14.28571429	42.85714286	14.28571429	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2014	1	16	1	0	1	12	12	3	0	0	0	0	0	66.66666667	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	16	1	0	1	13	13	4	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	14	14	3	0	0	0	0	0	33.33333333	66.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	16	1	0	1	15	15	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	19	19	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	1	0	1	20	20	2	0	0	0	0	0	0	0	0	50
	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	1	1	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	2	2	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	3	3	11	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	4	4	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	6	6	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	7	7	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	12	12	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	13	13	3	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	15	15	6	0	0	0	0	0	0	33.33333333		
	33.33333333		16.66666667		0	16.66666667		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333		33.33333333		16.66666667		0	16.66666667		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2003	1	16	2	0	1	16	16	4	0	0	0	0	0	25	0	25	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	25
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	17	17	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	18	18	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	16	2	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	2	2	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	5	5	7	0	14.28571429		85.71428571		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429		85.71428571		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2004	1	16	2	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2004	1	16	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	9	9	3	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	10	10	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	11	11	4	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	12	12	7	0	0	0	14.28571429	57.14285714	28.57142857			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429		
	57.14285714	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2004	1	16	2	0	1	13	13	10	0	0	0	0	40	50	10	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	40	50	10	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	14	14	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	15	15	5	0	0	0	0	0	0	20	80	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	80
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	16	16	6	0	0	0	0	0	0	33.33333333		
	33.33333333	16.66666667	0	0	0	16.66666667	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	33.33333333	33.33333333	16.66666667	0	0	0	16.66666667	0	0	0				

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2004	1	16	2	0	1	17	17	2	0	0	0	0	0	0	50	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	16	2	0	1	18	18	3	0	0	0	0	0	0	0	0	
	33.33333333		0	0	0	33.33333333		0	33.33333333		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		0	0	0	33.33333333		0	33.33333333		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	16	2	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
2005	1	16	2	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	4	4	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	5	5	3	0	0	33.33333333		66.66666667		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		66.66666667	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2005	1	16	2	0	1	6	6	3	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	8	8	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	12	12	2	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	13	13	5	0	0	0	0	20	40	40	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40	40	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	14	14	6	0	0	0	0	0	0	33.33333333		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	16	2	0	1	15	15	6	0	0	0	0	0	16.66666667	0		
	83.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16.66666667	0	83.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	16	2	0	1	16	16	3	0	0	0	0	0	0	0	33.33333333	
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2005	1	16	2	0	1	17	17	3	0	0	0	0	0	0	0	33.33333333	
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	16	2	0	1	18	18	9	0	0	0	0	0	0	11.11111111	0	
	0	11.11111111	33.33333333	33.33333333	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	11.11111111	0	0	11.11111111	33.33333333	33.33333333	11.11111111	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
2005	1	16	2	0	1	19	19	5	0	0	0	0	0	0	0	0	0
	20	20	0	0	0	20	40	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	20	0	0	0	20	40	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	16	2	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	5	5	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	10	10	0.514680488	0	0	0	0	100	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	11	11	3	0	0	0	0	33.33333333	66.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2006	1	16	2	0	1	12	12	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	13	13	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	14	14	7	0	0	0	0	0	0	57.14285714		
	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	57.14285714	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2006	1	16	2	0	1	15	15	3	0	0	0	0	0	0	66.66666667		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2006	1	16	2	0	1	16	16	13	0	0	0	0	0	0	23.07692308		
	7.692307692	61.53846154	7.692307692	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	23.07692308	7.692307692	61.53846154	7.692307692	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2006	1	16	2	0	1	17	17	6	0	0	0	0	0	0	16.66666667		
	16.66666667	33.33333333	0	0	16.66666667	0	16.66666667	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	16.66666667	16.66666667	33.33333333	0	0	16.66666667	0	16.66666667					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0													
2006	1	16	2	0	1	18	18	9	0	0	0	0	0	0	0	11.11111111	
	0	22.22222222	22.22222222	11.11111111	11.11111111	11.11111111	0	11.11111111	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	11.11111111	0	22.22222222	22.22222222	11.11111111	11.11111111					
	11.11111111	0	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0										
2006	1	16	2	0	1	19	19	5	0	0	0	0	0	0	0	0	0
	20	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	16	2	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	8	8	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	9	9	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	10	10	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	11	11	7	0	0	0	0	42.85714286	57.14285714	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.85714286	
	57.14285714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	16	2	0	1	12	12	4	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	13	13	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	14	14	4	0	0	0	0	0	25	75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	15	15	2	0	0	0	0	0	0	0	50	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	16	16	9	0	0	0	0	0	0	11.11111111		
	22.22222222	44.44444444	11.11111111	11.11111111	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	11.11111111	22.22222222	44.44444444	11.11111111	11.11111111	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2007	1	16	2	0	1	17	17	12	0	0	0	0	0	0	0	0	
	16.66666667	25	33.33333333	25	0	0	0	0	0	0	0	0	0	0	0	0	

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	16.66666667	25	33.33333333	25	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2007	1	16	2	0	1	18	18	15	0	0	0	0	0	0	0	0	
	13.33333333	40	20	13.33333333	0	6.666666667	6.666666667	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	13.33333333	40	20	13.33333333	0	6.666666667	6.666666667	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2007	1	16	2	0	1	19	19	9	0	0	0	0	0	0	0	0	
	0	22.22222222	22.22222222	33.33333333	0	0	0	11.11111111	0	0	0	0					
	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	22.22222222	22.22222222	33.33333333	0	0	0				
	11.11111111	0	0	0	0	11.11111111	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0													
2007	1	16	2	0	1	20	20	5	0	0	0	0	0	0	0	0	
	20	0	0	0	20	0	40	0	0	0	0	0	0	0	0	0	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	20	0	0	0	20	0	40	0	0	0	0	0	0	0	0	
	20	0	0	0	0	0	0	0	0	0							
2007	1	16	2	0	1	24	24	1	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	7	7	3	0	0	0	66.66666667	33.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667			
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2008	1	16	2	0	1	8	8	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	9	9	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	10	10	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2008	1	16	2	0	1	11	11	2	0	0	0	0	0	50	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	12	12	8	0	0	0	0	0	62.5	37.5	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62.5	37.5	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	13	13	8	0	0	0	0	12.5	25	25	25	12.5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	25	25	25
	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	14	14	8	0	0	0	0	0	37.5	12.5	37.5	12.5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.5	12.5	37.5
	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	15	15	12	0	0	0	0	0	8.333333333	41.66666667		
	16.66666667		16.66666667		16.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	8.333333333		41.66666667		16.66666667		16.66666667		16.66666667		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
2008	1	16	2	0	1	16	16	5	0	0	0	0	0	0	40	20	40
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	20
	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	17	17	5	0	0	0	0	0	0	0	40	20
	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	18	18	3	0	0	0	0	0	0	0	0	
	33.33333333		33.33333333		0	33.33333333		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		33.33333333		0	33.33333333		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	1	16	2	0	1	19	19	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	16	2	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
2009	1	16	2	0	1	2	2	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	3	3	1.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	4	4	8.5	0	88.23529412	11.76470588	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	88.23529412	11.76470588	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2009	1	16	2	0	1	5	5	7.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	6	6	2.5	0	60	40	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	60	40	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	8	8	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	9	9	4	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	10	10	2	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	11	11	10	0	0	0	0	0	20	40	40	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40	40
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	12	12	10	0	0	0	0	10	10	30	30	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	30	30
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	13	13	5	0	0	0	0	0	0	20	40	0
	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40
	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	14	14	9	0	0	0	0	0	11.11111111	22.22222222		
	44.44444444	11.11111111	0	11.11111111	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	11.11111111	22.22222222	44.44444444	11.11111111	0	11.11111111	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
2009	1	16	2	0	1	15	15	5	0	0	0	0	0	0	0	40	40
	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
	40	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	16	16	3	0	0	0	0	0	0	0	33.33333333	
	0	33.33333333	0	0	0	33.33333333	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	33.33333333	0	33.33333333	0	0	0	33.33333333	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2009	1	16	2	0	1	17	17	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	18	18	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	25	0	25	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	25	0	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	16	2	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50	0	0	0	0	50	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	50	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	1	1	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	2	2	2	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	3	3	19	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	10	10	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	13	13	4	0	0	0	0	0	0	50	25	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	25
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	15	15	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	16	16	3	0	0	0	0	0	0	0	0	0
	66.66666667		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	66.66666667		33.33333333		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2010	1	16	2	0	1	17	17	2	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	16	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	1	1	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	2	2	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	5	5	4	0	75	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	7	7	8	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	8	8	11	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	9	9	4	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	14	14	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	15	15	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	16	2	0	1	17	17	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	11	11	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	12	12	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	14	14	2	0	0	0	0	0	50	0	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	15	15	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	16	16	5	0	0	0	0	0	0	0	0	40
	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	16	2	0	1	17	17	3	0	0	0	0	0	0	0	33.33333333	
	0	0	0	33.33333333		0	33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333		0	0	0	33.33333333		0	33.33333333		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012	1	16	2	0	1	19	19	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	3	3	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	4	4	5	0	60	40	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	60	40	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	5	5	4	0	25	50	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	50	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	6	6	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	7	7	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	8	8	4	0	0	0	25	75	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	9	9	5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	10	10	9	0	0	11.11111111	11.11111111	44.44444444				
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	11.11111111	11.11111111	44.44444444	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
2013	1	16	2	0	1	11	11	5	0	0	0	0	20	60	20	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	12	12	5	0	0	0	0	60	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	60	40	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	13	13	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	14	14	3	0	0	0	0	0	33.33333333	0		
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2013	1	16	2	0	1	15	15	3	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	16	16	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	17	17	4	0	0	0	0	0	0	0	0	0
	25	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	19	19	2	0	0	0	0	0	0	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	0	0	0	0	0	0	0	0							
2013	1	16	2	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	2	0	1	1	1	1.5	66.66666667	33.33333333	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2014	1	16	2	0	1	2	2	2.5	80	20	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	80	20	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	2	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	16	2	0	1	4	4	6	0	83.33333333	16.66666667	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	83.33333333	16.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				

2014	1	16	2	0	1	5	5	12	0	91.66666667	0	8.333333333	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	91.66666667	0	8.333333333	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	16	2	0	1	6	6	2	0	0	50	50	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0						
2014	1	16	2	0	1	7	7	6	0	0	33.33333333	66.66666667	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	66.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	16	2	0	1	8	8	9	0	0	0	77.77777778	22.22222222	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	77.77777778		
	22.22222222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2014	1	16	2	0	1	9	9	17	0	0	11.76470588	64.70588235	17.64705882			
	5.882352941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	11.76470588	64.70588235	17.64705882	5.882352941	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0													
2014	1	16	2	0	1	10	10	10	0	0	0	60	40	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	60	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2014	1	16	2	0	1	11	11	7	0	0	0	28.57142857	14.28571429	42.85714286		
	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	28.57142857	14.28571429	42.85714286	0	14.28571429	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0														
2014	1	16	2	0	1	12	12	3	0	0	0	0	33.33333333	66.66666667	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	16	2	0	1	13	13	6	0	0	0	0	0	33.33333333	66.66666667	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

```
      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2014  1      16     2      0      1      14     14     3      0      0      0      0      0      0      66.66666667
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      66.66666667  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2014  1      16     2      0      1      15     15     1      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2014  1      16     2      0      1      16     16     1      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2014  1      16     2      0      1      17     17     3      0      0      0      0      0      0      0      0      0
      0      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
2014  1      16     2      0      1      18     18     2      0      0      0      0      0      0      0      0      0
      0      0      0      50     0      0      50     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      50     0      0      50     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2014  1      16     2      0      1      19     19     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
# 2015 NWFSC MAAL -- CA (n=24)
2003  1      -16    1      0      1      -1     -1     21     0      300    200    0      0      133.3333333  250
      16.66666667  0      0      200    0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      300    200    0      0
      133.3333333  250    16.66666667  0      0      200    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2004  1      -16    1      0      1      -1     -1     45     0      200    300    162.5  345.8333333  87.5   137.5
      58.33333333  83.33333333  25     0      0      0      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      200    300    162.5
      345.8333333  87.5   137.5  58.33333333  83.33333333  25     0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2005  1      -16    1      0      1      -1     -1     47     0      0      114.2857143  285.7142857  200    250    150
      89.28571429  305.952381   57.14285714  80.95238095  0      33.33333333  133.3333333  0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	114.2857143	285.7142857	200	250	150	89.28571429	305.952381	57.14285714	80.95238095						
	0	33.33333333	133.3333333	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0								
2006	1	-16	1	0	1	-1	-1	51.48531951	0	100	200	200	133.3333333	166.6666667			
	215	174.4444444	69.44444444	96.11111111	20	20	90	115	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	
	200	200	133.3333333	166.6666667	215	174.4444444	69.44444444	96.11111111	20	20	90	115					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0													
2007	1	-16	1	0	1	-1	-1	63	0	0	0	0	333.3333333	313.3333333			
	53.33333333	74.28571429	77.14285714	112.8571429	174.2857143	98.57142857	152.8571429	14.28571429									
	28.57142857	10	28.57142857	28.57142857	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	333.3333333	313.3333333	53.33333333			
	74.28571429	77.14285714	112.8571429	174.2857143	98.57142857	152.8571429	14.28571429	28.57142857	10								
	28.57142857	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0													
2008	1	-16	1	0	1	-1	-1	17	0	0	0	200	100	50	75	225	250
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	200	100	50	75	225
	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
2009	1	-16	1	0	1	-1	-1	38.5	100	500	0	0	116.6666667	135	140	150	
	58.33333333	100	100	0	0	0	100	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	100	500	0	0	116.6666667	
	135	140	150	58.33333333	100	100	0	0	0	100	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2010	1	-16	1	0	1	-1	-1	22	200	0	0	0	0	0	0	250	150
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	200	0	0	0	0	0	0	250
	150	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	-16	1	0	1	-1	-1	13	200	200	50	250	0	0	0	0	100
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	200	200	50	250	0	0	0	0
	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	-16	1	0	1	-1	-1	12	0	200	100	0	50	0	50	200	100
	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	200	100	0	50	0	50	200
	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	-16	1	0	1	-1	-1	59	0	100	200	130	216.6666667	153.3333333	10		
	40	50	190	100	0	0	85	100	0	0	66.66666667	33.33333333	66.66666667	100			
	33.33333333	25	33.33333333	33.33333333	0	0	0	33.33333333	0	0	0	0	0				

0 0 100 200 130 216.6666667 153.3333333 10 40 50 190 100 0 0 85
100 0 0 66.66666667 33.33333333 66.66666667 100 33.33333333 25 33.33333333 33.33333333
0 0 0 33.33333333 0 0 0 0 0 0
2014 1 -16 1 0 1 -1 -1 78 140 385 103.5714286 284.047619 119.5238095
289.2857143 178.5714286 0 50 0 100 0 0 100 50 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 140 385
103.5714286 284.047619 119.5238095 289.2857143 178.5714286 0 50 0 100 0 0 100
50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
2003 1 -16 2 0 1 -1 -1 40 100 400 100 100 100 125 233.3333333
158.3333333 66.66666667 0 16.66666667 0 50 0 50 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 100 400 100
100 100 125 233.3333333 158.3333333 66.66666667 0 16.66666667 0 50 0 50 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0
2004 1 -16 2 0 1 -1 -1 55 0 114.2857143 185.7142857 314.2857143 247.1428571
128.5714286 113.3333333 113.3333333 50 50 0 0 50 0 33.33333333 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 100
0 114.2857143 185.7142857 314.2857143 247.1428571 128.5714286 113.3333333 113.3333333 50 50
0 0 50 0 33.33333333 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 100
2005 1 -16 2 0 1 -1 -1 53 0 100 133.3333333 416.6666667 120 56.66666667
134.4444444 216.6666667 100 64.44444444 53.33333333 133.3333333 11.11111111 0 20 40 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 100 133.3333333 416.6666667 120 56.66666667 134.4444444 216.6666667 100 64.44444444
53.33333333 133.3333333 11.11111111 0 20 40 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0
2006 1 -16 2 0 1 -1 -1 53.51468049 0 0 200 0 133.3333333 216.6666667
213.5531136 97.37484737 109.1575092 49.91452991 62.22222222 67.77777778 11.11111111 127.7777778 0
11.11111111 0 0 0 100 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 200 0 133.3333333 216.6666667 213.5531136 97.37484737
109.1575092 49.91452991 62.22222222 67.77777778 11.11111111 127.7777778 0 11.11111111 0 0
0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2007 1 -16 2 0 1 -1 -1 74 0 0 0 100 142.8571429 332.1428571
236.1111111 72.22222222 74.44444444 146.1111111 86.66666667 60.55555556 33.33333333 26.66666667
6.666666667 40 111.1111111 0 0 0 0 11.11111111 0 0 0 20 0 0
0 0 0 0 0 0 0 0 0 0 100 142.8571429 332.1428571 236.1111111
72.22222222 74.44444444 146.1111111 86.66666667 60.55555556 33.33333333 26.66666667 6.666666667 40
111.1111111 0 0 0 0 11.11111111 0 0 0 20 0 0 0 0 0
0 0 0 0
2008 1 -16 2 0 1 -1 -1 61 0 0 0 66.66666667 245.8333333 283.3333333
156.6666667 139.1666667 185 70 20 33.33333333 0 0 0 0 0 0 100 0
0 0 0 0 0 0 0 0 0 0 0 0 0 100 0 0
0 66.66666667 245.8333333 283.3333333 156.6666667 139.1666667 185 70 20 33.33333333 0

```
      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      100
2009  1      -16    2      0      1      -1     -1     77.5   0      448.2352941  51.76470588  0      160    141.1111111
      112.2222222  377.7777778  71.11111111  53.33333333  31.11111111  20     0      33.33333333  0      50     25
      0      75     0      0      0      0      50     0      0      0      0      0      0      0      0      0
      0      0      448.2352941  51.76470588  0      160    141.1111111  112.2222222  377.7777778  71.11111111
      53.33333333  31.11111111  20     0      33.33333333  0      50     25     0      75     0      0      0      0
      50     0      0      0      0      0      0      0      0      0      0      0
2010  1      -16    2      0      1      -1     -1     38     300    100    0      0      0      0      150    25     125
      66.66666667  83.33333333  150    100    0      100    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      300    100    0      0      0      0
      150    25     125    66.66666667  83.33333333  150    100    0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
2011  1      -16    2      0      1      -1     -1     34     200    275    25     300    0      0      0      0      100
      200    0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      200    275    25     300    0      0      0      0
      100    200    0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2012  1      -16    2      0      1      -1     -1     19     0      200    0      0      100    100    50     33.33333333
      140    70     40     33.33333333  0      33.33333333  0      0      0      0      0      0      0      0      100
      0      0      0      0      0      0      0      0      0      0      0      0      0      200    0      0      100
      100    50     33.33333333  140    70     40     33.33333333  0      33.33333333  0      0      0      0      0
      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0      0
2013  1      -16    2      0      1      -1     -1     57     0      85     201.1111111  261.1111111  349.4444444
      216.6666667  20     183.3333333  133.3333333  25     75     0      0      0      0      0      0      0      100
      0      0      0      0      0      0      50     0      0      0      0      0      0      0      0      0      0
      85     201.1111111  261.1111111  349.4444444  216.6666667  20     183.3333333  133.3333333  25     75     0
      0      0      0      0      0      0      100    0      0      0      0      0      0      50     0      0      0
      0      0      0      0      0      0
2014  1      -16    2      0      1      -1     -1     95     146.6666667  328.3333333  111.7647059  356.0550887
      127.4883287  148.7394958  333.3333333  47.61904762  0      0      33.33333333  66.66666667  50     100    0
      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      146.6666667  328.3333333  111.7647059  356.0550887  127.4883287  148.7394958  333.3333333
      47.61904762  0      0      33.33333333  66.66666667  50     100    0      50     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0

# 2014 NWFSC CAAL -- CA (n=370)
2003  1      17     1      0      1      6      6      2      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      17     1      0      1      7      7      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	8	8	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	9	9	3	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	14	14	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	16	16	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	17	17	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	18	18	7	0	0	0	0	0	0	0	0	
	14.28571429		14.28571429		28.57142857		28.57142857		0	14.28571429		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	14.28571429		14.28571429		28.57142857		28.57142857		0	14.28571429	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2003	1	17	1	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	21	21	4	0	0	0	0	0	0	0	0	0
	0	0	25	25	0	25	0	0	0	25	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	25	25	0	25	0	0	0	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0							
2003	1	17	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	4	4	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	9	9	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	10	10	3	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	11	11	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	12	12	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	13	13	4	0	0	0	0	0	0	75	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	14	14	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	15	15	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	16	16	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	17	17	2	0	0	0	0	0	0	0	50	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	18	18	2	0	0	0	0	0	0	0	0	0
	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	0	25	0	50	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	0	50	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	1	0	1	20	20	6	0	0	0	0	0	0	0	0	0
	0	33.33333333	16.66666667		33.33333333		16.66666667		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	33.33333333		16.66666667		33.33333333		16.66666667		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																

2004	1	17	1	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	66.66666667		0	0	0	0	33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	66.66666667		0	0	0	0	33.33333333		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	17	1	0	1	2	2	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	1	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	1	0	1	17	17	2	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	1	0	1	18	18	2.276482548		0	0	0	0	0	0	0	
	12.14516439		0	87.85483561		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	12.14516439		0	87.85483561		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2005	1	17	1	0	1	19	19	6	0	0	0	0	0	0	0	0	
	16.66666667		16.66666667		33.33333333		16.66666667		16.66666667		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	16.66666667		16.66666667		33.33333333		16.66666667		16.66666667		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2005	1	17	1	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	0	33.33333333		0	66.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		0	66.66666667		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	17	1	0	1	21	21	4	0	0	0	0	0	0	0	0	0
	25	0	25	25	0	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	0	25	25	0	25	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	1	0	1	22	22	3	0	0	0	0	0	0	0	0	0
	0	33.33333333		0	33.33333333		0	0	33.33333333		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	33.33333333		0	33.33333333		0	0	33.33333333		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2006	1	17	1	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	14	14	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	15	15	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	16	16	4	0	0	0	0	0	0	0	25	50
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	50	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	17	17	4	0	0	0	0	0	0	0	0	25
	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	19	19	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	20	20	7	0	0	0	0	0	0	0	0	0
	0	0	57.14285714		14.28571429		14.28571429		0	0	14.28571429		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	57.14285714		14.28571429		14.28571429		0	0	14.28571429	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
2006	1	17	1	0	1	21	21	2	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	0	50	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	22	22	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	66.66666667	0	0	0	33.33333333	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	66.66666667	0	0	0	33.33333333	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2006	1	17	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	1	0	1	26	26	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0							
2007	1	17	1	0	1	4	4	3.5	0	28.57142857	71.42857143	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	28.57142857	71.42857143	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2007	1	17	1	0	1	5	5	3	0	0	66.66666667	33.33333333	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2007	1	17	1	0	1	6	6	5	0	0	20	80	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	20	80	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	7	7	3	0	0	33.33333333	66.66666667	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	66.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2007	1	17	1	0	1	8	8	3	0	0	0	33.33333333	66.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	17	1	0	1	9	9	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	10	10	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	13	13	3	0	0	0	0	0	0	66.66666667		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	17	1	0	1	14	14	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	16	16	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	17	17	3	0	0	0	0	0	0	0	0	
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	17	1	0	1	18	18	3	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	21	21	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	1	1	2	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	2	2	4	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	3	3	7	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	4	4	11	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	5	5	10	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	8	8	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	9	9	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	10	10	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	11	11	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	12	12	10	0	0	0	0	30	40	10	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	30	40	10	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	13	13	5	0	0	0	0	0	40	40	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	14	14	6	0	0	0	0	0	0	33.33333333		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2008	1	17	1	0	1	15	15	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	16	16	6	0	0	0	0	0	0	0	33.33333333	
	50	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	50	16.66666667		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2008	1	17	1	0	1	17	17	14	0	0	0	0	0	0	0	14.28571429	
	35.71428571	21.42857143	14.28571429		7.142857143	7.142857143	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	14.28571429	35.71428571	21.42857143	14.28571429	7.142857143	7.142857143						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
2008	1	17	1	0	1	18	18	4	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2008	1	17	1	0	1	19	19	7	0	0	0	0	0	0	0	0	0
	14.28571429	28.57142857	28.57142857	14.28571429	0	0	14.28571429	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	14.28571429	28.57142857	28.57142857	14.28571429	0	0					
	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2008	1	17	1	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	33.33333333	0	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333	0	66.66666667	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2008	1	17	1	0	1	21	21	9	0	0	0	0	0	0	0	0	0
	0	11.11111111	44.44444444	22.22222222	0	0	11.11111111	0	0	11.11111111	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	11.11111111	44.44444444	22.22222222	0	0	11.11111111				
	0	0	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
2008	1	17	1	0	1	22	22	5	0	0	0	0	0	0	0	0	0
	0	20	0	0	20	0	40	0	0	0	0	0	0	0	20	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	20	0	0	20	0	40	0	0	0	0	0	0	0	20	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	1	0	1	26	26	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	50
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	1	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	1	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	1	0	1	18	18	2	0	0	0	0	0	0	50	0	
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	1	0	1	19	19	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	1	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	1	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	1	1	24	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	2	2	2	75	25	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	75	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	4	4	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	5	5	5	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	6	6	7	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	7	7	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	11	11	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	12	12	3	0	0	0	0	0	33.33333333	33.33333333		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2010	1	17	1	0	1	13	13	7	0	0	0	0	0	0	85.71428571		
	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	85.71428571	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2010	1	17	1	0	1	14	14	7	0	0	0	0	0	0	42.85714286		
	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	42.85714286	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2010	1	17	1	0	1	15	15	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	16	16	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	17	17	3	0	0	0	0	0	0	0	0	
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2010	1	17	1	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	50	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	50	0	0	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	25	25	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	25	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	22	22	5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	20	0	0	40	20	0	0	0	0	0	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	20	0	0	40	20	0	0	0	0	0
	20	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	1	0	1	24	24	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0	66.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0				
2011	1	17	1	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	5	5	3	0	33.33333333	66.66666667	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	66.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2011	1	17	1	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	7	7	7	0	0	14.28571429	85.71428571	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429	85.71428571		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2011	1	17	1	0	1	8	8	8	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	9	9	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	10	10	6	0	0	0	0	83.33333333		16.66666667		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.33333333	
	16.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2011	1	17	1	0	1	11	11	4	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	12	12	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	13	13	4	0	0	0	0	0	25	0	75	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	75
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	14	14	2	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	15	15	3	0	0	0	0	0	0	0	66.66666667	
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2011	1	17	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	18	18	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	19	19	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	1	1	4.5	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	2	2	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	7	7	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	9	9	5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	10	10	13	0	0	0	0	92.30769231	7.692307692	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92.30769231	
	7.692307692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2012	1	17	1	0	1	11	11	11	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	12	12	4	0	0	0	0	25	75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	13	13	4	0	0	0	0	25	25	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	15	15	6	0	0	0	0	0	0	33.33333333	50	
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333	50	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2012	1	17	1	0	1	16	16	2	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	17	17	4	0	0	0	0	0	0	0	0	50
	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	50	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	18	18	5	0	0	0	0	0	0	0	0	20
	0	60	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	60	0	0	0	20	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	19	19	11	0	0	0	0	0	0	0	9.090909091	
	9.090909091	18.18181818	18.18181818	0	27.27272727	0	0	0	9.090909091	9.090909091	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	9.090909091	9.090909091	18.18181818	18.18181818	0	27.27272727					
	0	0	0	9.090909091	9.090909091	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0										
2012	1	17	1	0	1	20	20	5	0	0	0	0	0	0	0	0	0
	0	20	20	0	0	0	60	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	20	20	0	0	0	60	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	21	21	10	0	0	0	0	0	0	0	0	0
	0	0	0	10	10	50	10	0	10	0	0	10	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	10	10	50	10	0	10	0	0	10	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	1	0	1	22	22	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	33.33333333	0	33.33333333	0	33.33333333	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	33.33333333	0	33.33333333	0			
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012	1	17	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	1	1	17	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	2	2	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	3	3	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	7	7	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	8	8	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	9	9	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	10	10	4	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	11	11	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	13	13	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	16	16	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	17	17	2	0	0	0	0	0	0	0	0	0
	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	18	18	2	0	0	0	0	0	0	0	0	50
	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	20	20	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	1	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	66.66666667		0	33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	66.66666667		0	33.33333333		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2013	1	17	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	3	3	5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	4	4	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	5	5	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	6	6	5	0	0	80	20	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	80	20	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	7	7	4	0	0	75	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	8	8	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	9	9	5	0	0	0	40	20	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	40	20	40	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	11	11	4	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	12	12	4	0	0	0	0	75	0	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	13	13	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	15	15	4	0	0	0	0	0	0	25	25	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	16	16	11	0	0	0	0	0	0	9.090909091		
	45.45454545	9.090909091	18.18181818	9.090909091	9.090909091	0	0	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	9.090909091	45.45454545	9.090909091	18.18181818	9.090909091	9.090909091						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0											
2014	1	17	1	0	1	17	17	8	0	0	0	0	0	0	12.5	25	0
	25	12.5	0	12.5	0	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	25
	0	25	12.5	0	12.5	0	12.5	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	18	18	6	0	0	0	0	0	0	0	0	
	16.66666667	0	16.66666667	16.66666667	33.33333333	0	16.66666667	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	16.66666667	0	16.66666667	16.66666667	33.33333333	0					
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
2014	1	17	1	0	1	19	19	16	0	0	0	0	0	0	0	0	0
	12.5	31.25	18.75	18.75	6.25	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	12.5	31.25	18.75	18.75	6.25	12.5	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	20	20	14	0	0	0	0	0	0	0	0	0
	7.142857143	7.142857143	14.28571429	21.42857143	28.57142857	0	0	0	14.28571429	0							
	7.142857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	7.142857143	7.142857143	14.28571429	21.42857143				
	28.57142857	0	0	0	14.28571429	0	7.142857143	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0									
2014	1	17	1	0	1	21	21	8	0	0	0	0	0	0	0	0	0
	0	0	25	12.5	12.5	12.5	12.5	0	12.5	0	0	0	0	0	0	0	0
	0	0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	25	12.5	12.5	12.5	12.5	0	12.5	0	0	0	0	0	0	0
	0	0	0	12.5	0	0	0	0	0	0							
2014	1	17	1	0	1	22	22	16	0	0	0	0	0	0	0	0	0
	0	0	0	6.25	6.25	6.25	0	0	43.75	6.25	0	6.25	12.5	6.25	0	0	6.25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	6.25	6.25	6.25	0	0	43.75	6.25	0	6.25	12.5	6.25	0	0
	6.25	0	0	0	0	0	0	0	0	0							
2014	1	17	1	0	1	23	23	7	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	14.28571429	0	0	0	28.57142857	0	14.28571429	14.28571429				
	0	14.28571429	0	0	0	0	0	14.28571429	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429	0	0	0	

	28.57142857	0	14.28571429	14.28571429	0	14.28571429	0	0	0	0	0	14.28571429				
	0	0	0	0	0											
2014	1	17	1	0	1	24	24	2	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	1	1	1	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	6	6	3	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	7	7	2	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	8	8	1	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	9	9	2	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	14	14	3	0	0	0	0	0	0	33.33333333	
	33.33333333	0	0	0	0	33.33333333	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	33.33333333	33.33333333	0	0	0	0	33.33333333	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2003	1	17	2	0	1	15	15	3	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2003	1	17	2	0	1	16	16	7	0	0	0	0	0	14.28571429	14.28571429	
	28.57142857	28.57142857	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

	0	0	14.28571429	14.28571429	28.57142857	28.57142857	0	14.28571429	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
2003	1	17	2	0	1	17	17	15	0	0	0	0	0	0	6.666666667	
	6.666666667	13.33333333	33.33333333	0	26.66666667	13.33333333	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	6.666666667	6.666666667	13.33333333	33.33333333	0	26.66666667					
	13.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0									
2003	1	17	2	0	1	18	18	12	0	0	0	0	0	0	0	0
	16.66666667	16.66666667	25	33.33333333	0	8.333333333	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	16.66666667	16.66666667	25	33.33333333	0	8.333333333	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0															
2003	1	17	2	0	1	19	19	5	0	0	0	0	0	0	0	0	20
	0	0	20	20	40	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	0	20	20	40	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	3	3	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	9	9	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	10	10	5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	11	11	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2004	1	17	2	0	1	13	13	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	14	14	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	15	15	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	16	16	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	17	17	3	0	0	0	0	0	33.33333333	0		
	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333		0	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	17	2	0	1	18	18	4	0	0	0	0	0	0	0	25	0
	25	0	0	0	25	0	0	0	25	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	0	25	0	0	0	25	0	0	0	25	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	19	19	9	0	0	0	0	0	0	0	0	0
	0	0	22.22222222		0	33.33333333		0	0	0	11.11111111		11.11111111		0	11.11111111	
	0	0	0	11.11111111		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	22.22222222		0	33.33333333		0	0	0
	11.11111111		11.11111111		0	11.11111111		0	0	0	11.11111111		0	0	0	0	0
	0	0	0	0	0												
2004	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0							
2004	1	17	2	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	0	0	0	0	0	0	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	50	0	0	0	0	0	0	0	0	50	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	17	2	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	2	0	1	13	13	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	2	0	1	16	16	8	0	0	0	0	0	0	12.5	50	25
	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	50
	25	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	2	0	1	17	17	12	0	0	0	0	0	0	0	16.66666667	
	41.66666667		16.66666667		25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	16.66666667		41.66666667		16.66666667		25	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2005	1	17	2	0	1	18	18	7.723517452		0	0	0	0	0	0	0	
	9.367719523		25.89493728		38.84240592		12.94746864		0	0	0	0	12.94746864		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	9.367719523		25.89493728		38.84240592		12.94746864		0	0	0
	0	12.94746864		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
2005	1	17	2	0	1	19	19	4	0	0	0	0	0	0	0	0	25
	0	0	25	25	0	0	25	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	25	25	0	0	25	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	2	0	1	20	20	5	0	0	0	0	0	0	0	0	0
	0	40	40	0	0	0	0	0	20	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	40	40	0	0	0	0	0	20	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	6	6	2	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	8	8	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	15	15	3	0	0	0	0	0	0	0	66.66666667	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2006	1	17	2	0	1	16	16	4	0	0	0	0	0	0	25	0	25
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	25	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	17	17	8	0	0	0	0	0	0	0	12.5	62.5
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5
	62.5	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	18	18	6	0	0	0	0	0	0	0	0	
	16.66666667	16.66666667	16.66666667	0	33.33333333	16.66666667	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	16.66666667	16.66666667	16.66666667	0	33.33333333	16.66666667					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2006	1	17	2	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	25	0	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	0	25	25	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	17	2	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	0	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2007	1	17	2	0	1	4	4	0.5	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	6	6	6	0	0	33.33333333		66.66666667		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		66.66666667	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	17	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	8	8	4	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	9	9	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	10	10	4	0	0	0	0	25	75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	11	11	2	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	12	12	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	13	13	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2007	1	17	2	0	1	14	14	5	0	0	0	0	0	20	60	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	15	15	2	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	16	16	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	18	18	8	0	0	0	0	0	0	0	0	12.5
	12.5	25	25	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5	12.5	25	25	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	19	19	11	0	0	0	0	0	0	0	0	0
	9.090909091	9.090909091	18.18181818	9.090909091	27.27272727	0	9.090909091	9.090909091	9.090909091								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	9.090909091	9.090909091	18.18181818	9.090909091				
	27.27272727	0	9.090909091	9.090909091	9.090909091	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0									
2007	1	17	2	0	1	20	20	11	0	0	0	0	0	0	0	0	0
	0	27.27272727	0	9.090909091	36.36363636	0	9.090909091	0	0	0	0	0					
	9.090909091	0	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	27.27272727	0	9.090909091	36.36363636	0				
	9.090909091	0	0	0	0	0	9.090909091	0	9.090909091	0	0	0	0	0			
	0	0	0	0	0	0											
2007	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	17	2	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	1	1	8	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	2	2	17	94.11764706	5.882352941	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	94.11764706	5.882352941	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2008	1	17	2	0	1	3	3	7	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	4	4	9	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	5	5	13	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	6	6	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	8	8	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	9	9	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	10	10	9	0	0	0	0	44.44444444	44.44444444			
	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	44.44444444	44.44444444	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	1	17	2	0	1	11	11	5	0	0	0	0	20	20	60	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	60	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	12	12	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	13	13	4	0	0	0	0	50	0	25	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	25	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	14	14	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	15	15	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	16	16	2	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	17	17	4	0	0	0	0	0	0	0	25	0
	0	25	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	0	0	25	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	18	18	4	0	0	0	0	0	0	0	0	0
	0	0	50	25	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	25	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	17	2	0	1	19	19	3	0	0	0	0	0	0	0	0	0
	33.33333333	0	0	0	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	33.33333333	0	0	0	0	33.33333333	33.33333333	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2008	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100						
2008	1	17	2	0	1	22	22	2	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0
	50	0	0	0	0	0	0	0	0	0						
2008	1	17	2	0	1	24	24	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0						
2009	1	17	2	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	17	2	0	1	14	14	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	17	2	0	1	15	15	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	17	2	0	1	16	16	2	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	17	2	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	17	2	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	2	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	2	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	1	1	24	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	2	2	3	50	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	3	3	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	4	4	2	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	5	5	7	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	6	6	10	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	7	7	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	12	12	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	13	13	3	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	14	14	2	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	15	15	2	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	16	16	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	17	17	5	0	0	0	0	0	0	0	0	20
	20	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	20	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	18	18	2	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	17	2	0	1	19	19	6	0	0	0	0	0	0	0	0	0
	0	0	0	16.66666667		16.66666667		0	16.66666667		0	16.66666667		0	0	0	0
	0	0	0	16.66666667		0	0	0	0	0	16.66666667		0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	16.66666667	16.66666667	0	16.66666667		
	0	16.66666667	0	0	0	0	0	0	0	16.66666667	0	0	0	0	0	
	16.66666667	0	0	0												
2010	1	17	2	0	1	20	20	3	0	0	0	0	0	0	0	0
	0	0	0	33.33333333	33.33333333	0	0	0	0	0	33.33333333	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	33.33333333	33.33333333	0	0	0	0	0		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2010	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100						
2010	1	17	2	0	1	22	22	2	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50						
2011	1	17	2	0	1	3	3	1	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	17	2	0	1	4	4	1	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	17	2	0	1	5	5	1	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	17	2	0	1	6	6	1	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	17	2	0	1	7	7	8	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	17	2	0	1	8	8	5	0	0	0	60	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	60	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	9	9	4	0	0	0	75	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	10	10	9	0	0	0	11.11111111		77.77777778		11.11111111	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.11111111	
	77.77777778		11.11111111		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2011	1	17	2	0	1	11	11	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	12	12	2	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	13	13	2	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	14	14	3	0	0	0	0	0	0	66.66666667		
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2011	1	17	2	0	1	16	16	2	0	0	0	0	0	0	0	0	0
	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	17	17	5	0	0	0	0	0	0	0	0	0
	0	60	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	60	20	0	20	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	18	18	9	0	0	0	0	0	0	0	0	0
	11.11111111		11.11111111		11.11111111		11.11111111		11.11111111		0	11.11111111		0	33.33333333		0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	11.11111111	11.11111111	11.11111111	11.11111111					
	11.11111111	0	11.11111111	0	33.33333333	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0									
2011	1	17	2	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	25	0	25	25	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	25	0	25	25	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	17	2	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333	33.33333333	0	0	0	0	0		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	33.33333333	0		
	0	0	0	0	33.33333333	0	0	0	0	0	0	0	0	0			
2012	1	17	2	0	1	1	1	5.5	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	3	3	5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	7	7	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	8	8	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	9	9	3	0	0	0	33.33333333	66.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

2012	1	17	2	0	1	10	10	18	0	0	0	0	88.88888889	11.11111111	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88.88888889
	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2012	1	17	2	0	1	11	11	16	0	0	0	0	81.25	18.75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	81.25	18.75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	12	12	12	0	0	0	0	50	41.66666667	0		
	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	41.66666667	0	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2012	1	17	2	0	1	13	13	6	0	0	0	0	16.66666667	33.33333333			
	16.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	16.66666667	33.33333333	16.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2012	1	17	2	0	1	14	14	5	0	0	0	0	0	20	60	0	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	15	15	6	0	0	0	0	0	0	33.33333333		
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	1	17	2	0	1	16	16	4	0	0	0	0	0	0	25	0	25
	0	25	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	25	0	25	0	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	17	17	7	0	0	0	0	0	0	0	0	
	28.57142857	14.28571429	14.28571429	28.57142857	0	0	0	0	0	0	0	0	0				
	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	28.57142857	14.28571429	14.28571429	28.57142857	0	0				
	0	0	0	0	0	0	14.28571429	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0												
2012	1	17	2	0	1	18	18	16	0	0	0	0	0	0	0	0	0
	6.25	25	0	18.75	18.75	6.25	0	0	6.25	6.25	0	6.25	0	0	0	6.25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	6.25	25	0	18.75	18.75	6.25	0	0	6.25	6.25	0	6.25	0	0	0	6.25
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	19	19	6	0	0	0	0	0	0	0	0	0
	0	16.66666667		0	16.66666667		16.66666667		50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	16.66666667		0	16.66666667		16.66666667		50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012	1	17	2	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	0	25	0	0	0	25	0	25	0	0	0	0	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	25	0	0	0	25	0	25	0	0	0	0	25	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	21	21	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0
	0	50	0	0	0	0	0	0	0	0							
2012	1	17	2	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	1	1	17	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	2	2	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	7	7	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	9	9	4	0	0	0	75	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	10	10	4	0	0	0	25	25	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	25	25	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	11	11	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	12	12	5	0	0	0	0	0	80	0	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	13	13	3	0	0	0	0	0	33.33333333	33.33333333		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	1	17	2	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	17	2	0	1	16	16	6	0	0	0	0	0	0	0	16.66666667	
	16.66666667	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	16.66666667	16.66666667	66.66666667	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	1	17	2	0	1	17	17	6	0	0	0	0	0	0	0	0	
	16.66666667	0	33.33333333	16.66666667	0	0	0	0	0	16.66666667	0	16.66666667					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	16.66666667	0	33.33333333	16.66666667	0	0	0	0			
	0	16.66666667	0	16.66666667	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0													
2013	1	17	2	0	1	18	18	3	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	66.66666667	33.33333333	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2013	1	17	2	0	1	19	19	4	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	25	0	25	0	0	0	0	25

	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	0	25	0	0	0	0
	25	0	0	0	0	0	0	0	0	25							
2013	1	17	2	0	1	20	20	5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	20	0	0	0	0	20	20	0	20
	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	20	0	0	0	0	20	20	0
	20	0	0	0	20	0	0	0	0	0							
2013	1	17	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	2	2	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	3	3	14	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	4	4	10	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	5	5	6	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	6	6	7	0	0	85.71428571		14.28571429		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	85.71428571		14.28571429	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2014	1	17	2	0	1	7	7	6	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	8	8	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	9	9	5	0	0	0	80	0	20	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	80	0	20	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	10	10	4	0	0	0	50	25	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	25	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	11	11	4	0	0	0	0	50	25	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	25	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	17	2	0	1	12	12	7	0	0	0	0	28.57142857	28.57142857			
	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	28.57142857	28.57142857	28.57142857	14.28571429	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2014	1	17	2	0	1	13	13	3	0	0	0	0	0	66.66666667	0		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	66.66666667	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	17	2	0	1	14	14	6	0	0	0	0	0	0	33.33333333		
	16.66666667	33.33333333	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	33.33333333	16.66666667	33.33333333	16.66666667	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2014	1	17	2	0	1	15	15	12	0	0	0	0	0	0	25	41.66666667	
	0	16.66666667	8.333333333	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	25	41.66666667	0	16.66666667	8.333333333	8.333333333	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
2014	1	17	2	0	1	16	16	13	0	0	0	0	0	0	0	15.38461538	
	7.692307692	38.46153846	15.38461538	0	15.38461538	0	7.692307692	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	15.38461538	7.692307692	38.46153846	15.38461538	0	15.38461538	0					

```
      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
2014  1      17     2      0      1      17     17     18     0      0      0      0      0      0      0      5.555555556
      5.555555556  16.66666667  16.66666667  22.22222222  11.11111111  16.66666667  5.555555556  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      5.555555556  5.555555556  16.66666667  16.66666667  22.22222222
      11.11111111  16.66666667  5.555555556  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
2014  1      17     2      0      1      18     18     23     0      0      0      0      0      0      0      4.347826087
      4.347826087  8.695652174  13.04347826  8.695652174  17.39130435  4.347826087  13.04347826  8.695652174
      4.347826087  4.347826087  4.347826087  0      0      0      0      4.347826087  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      4.347826087  4.347826087
      8.695652174  13.04347826  8.695652174  17.39130435  4.347826087  13.04347826  8.695652174  4.347826087
      4.347826087  4.347826087  0      0      0      0      4.347826087  0      0      0      0      0      0      0
      0      0      0      0
2014  1      17     2      0      1      19     19     21     0      0      0      0      0      0      0      0      0
      4.761904762  0      4.761904762  0      9.523809524  4.761904762  9.523809524  23.80952381  9.523809524
      14.28571429  4.761904762  4.761904762  0      0      0      0      9.523809524  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      4.761904762  0
      4.761904762  0      9.523809524  4.761904762  9.523809524  23.80952381  9.523809524  14.28571429  4.761904762
      4.761904762  0      0      0      0      9.523809524  0      0      0      0      0      0      0      0      0
2014  1      17     2      0      1      20     20     21     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      4.761904762  0      9.523809524  4.761904762  9.523809524  4.761904762
      14.28571429  14.28571429  4.761904762  9.523809524  4.761904762  0      0      0      0      4.761904762  0
      0      0      14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      4.761904762  0      9.523809524  4.761904762  9.523809524  4.761904762  14.28571429  14.28571429
      4.761904762  9.523809524  4.761904762  0      0      0      0      4.761904762  0      0      0      14.28571429
2014  1      17     2      0      1      21     21     10     0      0      0      0      0      0      0      0      0
      0      0      0      0      10     0      10     0      0      0      0      10     0      10     0      10     10
      20     10     0      0      0      0      0      0      10     0      0      0      0      0      0      0      0
      0      0      0      0      0      10     0      10     0      0      0      0      10     0      10     0      10
      10     20     10     0      0      0      0      0      0      10
2014  1      17     2      0      1      22     22     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      50     0      0      0      0      0      0      25     0      0      0      25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      50     0      0      0      0      0      0      25     0      0      0
      25     0      0      0      0      0      0      0      0      0
# 2015 NWFSC MAAL -- OR (n=24)
2003  1      -17    1      0      1      -1     -1     34     0      0      300    100    200    0      100    100
      114.2857143  14.28571429  53.57142857  78.57142857  100    89.28571429  25     0      0      0      25     0
      0      0      100    0      0      100    0      0      0      0      0      0      0      0      0      0      0
      300    100    200    0      100    100    114.2857143  14.28571429  53.57142857  78.57142857  100    89.28571429
      25     0      0      0      25     0      0      0      100    0      0      100    0      0      0      0      0
      0      0      0      0
```

```
2004  1      -17    1      0      1      -1     -1     34     0      0      100    0      300    50     425    75     0
      116.6666667  108.3333333  16.66666667  83.33333333  91.66666667  33.33333333  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      100    0      300    50     425    75     0      116.6666667  108.3333333  16.66666667  83.33333333  91.66666667
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
2005  1      -17    1      0      1      -1     -1     22.27648255  100    100    0      0      0      0      0
      62.14516439  66.66666667  129.5215023  100    41.66666667  141.6666667  0      25     33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      100    100    0      0      0      0      0      62.14516439  66.66666667  129.5215023  100    41.66666667
      141.6666667  0      25     33.33333333  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
2006  1      -17    1      0      1      -1     -1     27     0      0      100    0      0      100    0      25     175
      250    50     107.1428571  14.28571429  80.95238095  0      150    14.28571429  33.33333333  0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      100
      0      0      100    0      25     175    250    50     107.1428571  14.28571429  80.95238095  0      150
      14.28571429  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      100
      0      0      0      0
2007  1      -17    1      0      1      -1     -1     41.5   0      28.57142857  191.4285714  213.3333333  266.6666667
      50     116.6666667  33.33333333  33.33333333  266.6666667  50     50     100    50     150    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      28.57142857  191.4285714  213.3333333  266.6666667  50     116.6666667  33.33333333  33.33333333
      266.6666667  50     50     100    50     150    0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2008  1      -17    1      0      1      -1     -1     113    200    300    100    0      180    230    83.33333333
      154.2857143  185.7142857  185.7142857  73.96825397  146.8253968  43.65079365  20     0      65.3968254   0
      0      11.11111111  0      50     0      0      20     50     0      0      0      0      0      0      0      0
      0      0      200    300    100    0      180    230    83.33333333  154.2857143  185.7142857  185.7142857
      73.96825397  146.8253968  43.65079365  20     0      65.3968254   0      0      11.11111111  0      50     0
      0      20     50     0      0      0      0      0      0      0      0      0      0
2009  1      -17    1      0      1      -1     -1     8      0      200    0      0      0      0      0      50     0
      50     100    0      0      0      50     0      0      0      0      0      50     0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      200    0      0      0      0      0      50
      0      50     100    0      0      0      50     0      0      0      0      0      50     0      0      100    0
      0      0      0      0      0      0      0      0      0      0
2010  1      -17    1      0      1      -1     -1     83     175    25     400    0      100    133.3333333  161.9047619
      90.47619048  247.6190476  66.66666667  75     125    0      0      50     70     0      0      40     20
      33.33333333  100    66.66666667  0      0      20     0      0      0      0      0      0      0      0      0
      175    25     400    0      100    133.3333333  161.9047619  90.47619048  247.6190476  66.66666667  75     125
      0      0      50     70     0      0      40     20     33.33333333  100    66.66666667  0      0      20     0
      0      0      0      0      0      0      0      0
2011  1      -17    1      0      1      -1     -1     49     0      133.3333333  180.952381   185.7142857  233.3333333
      141.6666667  50     291.6666667  83.33333333  100    0      0      0      0      0      100    200    0      0
      100    0      100    0      0      0      0      0      0      0      0      0      0      0      0      0
      133.3333333  180.952381   185.7142857  233.3333333  141.6666667  50     291.6666667  83.33333333  100    0
```

0 0 0 0 100 200 0 0 100 0 100 0 0 0 0 0 0
0 0 0 0 0 0 0
2012 1 -17 1 0 1 -1 -1 96.5 100 200 0 50 392.3076923 107.6923077
133.3333333 159.0909091 145.7575758 43.18181818 123.1818182 20 37.27272727 10 70 103.3333333
9.090909091 52.42424242 50 83.33333333 10 0 0 0 0 0 0 0 0
0 0 0 0 0 100 200 0 50 392.3076923 107.6923077 133.3333333 159.0909091
145.7575758 43.18181818 123.1818182 20 37.27272727 10 70 103.3333333 9.090909091 52.42424242
50 83.33333333 10 0 0 0 0 0 0 0 0 0 0 0 0
0
2013 1 -17 1 0 1 -1 -1 47 100 200 100 250 50 100 100 200 50
50 0 100 50 116.6666667 0 133.3333333 0 0 0 0 100 0 0 0
0 0 0 0 0 0 0 0 0 0 0 100 200 100 250 50 100
100 200 50 50 0 100 50 116.6666667 0 133.3333333 0 0 0 0 100
0 0 0 0 0 0 0 0 0 0 0 0 0 0
2014 1 -17 1 0 1 -1 -1 131 0 300 255 135 245 40 271.5909091
95.45454545 75.75757576 62.82467532 76.6504329 83.79329004 104.7619048 53.57142857 74.70238095 12.5
0 70.53571429 34.82142857 57.14285714 70.53571429 26.78571429 6.25 14.28571429 0 6.25 0
0 12.5 14.28571429 0 0 0 0 0 0 300 255 135 245 40 271.5909091
95.45454545 75.75757576 62.82467532 76.6504329 83.79329004 104.7619048 53.57142857 74.70238095 12.5
0 70.53571429 34.82142857 57.14285714 70.53571429 26.78571429 6.25 14.28571429 0 6.25 0
0 12.5 14.28571429 0 0 0 0 0
2003 1 -17 2 0 1 -1 -1 54 100 0 300 100 0 14.28571429 54.28571429
168.5714286 61.9047619 50 30.95238095 71.66666667 100 40 8.333333333 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 100
0 300 100 0 14.28571429 54.28571429 168.5714286 61.9047619 50 30.95238095 71.66666667
100 40 8.333333333 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
2004 1 -17 2 0 1 -1 -1 34 0 0 100 100 300 233.3333333 100
158.3333333 33.33333333 25 0 22.22222222 0 108.3333333 0 0 0 36.11111111
11.11111111 100 11.11111111 0 50 0 11.11111111 0 0 0 0 0 100 0
0 0 0 0 0 100 100 300 233.3333333 100 158.3333333 33.33333333 25 0
22.22222222 0 108.3333333 0 0 0 36.11111111 11.11111111 100 11.11111111 0 50
0 11.11111111 0 0 0 0 0 100 0 0 0 0
2005 1 -17 2 0 1 -1 -1 39.72351745 0 0 0 0 0 0 112.5
76.03438619 117.5616039 68.00907259 77.94746864 65 25 0 0 37.94746864 0 20 0
0 0 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 112.5 76.03438619 117.5616039 68.00907259 77.94746864 65 25 0
0 37.94746864 0 20 0 0 0 0 100 0 0 0 0 0 0 0
0 0 0 0 0
2006 1 -17 2 0 1 -1 -1 31 0 0 50 250 0 0 25 79.16666667
137.5 116.6666667 16.66666667 25 58.33333333 91.66666667 0 0 0 0 0 0 50
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 50
250 0 0 25 79.16666667 137.5 116.6666667 16.66666667 25 58.33333333 91.66666667 0
0 0 0 0 0 50 0 0 0 0 0 0 0 0 0 0 0
0 0 0

2007 1 -17 2 0 1 -1 -1 61.5 0 0 133.3333333 216.6666667 225 295 160
70 12.5 121.5909091 161.3636364 43.18181818 30.68181818 76.13636364 0 18.18181818 9.090909091
9.090909091 200 0 0 9.090909091 0 9.090909091 0 0 0 0 0 0 0
0 0 0 0 0 0 133.3333333 216.6666667 225 295 160 70 12.5 121.5909091
161.3636364 43.18181818 30.68181818 76.13636364 0 18.18181818 9.090909091 9.090909091 200 0
0 9.090909091 0 9.090909091 0 0 0 0 0 0 0 0 0 0 0
2008 1 -17 2 0 1 -1 -1 98 194.1176471 405.8823529 0 0 264.4444444
114.4444444 296.1111111 150 50 83.33333333 25 100 25 25 33.33333333 33.33333333 0
0 0 50 0 0 0 0 0 150 0 0 0 0 0 0 0 0
100 194.1176471 405.8823529 0 0 264.4444444 114.4444444 296.1111111 150 50 83.33333333
25 100 25 25 33.33333333 33.33333333 0 0 0 50 0 0 0 0 0
150 0 0 0 0 0 0 0 0 100
2009 1 -17 2 0 1 -1 -1 12 0 100 0 0 0 100 0 0 100
100 100 100 0 50 50 50 50 0 0 0 0 100 0 0 0 0
0 0 0 0 0 0 0 0 0 0 100 0 0 0 100 0 0
100 100 100 100 0 50 50 50 50 0 0 0 0 100 0 0 0
0 0 0 0 0 0 0 0 0 0
2010 1 -17 2 0 1 -1 -1 82 150 200 350 0 0 0 200 150 120
70 40 120 50 50 50 16.66666667 0 16.66666667 0 33.33333333 0 0 0
0 0 16.66666667 0 0 0 0 0 16.66666667 0 0 150 150 200 350
0 0 0 200 150 120 70 40 120 50 50 50 16.66666667 0 16.66666667
0 33.33333333 0 0 0 0 0 16.66666667 0 0 0 0 0 16.66666667
0 0 150
2011 1 -17 2 0 1 -1 -1 62 0 200 100 346.1111111 142.7777778 161.1111111
116.6666667 133.3333333 0 61.11111111 71.11111111 81.11111111 11.11111111 31.11111111 0
36.11111111 0 91.66666667 58.33333333 25 0 0 0 0 33.33333333 0 0 0
0 0 0 0 0 0 0 0 200 100 346.1111111 142.7777778 161.1111111
116.6666667 133.3333333 0 61.11111111 71.11111111 81.11111111 11.11111111 31.11111111 0
36.11111111 0 91.66666667 58.33333333 25 0 0 0 0 33.33333333 0 0 0
0 0 0 0 0 0 0
2012 1 -17 2 0 1 -1 -1 121.5 100 200 0 133.3333333 403.4722222 124.8611111
135 75 106.9047619 20.53571429 80.95238095 53.57142857 110.4166667 35.41666667 56.25 25 100
31.25 6.25 0 20.53571429 0 25 0 6.25 0 50 0 0 0 0 0 0
0 0 100 200 0 133.3333333 403.4722222 124.8611111 135 75 106.9047619 20.53571429
80.95238095 53.57142857 110.4166667 35.41666667 56.25 25 100 31.25 6.25 0 20.53571429 0
25 0 6.25 0 50 0 0 0 0 0 0 0 0
2013 1 -17 2 0 1 -1 -1 67 100 200 0 150 200 163.3333333 33.33333333
170 33.33333333 66.66666667 33.33333333 16.66666667 0 0 0 66.66666667 33.33333333
36.66666667 25 16.66666667 25 0 120 20 0 45 0 0 0 20 0 0
0 0 25 100 200 0 150 200 163.3333333 33.33333333 170 33.33333333 66.66666667
33.33333333 16.66666667 0 0 0 66.66666667 33.33333333 36.66666667 25 16.66666667 25
0 120 20 0 45 0 0 0 20 0 0 0 0 25
2014 1 -17 2 0 1 -1 -1 198 0 300 235.7142857 294.2857143 103.5714286
165.2380952 111.9047619 131.240378 50.92902267 101.9190954 53.42809365 44.01311249 43.88703084
40.53830228 81.05324627 32.98136646 28.1573499 23.39544513 23.39544513 14.28571429 19.52380952

```
      39.28571429  24.28571429  9.109730849  19.52380952  49.28571429  20     10     0      0      4.761904762  0
      0      0     24.28571429  0      300   235.7142857  294.2857143  103.5714286  165.2380952  111.9047619
      131.240378   50.92902267  101.9190954  53.42809365  44.01311249  43.88703084  40.53830228  81.05324627
      32.98136646  28.1573499   23.39544513  23.39544513  14.28571429  19.52380952  39.28571429  24.28571429
      9.109730849  19.52380952  49.28571429  20     10     0      0      4.761904762  0      0      0      24.28571429

# 2014 NWFSC CAAL -- WA (n=349)
2003  1      18     1      0      1      13     13     1      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      14     14     1      0      0      0      0      0      0      0      0      0
      0      0      100    0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      15     15     4      0      0      0      0      0      0      25     25     50
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     25
      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      16     16     5      0      0      0      0      0      0      0      20     40
      20     0      0      0      20     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20
      40     20     0      0      0      20     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      17     17     5      0      0      0      0      0      0      20     20     40
      20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20     20
      40     20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      18     18     5      0      0      0      0      0      0      0      0      40
      20     20     0      20     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      40     20     20     0      20     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      19     19     8      0      0      0      0      0      0      0      12.5   0
      0      12.5   37.5   25     0      0      0      12.5   0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      12.5
      0      0      12.5   37.5   25     0      0      0      12.5   0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2003  1      18     1      0      1      20     20     10     0      0      0      0      0      0      0      0      0
      0      30     30     30     10     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	30	30	30	10	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	18	1	0	1	21	21	7	0	0	0	0	0	0	0	0	0
	0	14.28571429		0	28.57142857		0	14.28571429		14.28571429		14.28571429		0	14.28571429		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	14.28571429		0	28.57142857		0	14.28571429		
	14.28571429		14.28571429		0	14.28571429		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0											
2003	1	18	1	0	1	22	22	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		0	0	33.33333333		0	0	0	33.33333333		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333		0	0	33.33333333		0	0	0
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0		
2003	1	18	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	11	11	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	12	12	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	14	14	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	16	16	4	0	0	0	0	0	0	25	0	0
	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	0	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	17	17	6	0	0	0	0	0	0	0	0	
	33.33333333		33.33333333		16.66666667		0	0	0	0	0	0	0	16.66666667		0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	33.33333333	33.33333333	16.66666667	0	0	0	0	0	0	0	0	0
	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2004	1	18	1	0	1	18	18	3	0	0	0	0	0	0	0	0	
	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	18	1	0	1	19	19	8	0	0	0	0	0	0	0	0	25
	25	0	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	25	0	25	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	25	25	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	25	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	21	21	5	0	0	0	0	0	0	0	0	0
	0	0	0	20	0	20	0	0	20	0	40	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	0	20	0	0	20	0	40	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	24	24	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0							

2005	1	18	1	0	1	13	13	3	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	15	15	3	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	16	16	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	17	17	4	0	0	0	0	0	0	0	25	50
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	18	18	5	0	0	0	0	0	0	0	0	0
	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	19	19	3	0	0	0	0	0	0	0	0	0
	66.66666667		0	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	66.66666667		0	0	33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	18	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	25	25	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	25	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	21	21	5	0	0	0	0	0	0	0	0	0
	20	0	20	20	20	20	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	0	20	20	20	20	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2005	1	18	1	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	1	0	1	16	16	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	1	0	1	17	17	3	0	0	0	0	0	0	0	33.33333333	
	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	33.33333333	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2006	1	18	1	0	1	18	18	4	0	0	0	0	0	0	0	25	0
	25	0	0	25	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	0	25	0	0	25	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	1	0	1	19	19	6	0	0	0	0	0	0	0	0	
	16.66666667	0	33.33333333	33.33333333	0	16.66666667	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	16.66666667	0	33.33333333	33.33333333	0	16.66666667	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2006	1	18	1	0	1	20	20	6	0	0	0	0	0	0	0	0	0
	0	0	0	16.66666667	16.66666667	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	16.66666667	16.66666667	33.33333333	33.33333333	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
2006	1	18	1	0	1	21	21	8	0	0	0	0	0	0	0	0	0
	0	0	12.5	12.5	12.5	12.5	0	25	12.5	12.5	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	12.5	12.5	12.5	12.5	0	25	12.5	12.5	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	1	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	1	0	1	23	23	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	33.33333333		0	0	0	0	0	0	33.33333333		
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	33.33333333		0	0	0	0
	0	0	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0	0
2006	1	18	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0							
2006	1	18	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	6	6	2	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	7	7	5	0	0	40	60	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	40	60	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	8	8	23	0	0	0	86.95652174		13.04347826		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86.95652174		
	13.04347826		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	18	1	0	1	9	9	12	0	0	0	91.66666667		8.333333333		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91.66666667		
	8.333333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2007	1	18	1	0	1	10	10	4	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	11	11	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	12	12	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	13	13	2	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	14	14	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	15	15	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	16	16	4	0	0	0	0	0	0	25	0	50
	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	50	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	17	17	2	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	18	18	8	0	0	0	0	0	0	0	0	25
	37.5	12.5	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	37.5	12.5	25	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	19	19	5	0	0	0	0	0	0	0	0	0
	40	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	40	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	1	0	1	20	20	13	0	0	0	0	0	0	0	0	0
	7.692307692		0	38.46153846		30.76923077		0	7.692307692		0	15.38461538		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	7.692307692	0	38.46153846	30.76923077	0	7.692307692	0			
	15.38461538	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0													
2007	1	18	1	0	1	21	21	7	0	0	0	0	0	0	0	0
	0	0	0	14.28571429	28.57142857	28.57142857	0	0	14.28571429	14.28571429	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	14.28571429	28.57142857	28.57142857	0	0			
	14.28571429	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0													
2007	1	18	1	0	1	22	22	4	0	0	0	0	0	0	0	0
	0	0	0	25	0	0	25	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	25	0	0	25	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2007	1	18	1	0	1	23	23	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	33.33333333	66.66666667	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	33.33333333	66.66666667	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	18	1	0	1	24	24	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	33.33333333	0	0	0	0	
	0	33.33333333	0	0	33.33333333	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		
	0	0	0	0	0	33.33333333	0	0	33.33333333	0	0	0	0	0		
2007	1	18	1	0	1	25	25	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	33.33333333	0	0	33.33333333	0	0	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	33.33333333	0	0	33.33333333		
	0	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0		
2008	1	18	1	0	1	9	9	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	1	0	1	10	10	3	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	1	0	1	11	11	3	0	0	0	33.33333333	33.33333333	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2008	1	18	1	0	1	12	12	3	0	0	0	33.33333333	33.33333333	0	0	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	33.33333333	0	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2008	1	18	1	0	1	13	13	6	0	0	0	0	16.66666667	16.66666667		
	16.66666667	16.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	16.66666667	16.66666667	16.66666667	16.66666667	33.33333333	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0												
2008	1	18	1	0	1	14	14	10	0	0	0	0	0	30	10	50	10
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	10	50
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	18	1	0	1	15	15	7	0	0	0	0	0	0	28.57142857		
	42.85714286	14.28571429	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	28.57142857	42.85714286	14.28571429	14.28571429	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0														
2008	1	18	1	0	1	16	16	3	0	0	0	0	0	0	0	33.33333333	
	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	33.33333333	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2008	1	18	1	0	1	17	17	3	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	18	1	0	1	18	18	5	0	0	0	0	0	0	0	0	0
	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	18	1	0	1	19	19	3	0	0	0	0	0	0	0		
	33.33333333	33.33333333	0	0	0	0	33.33333333	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	33.33333333	33.33333333	0	0	0	0	33.33333333	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2008	1	18	1	0	1	20	20	9	0	0	0	0	0	0	0	0	0
	22.22222222	22.22222222	11.11111111	0	11.11111111	22.22222222	11.11111111	0	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	22.22222222	22.22222222	11.11111111	0	11.11111111				
	22.22222222	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0										
2008	1	18	1	0	1	21	21	11	0	0	0	0	0	0	0	0
	0	0	36.36363636	0	9.090909091	9.090909091	9.090909091	18.18181818	0	9.090909091	0					
	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	36.36363636	0	9.090909091	9.090909091			
	9.090909091	18.18181818	0	9.090909091	0	9.090909091	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0									
2008	1	18	1	0	1	22	22	14	0	0	0	0	0	0	0	0
	0	0	0	0	14.28571429	21.42857143	7.142857143	7.142857143	21.42857143	7.142857143	0					
	7.142857143	7.142857143	0	0	0	7.142857143	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429			
	21.42857143	7.142857143	7.142857143	21.42857143	7.142857143	0	7.142857143	7.142857143	0	0						
	0	7.142857143	0	0	0	0	0	0	0	0	0					
2008	1	18	1	0	1	23	23	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2008	1	18	1	0	1	24	24	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	33.33333333	0	33.33333333	0	0	0	
	0	0	0	0	0	0	0	0	33.33333333	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0	0	
2008	1	18	1	0	1	25	25	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	8	8	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	10	10	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	11	11	2	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						

2009	1	18	1	0	1	12	12	7	0	0	0	0	42.85714286	14.28571429		
	14.28571429	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	42.85714286	14.28571429	14.28571429	28.57142857	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0														
2009	1	18	1	0	1	13	13	3	0	0	0	0	0	66.66666667	33.33333333	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2009	1	18	1	0	1	14	14	2	0	0	0	0	0	0	50	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	15	15	3	0	0	0	0	0	0	0	33.33333333
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2009	1	18	1	0	1	16	16	3	0	0	0	0	0	0	0	33.33333333
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2009	1	18	1	0	1	17	17	2	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	18	18	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	19	19	1	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2009	1	18	1	0	1	20	20	4	0	0	0	0	0	0	0	0
	25	0	25	0	25	0	25	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	25	0	25	0	25	0	25	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	1	0	1	21	21	6	0	0	0	0	0	0	0	0	0
	0	16.66666667		16.66666667		16.66666667		0	0	16.66666667		33.33333333		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	16.66666667		16.66666667		16.66666667		0	0	16.66666667	
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
2009	1	18	1	0	1	22	22	4	0	0	0	0	0	0	0	0	0
	0	0	25	0	0	0	0	0	25	0	25	0	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	25	0	0	0	0	0	25	0	25	0	25	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	1	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	1	0	1	12	12	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	1	0	1	13	13	5	0	0	0	0	0	20	80	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	80	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	1	0	1	14	14	8	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	1	0	1	15	15	8	0	0	0	0	0	0	0	75	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0								
2010	1	18	1	0	1	16	16	3	0	0	0	0	0	0	0	33.33333333		
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2010	1	18	1	0	1	17	17	6	0	0	0	0	0	0	0	16.66666667		
	33.33333333	33.33333333	0	0	0	16.66666667	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	16.66666667	33.33333333	33.33333333	0	0	0	16.66666667	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0																	
2010	1	18	1	0	1	18	18	2	0	0	0	0	0	0	0	0	50	
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0								
2010	1	18	1	0	1	19	19	7	0	0	0	0	0	0	0	0	0	
	0	14.28571429	57.14285714	0	0	14.28571429	0	0	14.28571429	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	14.28571429	57.14285714	0	0	14.28571429	0	0					
	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0																
2010	1	18	1	0	1	20	20	8	0	0	0	0	0	0	0	0	0	
	0	12.5	12.5	25	25	12.5	12.5	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	12.5	12.5	25	25	12.5	12.5	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0								
2010	1	18	1	0	1	21	21	14	0	0	0	0	0	0	0	0	0	
	0	0	0	14.28571429	21.42857143	21.42857143	21.42857143	21.42857143	14.28571429	0	0	7.142857143						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	14.28571429	21.42857143	21.42857143					
	21.42857143	14.28571429	0	0	7.142857143	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0												
2010	1	18	1	0	1	22	22	15	0	0	0	0	0	0	0	0	0	
	0	0	0	6.666666667	6.666666667	6.666666667	13.33333333	20	6.666666667	33.33333333								
	6.666666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	6.666666667	6.666666667				
	6.666666667	13.33333333	20	6.666666667	33.33333333	6.666666667	0	0	0	0	0	0						
	0	0	0	0	0	0	0	0	0									
2010	1	18	1	0	1	23	23	3	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	33.33333333	33.33333333	0	0	0	0	0	0		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	33.33333333	0		
	0	0	0	0	33.33333333	0	0	0	0	0	0	0	0	0	0		
2010	1	18	1	0	1	24	24	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	25	0	0	25	25	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	0	0	25	25	25	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	1	0	1	25	25	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	18	1	0	1	14	14	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	18	1	0	1	15	15	3	0	0	0	0	0	0	0	33.33333333	
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2011	1	18	1	0	1	16	16	2	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	18	1	0	1	17	17	5	0	0	0	0	0	0	0	0	60
	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	60	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	18	1	0	1	18	18	3	0	0	0	0	0	0	0	0	0
	33.33333333	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	33.33333333	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2011	1	18	1	0	1	19	19	6	0	0	0	0	0	0	0	0	0
	33.33333333	50	0	0	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333	50	0	0	0	16.66666667	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2011	1	18	1	0	1	20	20	14	0	0	0	0	0	0	0	0	0
	0	0	7.142857143	28.57142857	21.42857143	7.142857143	14.28571429	14.28571429	0	7.142857143							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	7.142857143	28.57142857	21.42857143			
	7.142857143	14.28571429	14.28571429	0	7.142857143	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0								
2011	1	18	1	0	1	21	21	11	0	0	0	0	0	0	0	0
	0	0	0	0	9.090909091	18.18181818	18.18181818	0	9.090909091	0	18.18181818					
	9.090909091	9.090909091	0	0	9.090909091	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	9.090909091			
	18.18181818	18.18181818	0	9.090909091	0	18.18181818	9.090909091	9.090909091	0	0						
	9.090909091	0	0	0	0	0	0	0	0	0						
2011	1	18	1	0	1	22	22	20	0	0	0	0	0	0	0	0
	0	0	5	5	10	5	20	0	10	10	10	10	5	5	0	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	5	5	10	5	20	0	10	10	10	10	5	5	0
	5															
	0	0	0	0	0	0	0	0	0	0						
2011	1	18	1	0	1	23	23	8	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	12.5	0	12.5	0	12.5	0	12.5	12.5	0	25
	0	0	0	0	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	12.5	0	12.5	0	12.5	0	12.5	12.5	0
	25															
	0	0	0	0	0	12.5	0	0	0	0						
2011	1	18	1	0	1	24	24	4	0	0	0	0	0	0	0	0
	0	0	0	0	0	25	0	0	0	0	25	0	0	25	0	0
	25															
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	25	0	0	0	0	25	0	0	25	0
	0															
	25	0	0	0	0	0	0	0	0	0						
2011	1	18	1	0	1	25	25	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0						
2012	1	18	1	0	1	1	1	1	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2012	1	18	1	0	1	2	2	0.5	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2012	1	18	1	0	1	3	3	11	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						

2012	1	18	1	0	1	4	4	21	0	95.23809524	4.761904762	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	95.23809524	4.761904762	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	5	5	3.5	0	42.85714286	57.14285714	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	42.85714286	57.14285714	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	6	6	2	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	7	7	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	8	8	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	10	10	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	11	11	4	0	0	0	25	50	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	25	50	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	12	12	7	0	0	0	0	42.85714286	42.85714286	
	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	42.85714286	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	1	18	1	0	1	13	13	5	0	0	0	0	0	40	40	0	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

2012	1	18	1	0	1	14	14	3	0	0	0	0	0	0	0	66.66666667
	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2012	1	18	1	0	1	15	15	12	0	0	0	0	0	0	0	41.66666667
	33.33333333	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	41.66666667	33.33333333	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
2012	1	18	1	0	1	16	16	16	0	0	0	0	0	0	0	25	25
	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	1	0	1	17	17	9	0	0	0	0	0	0	0	22.22222222
	33.33333333	22.22222222	0	11.11111111	11.11111111	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	22.22222222	33.33333333	22.22222222	0	11.11111111	11.11111111	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
2012	1	18	1	0	1	18	18	3	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2012	1	18	1	0	1	19	19	8	0	0	0	0	0	0	0	0
	25	12.5	25	0	0	0	0	12.5	25	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	12.5	25	0	0	0	0	12.5	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2012	1	18	1	0	1	20	20	5	0	0	0	0	0	0	0	0
	0	0	20	20	20	40	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	20	20	20	40	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2012	1	18	1	0	1	21	21	6	0	0	0	0	0	0	0	0
	0	0	0	0	16.66666667	0	16.66666667	0	0	16.66666667	0	16.66666667	0			
	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	16.66666667	0	16.66666667	0		
	0	16.66666667	0	16.66666667	0	16.66666667	16.66666667	0	0	0	0	0	0			
	0	0	0	0	0											
2012	1	18	1	0	1	22	22	6	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	33.33333333	16.66666667	0	0	16.66666667	16.66666667				
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	16.66666667	
	0	0	16.66666667	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0		
	0	0	0	0												
2012	1	18	1	0	1	23	23	7	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	14.28571429	14.28571429	0	0	0	0	14.28571429		
	14.28571429	28.57142857	0	0	0	14.28571429	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429		
	14.28571429	0	0	0	0	14.28571429	14.28571429	28.57142857	0	0	0	14.28571429				
	0	0	0	0	0	0										
2012	1	18	1	0	1	24	24	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0	33.33333333		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	33.33333333	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0		
	0															
2012	1	18	1	0	1	25	25	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	5	5	5	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	6	6	29	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	7	7	12	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						

2013	1	18	1	0	1	8	8	6	0	0	33.33333333	33.33333333	16.66666667	0		
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	33.33333333	16.66666667	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0															
2013	1	18	1	0	1	9	9	2	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	11	11	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	12	12	3	0	0	0	33.33333333	33.33333333	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	1	18	1	0	1	13	13	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	16	16	4	0	0	0	0	0	0	25	0	0
	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	0	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2013	1	18	1	0	1	18	18	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	1	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	0	0	25	50	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	25	50	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	1	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	0	0	33.33333333		0	33.33333333		0	0	33.33333333		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	33.33333333		0	33.33333333		0	0	33.33333333		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013	1	18	1	0	1	21	21	5	0	0	0	0	0	0	0	0	0
	0	0	20	0	0	20	0	40	0	20	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	20	0	0	20	0	40	0	20	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	1	0	1	22	22	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0
	33.33333333		0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333		0	0	0	0	0	0	0
	0	0	0	0	33.33333333		0	33.33333333		0	0	0	0	0	0	0	
2013	1	18	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	2	2	1.5	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	5	5	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	6	6	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	7	7	5	0	0	20	60	20	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	20	60	20	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	8	8	9	0	0	0	66.66666667	33.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	18	1	0	1	9	9	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	10	10	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	13	13	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	1	0	1	14	14	7	0	0	0	0	0	14.28571429	0		
	85.71428571	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	14.28571429	0	85.71428571	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2014	1	18	1	0	1	15	15	6	0	0	0	0	16.66666667	0	66.66666667		
	0	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	16.66666667	0	66.66666667	0	0	16.66666667	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2014	1	18	1	0	1	16	16	7	0	0	0	0	0	0	14.28571429		
	42.85714286	28.57142857	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	14.28571429	42.85714286	28.57142857	0	14.28571429	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2014	1	18	1	0	1	17	17	13	0	0	0	0	0	0	15.38461538		
	15.38461538	15.38461538	38.46153846	15.38461538	0	0	0	0	0	0	0	0	0	0			

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 15.38461538 15.38461538 15.38461538 38.46153846 15.38461538 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
2014 1 18 1 0 1 18 18 16 0 0 0 0 0 0 0 12.5 12.5
12.5 37.5 12.5 6.25 0 0 0 6.25 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 12.5
12.5 12.5 37.5 12.5 6.25 0 0 0 6.25 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
2014 1 18 1 0 1 19 19 31 0 0 0 0 0 0 0 6.451612903
6.451612903 19.35483871 19.35483871 29.03225806 9.677419355 6.451612903 0 0 0 0 0
0 3.225806452 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 6.451612903 6.451612903 19.35483871 19.35483871 29.03225806
9.677419355 6.451612903 0 0 0 0 0 0 3.225806452 0 0 0 0 0
0 0 0 0 0 0 0 0 0
2014 1 18 1 0 1 20 20 18 0 0 0 0 0 0 0 0 0
5.555555556 0 22.22222222 11.11111111 33.33333333 11.11111111 11.11111111 5.555555556 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 5.555555556 0 22.22222222 11.11111111 33.33333333
11.11111111 11.11111111 5.555555556 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
2014 1 18 1 0 1 21 21 30 0 0 0 0 0 0 0 0 0
0 0 6.666666667 6.666666667 6.666666667 16.66666667 16.66666667 10 10 13.33333333
6.666666667 3.333333333 3.333333333 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 6.666666667 6.666666667
6.666666667 16.66666667 16.66666667 10 10 13.33333333 6.666666667 3.333333333 3.333333333 0
0 0 0 0 0 0 0 0 0 0 0 0
2014 1 18 1 0 1 22 22 23 0 0 0 0 0 0 0 0 0
0 0 0 4.347826087 0 17.39130435 13.04347826 8.695652174 13.04347826 8.695652174 0
8.695652174 17.39130435 4.347826087 0 0 0 4.347826087 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 4.347826087 0
17.39130435 13.04347826 8.695652174 13.04347826 8.695652174 0 8.695652174 17.39130435 4.347826087
0 0 0 4.347826087 0 0 0 0 0 0 0 0
2014 1 18 1 0 1 23 23 17 0 0 0 0 0 0 0 0 0
0 0 0 5.882352941 5.882352941 5.882352941 5.882352941 11.76470588 5.882352941 11.76470588
0 5.882352941 11.76470588 5.882352941 0 0 17.64705882 0 5.882352941 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0
5.882352941 5.882352941 5.882352941 5.882352941 11.76470588 5.882352941 11.76470588 0 5.882352941
11.76470588 5.882352941 0 0 17.64705882 0 5.882352941 0 0 0 0 0 0
0
2014 1 18 1 0 1 24 24 5 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 20 20 0 0 0 0 20
20 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 20 20 0 0 0 0
20 20 0 20 0 0 0 0 0 0

2003	1	18	2	0	1	13	13	4	0	0	0	0	0	25	25	25	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	18	2	0	1	14	14	4	0	0	0	0	0	50	0	0	25
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0
	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	18	2	0	1	15	15	4	0	0	0	0	0	0	0	50	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	18	2	0	1	16	16	5	0	0	0	0	0	20	20	0	40
	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	0
	40	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	18	2	0	1	17	17	8	0	0	0	0	0	0	0	37.5	25
	25	0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.5
	25	25	0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2003	1	18	2	0	1	18	18	12	0	0	0	0	0	0	0	0	25
	16.66666667	0	16.66666667	16.66666667	0	8.333333333	8.333333333	0	0	8.333333333	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	25	16.66666667	0	16.66666667	16.66666667	0	8.333333333				
	8.333333333	0	0	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0												
2003	1	18	2	0	1	19	19	13	0	0	0	0	0	0	0	0	
	7.692307692	15.38461538	15.38461538	0	30.76923077	7.692307692	7.692307692	7.692307692	7.692307692								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	7.692307692	15.38461538	15.38461538	0				
	30.76923077	7.692307692	7.692307692	7.692307692	7.692307692	0	0	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0						
2003	1	18	2	0	1	20	20	11	0	0	0	0	0	0	0	0	0
	0	18.18181818	9.090909091	9.090909091	18.18181818	18.18181818	0	0	0	0	9.090909091						
	0	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0	9.090909091		
	0	0	0	0	0	0	0	0	0	0	18.18181818	9.090909091	9.090909091				
	18.18181818	18.18181818	0	0	0	0	9.090909091	0	9.090909091	0	0	0	0				
	0	0	0	0	0	0	0	0	9.090909091								
2003	1	18	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	2	0	1	12	12	2	0	0	0	0	0	0	50	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	2	0	1	13	13	3	0	0	0	0	0	0	66.66666667		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2004	1	18	2	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	2	0	1	15	15	3	0	0	0	0	0	0	66.66666667	0	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	66.66666667	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2004	1	18	2	0	1	16	16	5	0	0	0	0	0	0	0	0	0
	80	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	80	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	2	0	1	17	17	4	0	0	0	0	0	0	0	0	25
	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	2	0	1	18	18	5	0	0	0	0	0	0	0	0	0
	40	0	20	0	20	20	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	40	0	20	0	20	20	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	18	2	0	1	19	19	3	0	0	0	0	0	0	0	0	
	33.33333333	0	0	33.33333333	0	0	33.33333333	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333	0	0	33.33333333	0	0	33.33333333	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	18	2	0	1	20	20	12	0	0	0	0	0	0	0	0	0
	8.333333333	8.333333333	0	8.333333333	0	0	16.66666667	0	0	16.66666667	8.333333333						

	0	0	8.333333333	0	0	8.333333333	0	0	0	0	0	0	0	0		
	16.66666667	0	0	0	0	0	0	0	0	0	8.333333333	8.333333333	0			
	8.333333333	0	0	16.66666667	0	0	16.66666667	8.333333333	0	0	8.333333333	0				
	0	8.333333333	0	0	0	0	0	0	0	0	16.66666667					
2004	1	18	2	0	1	21	21	5	0	0	0	0	0	0	0	0
	0	0	0	20	20	0	20	0	0	0	0	0	20	0	0	0
	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
	0	0	0	0	20	20	0	20	0	0	0	0	0	20	0	0
	0	0	0	0	0	0	0	0	0	20						
2004	1	18	2	0	1	22	22	2	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	0	0	0	0	0	0	0	0	50						
2004	1	18	2	0	1	23	23	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100						
2005	1	18	2	0	1	14	14	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	2	0	1	15	15	3	0	0	0	0	0	0	33.33333333		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2005	1	18	2	0	1	16	16	6	0	0	0	0	0	0	16.66666667		
	33.33333333	16.66666667	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	16.66666667	33.33333333	16.66666667	16.66666667	16.66666667	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2005	1	18	2	0	1	17	17	8	0	0	0	0	0	0	0	12.5	50
	25	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5
	50	25	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	2	0	1	18	18	8	0	0	0	0	0	0	0	12.5	25
	12.5	12.5	12.5	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5
	25	12.5	12.5	12.5	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2005	1	18	2	0	1	19	19	7	0	0	0	0	0	0	0	0	0
	0	57.14285714		0	14.28571429		0	14.28571429		0	0	0	0	0	0	0	0
	14.28571429		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	57.14285714		0	14.28571429		0	14.28571429		0	0	0
	0	0	0	0	0	14.28571429		0	0	0	0	0	0	0	0	0	0
	0																
2005	1	18	2	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2005	1	18	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	14	14	3	0	0	0	0	0	0	33.33333333		
	66.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333		66.66666667		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2006	1	18	2	0	1	15	15	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	16	16	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	17	17	4	0	0	0	0	0	0	0	0	0
	25	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	18	18	16	0	0	0	0	0	0	0	0	0
	6.25	18.75	37.5	6.25	6.25	6.25	6.25	0	12.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	6.25	18.75	37.5	6.25	6.25	6.25	6.25	0	12.5	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	19	19	10	0	0	0	0	0	0	0	0	0
	0	0	20	20	10	0	10	10	10	0	10	0	0	0	0	0	10
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	20	20	10	0	10	10	10	0	10	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	20	20	6	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	16.66666667		0	0	33.33333333	0	0	0	0
	16.66666667		0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		0	0
	33.33333333		0	0	0	16.66666667		0	33.33333333		0	0	0	0	0	0	0
	0																
2006	1	18	2	0	1	21	21	5	0	0	0	0	0	0	0	0	0
	0	0	0	20	0	0	20	0	20	0	0	0	20	0	0	0	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	0	0	20	0	20	0	0	0	20	0	0	0
	0	20	0	0	0	0	0	0	0	0							
2006	1	18	2	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
2007	1	18	2	0	1	6	6	2	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	7	7	9	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	8	8	26	0	0	0	88.46153846		11.53846154		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88.46153846		
	11.53846154		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2007	1	18	2	0	1	9	9	8	0	0	0	62.5	37.5	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	62.5	37.5	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	10	10	6	0	0	0	66.66666667		16.66666667		16.66666667	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	
	16.66666667		16.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2007	1	18	2	0	1	11	11	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	13	13	4	0	0	0	0	25	25	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	14	14	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	15	15	2	0	0	0	0	0	50	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	16	16	10	0	0	0	0	0	0	20	30	30
	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	30
	30	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	17	17	14	0	0	0	0	0	0	0	0	
	28.57142857		35.71428571		14.28571429		21.42857143		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	28.57142857		35.71428571		14.28571429		21.42857143		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2007	1	18	2	0	1	18	18	35	0	0	0	0	0	0	0	2.857142857	
	2.857142857		20	14.28571429		28.57142857		11.42857143		11.42857143		2.857142857		0	2.857142857		0
	0	0	2.857142857		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	2.857142857		2.857142857		20	14.28571429		28.57142857	
	11.42857143		11.42857143		2.857142857		0	2.857142857		0	0	0	2.857142857		0	0	0
	0	0	0	0	0	0	0	0	0	0	0						
2007	1	18	2	0	1	19	19	8	0	0	0	0	0	0	0	0	0
	12.5	0	0	12.5	25	12.5	12.5	12.5	0	12.5	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	12.5	0	0	12.5	25	12.5	12.5	12.5	0	12.5	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2007	1	18	2	0	1	20	20	22	0	0	0	0	0	0	0	0	0
	0	0	9.090909091		9.090909091		13.63636364		13.63636364		4.545454545		13.63636364		18.18181818		
	9.090909091		4.545454545		4.545454545		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.090909091		

	9.090909091	13.63636364	13.63636364	4.545454545	13.63636364	18.18181818	9.090909091	4.545454545								
	4.545454545	0	0	0	0	0	0	0	0	0	0	0	0	0		
2007	1	18	2	0	1	21	21	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	66.66666667	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	33.33333333	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	66.66666667	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	33.33333333	0	0			
2007	1	18	2	0	1	26	26	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	2	0	1	9	9	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	2	0	1	10	10	5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	2	0	1	11	11	2	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	2	0	1	12	12	6	0	0	0	0	16.66666667	16.66666667		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16.66666667	16.66666667	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	1	18	2	0	1	13	13	10	0	0	0	0	0	0	50	20	30
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	20
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	2	0	1	14	14	10	0	0	0	0	10	10	10	40	10
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	40
	10	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2008	1	18	2	0	1	15	15	9	0	0	0	0	0	0	33.33333333	0
	33.33333333	22.22222222	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	33.33333333	0	33.33333333	22.22222222	11.11111111	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0															
2008	1	18	2	0	1	16	16	10	0	0	0	0	0	0	0	30	30
	0	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
	30	0	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	18	2	0	1	17	17	6	0	0	0	0	0	0	0	16.66666667	
	0	50	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	16.66666667	0	50	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2008	1	18	2	0	1	18	18	8	0	0	0	0	0	0	0	0	12.5
	25	0	12.5	37.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5	25	0	12.5	37.5	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	18	2	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	0	0	0	0	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	0	0	0	0	0	0	0	50	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2008	1	18	2	0	1	20	20	5	0	0	0	0	0	0	0	0	0
	0	0	0	20	0	0	20	0	0	0	0	0	0	20	0	0	0
	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	0	0	20	0	0	0	0	0	0	20	0	0
	0	0	40	0	0	0	0	0	0	0							
2008	1	18	2	0	1	21	21	5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
	20	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0
	0	20	0	0	0	0	0	0	0	60							
2008	1	18	2	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	50							
2009	1	18	2	0	1	7	7	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	2	0	1	10	10	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	2	0	1	11	11	7	0	0	0	0	71.42857143	14.28571429		0	
	0	0	14.28571429		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	71.42857143		14.28571429		0	0	0	14.28571429		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	1	18	2	0	1	12	12	7	0	0	0	0	0	57.14285714		28.57142857	
	14.28571429		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	57.14285714		28.57142857		14.28571429		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2009	1	18	2	0	1	13	13	2	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	2	0	1	14	14	6	0	0	0	0	0	16.66666667		50	
	16.66666667		16.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	16.66666667		50	16.66666667		16.66666667		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	1	18	2	0	1	15	15	6	0	0	0	0	0	16.66666667		0	
	16.66666667		16.66666667		33.33333333		16.66666667		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	16.66666667		0	16.66666667		16.66666667		33.33333333		16.66666667	0		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
2009	1	18	2	0	1	16	16	5	0	0	0	0	0	0	0	40	20
	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	2	0	1	17	17	11	0	0	0	0	0	0	0	9.090909091	
	18.18181818		36.36363636		18.18181818		0	9.090909091		9.090909091		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	9.090909091		18.18181818		36.36363636		18.18181818	0	9.090909091			
	9.090909091		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0											
2009	1	18	2	0	1	18	18	6	0	0	0	0	0	0	0	0	0
	0	50	33.33333333		16.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	33.33333333		16.66666667		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

2009	1	18	2	0	1	19	19	5	0	0	0	0	0	0	0	0	0
	0	0	20	20	20	20	0	20	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	20	20	20	20	0	20	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2009	1	18	2	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	25	0	25	25	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	25	0	25	25	25	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	2	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	2	0	1	11	11	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	2	0	1	12	12	2	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2010	1	18	2	0	1	13	13	6	0	0	0	0	16.66666667	0	50		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	16.66666667	0	50	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2010	1	18	2	0	1	14	14	12	0	0	0	0	0	0	50	41.66666667	
	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50	41.66666667	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2010	1	18	2	0	1	15	15	9	0	0	0	0	0	0	22.22222222		
	33.33333333	22.22222222	11.11111111	0	0	11.11111111	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	22.22222222	33.33333333	22.22222222	11.11111111	0	0	11.11111111	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0													
2010	1	18	2	0	1	16	16	12	0	0	0	0	0	0	33.33333333	0	
	25	33.33333333	0	0	8.333333333	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

	0	33.33333333	0	25	33.33333333	0	0	8.333333333	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2010	1	18	2	0	1	17	17	10	0	0	0	0	0	0	0	20
	30	0	30	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	0	30	0	30	20	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2010	1	18	2	0	1	18	18	9	0	0	0	0	0	0	0	0
	11.11111111	44.44444444	11.11111111	0	22.22222222	0	0	0	11.11111111	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	11.11111111	44.44444444	11.11111111	0	22.22222222	0	0			
	0	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
2010	1	18	2	0	1	19	19	9	0	0	0	0	0	0	0	0
	0	11.11111111	0	11.11111111	33.33333333	11.11111111	0	22.22222222	0	0	0					
	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	11.11111111	0	11.11111111	33.33333333				
	11.11111111	0	22.22222222	0	0	0	11.11111111	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0									
2010	1	18	2	0	1	20	20	9	0	0	0	0	0	0	0	0
	0	0	0	0	11.11111111	0	0	0	33.33333333	11.11111111	11.11111111	11.11111111				
	0	0	22.22222222	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	11.11111111	0	0	0		
	33.33333333	11.11111111	11.11111111	11.11111111	0	0	22.22222222	0	0	0	0	0				
	0	0	0	0	0	0										
2010	1	18	2	0	1	21	21	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	66.66666667	0	33.33333333	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	0	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0			
2010	1	18	2	0	1	22	22	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	18	2	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2011	1	18	2	0	1	12	12	1	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						

2011	1	18	2	0	1	13	13	3	0	0	0	0	33.33333333	33.33333333		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	1	18	2	0	1	14	14	5	0	0	0	0	0	0	40	40	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	18	2	0	1	15	15	10	0	0	0	0	0	0	20	40	10
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40
	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2011	1	18	2	0	1	16	16	7	0	0	0	0	0	0	0	28.57142857	
	42.85714286	0	14.28571429	0	14.28571429	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	28.57142857	42.85714286	0	14.28571429	0	14.28571429	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
2011	1	18	2	0	1	17	17	12	0	0	0	0	0	0	0	0	25
	33.33333333	8.333333333	8.333333333	16.66666667	8.333333333	0	0	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	25	33.33333333	8.333333333	8.333333333	16.66666667	8.333333333	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0														
2011	1	18	2	0	1	18	18	24	0	0	0	0	0	0	0	0	0
	0	20.83333333	12.5	20.83333333	20.83333333	12.5	4.166666667	0	8.333333333	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	20.83333333	12.5	20.83333333	20.83333333	12.5	4.166666667				
	0	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0														
2011	1	18	2	0	1	19	19	36	0	0	0	0	0	0	0	0	0
	0	11.11111111	5.555555556	2.777777778	16.66666667	8.333333333	2.777777778	11.11111111	8.333333333								
	5.555555556	5.555555556	8.333333333	2.777777778	2.777777778	2.777777778	0	2.777777778	0								
	2.777777778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	11.11111111	5.555555556	2.777777778	16.66666667	8.333333333	2.777777778	11.11111111								
	8.333333333	5.555555556	5.555555556	8.333333333	2.777777778	2.777777778	2.777777778	0	2.777777778								
	0	2.777777778	0	0	0	0	0	0	0								
2011	1	18	2	0	1	20	20	14	0	0	0	0	0	0	0	0	0
	0	0	0	7.142857143	0	7.142857143	7.142857143	0	14.28571429	7.142857143	14.28571429						
	7.142857143	0	7.142857143	7.142857143	7.142857143	0	0	0	7.142857143	0	0	0					
	0	0	7.142857143	0	0	0	0	0	0	0	0	0	0	0			
	7.142857143	0	7.142857143	7.142857143	0	14.28571429	7.142857143	14.28571429	7.142857143	0							

	7.142857143	7.142857143	7.142857143	0	0	0	7.142857143	0	0	0	0	0					
	7.142857143																
2011	1	18	2	0	1	21	21	11	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	18.18181818	0	0	0	9.090909091	0	0	0			
	9.090909091	18.18181818	9.090909091	9.090909091	0	0	9.090909091	0	0	0							
	18.18181818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18.18181818	0	0	0	9.090909091	0	0	0	9.090909091	18.18181818	9.090909091						
	9.090909091	0	0	9.090909091	0	0	0	0	18.18181818								
2011	1	18	2	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
2011	1	18	2	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
2012	1	18	2	0	1	1	1	2	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	2	2	1.5	33.33333333	66.66666667	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	33.33333333	66.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2012	1	18	2	0	1	3	3	13	0	92.30769231	7.692307692	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	92.30769231	7.692307692	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2012	1	18	2	0	1	4	4	27	0	96.2962963	3.703703704	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	96.2962963	3.703703704	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2012	1	18	2	0	1	5	5	13.5	0	48.14814815	51.85185185	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	48.14814815	51.85185185	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2012	1	18	2	0	1	6	6	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	7	7	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	9	9	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	10	10	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	11	11	4	0	0	0	0	50	25	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	25	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	12	12	8	0	0	0	0	37.5	50	12.5	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	37.5	50	12.5	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	13	13	7	0	0	0	0	14.28571429	28.57142857			
	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	14.28571429	28.57142857	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2012	1	18	2	0	1	14	14	11	0	0	0	0	9.090909091	9.090909091			
	27.27272727	18.18181818	18.18181818	9.090909091	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	9.090909091	9.090909091	27.27272727	18.18181818	18.18181818	9.090909091							
	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0								
2012	1	18	2	0	1	15	15	15	0	0	0	0	0	0	26.66666667	20	
	20	13.33333333	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	26.66666667	20	20	13.33333333	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

2012	1	18	2	0	1	16	16	15	0	0	0	0	0	6.666666667	0	
	6.666666667	13.33333333	60	13.33333333	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	6.666666667	0	6.666666667	13.33333333	60	13.33333333	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0														
2012	1	18	2	0	1	17	17	14	0	0	0	0	0	0	7.142857143	
	7.142857143	28.57142857	0	35.71428571	0	0	7.142857143	0	7.142857143	7.142857143	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	7.142857143	7.142857143	28.57142857	0	35.71428571	0	0			
	7.142857143	0	7.142857143	7.142857143	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0								
2012	1	18	2	0	1	18	18	15	0	0	0	0	0	0	0	0
	0	46.66666667	20	13.33333333	6.666666667	0	0	6.666666667	0	6.666666667	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	46.66666667	20	13.33333333	6.666666667	0	0			
	6.666666667	0	6.666666667	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0												
2012	1	18	2	0	1	19	19	16	0	0	0	0	0	0	0	0	6.25
	0	0	6.25	6.25	12.5	12.5	0	25	0	0	18.75	6.25	0	6.25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.25	0	0	6.25	6.25	12.5	12.5	0	25	0	0	18.75	6.25	0	6.25	0	0
	0	0	0	0	0	0	0	0	0	0							
2012	1	18	2	0	1	20	20	17	0	0	0	0	0	0	0	0	0
	5.882352941	0	0	0	0	11.76470588	5.882352941	5.882352941	11.76470588	11.76470588	0					
	5.882352941	5.882352941	5.882352941	11.76470588	0	0	5.882352941	0	5.882352941	0	0					
	0	0	5.882352941	0	0	0	0	0	0	0	0	0	0	5.882352941	0	
	0	0	0	11.76470588	5.882352941	5.882352941	11.76470588	11.76470588	0	5.882352941						
	5.882352941	5.882352941	11.76470588	0	0	5.882352941	0	5.882352941	0	0	0	0				
	5.882352941	0														
2012	1	18	2	0	1	21	21	11	0	0	0	0	0	0	0	0	0
	0	0	0	9.090909091	9.090909091	0	9.090909091	0	0	0	18.18181818	18.18181818					
	0	0	9.090909091	0	9.090909091	0	0	0	9.090909091	0	0	0	9.090909091				
	0	0	0	0	0	0	0	0	0	0	0	0	9.090909091	9.090909091			
	0	9.090909091	0	0	0	18.18181818	18.18181818	0	0	9.090909091	0	9.090909091					
	0	0	0	9.090909091	0	0	0	9.090909091	0								
2012	1	18	2	0	1	22	22	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	0	0	0	0	0	0	75							
2013	1	18	2	0	1	2	2	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	3	3	4	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	4	4	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	5	5	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	6	6	14	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	7	7	13	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	8	8	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	11	11	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	12	12	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	13	13	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	14	14	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	16	16	3	0	0	0	0	0	0	0	0	
	33.33333333		0	0	33.33333333		0	0	33.33333333		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		0	0	33.33333333		0	0	33.33333333		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	1	18	2	0	1	17	17	4	0	0	0	0	0	0	25	0	0
	0	50	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	0	0	50	0	0	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	19	19	5	0	0	0	0	0	0	0	0	20
	20	0	0	20	0	0	0	20	0	0	0	20	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	20	0	0	20	0	0	0	20	0	0	0	20	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	20	20	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0
	50	0	0	0	0	0	0	0	0	0							
2013	1	18	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	2	2	1.5	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	6	6	2	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	8	8	5	0	0	0	80	20	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	80	20	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	9	9	5	0	0	0	40	60	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	40	60	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	12	12	3	0	0	0	0	66.66666667	0	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	
	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2014	1	18	2	0	1	13	13	4	0	0	0	0	0	25	75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2014	1	18	2	0	1	14	14	7	0	0	0	0	0	0	42.85714286		
	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	42.85714286	42.85714286	14.28571429	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2014	1	18	2	0	1	15	15	14	0	0	0	0	0	0	21.42857143		
	42.85714286	28.57142857	7.142857143	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	21.42857143	42.85714286	28.57142857	7.142857143	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
2014	1	18	2	0	1	16	16	15	0	0	0	0	0	0	6.666666667		
	26.66666667	13.33333333	13.33333333	20	13.33333333	6.666666667	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	6.666666667	26.66666667	13.33333333	13.33333333	20	13.33333333						
	6.666666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0										

```
2014   1      18     2      0      1      17     17     31     0      0      0      0      0      3.225806452  6.451612903
       6.451612903  12.90322581  19.35483871  25.80645161  6.451612903  6.451612903  3.225806452  9.677419355  0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      3.225806452  6.451612903  6.451612903  12.90322581  19.35483871
       25.80645161  6.451612903  6.451612903  3.225806452  9.677419355  0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0
2014   1      18     2      0      1      18     18     31     0      0      0      0      0      0      0      6.451612903
       9.677419355  3.225806452  12.90322581  22.58064516  22.58064516  9.677419355  3.225806452  0      3.225806452
       0      3.225806452  3.225806452  0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      6.451612903  9.677419355  3.225806452
       12.90322581  22.58064516  22.58064516  9.677419355  3.225806452  0      3.225806452  0      3.225806452
       3.225806452  0      0      0      0      0      0      0      0      0      0      0      0      0      0
2014   1      18     2      0      1      19     19     41     0      0      0      0      0      0      0      0
       4.87804878   9.756097561  4.87804878   9.756097561  2.43902439   24.3902439   9.756097561  2.43902439
       12.19512195  7.317073171  0      4.87804878   2.43902439   2.43902439   0      2.43902439   0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       4.87804878   9.756097561  4.87804878   9.756097561  2.43902439   24.3902439   9.756097561  2.43902439
       12.19512195  7.317073171  0      4.87804878   2.43902439   2.43902439   0      2.43902439   0      0      0
       0      0      0      0      0      0      0
2014   1      18     2      0      1      20     20     29     0      0      0      0      0      0      0      0      0
       3.448275862  0      0      10.34482759  0      0      3.448275862  13.79310345  13.79310345  0      10.34482759
       3.448275862  3.448275862  3.448275862  0      10.34482759  3.448275862  0      0      3.448275862  0      0
       3.448275862  0      0      13.79310345  0      0      0      0      0      0      0      0      0      3.448275862
       0      0      10.34482759  0      0      3.448275862  13.79310345  13.79310345  0      10.34482759  3.448275862
       3.448275862  3.448275862  0      10.34482759  3.448275862  0      0      3.448275862  0      0      3.448275862
       0      0      13.79310345
2014   1      18     2      0      1      21     21     11     0      0      0      0      0      0      0      0      0
       0      0      0      0      0      18.18181818  0      0      0      9.090909091  0      9.090909091  9.090909091
       0      0      0      9.090909091  9.090909091  0      0      0      0      0      9.090909091  9.090909091
       18.18181818  0      0      0      0      0      0      0      0      0      0      0      0      0
       18.18181818  0      0      0      9.090909091  0      9.090909091  9.090909091  0      0      0      9.090909091
       9.090909091  0      0      0      0      0      9.090909091  9.090909091  18.18181818
2014   1      18     2      0      1      22     22     1      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      100    0      0
# 2015 NWFSC CAAL -- WA (n=24)
2003   1      -18    1      0      1      -1     -1     51     0      0      0      0      0      100    45     77.5   170
       60     76.78571429  167.5  103.5714286  63.33333333  14.28571429  64.28571429  60.11904762  50     14.28571429
       0      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      100    45     77.5   170    60     76.78571429  167.5  103.5714286  63.33333333
       14.28571429  64.28571429  60.11904762  50     14.28571429  0      33.33333333  0      0      0      0      0
       0      0      0      0      0      0      0      0      0
```

2004 1 -18 1 0 1 -1 -1 40 0 0 0 0 0 150 175 100
91.66666667 166.6666667 100 25 45 250 20 0 0 20 66.66666667 90 0 0
0 0 0 0 0 0 0 0 0 0 100 0 0 0 0 0 0
0 150 175 100 91.66666667 166.6666667 100 25 45 250 20 0 0 20
66.66666667 90 0 0 0 0 0 0 0 0 0 0 0 0 100 0
0
2005 1 -18 1 0 1 -1 -1 32 0 0 0 0 0 0 200 225 50
151.6666667 45 165 123.3333333 20 20 0 0 0 0 100 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
200 225 50 151.6666667 45 165 123.3333333 20 20 0 0 0 0 100 0
0 0 0 0 0 0 0 0 0 0 0 0 0
2006 1 -18 1 0 1 -1 -1 35 0 0 0 0 0 0 0 58.33333333
16.66666667 158.3333333 66.66666667 45.83333333 104.1666667 120.8333333 45.83333333 66.66666667 25
12.5 12.5 0 0 0 33.33333333 33.33333333 100 0 0 100 0 0 0 0
0 0 0 0 0 0 0 0 0 0 58.33333333 16.66666667 158.3333333
66.66666667 45.83333333 104.1666667 120.8333333 45.83333333 66.66666667 25 12.5 12.5 0 0
0 33.33333333 33.33333333 100 0 0 100 0 0 0 0 0 0 0
2007 1 -18 1 0 1 -1 -1 105 0 0 140 338.6231884 21.37681159 200 75
150 175 185.1923077 32.5 128.4615385 70.05494505 28.57142857 36.26373626 25 132.0512821
80.95238095 14.28571429 33.33333333 33.33333333 0 33.33333333 0 0 0 33.33333333 0
0 33.33333333 0 0 0 0 0 0 0 140 338.6231884 21.37681159 200 75
150 175 185.1923077 32.5 128.4615385 70.05494505 28.57142857 36.26373626 25 132.0512821
80.95238095 14.28571429 33.33333333 33.33333333 0 33.33333333 0 0 0 33.33333333 0
0 33.33333333 0 0 0 0 0
2008 1 -18 1 0 1 -1 -1 89 0 0 0 166.6666667 183.3333333 80
55.23809524 176.1904762 224.2857143 109.8412698 75.55555556 67.47474747 20 34.48773449 86.07503608
27.34487734 25.32467532 21.42857143 116.2337662 33.33333333 149.5670996 7.142857143 0 0 0
7.142857143 0 0 0 0 0 0 33.33333333 0 0 0 0 0 166.6666667
183.3333333 80 55.23809524 176.1904762 224.2857143 109.8412698 75.55555556 67.47474747 20
34.48773449 86.07503608 27.34487734 25.32467532 21.42857143 116.2337662 33.33333333 149.5670996
7.142857143 0 0 0 7.142857143 0 0 0 0 0 0 33.33333333 0 0
2009 1 -18 1 0 1 -1 -1 44 0 0 0 0 242.8571429 130.952381
147.6190476 95.23809524 283.3333333 25 16.66666667 66.66666667 116.6666667 25 0 41.66666667
83.33333333 25 0 125 50 125 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 242.8571429 130.952381 147.6190476 95.23809524 283.3333333
25 16.66666667 66.66666667 116.6666667 25 0 41.66666667 83.33333333 25 0 125 50
125 0 0 0 0 0 0 0 0 0 0 0 0 0
2010 1 -18 1 0 1 -1 -1 87 0 0 0 0 100 120 130 175
141.6666667 66.66666667 76.78571429 69.64285714 45.95238095 69.76190476 54.88095238 47.26190476
34.28571429 54.28571429 91.66666667 13.80952381 0 75 25 75 33.33333333 0 0 0
0 0 0 0 0 0 0 0 0 0 100 120 130 175 141.6666667
66.66666667 76.78571429 69.64285714 45.95238095 69.76190476 54.88095238 47.26190476 34.28571429
54.28571429 91.66666667 13.80952381 0 75 25 75 33.33333333 0 0 0 0 0
0 0 0 0 0

2011 1 -18 1 0 1 -1 -1 79 0 0 0 0 0 100 50 83.33333333
126.6666667 86.66666667 70 45.47619048 66.9047619 40.51948052 71.99134199 64.96753247 14.28571429
31.59090909 17.14285714 65.68181818 19.09090909 26.59090909 42.5 0 39.09090909 25 0 100
0 0 12.5 0 0 0 0 0 0 0 0 0 100 50 83.33333333
126.6666667 86.66666667 70 45.47619048 66.9047619 40.51948052 71.99134199 64.96753247 14.28571429
31.59090909 17.14285714 65.68181818 19.09090909 26.59090909 42.5 0 39.09090909 25 0 100
0 0 12.5 0 0 0 0
2012 1 -18 1 0 1 -1 -1 141 200 238.0952381 261.9047619 225 92.85714286
107.8571429 54.28571429 155.5555556 111.6666667 130.5555556 137.5 56.11111111 31.11111111 36.66666667
40 50 43.45238095 39.28571429 16.66666667 16.66666667 66.66666667 16.66666667 64.28571429
164.2857143 28.57142857 0 0 0 14.28571429 0 0 0 0 0 0 200
238.0952381 261.9047619 225 92.85714286 107.8571429 54.28571429 155.5555556 111.6666667 130.5555556
137.5 56.11111111 31.11111111 36.66666667 40 50 43.45238095 39.28571429 16.66666667 16.66666667
66.66666667 16.66666667 64.28571429 164.2857143 28.57142857 0 0 0 14.28571429 0 0
0 0 0 0
2013 1 -18 1 0 1 -1 -1 86 0 200 333.3333333 116.6666667 200 133.3333333
141.6666667 0 0 150 25 78.33333333 100 91.66666667 70 0 123.3333333 0 20
0 50 0 0 0 0 33.33333333 0 33.33333333 0 0 0 0 0 0
0 0 200 333.3333333 116.6666667 200 133.3333333 141.6666667 0 0 150 25
78.33333333 100 91.66666667 70 0 123.3333333 0 20 0 50 0 0 0 0
33.33333333 0 33.33333333 0 0 0 0 0 0 0
2014 1 -18 1 0 1 -1 -1 197.5 100 200 20 226.6666667 220 164.2857143
96.33699634 162.9076569 62.90765686 92.53859939 86.52516838 70.42114695 43.93537616 52.33396584
51.05143507 46.70360898 42.26591361 28.9258312 33.79369139 26.66666667 41.1371449 32.48934356
10.23017903 0 0 37.64705882 24.34782609 5.882352941 20 0 0 0 0 0 0
100 200 20 226.6666667 220 164.2857143 96.33699634 162.9076569 62.90765686 92.53859939
86.52516838 70.42114695 43.93537616 52.33396584 51.05143507 46.70360898 42.26591361 28.9258312
33.79369139 26.66666667 41.1371449 32.48934356 10.23017903 0 0 37.64705882 24.34782609
5.882352941 20 0 0 0 0 0 0
2003 1 -18 2 0 1 -1 -1 62 0 0 0 0 0 95 45 112.5
147.6923077 132.0512821 33.56643357 58.25757576 56.52680653 25.87412587 34.20745921 16.02564103
7.692307692 0 8.333333333 9.090909091 0 109.0909091 0 0 0 0 0 0 0
0 0 0 0 0 9.090909091 0 0 0 0 0 95 45 112.5 147.6923077
132.0512821 33.56643357 58.25757576 56.52680653 25.87412587 34.20745921 16.02564103 7.692307692 0
8.333333333 9.090909091 0 109.0909091 0 0 0 0 0 0 0 0 0 0
0 0 9.090909091
2004 1 -18 2 0 1 -1 -1 46 0 0 0 0 0 0 283.3333333
33.33333333 91.66666667 253.3333333 28.33333333 53.33333333 28.33333333 40 53.33333333 36.66666667
0 0 16.66666667 8.333333333 0 20 8.333333333 50 0 8.333333333 0 0 0
0 0 0 0 0 186.6666667 0 0 0 0 0 0 283.3333333 33.33333333
91.66666667 253.3333333 28.33333333 53.33333333 28.33333333 40 53.33333333 36.66666667 0 0
16.66666667 8.333333333 0 20 8.333333333 50 0 8.333333333 0 0 0 0 0
0 0 0 186.6666667
2005 1 -18 2 0 1 -1 -1 37 0 0 0 0 0 0 50 225
91.66666667 54.16666667 98.80952381 12.5 76.78571429 12.5 14.28571429 0 50 0 100 0

0 0 0 14.28571429 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 50 225 91.66666667 54.16666667 98.80952381 12.5 76.78571429 12.5
14.28571429 0 50 0 100 0 0 0 0 14.28571429 0 0 0 0 0
0 0 0 0 0 0
2006 1 -18 2 0 1 -1 -1 49 0 0 0 0 0 0 33.33333333
166.6666667 100 31.25 18.75 132.5 46.25 16.25 6.25 36.25 10 59.16666667 0 10 33.33333333
20 0 0 16.66666667 10 53.33333333 0 0 0 0 0 0 0 100 0
0 0 0 0 0 33.33333333 166.6666667 100 31.25 18.75 132.5 46.25 16.25 6.25 36.25
10 59.16666667 0 10 33.33333333 20 0 0 16.66666667 10 53.33333333 0 0
0 0 0 0 0 100
2007 1 -18 2 0 1 -1 -1 152 0 0 50 367.6282051 190.7051282 191.6666667
70 32.85714286 111.4285714 78.21428571 28.57142857 69.09090909 33.01948052 50.06493506 95.66017316
17.04545455 28.99350649 18.18181818 21.59090909 4.545454545 7.402597403 0 0 0 100 0
0 0 0 0 0 0 33.33333333 0 0 0 0 50 367.6282051 190.7051282
191.6666667 70 32.85714286 111.4285714 78.21428571 28.57142857 69.09090909 33.01948052 50.06493506
95.66017316 17.04545455 28.99350649 18.18181818 21.59090909 4.545454545 7.402597403 0 0 0
100 0 0 0 0 0 0 0 33.33333333 0 0
2008 1 -18 2 0 1 -1 -1 81 0 0 0 0 226.6666667 26.66666667 260
106.6666667 115.8333333 117.2222222 37.77777778 109.1666667 57.5 12.5 0 20 0 0 0
0 0 50 40 0 0 0 20 40 0 0 0 0 50 0 110 0
0 0 0 226.6666667 26.66666667 260 106.6666667 115.8333333 117.2222222 37.77777778
109.1666667 57.5 12.5 0 20 0 0 0 0 0 50 40 0 0 0 20
40 0 0 0 0 50 0 110
2009 1 -18 2 0 1 -1 -1 61 0 0 100 0 71.42857143 204.7619048
128.5714286 146.7099567 71.51515152 103.982684 104.8484848 53.33333333 45.75757576 29.09090909 20
0 20 25 0 25 25 25 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 100 0 71.42857143 204.7619048 128.5714286 146.7099567 71.51515152
103.982684 104.8484848 53.33333333 45.75757576 29.09090909 20 0 20 25 0 25 25
25 0 0 0 0 0 0 0 0 0 0 0 0 0
2010 1 -18 2 0 1 -1 -1 85 0 0 0 0 166.6666667 100 205.5555556
128.3333333 55.55555556 85.55555556 55.55555556 41.11111111 50.55555556 66.66666667 11.11111111 0
22.22222222 44.44444444 11.11111111 111.1111111 88.88888889 0 33.33333333 22.22222222 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 166.6666667 100
205.5555556 128.3333333 55.55555556 85.55555556 55.55555556 41.11111111 50.55555556 66.66666667
11.11111111 0 22.22222222 44.44444444 11.11111111 111.1111111 88.88888889 0 33.33333333
22.22222222 0 0 0 0 0 0 0 0 0 0 0
2011 1 -18 2 0 1 -1 -1 127 0 0 0 0 133.3333333 33.33333333
93.33333333 108.5714286 197.8571429 63.33333333 54.56349206 26.38888889 61.70634921 45.83333333
27.97619048 32.26911977 11.11111111 30.95238095 12.6984127 28.93217893 15.47619048 2.777777778
9.920634921 19.01154401 25.32467532 11.86868687 9.090909091 2.777777778 7.142857143 9.090909091 0
0 0 0 225.3246753 0 0 0 0 133.3333333 33.33333333 93.33333333 108.5714286
197.8571429 63.33333333 54.56349206 26.38888889 61.70634921 45.83333333 27.97619048 32.26911977
11.11111111 30.95238095 12.6984127 28.93217893 15.47619048 2.777777778 9.920634921 19.01154401
25.32467532 11.86868687 9.090909091 2.777777778 7.142857143 9.090909091 0 0 0 0
225.3246753

```
2012  1     -18   2     0     1     -1    -1    205   133.3333333  303.4188034  263.2478632  200   110.8766234
      119.3290043  141.4393939  66.27705628  86.33658009  88.30659537  124.8051948  26.25  28.67424242  35.4004329
      24.26470588  22.11611917  44.69187675  11.76470588  18.43137255  36.93181818  30.31417112  5.882352941
      12.13235294  20.85561497  0     9.090909091  5.882352941  25    5.882352941  9.090909091  0     0     0
      14.97326203  75    133.3333333  303.4188034  263.2478632  200   110.8766234  119.3290043  141.4393939
      66.27705628  86.33658009  88.30659537  124.8051948  26.25  28.67424242  35.4004329   24.26470588  22.11611917
      44.69187675  11.76470588  18.43137255  36.93181818  30.31417112  5.882352941  12.13235294  20.85561497  0
      9.090909091  5.882352941  25    5.882352941  9.090909091  0     0     0     14.97326203  75
2013  1     -18   2     0     1     -1    -1    60    0     200   500   100   0     0     225   100
      53.33333333  20    50    33.33333333  20    25    33.33333333  0     20    0     0     100   70    0
      100   0     0     50    0     0     0     0     0     0     0     0     0     0     200   500   100
      0     0     225   100   53.33333333  20    50    33.33333333  20    25    33.33333333  0     20    0
      0     100   70    0     100   0     0     50    0     0     0     0     0     0     0     0     0
2014  1     -18   2     0     1     -1    -1    201.5 100   0     50    270   146.6666667  28.22580645
      185.7373272  125.2841782  78.77112135  51.38316028  68.46577498  47.24364018  55.79984988  15.3422502
      55.47528789  13.20437342  19.45793429  25.9882254   19.63378871  13.57063404  17.41723373  14.97820934
      5.887300252  0     12.78385198  12.53918495  9.090909091  0     3.448275862  0     0     3.448275862
      109.0909091  9.090909091  31.97492163  100   0     50    270   146.6666667  28.22580645  185.7373272
      125.2841782  78.77112135  51.38316028  68.46577498  47.24364018  55.79984988  15.3422502   55.47528789
      13.20437342  19.45793429  25.9882254   19.63378871  13.57063404  17.41723373  14.97820934  5.887300252  0
      12.78385198  12.53918495  9.090909091  0     3.448275862  0     0     3.448275862  109.0909091  9.090909091
      31.97492163

#     2015  Triennial    CAAL -- CA (n=121)
1980  1     19    1     0     1     14    14    0     0     0     0     0     0     100   0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     100   0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     19    1     0     1     16    16    2.5   0     0     0     0     0     0     0     0     50
      25    25    0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      50    25    25    0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     19    1     0     1     17    17    4.5   0     0     0     0     0     0     25    0     0
      50    25    0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     25    0
      0     50    25    0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     19    1     0     1     18    18    3     0     0     0     0     0     0     50    0     0
      0     50    0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     50    0
      0     0     50    0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
```

1980	1	19	1	0	1	19	19	6.5	0	0	0	0	0	0	0	0	
	9.090909091		9.090909091		54.54545455		18.18181818		0	0	9.090909091		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	9.090909091		9.090909091		54.54545455		18.18181818		0	0	
	9.090909091		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
1980	1	19	1	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	14.28571429		42.85714286		28.57142857		14.28571429		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	14.28571429		42.85714286		28.57142857		14.28571429		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
1980	1	19	1	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333		33.33333333		16.66666667		0	16.66666667		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333		33.33333333		16.66666667		0	16.66666667	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
1980	1	19	1	0	1	22	22	1.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	25	0	0	25	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	25	0	0	25	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	19	1	0	1	23	23	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	11	11	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	12	12	2	0	0	0	0	33.33333333		33.33333333		
	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	19	1	0	1	13	13	3	0	0	0	0	37.5	25	25	0	12.5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	37.5	25	25	0
	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	14	14	7	0	0	0	0	10	55	30	5	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	10	55	30	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	15	15	9	0	0	0	0	0	33.33333333	33.33333333		
	27.77777778	0	0	5.555555556	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	33.33333333	27.77777778	0	0	5.555555556	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
1983	1	19	1	0	1	16	16	3.5	0	0	0	0	0	16.66666667	50		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16.66666667	50	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1983	1	19	1	0	1	17	17	4.5	0	0	0	0	0	0	25	25	37.5
	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
	37.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	18	18	3.5	0	0	0	0	0	0	37.5	12.5	25
	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.5	12.5
	25	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	19	19	2	0	0	0	0	0	0	0	25	0
	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	14.28571429	0	14.28571429	28.57142857	14.28571429	28.57142857	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	14.28571429	0	14.28571429	28.57142857	14.28571429	28.57142857					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
1983	1	19	1	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	0	28.57142857	0	0	14.28571429	42.85714286	0	14.28571429	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	28.57142857	0	0	14.28571429	42.85714286	0	14.28571429				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
1983	1	19	1	0	1	22	22	1.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	16.66666667	8.333333333	25	0	8.333333333	8.333333333	16.66666667						
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667	8.333333333	25		

	0	8.333333333	8.333333333	16.66666667	16.66666667	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0										
1983	1	19	1	0	1	23	23	0.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333	0	0	33.33333333	0	33.33333333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0	0		
	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
1983	1	19	1	0	1	24	24	0.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0
	0	0	50	0	0	0	0	0	0	0						
1989	1	19	1	0	1	5	5	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	19	1	0	1	7	7	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	19	1	0	1	8	8	3.5	0	0	12.5	12.5	75	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	12.5	12.5	75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	19	1	0	1	9	9	4	0	0	0	0	88.88888889	11.11111111	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88.88888889
	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
1989	1	19	1	0	1	10	10	4.5	0	0	0	0	87.5	0	12.5	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	87.5	0	12.5	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	19	1	0	1	11	11	3.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	19	1	0	1	12	12	1.5	0	0	0	0	50	0	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	50

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	1	0	1	13	13	3	0	0	0	0	28.57142857	0	28.57142857		
	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	28.57142857	0	28.57142857	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
1989	1	19	1	0	1	14	14	1	0	0	0	0	0	0	25	0	75
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	1	0	1	15	15	1	0	0	0	0	0	0	0	33.33333333	
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1989	1	19	1	0	1	16	16	1.5	0	0	0	0	0	0	0	75	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	5	5	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	7	7	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	10	10	2	0	0	0	50	0	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	11	11	3.5	0	0	0	0	60	20	20	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	60	20	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	12	12	2.5	0	0	0	0	0	40	20	20	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	20	20
	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	13	13	4	0	0	0	0	0	27.27272727		27.27272727	
	18.18181818		18.18181818		0	9.090909091		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	27.27272727		27.27272727		18.18181818		18.18181818		0	9.090909091		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
1995	1	22	1	0	1	14	14	1.5	0	0	0	0	0	50	0	0	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0
	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	15	15	2	0	0	0	0	0	25	0	0	25
	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0
	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	16	16	0.5	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	18	18	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	1	0	1	19	19	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	11	11	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	13	13	1.5	0	0	0	0	0	40	40	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2001	1	22	1	0	1	14	14	2.5	0	0	0	0	0	25	50	0	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50	0
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	16	16	1.5	0	0	0	0	0	0	50	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	17	17	0.5	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	18	18	2	0	0	0	0	0	0	0	0	25
	0	25	25	0	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	25	25	0	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	19	19	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	20	20	0.5	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	1	0	1	21	21	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	3	3	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	13	13	0.5	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2004	1	22	1	0	1	14	14	1.5	0	0	0	0	0	0	33.33333333	
	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	22	1	0	1	15	15	2	0	0	0	0	0	0	20	40	20
	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40
	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	16	16	3	0	0	0	0	0	0	60	0	0
	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0
	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	17	17	2.5	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	18	18	3	0	0	0	0	0	0	25	0	25
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	25	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	19	19	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	20	20	2.5	0	0	0	0	0	0	0	0	0
	16.66666667		33.33333333		33.33333333		0	0	16.66666667		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	16.66666667		33.33333333		33.33333333		0	0	16.66666667		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
2004	1	22	1	0	1	21	21	2.5	0	0	0	0	0	0	0	0	0
	0	0	50	0	25	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	25	25	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	22	1	0	1	22	22	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

```
      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1980  1      19     2      0      1      15     15     0.5    0      0      0      0      0      0      0      33.33333333
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
1980  1      19     2      0      1      16     16     2.5    0      0      0      0      0      0      0      33.33333333
      33.33333333  16.66666667  0      0      16.66666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      33.33333333  33.33333333  16.66666667  0      0      16.66666667  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
1980  1      19     2      0      1      17     17     4.5    0      0      0      0      0      0      0      10.52631579
      10.52631579  31.57894737  26.31578947  10.52631579  5.263157895  0      5.263157895  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      10.52631579  10.52631579  31.57894737  26.31578947  10.52631579
      5.263157895  0      5.263157895  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1980  1      19     2      0      1      18     18     3      0      0      0      0      0      0      0      11.11111111
      11.11111111  0      22.22222222  22.22222222  22.22222222  0      11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      11.11111111  11.11111111  0      22.22222222  22.22222222  22.22222222  0
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
1980  1      19     2      0      1      19     19     6.5    0      0      0      0      0      0      0      0
      9.090909091  0      27.27272727  18.18181818  9.090909091  0      9.090909091  9.090909091  18.18181818  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      9.090909091  0      27.27272727  18.18181818  9.090909091
      0      9.090909091  9.090909091  18.18181818  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
1980  1      19     2      0      1      20     20     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      19     2      0      1      10     10     0      0      0      0      50     0      50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      19     2      0      1      11     11     0.5    0      0      0      0      50     50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	2	0	1	12	12	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	2	0	1	13	13	3	0	0	0	16.66666667	0	50	16.66666667		
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		
	0	50	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1983	1	19	2	0	1	14	14	7	0	0	0	0	23.07692308	46.15384615			
	30.76923077	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	23.07692308	46.15384615	30.76923077	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1983	1	19	2	0	1	15	15	9	0	0	0	0	0	23.07692308	38.46153846		
	30.76923077	7.692307692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	23.07692308	38.46153846	30.76923077	7.692307692	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
1983	1	19	2	0	1	16	16	3.5	0	0	0	0	0	0	20	60	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60
	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	2	0	1	17	17	4.5	0	0	0	0	0	0	0	25	50
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	50	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	2	0	1	18	18	3.5	0	0	0	0	0	0	0	0	0
	20	40	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	40	20	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	19	2	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	0	8.333333333	8.333333333	16.66666667	8.333333333	8.333333333	0	8.333333333	0							
	8.333333333	8.333333333	8.333333333	8.333333333	8.333333333	0	0	0	0	0	0	0	0	0	0		
	0	8.333333333	0	0	0	0	0	0	0	0	0	0	0	0	8.333333333		
	8.333333333	16.66666667	8.333333333	8.333333333	0	8.333333333	0	8.333333333	8.333333333								
	8.333333333	8.333333333	0	0	0	0	0	0	0	0	0	0	8.333333333	0			

1983	1	19	2	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	0	0	0	11.11111111		0	11.11111111		11.11111111		0	11.11111111		0	0	0	
	11.11111111		0	11.11111111		0	0	0	0	0	0	0	11.11111111		0	0	
	22.22222222		0	0	0	0	0	0	0	0	0	0	0	0	11.11111111		0
	11.11111111		11.11111111		0	11.11111111		0	0	0	11.11111111		0	11.11111111		0	0
	0	0	0	0	0	11.11111111		0	0	22.22222222							
1983	1	19	2	0	1	21	21	3	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	0	0	0	0	0	0	0	25	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	25	50							
1983	1	19	2	0	1	22	22	1.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	4	4	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	5	5	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	6	6	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	7	7	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	8	8	3.5	0	0	0	0	88.88888889		11.11111111		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88.88888889	
	11.11111111		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1989	1	19	2	0	1	9	9	4	0	0	0	0	87.5	12.5	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	87.5	12.5	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	10	10	4.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	11	11	3.5	0	0	0	0	87.5	0	0	12.5	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	87.5	0	0	12.5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	12	12	1.5	0	0	0	0	80	0	20	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	13	13	3	0	0	0	0	20	20	20	40	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	40
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	15	15	1	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	19	2	0	1	16	16	1.5	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	7	7	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	8	8	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	9	9	0	0	0	0	50	0	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	50	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	10	10	2	0	0	0	40	0	20	20	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	40	0	20	20	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	11	11	3.5	0	0	0	0	40	20	20	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	40	20	20	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	12	12	2.5	0	0	0	0	0	42.85714286	28.57142857		
	0	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	42.85714286	28.57142857	0	28.57142857	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1995	1	22	2	0	1	13	13	4	0	0	0	0	12.5	37.5	25	12.5	0
	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	37.5	25	12.5
	0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	14	14	1.5	0	0	0	0	0	0	50	0	25
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	25	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	22	2	0	1	15	15	2	0	0	0	0	0	0	0	0	
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2001	1	22	2	0	1	5	5	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	8	8	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	11	11	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	12	12	0.5	0	0	0	0	33.33333333		66.66666667		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	66.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2001	1	22	2	0	1	13	13	1.5	0	0	0	0	0	0	75	0	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	14	14	2.5	0	0	0	0	0	75	0	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	15	15	0.5	0	0	0	0	0	0	20	20	20
	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	16	16	1.5	0	0	0	0	0	50	0	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	17	17	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	22	2	0	1	18	18	2	0	0	0	0	0	0	0	0	0
	0	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	1	22	2	0	1	20	20	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
2004	1	22	2	0	1	12	12	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0

```
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2004  1     22    2     0     1     13    13    0.5   0     0     0     0     0     0     100   0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     100   0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2004  1     22    2     0     1     14    14    1.5   0     0     0     0     0     40    40    20    0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     40    40    20
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2004  1     22    2     0     1     15    15    2     0     0     0     0     0     28.57142857  0
      28.57142857  28.57142857  14.28571429  0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     28.57142857  0     28.57142857  28.57142857  14.28571429  0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0
2004  1     22    2     0     1     16    16    3     0     0     0     0     0     20    0     40    40
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     20    0     40
      40    0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2004  1     22    2     0     1     17    17    2.5   0     0     0     0     0     0     13.33333333  20
      20    6.666666667  20    13.33333333  6.666666667  0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     13.33333333  20    20    6.666666667  20    13.33333333  6.666666667  0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0
2004  1     22    2     0     1     18    18    3     0     0     0     0     0     0     0     12.5  12.5
      25    25    12.5  12.5  0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     12.5
      12.5  25    25    12.5  12.5  0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
2004  1     22    2     0     1     20    20    2.5   0     0     0     0     0     0     0     0     0
      0     33.33333333  0     33.33333333  33.33333333  0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     33.33333333  0     33.33333333  33.33333333  0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
# 2015 Triennial MAAL -- CA (n=12)
1980  1     -19   1     0     1     -1    -1    24.5  0     0     0     0     0     100   75    0
      59.09090909  98.37662338  197.4025974  46.75324675  47.61904762  58.33333333  25.75757576  0     141.6666667
      50    0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     100   75    0     59.09090909  98.37662338  197.4025974  46.75324675
```

47.61904762 58.33333333 25.75757576 0 141.6666667 50 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
1983 1 -19 1 0 1 -1 -1 44.5 0 0 0 0 180.8333333 163.3333333
234.1666667 128.6111111 75 39.28571429 121.6269841 14.28571429 28.57142857 45.23809524 79.76190476
25 14.28571429 41.66666667 8.333333333 16.66666667 50 50 33.33333333 0 0 0 0
50 0 0 0 0 0 0 0 0 0 0 180.8333333 163.3333333
234.1666667 128.6111111 75 39.28571429 121.6269841 14.28571429 28.57142857 45.23809524 79.76190476
25 14.28571429 41.66666667 8.333333333 16.66666667 50 50 33.33333333 0 0 0 0
50 0 0 0 0 0 0 0
1989 1 -19 1 0 1 -1 -1 24 0 0 112.5 12.5 529.9603175 11.11111111
66.07142857 186.9047619 180.952381 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
112.5 12.5 529.9603175 11.11111111 66.07142857 186.9047619 180.952381 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
1995 1 -22 1 0 1 -1 -1 16.5 0 100 0 150 60 162.2727273 117.2727273
38.18181818 93.18181818 45 334.0909091 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 100 0
150 60 162.2727273 117.2727273 38.18181818 93.18181818 45 334.0909091 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
2001 1 -22 1 0 1 -1 -1 9 0 0 0 0 0 165 140 20 75
125 25 225 0 25 100 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 165 140 20
75 125 25 225 0 25 100 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
2004 1 -22 1 0 1 -1 -1 18 0 100 0 0 50 0 188.3333333
173.3333333 78.33333333 106.6666667 53.33333333 83.33333333 100 25 141.6666667 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 100 0 0 50 0 188.3333333 173.3333333 78.33333333 106.6666667 53.33333333
83.33333333 100 25 141.6666667 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0
1980 1 -19 2 0 1 -1 -1 20 0 0 0 0 0 0 0 88.30409357
130.728336 48.24561404 75.81073897 50.93035619 53.24295587 0 25.4651781 9.090909091 18.18181818
0 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 88.30409357 130.728336 48.24561404 75.81073897
50.93035619 53.24295587 0 25.4651781 9.090909091 18.18181818 0 0 100 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0
1983 1 -19 2 0 1 -1 -1 43.5 0 0 0 66.66666667 123.0769231 269.2307692
105.8974359 132.4358974 57.69230769 40 65 28.33333333 39.44444444 16.66666667 19.44444444
19.44444444 0 19.44444444 0 8.333333333 8.333333333 19.44444444 8.333333333 11.11111111 0
25 100 0 0 0 0 11.11111111 0 33.33333333 72.22222222 0 0 0
66.66666667 123.0769231 269.2307692 105.8974359 132.4358974 57.69230769 40 65 28.33333333
39.44444444 16.66666667 19.44444444 19.44444444 0 19.44444444 0 8.333333333 8.333333333

```
      19.44444444  8.333333333  11.11111111  0      25     100    0      0      0      0      11.11111111  0
      33.33333333  72.22222222
1989  1      -19    2      0      1      -1     -1     23     0      0      200    0      663.8888889  43.61111111  40
      252.5  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      200    0      663.8888889
      43.61111111  40     252.5  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
1995  1      -22    2      0      1      -1     -1     16     0      0      0      190    152.5  120.3571429  193.5714286
      52.5   86.9047619   79.16666667  25     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      190
      152.5  120.3571429  193.5714286  52.5   86.9047619   79.16666667  25     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
2001  1      -22    2      0      1      -1     -1     10     0      0      0      100    33.33333333  191.6666667  195
      145    45     70     53.33333333  33.33333333  133.3333333  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      100    33.33333333  191.6666667  195    145    45     70     53.33333333  33.33333333  133.3333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      100
2004  1      -22    2      0      1      -1     -1     15     0      0      0      0      0      188.5714286  153.3333333
      121.0714286  101.0714286  45.95238095  78.33333333  25.83333333  52.5   33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      188.5714286  153.3333333  121.0714286  101.0714286  45.95238095  78.33333333
      25.83333333  52.5   33.33333333  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0

#     2015   Triennial    CAAL -- OR (n=161)
1980  1      20     1      0      1      10     10     0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1980  1      20     1      0      1      11     11     1      0      0      0      0      50     50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1980  1      20     1      0      1      13     13     0.5    0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1980  1      20     1      0      1      14     14     1.5    0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	1	0	1	15	15	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	1	0	1	16	16	4.5	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	1	0	1	17	17	2.5	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	1	0	1	18	18	8	0	0	0	0	0	0	0	0	
	18.18181818	27.27272727	27.27272727	27.27272727	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	18.18181818	27.27272727	27.27272727	27.27272727	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
1980	1	20	1	0	1	19	19	12	0	0	0	0	0	0	0	8.333333333	
	0	8.333333333	41.66666667	33.33333333	8.333333333	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	8.333333333	0	8.333333333	41.66666667	33.33333333	8.333333333	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
1980	1	20	1	0	1	20	20	22	0	0	0	0	0	0	0	0	0
	0	31.25	37.5	18.75	0	12.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	31.25	37.5	18.75	0	12.5	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	1	0	1	21	21	14	0	0	0	0	0	0	0	0	0
	0	16	32	28	16	0	8	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	16	32	28	16	0	8	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	1	0	1	22	22	7.5	0	0	0	0	0	0	0	0	0
	0	3.448275862	13.79310345	13.79310345	27.5862069	20.68965517	6.896551724	6.896551724	6.896551724								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	3.448275862	13.79310345	13.79310345				
	27.5862069	20.68965517	6.896551724	6.896551724	6.896551724	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0							

1980	1	20	1	0	1	23	23	7.5	0	0	0	0	0	0	0	0	0
	4.347826087	0	0	4.347826087	4.347826087	21.73913043	17.39130435	21.73913043	26.08695652	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	4.347826087	0	0	4.347826087	4.347826087				
	21.73913043	17.39130435	21.73913043	26.08695652	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0									
1980	1	20	1	0	1	24	24	2.5	0	0	0	0	0	0	0	0	0
	0	0	0	16.66666667	16.66666667	16.66666667	16.66666667	0	0	33.33333333	16.66666667	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	16.66666667	16.66666667	16.66666667	0	0			
	33.33333333	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
1983	1	20	1	0	1	3	3	0	50	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	1	0	1	4	4	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	1	0	1	5	5	4	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	1	0	1	6	6	1	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	1	0	1	7	7	1	0	0	33.33333333	66.66666667	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	66.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1983	1	20	1	0	1	8	8	3.5	0	0	20	70	10	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	20	70	10	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	1	0	1	9	9	11.5	0	0	6.666666667	90	3.333333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	6.666666667	90		

	3.333333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1983	1	20	1	0	1	10	10	9	0	0	5.882352941	70.58823529	23.52941176	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.882352941	
	70.58823529	23.52941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	20	1	0	1	11	11	12	0	0	0	44	44	12	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	44	44	12	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1983	1	20	1	0	1	12	12	6	0	0	0	33.33333333	41.66666667	25	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	41.66666667	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1983	1	20	1	0	1	13	13	3.5	0	0	0	0	28.57142857	42.85714286		
	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28.57142857	42.85714286	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	20	1	0	1	14	14	1	0	0	0	0	11.11111111	11.11111111		
	77.77777778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11.11111111	11.11111111	77.77777778	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	20	1	0	1	15	15	4.5	0	0	0	0	0	0	71.42857143	0
	0	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	71.42857143	0	0	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
1983	1	20	1	0	1	16	16	5	0	0	0	0	0	0	36.36363636	
	18.18181818	27.27272727	18.18181818	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	36.36363636	18.18181818	27.27272727	18.18181818	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0														
1983	1	20	1	0	1	17	17	9	0	0	0	0	0	0	20	40	20
	13.33333333	6.666666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	40	20	13.33333333	6.666666667	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
1983	1	20	1	0	1	18	18	11.5	0	0	0	0	0	5	0	0	50
	35	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      5      0      0
      50     35     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      20     1      0      1      19     19     16.5   0      0      0      0      0      0      5.555555556  0
      11.11111111  38.88888889  33.33333333  0      11.11111111  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      5.555555556  0      11.11111111  38.88888889  33.33333333  0      11.11111111  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
1983  1      20     1      0      1      20     20     18.5   0      0      0      0      0      0      0      0      6.25
      0      31.25  12.5   12.5   12.5   12.5   6.25   0      6.25   0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      6.25   0      31.25  12.5   12.5   12.5   12.5   6.25   0      6.25   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      20     1      0      1      21     21     13     0      0      0      0      0      0      0      0      0
      0      9.090909091  4.545454545  9.090909091  45.45454545  18.18181818  4.545454545  0      9.090909091  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      9.090909091  4.545454545  9.090909091  45.45454545
      18.18181818  4.545454545  0      9.090909091  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
1983  1      20     1      0      1      22     22     8.5    0      0      0      0      0      0      0      0      0
      0      0      0      9.090909091  9.090909091  27.27272727  0      9.090909091  0      4.545454545  9.090909091
      4.545454545  4.545454545  4.545454545  0      4.545454545  0      9.090909091  0      4.545454545  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      9.090909091  9.090909091  27.27272727  0      9.090909091  0      4.545454545  9.090909091  4.545454545
      4.545454545  4.545454545  0      4.545454545  0      9.090909091  0      4.545454545  0      0      0      0
      0      0
1983  1      20     1      0      1      23     23     3      0      0      0      0      0      0      0      0      0
      0      0      0      8.333333333  0      8.333333333  0      8.333333333  16.66666667  8.333333333  8.333333333
      0      8.333333333  8.333333333  0      8.333333333  0      8.333333333  0      0      0      0      0      0
      0      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      8.333333333
      0      8.333333333  0      8.333333333  16.66666667  8.333333333  8.333333333  0      8.333333333  8.333333333
      0      8.333333333  0      8.333333333  0      0      0      0      0      0      0      8.333333333
1983  1      20     1      0      1      24     24     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      8.333333333  0      0      8.333333333  0      0      8.333333333  8.333333333
      8.333333333  8.333333333  0      8.333333333  0      0      16.66666667  0      8.333333333  8.333333333  0
      0      0      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0
      8.333333333  0      0      8.333333333  0      0      8.333333333  8.333333333  8.333333333  8.333333333  0
      8.333333333  0      0      16.66666667  0      8.333333333  8.333333333  0      0      0      8.333333333
1983  1      20     1      0      1      25     25     2.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      16.66666667  0      0      0      0      16.66666667  0      0      0
      0      0      16.66666667  0      16.66666667  0      0      16.66666667  16.66666667  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      16.66666667  0      0
      0      0      16.66666667  0      0      0      0      0      16.66666667  0      16.66666667  0      0
      16.66666667  16.66666667  0      0
```

1983	1	20	1	0	1	26	26	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100							
1989	1	20	1	0	1	18	18	1	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	20	1	0	1	19	19	1.5	0	0	0	0	0	0	0	0	0
	33.33333333		66.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333		66.66666667		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1989	1	20	1	0	1	20	20	0.5	0	0	0	0	0	0	0	0	0
	33.33333333		33.33333333		0	0	0	33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	33.33333333		33.33333333		0	0	0	33.33333333		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1989	1	20	1	0	1	22	22	0.5	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	20	1	0	1	23	23	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	20	1	0	1	24	24	0.5	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	1	0	1	8	8	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	1	0	1	9	9	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

1995	1	23	1	0	1	10	10	2	0	0	0	0	66.66666667	33.33333333	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
1995	1	23	1	0	1	11	11	2.5	0	0	0	0	66.66666667	0	33.33333333	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667
	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
1995	1	23	1	0	1	12	12	1	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1995	1	23	1	0	1	13	13	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1995	1	23	1	0	1	14	14	1	0	0	0	0	0	0	50	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1995	1	23	1	0	1	15	15	1	0	0	0	0	0	0	0	33.33333333	
	0	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333	0	0	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1995	1	23	1	0	1	16	16	0.5	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1995	1	23	1	0	1	17	17	2.5	0	0	0	0	0	0	0	0	0
	0	66.66666667	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	66.66666667	0	33.33333333	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
1995	1	23	1	0	1	18	18	1.5	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						

1995	1	23	1	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	1	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	0	0	0	42.85714286		28.57142857		0	14.28571429		0	0	0	0	0	14.28571429	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	42.85714286		28.57142857		0	14.28571429		0	0
	0	0	0	14.28571429		0	0	0	0	0	0	0	0	0	0	0	0
	0																
1995	1	23	1	0	1	21	21	3.5	0	0	0	0	0	0	0	0	0
	20	20	0	0	0	20	0	40	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	20	0	0	0	20	0	40	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	1	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	16.66666667		0	0	33.33333333		33.33333333		16.66666667	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		0	0	
	33.33333333		33.33333333		16.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0															
1995	1	23	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333		33.33333333		0	0	0	33.33333333	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		33.33333333		0
	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	
2001	1	23	1	0	1	8	8	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	9	9	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	11	11	1	0	0	0	0	25	75	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	12	12	1	0	0	0	0	25	50	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	13	13	3	0	0	0	0	0	50	33.33333333	0	
	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	33.33333333	0	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
2001	1	23	1	0	1	14	14	2.5	0	0	0	0	20	20	40	0	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	40	0
	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	15	15	4.5	0	0	0	0	0	0	10	20	10
	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20
	10	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	1	0	1	16	16	8.5	0	0	0	0	0	0	0	14.28571429	
	28.57142857	14.28571429	42.85714286	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	14.28571429	28.57142857	14.28571429	42.85714286	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
2001	1	23	1	0	1	17	17	4.5	0	0	0	0	0	0	0	0	
	14.28571429	0	42.85714286	28.57142857	0	0	14.28571429	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	14.28571429	0	42.85714286	28.57142857	0	0	14.28571429	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															

2001	1	23	1	0	1	18	18	7.5	0	0	0	0	7.692307692	0	0	0
	0	15.38461538	30.76923077	15.38461538	7.692307692	0	15.38461538	0	7.692307692	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	7.692307692	0	0	0	0	15.38461538	30.76923077	15.38461538	7.692307692				
	0	15.38461538	0	7.692307692	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0									
2001	1	23	1	0	1	19	19	8.5	0	0	0	0	0	0	0	0
	6.666666667	0	20	6.666666667	26.66666667	20	6.666666667	13.33333333	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	6.666666667	0	20	6.666666667	26.66666667	20	6.666666667			
	13.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0												
2001	1	23	1	0	1	20	20	5	0	0	0	0	0	0	0	0
	10	0	20	30	0	10	10	10	0	0	10	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	10	0	20	30	0	10	10	10	0	0	10	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2001	1	23	1	0	1	21	21	1.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2001	1	23	1	0	1	22	22	0.5	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	23	1	0	1	5	5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	23	1	0	1	15	15	0.5	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	23	1	0	1	17	17	1	0	0	0	0	0	0	0	
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2004	1	23	1	0	1	18	18	3	0	0	0	0	0	0	0	33.33333333
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2004	1	23	1	0	1	19	19	2	0	0	0	0	0	0	0	0
	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	23	1	0	1	20	20	1.5	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	23	1	0	1	21	21	0.5	0	0	0	0	0	0	0	0
	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	23	1	0	1	22	22	1.5	0	0	0	0	0	0	0	0
	0	0	50	0	0	0	0	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	0	0	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1980	1	20	2	0	1	12	12	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1980	1	20	2	0	1	13	13	0.5	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1980	1	20	2	0	1	14	14	1.5	0	0	0	0	33.33333333		0	33.33333333	
	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333		0	33.33333333		0	0	33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	20	2	0	1	15	15	2	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	2	0	1	16	16	4.5	0	0	0	0	0	0	0	50	20
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50

	20	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	2	0	1	17	17	2.5	0	0	0	0	0	0	0	7.142857143	
	21.42857143	28.57142857	21.42857143	14.28571429	0	7.142857143	0	0	0	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	7.142857143	21.42857143	28.57142857	21.42857143	14.28571429	0						
	7.142857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0											
1980	1	20	2	0	1	18	18	8	0	0	0	0	0	0	0	0	4
	28	24	20	12	12	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	28	24	20	12	12	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	2	0	1	19	19	12	0	0	0	0	0	0	0	0	0
	2.777777778	11.11111111	36.11111111	25	19.44444444	5.555555556	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	2.777777778	11.11111111	36.11111111	25	19.44444444	5.555555556					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
1980	1	20	2	0	1	20	20	22	0	0	0	0	0	0	0	0	0
	3.846153846	7.692307692	15.38461538	28.84615385	17.30769231	13.46153846	7.692307692	1.923076923									
	1.923076923	0	1.923076923	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	3.846153846	7.692307692			
	15.38461538	28.84615385	17.30769231	13.46153846	7.692307692	1.923076923	1.923076923	0	1.923076923								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1980	1	20	2	0	1	21	21	14	0	0	0	0	0	0	0	0	0
	0	0	0	25	8.333333333	20.83333333	12.5	4.166666667	16.66666667	8.333333333	4.166666667						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	8.333333333	20.83333333	12.5			
	4.166666667	16.66666667	8.333333333	4.166666667	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0											
1980	1	20	2	0	1	22	22	7.5	0	0	0	0	0	0	0	0	0
	0	0	0	20	0	40	40	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	0	40	40	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	20	2	0	1	23	23	7.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	25	50	25	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	25	50	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	4	4	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	5	5	4	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	6	6	1	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	7	7	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	8	8	3.5	0	0	0	90.90909091	9.090909091	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	90.90909091			
	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1983	1	20	2	0	1	9	9	11.5	0	0	0	90	10	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	90	10	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	10	10	9	0	0	0	68	28	0	4	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	68	28	0	4	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	11	11	12	0	0	0	70	30	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	70	30	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	20	2	0	1	12	12	6	0	0	0	44.44444444	33.33333333	22.22222222			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44.44444444		
	33.33333333	22.22222222	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1983	1	20	2	0	1	13	13	3.5	0	0	0	0	20	80	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	80	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      20     2      0      1      14     14     1      0      0      0      0      50     0      50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
1983  1      20     2      0      1      15     15     4.5    0      0      0      0      7.142857143  42.85714286
      21.42857143  21.42857143  7.142857143  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      7.142857143  42.85714286  21.42857143  21.42857143  7.142857143  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1983  1      20     2      0      1      16     16     5      0      0      0      0      0      11.11111111  22.22222222
      44.44444444  22.22222222  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      11.11111111  22.22222222  44.44444444  22.22222222  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
1983  1      20     2      0      1      17     17     9      0      0      0      0      0      4.347826087  4.347826087
      13.04347826  43.47826087  21.73913043  13.04347826  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      4.347826087  4.347826087  13.04347826  43.47826087  21.73913043  13.04347826  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
1983  1      20     2      0      1      18     18     11.5   0      0      0      0      0      0      0      7.894736842
      18.42105263  31.57894737  15.78947368  5.263157895  10.52631579  5.263157895  5.263157895  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      7.894736842  18.42105263  31.57894737  15.78947368  5.263157895
      10.52631579  5.263157895  5.263157895  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
1983  1      20     2      0      1      19     19     16.5   0      0      0      0      0      0      0      1.639344262
      0      4.918032787  4.918032787  6.557377049  9.836065574  24.59016393  18.03278689  3.278688525  3.278688525
      4.918032787  3.278688525  0      3.278688525  0      4.918032787  0      0      0      0      0      0      0
      0      0      3.278688525  0      3.278688525  0      0      0      0      0      0      0      1.639344262  0
      4.918032787  4.918032787  6.557377049  9.836065574  24.59016393  18.03278689  3.278688525  3.278688525
      4.918032787  3.278688525  0      3.278688525  0      4.918032787  0      0      0      0      0      0      0
      0      0      3.278688525  0      3.278688525
1983  1      20     2      0      1      20     20     18.5   0      0      0      0      0      0      0      0      0
      1.612903226  0      0      1.612903226  8.064516129  9.677419355  4.838709677  6.451612903  6.451612903
      3.225806452  4.838709677  8.064516129  3.225806452  3.225806452  1.612903226  0      3.225806452  1.612903226
      3.225806452  4.838709677  4.838709677  1.612903226  3.225806452  1.612903226  3.225806452  9.677419355  0
      0      0      0      0      0      0      0      0      1.612903226  0      0      1.612903226  8.064516129
      9.677419355  4.838709677  6.451612903  6.451612903  3.225806452  4.838709677  8.064516129  3.225806452
```

	3.225806452	1.612903226	0	3.225806452	1.612903226	3.225806452	4.838709677	4.838709677	1.612903226							
	3.225806452	1.612903226	3.225806452	9.677419355												
1983	1	20	2	0	1	21	21	13	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	3.571428571	3.571428571	0	3.571428571	14.28571429				
	3.571428571	0	3.571428571	10.71428571	3.571428571	0	7.142857143	3.571428571	0	0						
	0	3.571428571	39.28571429	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	3.571428571	3.571428571	0	3.571428571	14.28571429	3.571428571	0					
	3.571428571	10.71428571	3.571428571	0	7.142857143	3.571428571	0	0	0	0	3.571428571					
	39.28571429															
1983	1	20	2	0	1	22	22	8.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	12.5	0	0	12.5	0	0	75	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	12.5	0	0	12.5	0	0	75						
1983	1	20	2	0	1	23	23	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100						
1989	1	20	2	0	1	16	16	0.5	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	20	2	0	1	17	17	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	20	2	0	1	18	18	1	0	0	0	0	0	0	0	0
	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	20	2	0	1	19	19	1.5	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	20	2	0	1	21	21	0.5	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						

1995	1	23	2	0	1	8	8	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	9	9	0.5	0	0	0	20	40	40	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	20	40	40	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	10	10	2	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	11	11	2.5	0	0	0	0	33.33333333	33.33333333	0		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	33.33333333	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1995	1	23	2	0	1	12	12	1	0	0	0	0	0	33.33333333	33.33333333		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1995	1	23	2	0	1	13	13	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	14	14	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	15	15	1	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	16	16	0.5	0	0	0	0	0	0	0	0	
	33.33333333	0	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	33.33333333	0	66.66666667	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

1995	1	23	2	0	1	17	17	2.5	0	0	0	0	0	0	0	0	0
	14.28571429	57.14285714	14.28571429	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	14.28571429	57.14285714	14.28571429	0	14.28571429	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
1995	1	23	2	0	1	18	18	1.5	0	0	0	0	0	0	0	0	0
	0	40	0	0	0	40	0	0	20	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	40	0	0	0	40	0	0	20	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	0	40	0	20	20	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	20	0	40	0	20	20	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	23	2	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	0	16.66666667	0	0	0	16.66666667	0	16.66666667	0	0	33.33333333	0	0				
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	16.66666667	0	0	0	16.66666667	0	16.66666667			
	0	0	33.33333333	0	0	16.66666667	0	0	0	0	0	0	0	0			
	0	0	0														
1995	1	23	2	0	1	21	21	3.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	12.5	0	0	0	0	25	12.5	0
	0	0	12.5	0	12.5	0	0	0	25	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	12.5	0	0	0	0	25	12.5
	0	0	0	12.5	0	12.5	0	0	0	25							
1995	1	23	2	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0							
2001	1	23	2	0	1	8	8	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	9	9	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	10	10	1	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	11	11	1	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	12	12	1	0	0	0	0	20	0	40	20	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	40	20
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	13	13	3	0	0	0	0	25	50	0	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50	0	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	14	14	2.5	0	0	0	0	0	33.33333333	0		
	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	33.33333333	0	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	1	23	2	0	1	15	15	4.5	0	0	0	0	0	0	25	0	50
	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
	50	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	16	16	8.5	0	0	0	0	0	0	0	21.05263158	
	21.05263158	15.78947368	5.263157895	21.05263158	5.263157895	5.263157895	5.263157895	0	0	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	21.05263158	21.05263158	15.78947368	5.263157895	21.05263158					
	5.263157895	5.263157895	5.263157895	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0								
2001	1	23	2	0	1	17	17	4.5	0	0	0	0	0	0	0	0	12.5
	37.5	25	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5	37.5	25	12.5	12.5	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	18	18	7.5	0	0	0	0	0	0	0	0	
	7.142857143	0	21.42857143	7.142857143	14.28571429	14.28571429	14.28571429	7.142857143	7.142857143								
	7.142857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	7.142857143	0	21.42857143	7.142857143			
	14.28571429	14.28571429	14.28571429	7.142857143	7.142857143	7.142857143	0	0	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0					

2001	1	23	2	0	1	19	19	8.5	0	0	0	0	0	0	0	0	0
	0	10	10	10	10	10	20	0	0	10	0	0	10	10	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	10	10	10	10	10	20	0	0	10	0	0	10	10	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	23	2	0	1	20	20	5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	22.22222222		0	11.11111111		11.11111111		0	11.11111111		0	0
	11.11111111		0	0	11.11111111		0	11.11111111		11.11111111		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.22222222		0
	11.11111111		11.11111111		0	11.11111111		0	0	11.11111111		0	0	11.11111111		0	
	11.11111111		11.11111111		0	0	0	0	0	0							
2001	1	23	2	0	1	21	21	1.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	0
	0	0	0	0	25	0	0	0	25	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
	0	0	0	0	0	25	0	0	0	25							
2001	1	23	2	0	1	22	22	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	50							
2004	1	23	2	0	1	3	3	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	23	2	0	1	9	9	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	23	2	0	1	12	12	1	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	23	2	0	1	16	16	1	0	0	0	0	0	25	50	0	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50	0
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	23	2	0	1	17	17	1	0	0	0	0	0	0	0	20	0
	40	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20

```
      0      40     20     20     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2004  1      23     2      0      1      18     18     3      0      0      0      0      0      0      0      0
      33.33333333  0      11.11111111  22.22222222  11.11111111  11.11111111  11.11111111  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      33.33333333  0      11.11111111  22.22222222  11.11111111
      11.11111111  11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
2004  1      23     2      0      1      19     19     2      0      0      0      0      0      0      0      0      0
      0      0      0      0      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      33.33333333  0      33.33333333  33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2004  1      23     2      0      1      20     20     1.5    0      0      0      0      0      0      0      0      0
      16.66666667  0      0      16.66666667  16.66666667  0      0      33.33333333  16.66666667  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      16.66666667  0      0      16.66666667  16.66666667  0      0
      33.33333333  16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
2004  1      23     2      0      1      22     22     1.5    0      0      0      0      0      0      0      0      0
      0      0      0      50     0      0      0      0      50     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      50     0      0      0      0      50     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
# 2015 Triennial MAAL -- OR (n=12)
1980  1      -20    1      0      1      -1     -1     85.5   0      0      0      0      150    100    100    258.3333333
      18.18181818  89.95388669  169.6376698  143.8991641  89.89092954  64.60069965  71.59545227  32.28785607
      28.63568216  66.31684158  16.66666667  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      150    100    100    258.3333333  18.18181818
      89.95388669  169.6376698  143.8991641  89.89092954  64.60069965  71.59545227  32.28785607  28.63568216
      66.31684158  16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
1983  1      -20    1      0      1      -1     -1     149    50     300    115.8823529  374.5882353  162.2119514
      95.96825397  239.6969697  58.18181818  114.6338384  133.975469   90.34090909  17.04545455  50.12626263
      75.37878788  66.28787879  27.46212121  25.75757576  32.00757576  12.87878788  25.75757576  29.54545455
      21.21212121  21.21212121  0      21.21212121  0      34.09090909  16.66666667  21.21212121  8.333333333
      8.333333333  16.66666667  16.66666667  0      116.6666667  50     300    115.8823529  374.5882353  162.2119514
      95.96825397  239.6969697  58.18181818  114.6338384  133.975469   90.34090909  17.04545455  50.12626263
      75.37878788  66.28787879  27.46212121  25.75757576  32.00757576  12.87878788  25.75757576  29.54545455
      21.21212121  21.21212121  0      21.21212121  0      34.09090909  16.66666667  21.21212121  8.333333333
      8.333333333  16.66666667  16.66666667  0      116.6666667
1989  1      -20    1      0      1      -1     -1     4.5    0      0      0      0      0      0      0      0      0
      66.66666667  100    200    0      0      133.3333333  100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

0 0 0 66.66666667 100 200 0 0 133.3333333 100 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0
1995 1 -23 1 0 1 -1 -1 26.5 0 0 0 100 233.3333333 33.33333333
283.3333333 33.33333333 50 70 320 33.33333333 126.1904762 78.57142857 20 114.2857143
56.66666667 33.33333333 33.33333333 83.33333333 33.33333333 30.95238095 33.33333333 0 0 0
0 0 0 0 0 0 0 0 0 0 0 100 233.3333333 33.33333333
283.3333333 33.33333333 50 70 320 33.33333333 126.1904762 78.57142857 20 114.2857143
56.66666667 33.33333333 33.33333333 83.33333333 33.33333333 30.95238095 33.33333333 0 0 0
0 0 0 0 0 0 0 0 0
2001 1 -23 1 0 1 -1 -1 50 0 0 0 200 177.6923077 195 108.3333333
34.28571429 59.52380952 116.3369963 156.4835165 70.62271062 64.35897436 120 46.33699634 73.33333333
17.69230769 50 0 10 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 200 177.6923077 195 108.3333333 34.28571429 59.52380952
116.3369963 156.4835165 70.62271062 64.35897436 120 46.33699634 73.33333333 17.69230769 50 0
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2004 1 -23 1 0 1 -1 -1 10 0 0 100 0 0 100 0 33.33333333
66.66666667 150 50 100 150 0 0 0 0 0 0 50 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 100 0 0 100
0 33.33333333 66.66666667 150 50 100 150 0 0 0 0 0 0 50 0
0 0 0 0 0 0 0 0 0 0 0 0 0
1980 1 -20 2 0 1 -1 -1 82 0 0 0 0 33.33333333 100 133.3333333
157.1428571 45.42857143 126.5286935 64.23199023 85.78144078 110.8461538 64.22832723 79.85042735
60.19230769 31.08974359 68.58974359 33.33333333 6.08974359 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 33.33333333 100 133.3333333
157.1428571 45.42857143 126.5286935 64.23199023 85.78144078 110.8461538 64.22832723 79.85042735
60.19230769 31.08974359 68.58974359 33.33333333 6.08974359 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
1983 1 -20 2 0 1 -1 -1 142 0 250 50 463.3535354 187.5670996 160.5383023
101.9986197 88.45057524 91.26439287 59.84901382 33.75098473 11.82053494 21.97528459 37.91783796
32.97336413 8.117398202 13.30173 14.94107426 6.504494976 8.410138249 25.62891894 6.797235023
8.143839238 5.184331797 10.71428571 6.797235023 1.612903226 10.36866359 20.91013825 4.838709677
1.612903226 15.72580645 4.89159175 6.797235023 227.2418222 0 250 50 463.3535354 187.5670996
160.5383023 101.9986197 88.45057524 91.26439287 59.84901382 33.75098473 11.82053494 21.97528459
37.91783796 32.97336413 8.117398202 13.30173 14.94107426 6.504494976 8.410138249 25.62891894
6.797235023 8.143839238 5.184331797 10.71428571 6.797235023 1.612903226 10.36866359 20.91013825
4.838709677 1.612903226 15.72580645 4.89159175 6.797235023 227.2418222
1989 1 -20 2 0 1 -1 -1 3.5 0 0 0 0 0 0 0 0 0
200 50 200 50 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 200 50 200 50 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
1995 1 -23 2 0 1 -1 -1 22.5 0 0 0 120 273.3333333 106.6666667
33.33333333 66.66666667 83.33333333 14.28571429 330.4761905 14.28571429 0 34.28571429 56.66666667
40 16.66666667 40 32.5 33.33333333 0 0 16.66666667 25 12.5 0 0 0 12.5
0 12.5 0 0 100 25 0 0 0 120 273.3333333 106.6666667 33.33333333

```
      66.66666667  83.33333333  14.28571429  330.4761905  14.28571429  0     34.28571429  56.66666667  40
      16.66666667  40    32.5   33.33333333  0     0     16.66666667  25    12.5  0     0     0     12.5  0
      12.5  0     0     100   25
2001  1     -23   2     0     1     -1    -1    50    0     0     0     200   195   133.3333333  65
      99.38596491  110.6954887  99.12280702  74.19172932  50.69548872  42.04887218  29.54887218  51.7710944
      27.14285714  68.25396825  18.25396825  10    11.11111111  0     10    21.11111111  25    25    11.11111111
      0     11.11111111  11.11111111  0     25    0     0     0     75    0     0     0     200   195
      133.3333333  65    99.38596491  110.6954887  99.12280702  74.19172932  50.69548872  42.04887218  29.54887218
      51.7710944   27.14285714  68.25396825  18.25396825  10    11.11111111  0     10    21.11111111  25    25
      11.11111111  0     11.11111111  11.11111111  0     25    0     0     0     75
2004  1     -23   2     0     1     -1    -1    11.5  0     100   0     100   50    75    50    20
      33.33333333  81.66666667  31.11111111  42.22222222  77.77777778  61.11111111  11.11111111  33.33333333
      66.66666667  66.66666667  0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     100   0     100   50    75    50    20    33.33333333  81.66666667
      31.11111111  42.22222222  77.77777778  61.11111111  11.11111111  33.33333333  66.66666667  66.66666667  0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0

#     2015  Triennial    CAAL -- WA (n=170)
1980  1     21    1     0     1     2     2     0.5   0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     21    1     0     1     3     3     1     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     21    1     0     1     11    11    2     0     0     0     25    50    25    0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     25    50    25    0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     21    1     0     1     12    12    2     0     0     0     0     0     100   0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     100   0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     21    1     0     1     13    13    2.5   0     0     0     0     0     50    25    0     25
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     50    25    0
      25    0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
1980  1     21    1     0     1     14    14    4.5   0     0     0     0     0     66.66666667  0
      16.66666667  16.66666667  0     0     0     0     0     0     0     0     0     0     0     0     0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667		0	16.66666667		16.66666667		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	21	1	0	1	15	15	2.5	0	0	0	0	0	0	20	40	0
	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40
	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	1	0	1	18	18	1.5	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	1	0	1	19	19	1.5	0	0	0	0	0	0	0	0	0
	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	1	0	1	20	20	1.5	0	0	0	0	0	0	0	0	0
	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	1	0	1	21	21	2.5	0	0	0	0	0	0	0	0	0
	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	1	0	1	23	23	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	66.66666667		33.33333333		0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	66.66666667		33.33333333		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1983	1	21	1	0	1	5	5	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	1	0	1	6	6	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	1	0	1	7	7	0.5	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	1	0	1	8	8	3.5	0	0	37.5	62.5	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	37.5	62.5	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	1	0	1	9	9	13	0	0	3.846153846	92.30769231	3.846153846	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.846153846		
	92.30769231	3.846153846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	21	1	0	1	10	10	22.5	0	0	1.515151515	83.33333333	15.15151515	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.515151515		
	83.33333333	15.15151515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	21	1	0	1	11	11	25.5	0	0	0	63.41463415	34.14634146	2.43902439			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63.41463415	
	34.14634146	2.43902439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1983	1	21	1	0	1	12	12	18	0	0	0	22.5	67.5	10	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	22.5	67.5	10	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	1	0	1	13	13	10.5	0	0	0	4.545454545	68.18181818	22.72727273			
	4.545454545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	4.545454545	68.18181818	22.72727273	4.545454545	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
1983	1	21	1	0	1	14	14	10	0	0	0	0	50	21.42857143	21.42857143		
	7.142857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	21.42857143	21.42857143	7.142857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1983	1	21	1	0	1	15	15	7	0	0	0	0	10	30	50	10	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	10	30	50	10
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

1983	1	21	1	0	1	16	16	10.5	0	0	0	0	0	10	50	10	20
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	50	10
	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	1	0	1	17	17	7.5	0	0	0	0	0	0	8.333333333		
	33.33333333		41.66666667		16.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	8.333333333		33.33333333		41.66666667		16.66666667		0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
1983	1	21	1	0	1	18	18	11.5	0	0	0	0	0	0	0	11.11111111	
	38.88888889		22.22222222		16.66666667		5.555555556		0	0	0	0	0	0	0	0	
	5.555555556		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	11.11111111		38.88888889		22.22222222		16.66666667		5.555555556		0
	0	0	0	0	0	0	0	5.555555556		0	0	0	0	0	0	0	0
	0	0	0	0	0	0											
1983	1	21	1	0	1	19	19	15	0	0	0	0	0	0	0	7.142857143	
	28.57142857		7.142857143		21.42857143		21.42857143		14.28571429		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	7.142857143		28.57142857		7.142857143		21.42857143		21.42857143		14.28571429	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
1983	1	21	1	0	1	20	20	11.5	0	0	0	0	0	0	0	0	
	16.66666667		8.333333333		25	16.66666667		8.333333333		8.333333333		0	8.333333333		0	8.333333333	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	16.66666667		8.333333333		25	16.66666667		8.333333333	
	8.333333333		0	8.333333333		0	8.333333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0									
1983	1	21	1	0	1	21	21	14.5	0	0	0	0	0	0	0	0	0
	0	11.76470588		23.52941176		5.882352941		23.52941176		29.41176471		5.882352941		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	11.76470588		23.52941176		5.882352941		23.52941176		
	29.41176471		5.882352941		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0											
1983	1	21	1	0	1	22	22	8	0	0	0	0	0	0	0	0	0
	0	0	18.18181818		27.27272727		18.18181818		18.18181818		9.090909091		9.090909091		0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	18.18181818		27.27272727		18.18181818		18.18181818	
	9.090909091		9.090909091		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
1983	1	21	1	0	1	23	23	4.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	22.22222222		33.33333333		11.11111111		0	0	11.11111111		22.22222222		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	22.22222222		33.33333333		11.11111111		0

	0	11.11111111	22.22222222	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0												
1983	1	21	1	0	1	24	24	0.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1983	1	21	1	0	1	25	25	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	0	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	0	0	50	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	21	1	0	1	10	10	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	21	1	0	1	13	13	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	21	1	0	1	15	15	2	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	21	1	0	1	16	16	2.5	0	0	0	0	0	0	0	33.33333333
	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333	33.33333333	33.33333333	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1989	1	21	1	0	1	17	17	2.5	0	0	0	0	0	0	0	20	0
	0	40	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	0	0	40	20	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	21	1	0	1	18	18	6	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
1989	1	21	1	0	1	19	19	3	0	0	0	0	0	0	0	0	50
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	21	1	0	1	20	20	4.5	0	0	0	0	0	0	0	0	0
	20	20	40	0	0	0	20	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	20	20	40	0	0	0	20	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	21	1	0	1	21	21	3.5	0	0	0	0	0	0	0	0	0
	16.66666667	16.66666667	16.66666667	16.66666667	0	0	16.66666667	0	16.66666667	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	16.66666667	16.66666667	16.66666667	16.66666667	0	0				
	16.66666667	0	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0												
1989	1	21	1	0	1	22	22	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	16.66666667	0	16.66666667	0	0	16.66666667	0	0	0	0			
	0	0	0	0	0	0	0	0	0	16.66666667	0	33.33333333	0	0	0		
	0	0	0	0	0	0	0	0	0	0	16.66666667	0	16.66666667	0	0		
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		
	0	33.33333333															
1989	1	21	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	14.28571429	0	0	14.28571429	14.28571429	0	14.28571429	14.28571429	0	0	0					
	0	14.28571429	0	0	14.28571429	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	14.28571429	0	0	14.28571429	14.28571429				
	0	14.28571429	14.28571429	0	0	0	0	14.28571429	0	0	14.28571429	0	0				
	0	0	0	0	0	0	0										
1989	1	21	1	0	1	24	24	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	33.33333333	0	33.33333333	0	33.33333333	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0	33.33333333		
	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0		
1992	1	21	1	0	1	3	3	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	5	5	0.5	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	7	7	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

1992	1	21	1	0	1	8	8	0.5	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	9	9	1.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	10	10	1	0	0	0	66.66666667	33.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667		
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	1	21	1	0	1	11	11	1	0	0	0	0	33.33333333	66.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	1	21	1	0	1	12	12	0.5	0	0	0	0	0	33.33333333	66.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	1	21	1	0	1	13	13	2	0	0	0	40	0	0	40	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	40	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	14	14	2.5	0	0	0	0	0	16.66666667	33.33333333		
	33.33333333	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	16.66666667	33.33333333	33.33333333	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0																
1992	1	21	1	0	1	15	15	4.5	0	0	0	0	0	0	30	40	20
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	40
	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	16	16	6	0	0	0	0	0	0	30	30	30
	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30

	30	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	17	17	1	0	0	0	0	0	0	0	33.33333333	
	50	0	16.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333		50	0	16.66666667		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	1	21	1	0	1	18	18	3.5	0	0	0	0	0	0	20	20	20
	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	19	19	4	0	0	0	0	0	0	0	0	
	16.66666667		50		16.66666667		0	0	0	0	16.66666667	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	16.66666667		50	16.66666667		0	0	0	0	16.66666667		0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992	1	21	1	0	1	20	20	3.5	0	0	0	0	0	0	0	0	0
	16.66666667		33.33333333		16.66666667		16.66666667		16.66666667		0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	16.66666667		33.33333333		16.66666667		16.66666667		16.66666667		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0														
1992	1	21	1	0	1	21	21	1.5	0	0	0	0	0	0	0	0	0
	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	25	25	25	0	0	25	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	25	25	25	0	0	25	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	20	0	20	0	60	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	20	0	20	0	60	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	9	9	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	11	11	2	0	0	0	0	25	25	25	0	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	0
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	12	12	2	0	0	0	0	0	33.33333333	66.66666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1995	1	24	1	0	1	13	13	1.5	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	14	14	0.5	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	16	16	0.5	0	0	0	0	0	0	0	50	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	20	20	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	22	22	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	1	0	1	25	25	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	3	3	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	6	6	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	7	7	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	10	10	2	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	11	11	1	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	12	12	3	0	0	0	0	0	0	75	0	0
	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0
	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	13	13	6	0	0	0	0	0	20	60	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	14	14	3.5	0	0	0	0	0	0	11.11111111		
	66.66666667		0	0	11.11111111		11.11111111		0	0	0	0	0	0	0	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	11.11111111	66.66666667		0	0	11.11111111		11.11111111		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
2001	1	24	1	0	1	15	15	3.5	0	0	0	0	0	0	12.5	50	37.5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	50
	37.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	16	16	1.5	0	0	0	0	0	0	33.33333333		
	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	1	24	1	0	1	17	17	2.5	0	0	0	0	0	0	0	0	
	33.33333333		0	66.66666667		0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	33.33333333		0	66.66666667		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2001	1	24	1	0	1	18	18	3.5	0	0	0	0	0	0	0	0	0
	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	19	19	1.5	0	0	0	0	0	0	0	0	0
	0	33.33333333		0	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	33.33333333		0	33.33333333		33.33333333		0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	1	24	1	0	1	20	20	0.5	0	0	0	0	0	0	0	0	0
	0	0	33.33333333		0	0	33.33333333		0	0	0	0	0	0	33.33333333		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	33.33333333		0	0	33.33333333		0	0	0	0	0
	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	1	24	1	0	1	22	22	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	1	0	1	23	23	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2001	1	24	1	0	1	24	24	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	14	14	0.5	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	15	15	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	16	16	0.5	0	0	0	0	25	25	25	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	17	17	1.5	0	0	0	0	0	0	33.33333333		
	33.33333333		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333		33.33333333		33.33333333		0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	1	24	1	0	1	18	18	2	0	0	0	0	0	0	0	0	0
	66.66666667		33.33333333		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	66.66666667		33.33333333		0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2004	1	24	1	0	1	19	19	5	0	0	0	0	0	0	0	0	40
	20	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40	20	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	20	20	3	0	0	0	0	0	0	0	0	0
	0	50	0	25	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	25	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

2004	1	24	1	0	1	22	22	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	25	0	25	0	0	25	0	0	0	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	25	0	25	0	0	25	0	0	0	25	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	23	23	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	1	0	1	24	24	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	25	0	25	0	25	0	0	0	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	25	0	25	0	25	0	0	0	25
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	2	2	0.5	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	5	5	0.5	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	6	6	1	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	9	9	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	12	12	2	0	0	0	0	0	25	75	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

1980	1	21	2	0	1	13	13	2.5	0	0	0	0	0	11.11111111	55.55555556	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11.11111111	55.55555556	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1980	1	21	2	0	1	14	14	4.5	0	0	0	0	0	0	14.28571429	
	71.42857143	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	14.28571429	71.42857143	0	14.28571429	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	21	2	0	1	15	15	2.5	0	0	0	0	0	0	25	75	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	16	16	1.5	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	17	17	0.5	0	0	0	0	0	0	0	33.33333333	
	33.33333333	0	0	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	33.33333333	33.33333333	0	0	0	33.33333333	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1980	1	21	2	0	1	18	18	1.5	0	0	0	0	0	0	0	0	
	33.33333333	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	33.33333333	33.33333333	0	33.33333333	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1980	1	21	2	0	1	19	19	1.5	0	0	0	0	0	0	0	0	0
	0	16.66666667	33.33333333	33.33333333	16.66666667	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	16.66666667	33.33333333	33.33333333	16.66666667	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0																
1980	1	21	2	0	1	20	20	1.5	0	0	0	0	0	0	0	0	0
	0	0	20	20	20	40	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	20	20	20	40	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	21	21	2.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	12.5	0	12.5	62.5	12.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	0	0	0	0	0	12.5	0	12.5	62.5	12.5	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1980	1	21	2	0	1	22	22	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	2	0	1	6	6	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	2	0	1	7	7	0.5	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	2	0	1	8	8	3.5	0	0	27.27272727	72.72727273	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	27.27272727	72.72727273		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1983	1	21	2	0	1	9	9	13	0	0	13.04347826	86.95652174	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	13.04347826	86.95652174		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1983	1	21	2	0	1	10	10	22.5	0	0	0	94.11764706	5.882352941	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	94.11764706			
	5.882352941	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1983	1	21	2	0	1	11	11	25.5	0	0	1.818181818	61.81818182	34.54545455				
	1.818181818	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1.818181818	61.81818182	34.54545455	1.818181818	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0														
1983	1	21	2	0	1	12	12	18	0	0	0	21.875	71.875	6.25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	21.875	71.875	6.25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1983	1	21	2	0	1	13	13	10.5	0	0	0	0	71.42857143	14.28571429			
	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
71.42857143 14.28571429 14.28571429 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1983 1 21 2 0 1 14 14 10 0 0 0 0 41.66666667 37.5 8.333333333
4.166666667 8.333333333 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
41.66666667 37.5 8.333333333 4.166666667 8.333333333 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0
1983 1 21 2 0 1 15 15 7 0 0 0 0 14.28571429 7.142857143 50
28.57142857 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14.28571429 7.142857143 50 28.57142857 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1983 1 21 2 0 1 16 16 10.5 0 0 0 0 0 14.81481481 25.92592593
33.33333333 11.11111111 11.11111111 3.703703704 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 14.81481481 25.92592593 33.33333333 11.11111111 11.11111111 3.703703704 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
1983 1 21 2 0 1 17 17 7.5 0 0 0 0 0 0 5.555555556
38.88888889 27.77777778 11.11111111 16.66666667 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 5.555555556 38.88888889 27.77777778 11.11111111 16.66666667 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
1983 1 21 2 0 1 18 18 11.5 0 0 0 0 0 0 0 0 12.5
29.16666667 20.83333333 16.66666667 16.66666667 4.166666667 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 12.5 29.16666667 20.83333333 16.66666667 16.66666667 4.166666667 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0
1983 1 21 2 0 1 19 19 15 0 0 0 0 0 0 0 4.444444444
0 0 6.666666667 13.33333333 24.44444444 13.33333333 4.444444444 11.11111111 8.888888889
2.222222222 4.444444444 0 2.222222222 4.444444444 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 4.444444444 0 0
6.666666667 13.33333333 24.44444444 13.33333333 4.444444444 11.11111111 8.888888889 2.222222222
4.444444444 0 2.222222222 4.444444444 0 0 0 0 0 0 0 0 0 0
0 0 0
1983 1 21 2 0 1 20 20 11.5 0 0 0 0 0 0 0 0 0
0 2.040816327 6.12244898 12.24489796 14.28571429 12.24489796 2.040816327 4.081632653 2.040816327
6.12244898 0 0 2.040816327 6.12244898 4.081632653 4.081632653 2.040816327 2.040816327
4.081632653 2.040816327 4.081632653 2.040816327 2.040816327 2.040816327 0 2.040816327 0 0
0 0 0 0 0 0 0 0 2.040816327 6.12244898 12.24489796 14.28571429
12.24489796 2.040816327 4.081632653 2.040816327 6.12244898 0 0 2.040816327 6.12244898

	4.081632653	4.081632653	2.040816327	2.040816327	4.081632653	2.040816327	4.081632653	2.040816327								
	2.040816327	2.040816327	0	2.040816327												
1983	1	21	2	0	1	21	21	14.5	0	0	0	0	0	0	0	0
	0	0	0	5.714285714	8.571428571	2.857142857	0	5.714285714	2.857142857	0	8.571428571					
	8.571428571	8.571428571	8.571428571	0	5.714285714	0	5.714285714	2.857142857	0	0	0					
	5.714285714	0	2.857142857	17.14285714	0	0	0	0	0	0	0	0	0			
	0	0	5.714285714	8.571428571	2.857142857	0	5.714285714	2.857142857	0	8.571428571						
	8.571428571	8.571428571	8.571428571	0	5.714285714	0	5.714285714	2.857142857	0	0	0					
	5.714285714	0	2.857142857	17.14285714												
1983	1	21	2	0	1	22	22	8	0	0	0	0	0	0	0	0
	0	0	0	0	0	7.142857143	7.142857143	7.142857143	0	0	7.142857143	0	0			
	14.28571429	0	0	0	0	7.142857143	7.142857143	0	0	7.142857143	0	0				
	35.71428571	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7.142857143	7.142857143	7.142857143	0	0	7.142857143	0	0	14.28571429	0	0	0				
	0	7.142857143	7.142857143	0	0	7.142857143	0	0	35.71428571							
1983	1	21	2	0	1	23	23	4.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	25	0	0	0	0	0	0	50	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	25	0	0	0	0	0	0	50						
1989	1	21	2	0	1	13	13	1	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	21	2	0	1	14	14	1.5	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	21	2	0	1	15	15	2	0	0	0	0	0	0	33.33333333		
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	33.33333333	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1989	1	21	2	0	1	16	16	2.5	0	0	0	0	0	0	14.28571429		
	42.85714286	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	14.28571429	42.85714286	28.57142857	14.28571429	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0															
1989	1	21	2	0	1	17	17	2.5	0	0	0	0	0	0	0	10	0
	20	20	30	20	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

	0	20	20	30	20	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1989	1	21	2	0	1	18	18	6	0	0	0	0	0	0	0	6.666666667	
	6.666666667	26.66666667	33.33333333	6.666666667	6.666666667	6.666666667	6.666666667	0	0	0							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	6.666666667	6.666666667	26.66666667	33.33333333	6.666666667					
	6.666666667	6.666666667	6.666666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0								
1989	1	21	2	0	1	19	19	3	0	0	0	0	0	0	0	0	
	7.692307692	0	23.07692308	23.07692308	15.38461538	7.692307692	7.692307692	7.692307692	0	0							
	7.692307692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	7.692307692	0	23.07692308	23.07692308				
	15.38461538	7.692307692	7.692307692	7.692307692	0	0	7.692307692	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0						
1989	1	21	2	0	1	20	20	4.5	0	0	0	0	0	0	0	0	0
	0	6.666666667	13.33333333	0	13.33333333	20	6.666666667	13.33333333	0	13.33333333							
	6.666666667	0	0	0	0	0	0	6.666666667	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	6.666666667	13.33333333	0				
	13.33333333	20	6.666666667	13.33333333	0	13.33333333	6.666666667	0	0	0	0	0					
	0	6.666666667	0	0	0	0	0	0	0	0							
1989	1	21	2	0	1	21	21	3.5	0	0	0	0	0	0	0	0	0
	14.28571429	0	0	0	0	14.28571429	0	0	0	28.57142857	0	0	0	0			
	14.28571429	0	0	0	0	0	0	0	28.57142857	0	0	0	0	0	0		
	0	0	0	0	0	0	14.28571429	0	0	0	0	14.28571429	0	0	0		
	28.57142857	0	0	0	0	14.28571429	0	0	0	0	0	0	0	28.57142857			
	0	0	0														
1989	1	21	2	0	1	22	22	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0
	0	0	0	0	0	0	25	0	50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0
	0	0	0	0	0	0	0	25	0	50							
1989	1	21	2	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	2	0	1	9	9	1.5	0	0	0	50	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	2	0	1	13	13	2	0	0	0	0	0	20	60	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60	20

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	2	0	1	14	14	2.5	0	0	0	0	0	14.28571429	57.14285714		
	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14.28571429	57.14285714	28.57142857	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1992	1	21	2	0	1	15	15	4.5	0	0	0	0	0	0	33.33333333	50	
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333	50	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
1992	1	21	2	0	1	16	16	6	0	0	0	0	0	33.33333333	0	50	
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	33.33333333	0	50	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	1	21	2	0	1	17	17	1	0	0	0	0	0	0	0	0	
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	2	0	1	18	18	3.5	0	0	0	0	0	0	9.090909091		
	9.090909091	27.27272727	27.27272727	9.090909091	0	9.090909091	0	9.090909091	0	0	0						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	9.090909091	9.090909091	27.27272727	27.27272727	9.090909091	0					
	9.090909091	0	9.090909091	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0									
1992	1	21	2	0	1	19	19	4	0	0	0	0	0	0	0	0	0
	0	12.5	37.5	0	12.5	37.5	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	12.5	37.5	0	12.5	37.5	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	2	0	1	20	20	3.5	0	0	0	0	0	0	0	0	0
	0	0	0	11.11111111	11.11111111	0	22.22222222	22.22222222	11.11111111	0	0						
	11.11111111	0	0	11.11111111	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	11.11111111	11.11111111	0			
	22.22222222	22.22222222	11.11111111	0	0	11.11111111	0	0	11.11111111	0	0	0					
	0	0	0	0	0	0	0	0									
1992	1	21	2	0	1	21	21	1.5	0	0	0	0	0	0	0	0	0
	0	0	0	20	20	0	20	0	0	0	0	0	0	20	0	20	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	20	0	20	0	0	0	0	0	0	20	0	20
	0	0	0	0	0	0	0	0	0	0							

1992	1	21	2	0	1	22	22	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1992	1	21	2	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	6	6	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	7	7	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	8	8	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	9	9	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	10	10	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	11	11	2	0	0	0	0	28.57142857	42.85714286			
	14.28571429	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	28.57142857	42.85714286	14.28571429	0	14.28571429	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0															
1995	1	24	2	0	1	12	12	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	13	13	1.5	0	0	0	0	33.33333333		0	0	
	66.66666667		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	33.33333333		0	0	66.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1995	1	24	2	0	1	14	14	0.5	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	15	15	0.5	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	17	17	1	0	0	0	0	0	0	0	0	0
	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	18	18	0.5	0	0	0	0	0	0	0	0	0
	0	25	0	25	25	0	0	0	0	0	0	0	0	0	0	0	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	0	25	25	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	25	0	50	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	25	0	50	25	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
1995	1	24	2	0	1	21	21	0.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	2	0	1	7	7	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2001	1	24	2	0	1	9	9	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2001  1      24     2      0      1      10     10     2      0      0      0      0      25     50     0      25     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      25     50     0      25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2001  1      24     2      0      1      11     11     1      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2001  1      24     2      0      1      12     12     3      0      0      0      0      7.142857143  14.28571429
      35.71428571  21.42857143  21.42857143  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      7.142857143  14.28571429  35.71428571  21.42857143  21.42857143  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
2001  1      24     2      0      1      13     13     6      0      0      0      0      0      9.090909091  54.54545455
      18.18181818  18.18181818  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      9.090909091  54.54545455  18.18181818  18.18181818  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
2001  1      24     2      0      1      14     14     3.5    0      0      0      0      0      25     12.5   0      25
      37.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     12.5   0
      25     37.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2001  1      24     2      0      1      15     15     3.5    0      0      0      0      0      0      25     0      25
      0      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     0
      25     0      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
2001  1      24     2      0      1      16     16     1.5    0      0      0      0      0      0      0      33.33333333
      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      33.33333333  33.33333333  33.33333333  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
2001  1      24     2      0      1      17     17     2.5    0      0      0      0      0      0      0      0      0
      14.28571429  57.14285714  14.28571429  0      14.28571429  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      14.28571429  57.14285714  14.28571429  0      14.28571429  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
```

2001	1	24	2	0	1	18	18	3.5	0	0	0	0	0	0	0	0
	14.28571429	0	14.28571429	0	28.57142857	14.28571429	0	14.28571429	0	14.28571429	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	14.28571429	0	14.28571429	0	28.57142857	14.28571429			
	0	14.28571429	0	14.28571429	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0										
2001	1	24	2	0	1	19	19	1.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2001	1	24	2	0	1	20	20	0.5	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	24	2	0	1	13	13	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
2004	1	24	2	0	1	14	14	0.5	0	0	0	0	0	0	66.66666667	
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	66.66666667	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2004	1	24	2	0	1	15	15	0	0	0	0	0	0	0	25	25	25
	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
	25	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	2	0	1	16	16	0.5	0	0	0	0	0	0	50	0	0
	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0
	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
2004	1	24	2	0	1	17	17	1.5	0	0	0	0	0	0	0	16.66666667	
	50	0	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	16.66666667	50	0	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2004	1	24	2	0	1	18	18	2	0	0	0	0	0	0	0	0	0
	16.66666667	33.33333333	0	33.33333333	0	0	0	0	16.66666667	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	16.66666667	33.33333333	0	33.33333333	0	0	0	0				

```
      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
2004  1      24     2      0      1      19     19     5      0      0      0      0      0      0      0      0      0
      0      7.142857143  14.28571429  21.42857143  7.142857143  7.142857143  14.28571429  14.28571429  7.142857143
      0      0      0      7.142857143  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      7.142857143  14.28571429  21.42857143
      7.142857143  7.142857143  14.28571429  14.28571429  7.142857143  0      0      0      7.142857143  0      0
      0      0      0      0      0      0      0      0      0      0
2004  1      24     2      0      1      20     20     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      10     10     0      0      0      30     0      10     0      0      20     0      0
      20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      10     10     0      0      0      30     0      10     0      0      20     0
      0      20     0      0      0      0      0      0      0      0
2004  1      24     2      0      1      21     21     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      33.33333333  0      0      0      33.33333333  33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      33.33333333  0      0      0      33.33333333
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
2004  1      24     2      0      1      22     22     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      50     0      50     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      50     0      50
# 2015 Triennial MAAL -- WA (n=14)
1980  1      -21    1      0      1      -1     -1     23     0      200    0      25     50     241.6666667  45
      56.66666667  41.66666667  40     150    100    50     50     116.6666667  33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      200
      0      25     50     241.6666667  45     56.66666667  41.66666667  40     150    100    50     50     116.6666667
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
1983  1      -21    1      0      1      -1     -1     195.5  0      200    92.86130536  378.6011143  248.8258286
      96.59486855  134.3073593  78.73015873  145.7936508  64.36507937  74.85994398  85.3620236   55.77412783
      72.2667855   130.9269162  34.41770648  59.09090909  8.333333333  61.11111111  22.22222222  5.555555556  0
      50     0      0      0      0      0      0      0      0      0      0      0      0      200    92.86130536
      378.6011143  248.8258286  96.59486855  134.3073593  78.73015873  145.7936508  64.36507937  74.85994398
      85.3620236   55.77412783  72.2667855   130.9269162  34.41770648  59.09090909  8.333333333  61.11111111
      22.22222222  5.555555556  0      50     0      0      0      0      0      0      0      0      0      0      0
      0
1989  1      -21    1      0      1      -1     -1     32     0      0      0      0      100    0      100    53.33333333
      233.3333333  70     190.952381   76.66666667  36.66666667  30.95238095  14.28571429  53.33333333  14.28571429
      64.28571429  16.66666667  33.33333333  0      33.33333333  14.28571429  0      0      14.28571429  0      0
      0      0      0      0      16.66666667  0      33.33333333  0      0      0      0      100    0      100
      53.33333333  233.3333333  70     190.952381   76.66666667  36.66666667  30.95238095  14.28571429  53.33333333
      14.28571429  64.28571429  16.66666667  33.33333333  0      33.33333333  14.28571429  0      0      14.28571429
      0      0      0      0      0      0      16.66666667  0      33.33333333
```

1992 1 -21 1 0 1 -1 -1 40 0 100 100 306.6666667 116.6666667 116.6666667
270 176.6666667 153.3333333 96.66666667 86.66666667 111.6666667 91.66666667 61.66666667 100
126.6666667 25 10 50 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 100 100 306.6666667 116.6666667 116.6666667 270 176.6666667
153.3333333 96.66666667 86.66666667 111.6666667 91.66666667 61.66666667 100 126.6666667 25 10
50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1995 1 -24 1 0 1 -1 -1 8 0 0 0 0 125 58.33333333 91.66666667
150 150 25 100 0 0 150 0 0 50 0 0 0 0 100 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 125
58.33333333 91.66666667 150 150 25 100 0 0 150 0 0 50 0 0 0
0 100 0 0 0 0 0 0 0 0 0 0 0 0 0
2001 1 -24 1 0 1 -1 -1 30.5 0 100 0 100 150 120 241.9444444 170
104.1666667 0 136.1111111 44.44444444 133.3333333 33.33333333 33.33333333 0 150 0 50
100 0 33.33333333 0 0 0 0 0 0 0 0 0 0 0 0 0
0 100 0 100 150 120 241.9444444 170 104.1666667 0 136.1111111 44.44444444
133.3333333 33.33333333 33.33333333 0 150 0 50 100 0 33.33333333 0 0 0
0 0 0 0 0 0 0 0 0 0
2004 1 -24 1 0 1 -1 -1 15.5 0 0 0 0 25 25 158.3333333
58.33333333 73.33333333 186.6666667 83.33333333 0 25 90 100 25 125 0 50 0
25 0 25 0 25 0 0 0 0 0 0 0 0 0 0 0 0
0 0 25 25 158.3333333 58.33333333 73.33333333 186.6666667 83.33333333 0 25 90
100 25 125 0 50 0 25 0 25 0 25 0 0 0 0 0 0
0 0 0 0
1980 1 -21 2 0 1 -1 -1 24.5 0 200 150 50 100 36.11111111 269.8412698
213.0952381 66.66666667 47.61904762 16.66666667 86.66666667 86.66666667 49.16666667 40 62.5 112.5
12.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 200 150 50 100 36.11111111 269.8412698 213.0952381 66.66666667 47.61904762
16.66666667 86.66666667 86.66666667 49.16666667 40 62.5 112.5 12.5 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0
1983 1 -21 2 0 1 -1 -1 193.5 0 100 92.13438735 387.4946233 239.6837599
81.81156806 104.1005291 109.4047619 59.72222222 51.38888889 49.9111867 36.12244898 59.07029478
40.35714286 26.6893424 20.29478458 25.8276644 7.120181406 10.56689342 15.71428571 10.79365079
15.05668934 28.97959184 4.081632653 9.795918367 2.040816327 32.75510204 39.08163265 9.183673469
4.081632653 2.040816327 14.89795918 2.040816327 2.857142857 104.8979592 0 100 92.13438735
387.4946233 239.6837599 81.81156806 104.1005291 109.4047619 59.72222222 51.38888889 49.9111867
36.12244898 59.07029478 40.35714286 26.6893424 20.29478458 25.8276644 7.120181406 10.56689342
15.71428571 10.79365079 15.05668934 28.97959184 4.081632653 9.795918367 2.040816327 32.75510204
39.08163265 9.183673469 4.081632653 2.040816327 14.89795918 2.040816327 2.857142857 104.8979592
1989 1 -21 2 0 1 -1 -1 32.5 0 0 0 0 0 247.6190476
126.1904762 42.93040293 75.23809524 83.07692308 73.07692308 42.05128205 27.69230769 48.64468864
14.35897436 13.33333333 0 49.5970696 131.6666667 0 0 0 14.28571429 0 0
6.666666667 0 0 0 0 28.57142857 25 0 50 0 0 0 0 0 0
247.6190476 126.1904762 42.93040293 75.23809524 83.07692308 73.07692308 42.05128205 27.69230769
48.64468864 14.35897436 13.33333333 0 49.5970696 131.6666667 0 0 0 14.28571429 0
0 6.666666667 0 0 0 0 28.57142857 25 0 50

```
1992  1     -21   2     0     1     -1    -1    34    0     0     0     50    50    67.61904762  159.5670996
      157.6623377  60.60606061  77.27272727  71.59090909  37.5  40.2020202  43.61111111  46.59090909  42.22222222
      22.22222222  11.11111111  0     100   11.11111111  0     20    11.11111111  20    100   0     0     0
      0     0     0     0     0     0     0     0     0     50    50    67.61904762  159.5670996  157.6623377
      60.60606061  77.27272727  71.59090909  37.5  40.2020202  43.61111111  46.59090909  42.22222222  22.22222222
      11.11111111  0     100   11.11111111  0     20    11.11111111  20    100   0     0     0     0     0
      0     0     0     0
1995  1     -24   2     0     1     -1    -1    11    0     0     100   200   161.9047619  242.8571429
      14.28571429  66.66666667  114.2857143  50    200   0     75    150   0     0     0     0     0     0
      0     0     0     0     0     25    0     0     0     0     0     0     0     0     0     0
      100   200   161.9047619  242.8571429  14.28571429  66.66666667  114.2857143  50    200   0     75    150
      0     0     0     0     0     0     0     0     0     0     0     25    0     0     0     0     0
      0     0     0     0
2001  1     -24   2     0     1     -1    -1    29.5  0     0     0     200   32.14285714  198.3766234
      127.7597403  97.94372294  137.2294372  85.11904762  121.4285714  14.28571429  28.57142857  28.57142857  0
      14.28571429  100   14.28571429  0     0     0     100   0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     200   32.14285714  198.3766234  127.7597403  97.94372294
      137.2294372  85.11904762  121.4285714  14.28571429  28.57142857  28.57142857  0     14.28571429  100
      14.28571429  0     0     0     100   0     0     0     0     0     0     0     0     0     0     0
      0     0
2004  1     -24   2     0     1     -1    -1    14.5  0     0     0     0     0     0     141.6666667  175
      75    16.66666667  57.14285714  30.95238095  129.7619048  17.14285714  17.14285714  47.61904762  14.28571429
      23.80952381  30    33.33333333  43.33333333  7.142857143  0     20    0     0     20    0     0     0
      0     0     50    0     50    0     0     0     0     0     0     141.6666667  175   75    16.66666667
      57.14285714  30.95238095  129.7619048  17.14285714  17.14285714  47.61904762  14.28571429  23.80952381  30
      33.33333333  43.33333333  7.142857143  0     20    0     0     20    0     0     0     0     0     50
      0     50

#     2015  NWFSC  survey conditionals  (n_old=473; n_new=519)
#2003 1     28    1     0     1     2     2     1     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2003 1     28    1     0     1     3     3     2     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2003 1     28    1     0     1     4     4     4     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
```

```
#2003 1      28     1      0      1      6      6      3      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      7      7      2      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      8      8      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      9      9      3      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      10     10     1      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      13     13     2      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      14     14     4      0      0      0      0      25     50     0      0      0
      0      0      25     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      25     50     0      0
      0      0      0      25     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      15     15     11     0      0      0      0      0      18.18181818  36.36363636
      27.27272727  18.18181818  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      18.18181818  36.36363636  27.27272727  18.18181818  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2003 1      28     1      0      1      16     16     7      0      0      0      0      0      0      28.57142857
      14.28571429  28.57142857  14.28571429  0      0      0      14.28571429  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      28.57142857  14.28571429  28.57142857  14.28571429  0      0      0      14.28571429
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2003 1      28     1      0      1      17     17     8      0      0      0      0      0      0      12.5   12.5   50
      12.5   12.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      12.5   12.5
      50     12.5   12.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      18     18     13     0      0      0      0      0      0      0      0
      23.07692308  15.38461538  30.76923077  15.38461538  7.692307692  7.692307692  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      23.07692308  15.38461538  30.76923077  15.38461538  7.692307692
      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2003 1      28     1      0      1      19     19     12     0      0      0      0      0      0      0      8.333333333
      0      0      8.333333333  25     33.33333333  16.66666667  0      0      8.333333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      8.333333333  0      0      8.333333333  25     33.33333333  16.66666667  0      0
      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2003 1      28     1      0      1      20     20     14     0      0      0      0      0      0      0      0      0
      0      28.57142857  28.57142857  28.57142857  14.28571429  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      28.57142857  28.57142857  28.57142857  14.28571429  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2003 1      28     1      0      1      21     21     11     0      0      0      0      0      0      0      0      0
      0      9.090909091  9.090909091  27.27272727  0      18.18181818  9.090909091  9.090909091  0      18.18181818
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      9.090909091  9.090909091  27.27272727  0
      18.18181818  9.090909091  9.090909091  0      18.18181818  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      22     22     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      33.33333333  0      0      33.33333333  0      0      0      33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      33.33333333  0      0      33.33333333  0      0      0
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      23     23     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      33.33333333  0      33.33333333  0      0      0      0      0      0      0
      0      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      33.33333333  0      33.33333333  0      0
      0      0      0      0      0      33.33333333  0      0      0      0      0      0      0      0      0
#2003 1      28     1      0      1      24     24     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	3	3	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	4	4	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	5	5	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	6	6	4	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	9	9	3	0	0	0	33.33333333	66.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333			
	66.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2004	1	28	1	0	1	10	10	5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	11	11	4	0	0	0	25	50	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	25	50	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	1	0	1	12	12	10	0	0	0	10	50	10	30	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	10	50	10	30	0

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      13     13     10     0      0      0      0      50     0      40     10     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      40     10
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      14     14     6      0      0      0      0      16.66666667  33.33333333  50
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      16.66666667
      33.33333333  50     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      15     15     7      0      0      0      0      0      14.28571429  42.85714286
      28.57142857  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      14.28571429  42.85714286  28.57142857  14.28571429  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2004 1      28     1      0      1      16     16     9      0      0      0      0      0      11.11111111  33.33333333
      0      11.11111111  33.33333333  11.11111111  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      11.11111111  33.33333333  0      11.11111111  33.33333333  11.11111111  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2004 1      28     1      0      1      17     17     11     0      0      0      0      0      0      9.090909091
      18.18181818  27.27272727  27.27272727  9.090909091  0      0      0      0      0      0      0      9.090909091
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      9.090909091  18.18181818  27.27272727  27.27272727  9.090909091  0      0
      0      0      0      0      0      9.090909091  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2004 1      28     1      0      1      18     18     5      0      0      0      0      0      0      0      0      20
      20     40     0      0      20     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      20     20     40     0      0      20     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      19     19     12     0      0      0      0      0      0      0      0
      16.66666667  16.66666667  8.333333333  16.66666667  33.33333333  8.333333333  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      16.66666667  16.66666667  8.333333333  16.66666667  33.33333333
      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2004 1      28     1      0      1      20     20     10     0      0      0      0      0      0      0      0      0
      10     30     10     20     30     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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      0      10     30     10     20     30     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      21     21     9      0      0      0      0      0      0      0      0      0
      22.22222222  0      0      11.11111111  11.11111111  22.22222222  0      0      11.11111111  0      22.22222222
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      22.22222222  0      0      11.11111111  11.11111111  22.22222222
      0      0      11.11111111  0      22.22222222  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2004 1      28     1      0      1      22     22     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      23     23     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      24     24     2      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      50     50     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      50     50     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     1      0      1      25     25     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      100    0      0
#2005 1      28     1      0      1      2      2      1      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      3      3      1      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      4      4      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      5      5      2      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      6      6      7      0      0      14.28571429   85.71428571   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      14.28571429   85.71428571
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      7      7      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      9      9      1      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      10     10     1      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      11     11     1      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      12     12     4      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      13     13     4      0      0      0      0      0      25     75     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     75     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      14     14     1      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      15     15     7      0      0      0      0      0      0      28.57142857
      42.85714286   28.57142857   0      0      0      0      0      0      0      0      0      0      0      0      0
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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      28.57142857  42.85714286  28.57142857  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      16     16     6      0      0      0      0      0      0      16.66666667  50
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      16.66666667  50     33.33333333  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      17     17     10     0      0      0      0      0      0      10     40     40
      10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      10     40
      40     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      18     18     14.19512999  0      0      0      0      0      0      0
      8.419295853  7.04466955   56.3573564   14.0893391   7.04466955   7.04466955   0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      8.419295853  7.04466955   56.3573564   14.0893391   7.04466955
      7.04466955   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#2005 1      28     1      0      1      19     19     12     0      0      0      0      0      0      0      0      25
      25     25     8.333333333  16.66666667  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      25     25     25     8.333333333  16.66666667  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      20     20     9      0      0      0      0      0      0      0      0
      22.22222222  0      22.22222222  11.11111111  44.44444444  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      22.22222222  0      22.22222222  11.11111111  44.44444444  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2005 1      28     1      0      1      21     21     12     0      0      0      0      0      0      0      0      0
      16.66666667  8.333333333  16.66666667  25     16.66666667  16.66666667  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      16.66666667  8.333333333  16.66666667  25     16.66666667  16.66666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2005 1      28     1      0      1      22     22     5      0      0      0      0      0      0      0      0      0
      0      20     20     20     20     0      20     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      20     20     20     20     0      20     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     1      0      1      25     25     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	2	2	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	3	3	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	4	4	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	5	5	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	10	10	0.41851073	0	0	0	0	100	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	12	12	2	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2006	1	28	1	0	1	13	13	3	0	0	0	0	33.33333333	66.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333	

```
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     1      0      1      14     14     3      0      0      0      0      0      33.33333333  66.66666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     1      0      1      15     15     5      0      0      0      0      0      0      60     0      40
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      60     0
      40     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     1      0      1      16     16     15     0      0      0      0      0      0      26.66666667
      26.66666667  13.33333333  13.33333333  20     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      26.66666667  26.66666667  13.33333333  13.33333333  20     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2006 1      28     1      0      1      17     17     12     0      0      0      0      0      0      0      50
      8.333333333  25     16.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      50     8.333333333  25     16.66666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     1      0      1      18     18     14     0      0      0      0      0      0      0      35.71428571
      28.57142857  21.42857143  0      0      7.142857143  7.142857143  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      35.71428571  28.57142857  21.42857143  0      0      7.142857143  7.142857143  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2006 1      28     1      0      1      19     19     11     0      0      0      0      0      0      0      0
      9.090909091  36.36363636  18.18181818  18.18181818  0      18.18181818  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      9.090909091  36.36363636  18.18181818  18.18181818  0      18.18181818
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2006 1      28     1      0      1      20     20     15     0      0      0      0      0      0      0      0      0
      0      0      26.66666667  20     20     13.33333333  13.33333333  6.666666667  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      26.66666667  20     20     13.33333333  13.33333333  6.666666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2006 1      28     1      0      1      21     21     15     0      0      0      0      0      0      0      0      0
      0      0      20     20     20     6.666666667  6.666666667  13.33333333  6.666666667  6.666666667  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      20     20     20     6.666666667  6.666666667  13.33333333
```

	6.666666667	6.666666667	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0													
#2006	1	28	1	0	1	22	22	5	0	0	0	0	0	0	0	0
	0	0	0	20	60	0	0	0	20	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	20	60	0	0	0	20	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2006	1	28	1	0	1	23	23	4	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	50	0	0	0	0	0	0	25	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	0	0	0	25	25	0
	0	0	0	0	0	0	0	0	0	0						
#2006	1	28	1	0	1	24	24	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	100	0	0	0	0	0	0	0						
#2006	1	28	1	0	1	25	25	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	0	0	0	0	0	0	0	0	0	0						
#2006	1	28	1	0	1	26	26	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	100	0	0	0	0						
#2007	1	28	1	0	1	4	4	3.5	0	28.57142857	71.42857143	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	28.57142857	71.42857143	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2007	1	28	1	0	1	5	5	3	0	0	66.66666667	33.33333333	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2007	1	28	1	0	1	6	6	7	0	0	42.85714286	57.14285714	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	42.85714286	57.14285714
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2007	1	28	1	0	1	7	7	8	0	0	37.5	62.5	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	37.5	62.5	0	0	0	0

```
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     8     8     27    0     0     0     77.77777778  22.22222222  0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     77.77777778
      22.22222222 0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     9     9     15    0     0     0     73.33333333  26.66666667  0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     73.33333333
      26.66666667 0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     10    10    10    0     0     0     40    50    10    0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     40    50    10    0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     11    11    5     0     0     0     0     20    80    0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     20    80    0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     12    12    8     0     0     0     0     25    50    25    0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     25    50    25    0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     13    13    10    0     0     0     0     0     40    40    20    0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     40    40    20
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     14    14    4     0     0     0     0     0     50    25    25    0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     50    25    25
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     15    15    1     0     0     0     0     0     0     0     0     100
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      100   0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2007 1     28    1     0     1     16    16    10    0     0     0     0     0     0     10    30    30
      10    10    10    0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     10    30
```

```
      30     10     10     10     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     1      0      1      17     17     7      0      0      0      0      0      0      0      0
      14.28571429  71.42857143  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      14.28571429  71.42857143  14.28571429  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2007 1      28     1      0      1      18     18     18     0      0      0      0      0      0      0      5.555555556
      27.77777778  44.44444444  11.11111111  11.11111111  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      5.555555556  27.77777778  44.44444444  11.11111111  11.11111111  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2007 1      28     1      0      1      19     19     9      0      0      0      0      0      0      0      0      0
      22.22222222  33.33333333  44.44444444  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      22.22222222  33.33333333  44.44444444  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2007 1      28     1      0      1      20     20     23     0      0      0      0      0      0      0      0      0
      13.04347826  17.39130435  30.43478261  21.73913043  0      4.347826087  4.347826087  8.695652174  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      13.04347826  17.39130435  30.43478261  21.73913043  0      0
      4.347826087  4.347826087  8.695652174  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#2007 1      28     1      0      1      21     21     16     0      0      0      0      0      0      0      0      6.25
      0      0      6.25   25     12.5   18.75  0      6.25   18.75  6.25   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      6.25   0      0      6.25   25     12.5   18.75  0      6.25   18.75  6.25   0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     1      0      1      22     22     13     0      0      0      0      0      0      0      0      0
      7.692307692  0      7.692307692  23.07692308  7.692307692  23.07692308  7.692307692  23.07692308  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      7.692307692  0      7.692307692  23.07692308  7.692307692
      23.07692308  7.692307692  23.07692308  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#2007 1      28     1      0      1      23     23     6      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  16.66666667  16.66666667  0      16.66666667  33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      16.66666667  16.66666667  16.66666667  0
      16.66666667  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2007 1      28     1      0      1      24     24     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      33.33333333  0      0      0      0
      0      33.33333333  0      0      33.33333333  0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333
	0	0	0	0	0	33.33333333		0	0	33.33333333	0	0	0	0	0	
#2007	1	28	1	0	1	25	25	3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	33.33333333		0	0	33.33333333	0	0	0	33.33333333
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	33.33333333	0	0	33.33333333	
	0	0	33.33333333		0	0	0	0	0	0	0	0	0	0	0	
#2008	1	28	1	0	1	1	1	2	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	2	2	4	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	3	3	7	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	4	4	11	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	5	5	10	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	7	7	1	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	8	8	1	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2008	1	28	1	0	1	9	9	3	0	0	0	66.66666667		33.33333333	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	

```
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      10     10     6      0      0      0      16.66666667  50     33.33333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      16.66666667  50
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      11     11     9      0      0      0      11.11111111  44.44444444  22.22222222
      22.22222222  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.11111111  44.44444444  22.22222222  22.22222222  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2008 1      28     1      0      1      12     12     15     0      0      0      6.666666667  33.33333333  33.33333333
      6.666666667  20     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      6.666666667  33.33333333  33.33333333  6.666666667  20     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2008 1      28     1      0      1      13     13     12     0      0      0      0      8.333333333  25     25     25
      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      8.333333333
      25     25     25     16.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      14     14     16     0      0      0      0      0      18.75  18.75  56.25  6.25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      18.75  18.75  56.25
      6.25   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      15     15     13     0      0      0      0      0      0      23.07692308
      30.76923077  38.46153846  7.692307692  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      23.07692308  30.76923077  38.46153846  7.692307692  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2008 1      28     1      0      1      16     16     10     0      0      0      0      0      0      0      40     40
      10     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      40
      40     10     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      17     17     18     0      0      0      0      0      0      0      11.11111111
      50     16.66666667  11.11111111  5.555555556  5.555555556  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      11.11111111  50     16.66666667  11.11111111  5.555555556  5.555555556  0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2008 1      28     1      0      1      18     18     11     0      0      0      0      0      0      0      0
      18.18181818  54.54545455  9.090909091  9.090909091  9.090909091  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      18.18181818  54.54545455  9.090909091  9.090909091  9.090909091  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2008 1      28     1      0      1      19     19     10     0      0      0      0      0      0      0      0      10
      20     20     20     10     0      10     10     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      10     20     20     20     10     0      10     10     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      20     20     12     0      0      0      0      0      0      0      0      0
      25     16.66666667  25     0      8.333333333  16.66666667  8.333333333  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      25     16.66666667  25     0      8.333333333  16.66666667  8.333333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2008 1      28     1      0      1      21     21     20     0      0      0      0      0      0      0      0      0
      0      5      40     10     5      5      10     10     0      10     0      5      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      5      40     10     5      5      10     10     0      10     0      5      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      22     22     19     0      0      0      0      0      0      0      0      0
      0      5.263157895  0      0      15.78947368  15.78947368  15.78947368  5.263157895  15.78947368  5.263157895
      0      5.263157895  5.263157895  0      5.263157895  0      5.263157895  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      5.263157895  0      0
      15.78947368  15.78947368  15.78947368  5.263157895  15.78947368  5.263157895  0      5.263157895  5.263157895
      0      5.263157895  0      5.263157895  0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      23     23     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      66.66666667  33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667  33.33333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2008 1      28     1      0      1      24     24     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      33.33333333  0      33.33333333  0      0      0
      0      0      0      0      0      0      0      0      33.33333333  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333  0
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      33.33333333  0      0
#2008 1      28     1      0      1      25     25     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0
```

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#2008 1     28    1     0     1     26    26    2     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     50    0     0     0     50    0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     50    0     0     0     50
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     1     1     1     100   0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     2     2     0.5   0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     3     3     1.5   0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     4     4     3.5   0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     5     5     3.5   0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     6     6     0.5   0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     8     8     2     0     0     0     0     100   0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     100   0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2009 1     28    1     0     1     9     9     1     0     0     0     0     0     100   0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     100   0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
```

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#2009 1      28     1      0      1      10     10     2      0      0      0      0      50     50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      11     11     2      0      0      0      0      50     0      50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      12     12     17     0      0      0      0      17.64705882  11.76470588
      23.52941176  47.05882353  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      17.64705882  11.76470588  23.52941176  47.05882353  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2009 1      28     1      0      1      13     13     8      0      0      0      0      0      25     50     25     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     50     25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      14     14     6      0      0      0      0      0      16.66666667  50     0
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      16.66666667  50     0      33.33333333  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      15     15     9      0      0      0      0      11.11111111  0      0
      44.44444444  44.44444444  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.11111111  0      0      44.44444444  44.44444444  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      16     16     3      0      0      0      0      0      0      0      33.33333333
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      17     17     3      0      0      0      0      0      0      0      0
      66.66666667  0      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      66.66666667  0      33.33333333  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2009 1      28     1      0      1      18     18     4      0      0      0      0      0      0      0      25     0
      50     0      0      0      0      0      0      0      0      0      0      0      25     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25
```

	0	50	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2009	1	28	1	0	1	19	19	2	0	0	0	0	0	0	0	0	0
	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2009	1	28	1	0	1	20	20	4	0	0	0	0	0	0	0	0	0
	25	0	25	0	25	0	25	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	25	0	25	0	25	0	25	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2009	1	28	1	0	1	21	21	8	0	0	0	0	0	0	0	0	0
	0	12.5	12.5	12.5	0	12.5	12.5	25	0	0	0	0	0	0	12.5	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	12.5	12.5	12.5	0	12.5	12.5	25	0	0	0	0	0	0	12.5	0
	0	0	0	0	0	0	0	0	0	0							
#2009	1	28	1	0	1	22	22	6	0	0	0	0	0	0	0	0	0
	0	0	16.66666667	0	0	16.66666667	0	0	16.66666667	0	16.66666667	16.66666667					
	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	16.66666667	0	0	16.66666667	0	0			
	16.66666667	0	16.66666667	16.66666667	16.66666667	0	0	0	0	0	0	0	0				
	0	0	0	0	0												
#2009	1	28	1	0	1	23	23	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	50	0	0	0	50	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2009	1	28	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	1	0	1	1	1	24	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	1	0	1	2	2	3	83.33333333	16.66666667	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	83.33333333	16.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2010	1	28	1	0	1	3	3	14	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

```
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      4      4      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      5      5      5      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      6      6      7      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      7      7      3      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      10     10     2      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      11     11     1      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      12     12     5      0      0      0      0      0      40     20     40     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      40     20     40
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      13     13     12     0      0      0      0      0      8.333333333  83.33333333
      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      8.333333333  83.33333333  8.333333333  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      14     14     17     0      0      0      0      0      0      41.17647059
      47.05882353  11.76470588  0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      41.17647059  47.05882353  11.76470588  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      15     15     10     0      0      0      0      0      0      0      70     30
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      70
      30     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      16     16     7      0      0      0      0      0      0      0      14.28571429
      71.42857143  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      14.28571429  71.42857143  14.28571429  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      17     17     10     0      0      0      0      0      0      0      10     30
      40     0      10     0      10     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      10
      30     40     0      10     0      10     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      18     18     3      0      0      0      0      0      0      0      0
      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2010 1      28     1      0      1      19     19     9      0      0      0      0      0      0      0      0      0
      0      22.22222222  44.44444444  0      0      11.11111111  11.11111111  0      11.11111111  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      22.22222222  44.44444444  0      0      11.11111111  11.11111111
      0      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2010 1      28     1      0      1      20     20     12     0      0      0      0      0      0      0      0      0
      0      16.66666667  16.66666667  16.66666667  16.66666667  25     8.333333333  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      16.66666667  16.66666667  16.66666667  16.66666667  25
      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2010 1      28     1      0      1      21     21     14     0      0      0      0      0      0      0      0      0
      0      0      0      14.28571429  21.42857143  21.42857143  21.42857143  14.28571429  0      0      7.142857143
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      14.28571429  21.42857143  21.42857143
      21.42857143  14.28571429  0      0      7.142857143  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2010 1      28     1      0      1      22     22     20     0      0      0      0      0      0      0      0      0
      0      0      0      5      5      5      15     15     5      35     10     0      0      0      0      0      5
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	5	5	5	15	15	5	35	10	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0							
#2010	1	28	1	0	1	23	23	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	25	25	0	0	25	0	0	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	25	25	0	0	25	0	0	25
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	1	0	1	24	24	7	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	14.28571429		0	14.28571429		14.28571429		
	42.85714286		14.28571429		0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	14.28571429		0	14.28571429		14.28571429		42.85714286		14.28571429		0	0	0	0	0	0
	0	0	0	0	0												
#2010	1	28	1	0	1	25	25	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0							
#2011	1	28	1	0	1	1	1	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2011	1	28	1	0	1	2	2	1	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2011	1	28	1	0	1	4	4	3	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2011	1	28	1	0	1	5	5	6	0	66.66666667		33.33333333		0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667		33.33333333		0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2011	1	28	1	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2011	1	28	1	0	1	7	7	8	0	0	12.5	87.5	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      12.5   87.5   0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      8      8      10     0      0      10     50     40     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      10     50     40     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      9      9      3      0      0      0      66.66666667  33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      10     10     6      0      0      0      0      83.33333333  16.66666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      83.33333333
      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      11     11     4      0      0      0      0      50     0      50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      12     12     1      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      13     13     4      0      0      0      0      0      25     0      75     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     0      75
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      14     14     5      0      0      0      0      0      40     0      20     40
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      40     0      20
      40     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      15     15     6      0      0      0      0      0      0      0      50     50
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50
      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      16     16     2      0      0      0      0      0      0      50     50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      17     17     7      0      0      0      0      0      0      0      0
      42.85714286  42.85714286  14.28571429  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      42.85714286  42.85714286  14.28571429  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      18     18     4      0      0      0      0      0      0      0      25     0
      25     0      25     25     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25
      0      25     0      25     25     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      19     19     7      0      0      0      0      0      0      0      0      0
      28.57142857  42.85714286  0      0      0      14.28571429  0      14.28571429  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      28.57142857  42.85714286  0      0      0      14.28571429  0      14.28571429
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2011 1      28     1      0      1      20     20     15     0      0      0      0      0      0      0      0      0
      0      0      6.666666667  26.66666667  20     6.666666667  20     13.33333333  0      6.666666667  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      6.666666667  26.66666667  20     6.666666667  20
      13.33333333  0      6.666666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2011 1      28     1      0      1      21     21     12     0      0      0      0      0      0      0      0      0
      0      0      0      0      8.333333333  16.66666667  16.66666667  8.333333333  8.333333333  0      16.66666667
      8.333333333  8.333333333  0      0      8.333333333  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      8.333333333
      16.66666667  16.66666667  8.333333333  8.333333333  0      16.66666667  8.333333333  8.333333333  0      0
      8.333333333  0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      22     22     20     0      0      0      0      0      0      0      0      0
      0      0      5      5      10     5      20     0      10     10     10     10     5      5      0      5      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      5      5      10     5      20     0      10     10     10     10     5      5      0      5
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     1      0      1      23     23     9      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      11.11111111  0      11.11111111  0      11.11111111  0      22.22222222
      11.11111111  0      22.22222222  0      0      0      0      0      11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      11.11111111  0
      11.11111111  0      11.11111111  0      22.22222222  11.11111111  0      22.22222222  0      0      0      0
      0      11.11111111  0      0      0      0
#2011 1      28     1      0      1      24     24     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      25     0      0      0      0      25     0      0      25     0      0      25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	25	0	0	0	0	25	0	0	25	0	0
	25	0	0	0	0	0	0	0	0	0							
#2011	1	28	1	0	1	25	25	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0
	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0
	0	0	50	0	0	0	0	0	0	0							
#2012	1	28	1	0	1	1	1	5.5	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2012	1	28	1	0	1	2	2	2.5	20	80	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	20	80	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2012	1	28	1	0	1	3	3	15	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2012	1	28	1	0	1	4	4	22	0	95.45454545	4.545454545	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	95.45454545	4.545454545	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2012	1	28	1	0	1	5	5	3.5	0	42.85714286	57.14285714	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	42.85714286	57.14285714	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2012	1	28	1	0	1	6	6	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2012	1	28	1	0	1	7	7	6	0	0	66.66666667	16.66666667	16.66666667	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667			
	16.66666667	16.66666667	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#2012	1	28	1	0	1	8	8	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      9      9      5      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      10     10     14     0      0      0      7.142857143  85.71428571  7.142857143
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      7.142857143
      85.71428571  7.142857143  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      11     11     15     0      0      0      6.666666667  86.66666667  6.666666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      6.666666667
      86.66666667  6.666666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      12     12     11     0      0      0      0      36.36363636  54.54545455
      9.090909091  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      36.36363636  54.54545455  9.090909091  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      13     13     11     0      0      0      0      18.18181818  27.27272727
      27.27272727  18.18181818  9.090909091  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      18.18181818  27.27272727  27.27272727  18.18181818  9.090909091  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2012 1      28     1      0      1      14     14     5      0      0      0      0      0      0      20     60     0
      20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20     60
      0      20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      15     15     19     0      0      0      0      0      0      10.52631579
      47.36842105  26.31578947  15.78947368  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      10.52631579  47.36842105  26.31578947  15.78947368  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2012 1      28     1      0      1      16     16     19     0      0      0      0      0      0      0      26.31578947
      26.31578947  26.31578947  21.05263158  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      26.31578947  26.31578947  26.31578947  21.05263158  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
```

```
#2012 1      28     1      0      1      17     17     14     0      0      0      0      0      0      0      14.28571429
      35.71428571  21.42857143  14.28571429  7.142857143  7.142857143  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      14.28571429  35.71428571  21.42857143  14.28571429  7.142857143  7.142857143
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2012 1      28     1      0      1      18     18     8      0      0      0      0      0      0      0      0      12.5
      0      75     0      0      0      12.5   0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      12.5   0      75     0      0      0      12.5   0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      19     19     20     0      0      0      0      0      0      0      5      10
      20     15     10     15     0      0      0      10     15     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      5
      10     20     15     10     15     0      0      0      10     15     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      20     20     11     0      0      0      0      0      0      0      0      0
      0      9.090909091  27.27272727  9.090909091  9.090909091  18.18181818  27.27272727  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      9.090909091  27.27272727  9.090909091  9.090909091
      18.18181818  27.27272727  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2012 1      28     1      0      1      21     21     16     0      0      0      0      0      0      0      0      0
      0      0      0      6.25   12.5   31.25  12.5   0      6.25   6.25   0      12.5   0      6.25   6.25   0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      6.25   12.5   31.25  12.5   0      6.25   6.25   0      12.5   0      6.25   6.25   0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     1      0      1      22     22     9      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      33.33333333  11.11111111  11.11111111  0      22.22222222  11.11111111
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333  11.11111111
      11.11111111  0      22.22222222  11.11111111  11.11111111  0      0      0      0      0      0      0      0
      0      0      0      0      0
#2012 1      28     1      0      1      23     23     9      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      11.11111111  11.11111111  11.11111111  11.11111111  0      0
      11.11111111  11.11111111  22.22222222  0      0      0      11.11111111  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.11111111  11.11111111  11.11111111  11.11111111  0      0      11.11111111  11.11111111  22.22222222  0
      0      0      11.11111111  0      0      0      0      0
#2012 1      28     1      0      1      24     24     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      33.33333333  0      33.33333333
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0
      0
```

#2012	1	28	1	0	1	25	25	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	1	0	1	1	1	17	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	1	0	1	2	2	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	1	0	1	3	3	4	0	75	25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	1	0	1	4	4	2	0	50	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	1	0	1	5	5	6	0	16.66666667	83.33333333	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667	83.33333333	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2013	1	28	1	0	1	6	6	29	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	1	0	1	7	7	18	0	0	72.22222222	22.22222222	5.555555556	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	72.22222222			
	22.22222222	5.555555556	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#2013	1	28	1	0	1	8	8	10	0	0	20	50	20	0	10	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	20	50	20	0	10	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

```
#2013 1      28     1      0      1      9      9      7      0      0      0      42.85714286  42.85714286  14.28571429
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      42.85714286
      42.85714286  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      10     10     9      0      0      0      22.22222222  55.55555556  22.22222222
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      22.22222222
      55.55555556  22.22222222  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      11     11     8      0      0      0      0      25     75     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      25     75     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      12     12     3      0      0      0      33.33333333  33.33333333  33.33333333
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333
      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      13     13     2      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      14     14     1      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      15     15     2      0      0      0      0      0      0      0      50     0
      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50
      0      50     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      16     16     6      0      0      0      0      0      0      16.66666667
      33.33333333  0      33.33333333  16.66666667  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  33.33333333  0      33.33333333  16.66666667  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2013 1      28     1      0      1      17     17     13     0      0      0      0      0      0      7.692307692  0
      7.692307692  53.84615385  23.07692308  0      7.692307692  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      7.692307692  0      7.692307692  53.84615385  23.07692308  0      7.692307692  0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2013 1      28     1      0      1      18     18     9      0      0      0      0      0      0      0      22.22222222
      22.22222222  22.22222222  0      11.11111111  11.11111111  0      11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      22.22222222  22.22222222  22.22222222  0      11.11111111  11.11111111  0
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2013 1      28     1      0      1      19     19     11     0      0      0      0      0      0      0      0
      9.090909091  0      9.090909091  18.18181818  18.18181818  45.45454545  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      9.090909091  0      9.090909091  18.18181818  18.18181818  45.45454545
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2013 1      28     1      0      1      20     20     8      0      0      0      0      0      0      0      0      0
      0      25     12.5   0      25     0      12.5   12.5   0      0      0      0      0      12.5   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      25     12.5   0      25     0      12.5   12.5   0      0      0      0      0      12.5   0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      21     21     11     0      0      0      0      0      0      0      0      0
      0      0      9.090909091  0      18.18181818  9.090909091  9.090909091  18.18181818  18.18181818  9.090909091
      0      0      0      0      0      9.090909091  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      9.090909091  0      18.18181818
      9.090909091  9.090909091  18.18181818  18.18181818  9.090909091  0      0      0      0      0      9.090909091
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      22     22     6      0      0      0      0      0      0      0      0      0
      0      0      0      0      16.66666667  0      0      0      0      16.66666667  16.66666667  0      0      0
      16.66666667  0      16.66666667  0      16.66666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      16.66666667  0      0      0      0
      16.66666667  16.66666667  0      0      0      16.66666667  0      16.66666667  0      16.66666667  0      0
      0      0      0      0      0
#2013 1      28     1      0      1      23     23     6      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      16.66666667  0      0      16.66666667  33.33333333  16.66666667
      0      0      0      0      0      0      16.66666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      16.66666667  0      0      0
      16.66666667  33.33333333  16.66666667  0      0      0      0      0      0      16.66666667  0      0      0
      0      0      0
#2013 1      28     1      0      1      24     24     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     1      0      1      25     25     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
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      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      1      1      0.5    0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      2      2      5      50     50     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      50     50     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      3      3      6      16.66666667  83.33333333  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      16.66666667  83.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      4      4      10     0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      5      5      10     0      60     40     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      60     40     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      6      6      10     0      10     60     30     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      10     60     30     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      7      7      16     0      0      37.5   56.25  6.25   0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      37.5   56.25  6.25   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      8      8      19     0      0      10.52631579  68.42105263  21.05263158  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      10.52631579
      68.42105263  21.05263158  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      9      9      22     0      0      0      59.09090909  31.81818182  9.090909091
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      59.09090909
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      31.81818182  9.090909091  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      10     10     9      0      0      0      22.22222222  44.44444444  33.33333333
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      22.22222222
      44.44444444  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      11     11     11     0      0      0      9.090909091  63.63636364  9.090909091
      18.18181818  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      9.090909091  63.63636364  9.090909091  18.18181818  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2014 1      28     1      0      1      12     12     7      0      0      0      0      42.85714286  28.57142857
      28.57142857  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      42.85714286  28.57142857  28.57142857  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      13     13     7      0      0      0      0      14.28571429  42.85714286
      42.85714286  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      14.28571429  42.85714286  42.85714286  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      14     14     11     0      0      0      0      0      18.18181818  27.27272727
      54.54545455  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      18.18181818  27.27272727  54.54545455  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      15     15     11     0      0      0      0      9.090909091  9.090909091
      45.45454545  9.090909091  18.18181818  9.090909091  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      9.090909091  9.090909091  45.45454545  9.090909091  18.18181818  9.090909091  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2014 1      28     1      0      1      16     16     18     0      0      0      0      0      0      11.11111111
      44.44444444  16.66666667  11.11111111  11.11111111  5.555555556  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      11.11111111  44.44444444  16.66666667  11.11111111  11.11111111  5.555555556
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2014 1      28     1      0      1      17     17     22     0      0      0      0      0      0      13.63636364
      18.18181818  9.090909091  31.81818182  13.63636364  0      4.545454545  4.545454545  4.545454545  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      13.63636364  18.18181818  9.090909091  31.81818182  13.63636364
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      0      4.545454545  4.545454545  4.545454545  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      18     18     22     0      0      0      0      0      0      0      9.090909091
      13.63636364  9.090909091  31.81818182  13.63636364  13.63636364  0      4.545454545  0      4.545454545  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      9.090909091  13.63636364  9.090909091  31.81818182  13.63636364
      13.63636364  0      4.545454545  0      4.545454545  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      19     19     48     0      0      0      0      0      0      0      4.166666667
      4.166666667  16.66666667  25     25     12.5   6.25   4.166666667  0      0      0      0      0      2.083333333
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      4.166666667  4.166666667  16.66666667  25     25     12.5   6.25   4.166666667  0
      0      0      0      0      2.083333333  0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2014 1      28     1      0      1      20     20     34     0      0      0      0      0      0      0      0
      2.941176471  5.882352941  2.941176471  17.64705882  14.70588235  29.41176471  8.823529412  5.882352941
      2.941176471  5.882352941  0      2.941176471  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      2.941176471  5.882352941
      2.941176471  17.64705882  14.70588235  29.41176471  8.823529412  5.882352941  2.941176471  5.882352941  0
      2.941176471  0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     1      0      1      21     21     38     0      0      0      0      0      0      0      0      0
      0      0      10.52631579  7.894736842  7.894736842  15.78947368  15.78947368  7.894736842  10.52631579
      10.52631579  5.263157895  2.631578947  2.631578947  0      0      0      0      0      0      2.631578947  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      10.52631579  7.894736842  7.894736842  15.78947368  15.78947368  7.894736842  10.52631579  10.52631579
      5.263157895  2.631578947  2.631578947  0      0      0      0      0      0      2.631578947  0      0      0
      0      0      0
#2014 1      28     1      0      1      22     22     39     0      0      0      0      0      0      0      0      0
      0      0      0      5.128205128  2.564102564  12.82051282  7.692307692  5.128205128  25.64102564  7.692307692
      0      7.692307692  15.38461538  5.128205128  0      0      2.564102564  2.564102564  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      5.128205128  2.564102564  12.82051282  7.692307692  5.128205128  25.64102564  7.692307692  0      7.692307692
      15.38461538  5.128205128  0      0      2.564102564  2.564102564  0      0      0      0      0      0      0
      0
#2014 1      28     1      0      1      23     23     24     0      0      0      0      0      0      0      0      0
      0      0      0      4.166666667  4.166666667  8.333333333  4.166666667  8.333333333  4.166666667  16.66666667
      0      8.333333333  12.5   4.166666667  4.166666667  0      12.5   0      4.166666667  0      4.166666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      4.166666667  4.166666667  8.333333333  4.166666667  8.333333333  4.166666667  16.66666667  0      8.333333333
      12.5   4.166666667  4.166666667  0      12.5   0      4.166666667  0      4.166666667  0      0      0      0
      0
#2014 1      28     1      0      1      24     24     7      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      28.57142857  28.57142857  0      0      0
      0      14.28571429  14.28571429  0      14.28571429  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	28.57142857	28.57142857	0	0	0	0	14.28571429	14.28571429	0	14.28571429	0	0				
	0	0	0	0												
#2003	1	28	2	0	1	1	1	2	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	2	2	3	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	3	3	11	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	4	4	3	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	6	6	4	0	25	75	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	25	75	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	7	7	3	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	8	8	1	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	9	9	3	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0						
#2003	1	28	2	0	1	12	12	1	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     2      0      1      13     13     7      0      0      0      0      0      57.14285714  14.28571429
      14.28571429  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      57.14285714  14.28571429  14.28571429  14.28571429  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2003 1      28     2      0      1      14     14     8      0      0      0      0      0      25     25     12.5   12.5
      12.5   0      0      12.5   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     25     12.5
      12.5   12.5   0      0      12.5   0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     2      0      1      15     15     13     0      0      0      0      0      0      15.38461538
      53.84615385  7.692307692  15.38461538  7.692307692  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      15.38461538  53.84615385  7.692307692  15.38461538  7.692307692  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2003 1      28     2      0      1      16     16     16     0      0      0      0      0      18.75  12.5   18.75  37.5
      0      6.25   6.25   0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      18.75  12.5   18.75
      37.5   0      6.25   6.25   0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     2      0      1      17     17     24     0      0      0      0      0      0      4.166666667
      20.83333333  16.66666667  29.16666667  0      20.83333333  8.333333333  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      4.166666667  20.83333333  16.66666667  29.16666667  0      20.83333333
      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#2003 1      28     2      0      1      18     18     25     0      0      0      0      0      0      4      0      12
      16     8      20     24     0      8      4      0      0      4      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      4      0
      12     16     8      20     24     0      8      4      0      0      4      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2003 1      28     2      0      1      19     19     18     0      0      0      0      0      0      0      0
      11.11111111  11.11111111  11.11111111  5.555555556  27.77777778  16.66666667  5.555555556  5.555555556
      5.555555556  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      11.11111111  11.11111111  11.11111111
      5.555555556  27.77777778  16.66666667  5.555555556  5.555555556  5.555555556  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#2003 1      28     2      0      1      20     20     13     0      0      0      0      0      0      0      0      0
      0      15.38461538  7.692307692  15.38461538  15.38461538  23.07692308  0      0      0      0      7.692307692
      0      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      7.692307692
      0      0      0      0      0      0      0      0      0      0      15.38461538  7.692307692  15.38461538
```

	15.38461538	23.07692308	0	0	0	0	7.692307692	0	7.692307692	0	0	0	0				
	0	0	0	0	0	0	0	0	7.692307692								
#2003	1	28	2	0	1	21	21	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	2	0	1	2	2	2	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	2	0	1	3	3	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	2	0	1	5	5	7	0	14.28571429	85.71428571	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	14.28571429	85.71428571	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2004	1	28	2	0	1	6	6	1	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	2	0	1	7	7	2	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	2	0	1	9	9	4	0	0	0	75	25	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2004	1	28	2	0	1	10	10	6	0	0	0	16.66666667	83.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		
	83.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2004	1	28	2	0	1	11	11	6	0	0	0	0	33.33333333	66.66666667	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333333		

```
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2004 1      28     2      0      1      12     12     9      0      0      0      11.11111111  44.44444444  22.22222222
      11.11111111  0      0      11.11111111  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.11111111  44.44444444  22.22222222  11.11111111  0      0      11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2004 1      28     2      0      1      13     13     14     0      0      0      0      28.57142857  35.71428571
      28.57142857  7.142857143  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      28.57142857  35.71428571  28.57142857  7.142857143  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2004 1      28     2      0      1      14     14     4      0      0      0      0      75     0      25     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      75     0      25     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      28     2      0      1      15     15     9      0      0      0      0      0      11.11111111  33.33333333
      44.44444444  11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      11.11111111  33.33333333  44.44444444  11.11111111  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2004 1      28     2      0      1      16     16     12     0      0      0      0      0      0      16.66666667  25
      8.333333333  33.33333333  8.333333333  0      8.333333333  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  25     8.333333333  33.33333333  8.333333333  0      8.333333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2004 1      28     2      0      1      17     17     9      0      0      0      0      0      11.11111111  11.11111111
      11.11111111  22.22222222  44.44444444  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      11.11111111  11.11111111  11.11111111  22.22222222  44.44444444  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2004 1      28     2      0      1      18     18     12     0      0      0      0      0      0      0      8.333333333
      8.333333333  25     0      8.333333333  8.333333333  16.66666667  16.66666667  0      0      8.333333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      8.333333333  8.333333333  25     0      8.333333333  8.333333333
      16.66666667  16.66666667  0      0      8.333333333  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
#2004 1      28     2      0      1      19     19     12     0      0      0      0      0      0      0      0
      8.333333333  0      0      25     0      25     8.333333333  0      0      8.333333333  8.333333333  0
```

```
      8.333333333  0      0      0      8.333333333  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      8.333333333  0      0      25     0      25     8.333333333
      0      0      8.333333333  8.333333333  0      8.333333333  0      0      0      8.333333333  0      0      0
      0      0      0      0      0      0      0
#2004 1      28     2      0      1      20     20     13     0      0      0      0      0      0      0      0      0
      7.692307692  7.692307692  0      7.692307692  0      0      15.38461538  0      0      15.38461538  7.692307692
      0      0      7.692307692  0      0      7.692307692  0      0      0      0      0      0      0      0
      23.07692308  0      0      0      0      0      0      0      0      0      7.692307692  7.692307692  0
      7.692307692  0      0      15.38461538  0      0      15.38461538  7.692307692  0      0      7.692307692  0
      0      7.692307692  0      0      0      0      0      0      0      0      23.07692308
#2004 1      28     2      0      1      21     21     6      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  16.66666667  0      16.66666667  0      0      0      0      0      16.66666667
      0      0      0      0      0      0      0      0      16.66666667  0      0      0      16.66666667  0      0
      0      0      0      0      0      0      0      0      0      0      16.66666667  16.66666667  0      16.66666667
      0      0      0      0      0      16.66666667  0      0      0      0      0      0      0      0      16.66666667
      0      0      0      16.66666667
#2004 1      28     2      0      1      22     22     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      25     0      0      0      0      0      0      0      0      25     25     0      0
      0      0      0      0      0      0      0      0      25     0      0      0      0      0      0      0      0
      0      0      0      0      0      25     0      0      0      0      0      0      0      0      25     25     0
      0      0      0      0      0      0      0      0      0      25
#2004 1      28     2      0      1      23     23     2      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      50     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      50     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      50     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      50
#2005 1      28     2      0      1      3      3      2      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      4      4      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      5      5      3      0      0      33.33333333  66.66666667  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333  66.66666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      6      6      3      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      7      7      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      8      8      2      0      0      0      50     50     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      9      9      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      12     12     2      0      0      0      0      50     0      50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      13     13     7      0      0      0      0      14.28571429  28.57142857
      57.14285714  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      14.28571429  28.57142857  57.14285714  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      14     14     8      0      0      0      0      0      0      25     75     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     75
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      15     15     9      0      0      0      0      0      11.11111111  11.11111111
      77.77777778  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.11111111  11.11111111  77.77777778  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      16     16     17     0      0      0      0      0      0      11.76470588
      41.17647059  23.52941176  17.64705882  5.882352941  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      11.76470588  41.17647059  23.52941176  17.64705882  5.882352941  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2005 1      28     2      0      1      17     17     23     0      0      0      0      0      0      0      17.39130435
      47.82608696  17.39130435  17.39130435  0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      17.39130435  47.82608696  17.39130435  17.39130435  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2005 1      28     2      0      1      18     18     24.80487001  0      0      0      0      0      0      4.0314664
      7.276272799  16.1258656   20.157332    20.157332    16.1258656   8.0629328    4.0314664    0      4.0314664
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      4.0314664    7.276272799  16.1258656   20.157332
      20.157332    16.1258656   8.0629328    4.0314664    0      4.0314664    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      19     19     16     0      0      0      0      0      0      0      0      6.25
      6.25   31.25  6.25   12.5   0      12.5   18.75  0      0      0      0      0      0      0      6.25   0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      6.25   6.25   31.25  6.25   12.5   0      12.5   18.75  0      0      0      0      0      0      0      6.25   0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      20     20     8      0      0      0      0      0      0      0      0      0
      0      25     37.5   12.5   0      0      0      12.5   12.5   0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      25     37.5   12.5   0      0      0      12.5   12.5   0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2005 1      28     2      0      1      21     21     2      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      50     0      0      0      50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      50     0      0      0      50     0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      5      5      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      6      6      3      0      0      66.66666667  33.33333333  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667  33.33333333
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      7      7      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      8      8      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
```

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#2006 1      28     2      0      1      10     10     0.58148927   0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      11     11     3      0      0      0      0      33.33333333  66.66666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      12     12     1      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      13     13     2      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      14     14     10     0      0      0      0      0      0      50     40     10
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     40
      10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      15     15     8      0      0      0      0      0      0      25     37.5   37.5
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     37.5
      37.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      16     16     19     0      0      0      0      0      0      21.05263158
      15.78947368  47.36842105  15.78947368  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      21.05263158  15.78947368  47.36842105  15.78947368  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2006 1      28     2      0      1      17     17     18     0      0      0      0      0      0      5.555555556
      11.11111111  38.88888889  16.66666667  0      22.22222222  0      5.555555556  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      5.555555556  11.11111111  38.88888889  16.66666667  0      22.22222222  0
      5.555555556  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2006 1      28     2      0      1      18     18     31     0      0      0      0      0      0      0      3.225806452
      3.225806452  12.90322581  19.35483871  22.58064516  12.90322581  9.677419355  3.225806452  6.451612903  0
      6.451612903  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      3.225806452  3.225806452  12.90322581  19.35483871
      22.58064516  12.90322581  9.677419355  3.225806452  6.451612903  0      6.451612903  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      19     19     19     0      0      0      0      0      0      0      0      0
      10.52631579  10.52631579  26.31578947  15.78947368  10.52631579  0      5.263157895  5.263157895  5.263157895
      0      5.263157895  0      0      0      0      0      5.263157895  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      10.52631579  10.52631579  26.31578947
      15.78947368  10.52631579  0      5.263157895  5.263157895  5.263157895  0      5.263157895  0      0      0
      0      0      5.263157895  0      0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      20     20     8      0      0      0      0      0      0      0      0      0
      0      0      0      0      12.5   0      0      0      12.5   0      0      37.5   0      0      0      12.5   0
      25     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      12.5   0      0      0      12.5   0      0      37.5   0      0      0      12.5
      0      25     0      0      0      0      0      0      0      0
#2006 1      28     2      0      1      21     21     6      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  16.66666667  0      16.66666667  0      16.66666667  0      0      0
      16.66666667  0      0      0      0      16.66666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      16.66666667  16.66666667  0
      16.66666667  0      16.66666667  0      0      0      16.66666667  0      0      0      0      16.66666667  0
      0      0      0      0      0      0      0
#2006 1      28     2      0      1      22     22     2      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      50     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      50     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      50     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      50
#2007 1      28     2      0      1      4      4      0.5    0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      6      6      8      0      0      37.5   62.5   0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      37.5   62.5   0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      7      7      11     0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      8      8      31     0      0      0      80.64516129  19.35483871  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      80.64516129
      19.35483871  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
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#2007 1      28     2      0      1      9      9      10     0      0      0      50     40     10     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      50     40     10     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      10     10     11     0      0      0      36.36363636  18.18181818  45.45454545
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      36.36363636
      18.18181818  45.45454545  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      11     11     10     0      0      0      0      50     40     10     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     40     10     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      12     12     5      0      0      0      0      0      60     40     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      60     40     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      13     13     7      0      0      0      0      14.28571429  28.57142857
      57.14285714  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      14.28571429  28.57142857  57.14285714  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      14     14     10     0      0      0      0      0      30     60     10     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      30     60     10
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      15     15     6      0      0      0      0      0      16.66666667  16.66666667
      33.33333333  16.66666667  16.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      16.66666667  16.66666667  33.33333333  16.66666667  16.66666667  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2007 1      28     2      0      1      16     16     20     0      0      0      0      0      0      15     25     35
      15     5      5      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      15     25
      35     15     5      5      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      17     17     27     0      0      0      0      0      0      0      0
      22.22222222  29.62962963  25.92592593  22.22222222  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      22.22222222  29.62962963  25.92592593  22.22222222  0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2007 1      28     2      0      1      18     18     58     0      0      0      0      0      0      0      1.724137931
      6.896551724  24.13793103  17.24137931  24.13793103  8.620689655  10.34482759  3.448275862  0      1.724137931
      0      0      0      1.724137931  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      1.724137931  6.896551724  24.13793103  17.24137931
      24.13793103  8.620689655  10.34482759  3.448275862  0      1.724137931  0      0      0      1.724137931  0
      0      0      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      19     19     28     0      0      0      0      0      0      0      0      0
      7.142857143  10.71428571  14.28571429  17.85714286  17.85714286  3.571428571  7.142857143  10.71428571
      3.571428571  3.571428571  0      0      3.571428571  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      7.142857143  10.71428571
      14.28571429  17.85714286  17.85714286  3.571428571  7.142857143  10.71428571  3.571428571  3.571428571  0
      0      3.571428571  0      0      0      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      20     20     38     0      0      0      0      0      0      0      0      0
      2.631578947  7.894736842  5.263157895  7.894736842  21.05263158  7.894736842  10.52631579  7.894736842
      10.52631579  5.263157895  2.631578947  2.631578947  2.631578947  0      2.631578947  0      2.631578947  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      2.631578947  7.894736842  5.263157895  7.894736842  21.05263158  7.894736842  10.52631579  7.894736842
      10.52631579  5.263157895  2.631578947  2.631578947  2.631578947  0      2.631578947  0      2.631578947  0
      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      21     21     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      50     0      0      0      25     0      0      0      0      0      0      0
      0      0      0      0      0      0      25     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      50     0      0      0      25     0      0      0      0      0      0
      0      0      0      0      0      0      0      25     0      0
#2007 1      28     2      0      1      23     23     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      24     24     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2007 1      28     2      0      1      26     26     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100
      0      0      0      0      0      0      0      0      0      0
#2008 1      28     2      0      1      1      1      8      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	2	2	17	94.11764706	5.882352941	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	94.11764706	5.882352941	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2008	1	28	2	0	1	3	3	7	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	4	4	9	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	5	5	13	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	6	6	1	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	7	7	3	0	0	0	66.66666667	33.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667			
	33.33333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
#2008	1	28	2	0	1	8	8	4	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	9	9	5	0	0	0	0	80	20	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	80	20	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2008	1	28	2	0	1	10	10	15	0	0	0	0	60	33.33333333	6.666666667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60		

```
      33.33333333  6.666666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2008 1      28     2      0      1      11     11     9      0      0      0      0      11.11111111  22.22222222
      55.55555556  0      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      11.11111111  22.22222222  55.55555556  0      11.11111111  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2008 1      28     2      0      1      12     12     16     0      0      0      0      6.25   37.5   56.25  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      6.25   37.5   56.25  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2008 1      28     2      0      1      13     13     22     0      0      0      0      13.63636364  9.090909091
      36.36363636  22.72727273  18.18181818  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      13.63636364  9.090909091  36.36363636  22.72727273  18.18181818  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2008 1      28     2      0      1      14     14     19     0      0      0      0      5.263157895  21.05263158
      10.52631579  42.10526316  10.52631579  10.52631579  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      5.263157895  21.05263158  10.52631579  42.10526316  10.52631579  10.52631579  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2008 1      28     2      0      1      15     15     22     0      0      0      0      0      4.545454545  40.90909091
      9.090909091  22.72727273  18.18181818  4.545454545  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      4.545454545  40.90909091  9.090909091  22.72727273  18.18181818  4.545454545  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2008 1      28     2      0      1      16     16     17     0      0      0      0      0      0      11.76470588
      23.52941176  35.29411765  5.882352941  5.882352941  17.64705882  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      11.76470588  23.52941176  35.29411765  5.882352941  5.882352941  17.64705882
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2008 1      28     2      0      1      17     17     15     0      0      0      0      0      0      0      26.66666667
      6.666666667  26.66666667  20     20     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      26.66666667  6.666666667  26.66666667  20     20     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2008 1      28     2      0      1      18     18     15     0      0      0      0      0      0      0      0
      13.33333333  20     0      26.66666667  26.66666667  13.33333333  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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      0      0      0      0      0      13.33333333  20     0      26.66666667  26.66666667  13.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2008 1      28     2      0      1      19     19     6      0      0      0      0      0      0      0      0      0
      16.66666667  0      16.66666667  0      0      6      16.66666667  16.66666667  0      0      16.66666667  0      0
      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      16.66666667  0      16.66666667  0      0      16.66666667
      16.66666667  0      0      16.66666667  0      0      16.66666667  0      0      0      0      0      0      0
      0      0      0      0      0      0
#2008 1      28     2      0      1      20     20     6      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  0      0      16.66666667  0      0      0      0      0      0      16.66666667
      0      0      0      0      33.33333333  0      0      0      0      0      0      16.66666667  0      0      0
      0      0      0      0      0      0      0      0      0      16.66666667  0      0      16.66666667  0      0
      0      0      0      0      16.66666667  0      0      0      0      33.33333333  0      0      0      0      0
      0      16.66666667
#2008 1      28     2      0      1      21     21     6      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      16.66666667  0      0
      0      16.66666667  0      0      0      0      0      0      0      66.66666667  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      16.66666667  0      0      0      16.66666667  0      0      0      0      0      0      0      66.66666667
#2008 1      28     2      0      1      22     22     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      25     0      0      0      0      0      25
      0      0      0      0      0      0      25     0      25     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      25     0      0      0      0      0
      25     0      0      0      0      0      0      25     0      25
#2008 1      28     2      0      1      24     24     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      100    0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      2      2      0.5    0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      3      3      1.5    0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      4      4      9.5    0      89.47368421  10.52631579  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      89.47368421  10.52631579  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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#2009 1      28     2      0      1      5      5      7.5    0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      6      6      2.5    0      60     40     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      60     40     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      7      7      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      8      8      2      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      9      9      4      0      0      0      0      50     50     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      10     10     3      0      0      0      0      0      66.66666667  0
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      66.66666667  0      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      11     11     17     0      0      0      0      29.41176471  17.64705882
      23.52941176  23.52941176  0      5.882352941  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      29.41176471  17.64705882  23.52941176  23.52941176  0      5.882352941  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2009 1      28     2      0      1      12     12     17     0      0      0      0      5.882352941  29.41176471
      29.41176471  23.52941176  11.76470588  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      5.882352941  29.41176471  29.41176471  23.52941176  11.76470588  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2009 1      28     2      0      1      13     13     7      0      0      0      0      0      0      28.57142857
      42.85714286  0      14.28571429  14.28571429  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0      0      0      28.57142857  42.85714286  0      14.28571429  14.28571429  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2009 1      28     2      0      1      14     14     16     0      0      0      0      0      12.5   31.25  31.25  18.75
      0      6.25   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      12.5   31.25  31.25
      18.75  0      6.25   0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      15     15     12     0      0      0      0      0      16.66666667  0      25
      25     16.66666667  8.333333333  8.333333333  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      16.66666667  0      25     25     16.66666667  8.333333333  8.333333333  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2009 1      28     2      0      1      16     16     10     0      0      0      0      0      0      0      30     10
      40     10     0      0      10     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      30
      10     40     10     0      0      10     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      17     17     13     0      0      0      0      0      0      0      15.38461538
      15.38461538  30.76923077  23.07692308  0      7.692307692  7.692307692  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      15.38461538  15.38461538  30.76923077  23.07692308  0      7.692307692
      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2009 1      28     2      0      1      18     18     11     0      0      0      0      0      0      0      0      0
      0      27.27272727  27.27272727  9.090909091  0      0      18.18181818  9.090909091  0      9.090909091  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      27.27272727  27.27272727  9.090909091  0      0
      18.18181818  9.090909091  0      9.090909091  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2009 1      28     2      0      1      19     19     7      0      0      0      0      0      0      0      0      0
      0      0      14.28571429  14.28571429  14.28571429  28.57142857  0      28.57142857  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      14.28571429  14.28571429  14.28571429  28.57142857  0
      28.57142857  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2009 1      28     2      0      1      20     20     8      0      0      0      0      0      0      0      0      0
      0      0      0      0      12.5   0      12.5   0      12.5   12.5   12.5   12.5   12.5   0      12.5   0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      12.5   0      12.5   0      12.5   12.5   12.5   12.5   12.5   0      12.5   0
      0      0      0      0      0      0      0      0      0      0
#2009 1      28     2      0      1      21     21     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	1	1	25	100	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	2	2	5	70	30	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	70	30	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	3	3	22	86.36363636	13.63636364	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	86.36363636	13.63636364	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2010	1	28	2	0	1	4	4	3	0	66.66666667	33.33333333	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2010	1	28	2	0	1	5	5	7	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	6	6	10	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	7	7	3	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	10	10	2	0	0	0	0	50	0	50	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2010	1	28	2	0	1	11	11	2	0	0	0	0	50	50	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     2      0      1      12     12     4      0      0      0      0      0      25     75     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     75     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2010 1      28     2      0      1      13     13     13     0      0      0      0      7.692307692  0      61.53846154
      23.07692308  7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      7.692307692  0      61.53846154  23.07692308  7.692307692  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2010 1      28     2      0      1      14     14     14     0      0      0      0      0      0      42.85714286
      42.85714286  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      42.85714286  42.85714286  14.28571429  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2010 1      28     2      0      1      15     15     12     0      0      0      0      0      0      16.66666667  25
      33.33333333  16.66666667  0      0      8.333333333  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      16.66666667  25     33.33333333  16.66666667  0      0      8.333333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#2010 1      28     2      0      1      16     16     17     0      0      0      0      0      0      23.52941176
      11.76470588  17.64705882  35.29411765  5.882352941  0      5.882352941  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      23.52941176  11.76470588  17.64705882  35.29411765  5.882352941  0
      5.882352941  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#2010 1      28     2      0      1      17     17     17     0      0      0      0      0      0      0      11.76470588
      5.882352941  23.52941176  17.64705882  29.41176471  11.76470588  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      11.76470588  5.882352941  23.52941176  17.64705882  29.41176471  11.76470588
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2010 1      28     2      0      1      18     18     12     0      0      0      0      0      0      0      0      0
      8.333333333  33.33333333  25     8.333333333  16.66666667  0      0      0      8.333333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      8.333333333  33.33333333  25     8.333333333  16.66666667  0      0
      0      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2010 1      28     2      0      1      19     19     17     0      0      0      0      0      0      0      0      0
      0      5.882352941  0      11.76470588  23.52941176  17.64705882  5.882352941  11.76470588  5.882352941  0
      0      5.882352941  0      0      0      0      5.882352941  0      0      0      0      0      5.882352941  0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      5.882352941  0      11.76470588
      23.52941176  17.64705882  5.882352941  11.76470588  5.882352941  0      0      5.882352941  0      0      0
      0      5.882352941  0      0      0      0      0      5.882352941  0      0      0
#2010 1      28     2      0      1      20     20     12     0      0      0      0      0      0      0      0      0
      0      0      0      8.333333333  16.66666667  0      0      0      25     8.333333333  16.66666667  8.333333333
      0      0      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      8.333333333  16.66666667  0      0      0
      25     8.333333333  16.66666667  8.333333333  0      0      16.66666667  0      0      0      0      0      0
      0      0      0      0      0
#2010 1      28     2      0      1      21     21     5      0      0      0      0      0      0      0      0      0
      0      0      20     0      0      0      0      0      0      0      0      40     0      20     0      0      0
      0      0      0      0      0      0      0      0      20     0      0      0      0      0      0      0      0
      0      0      0      20     0      0      0      0      0      0      0      0      40     0      20     0      0
      0      0      0      0      0      0      0      0      0      20
#2010 1      28     2      0      1      22     22     3      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      33.33333333  0      0      0      0      33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      33.33333333  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      33.33333333  0      0      0      0      33.33333333
      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333
#2011 1      28     2      0      1      1      1      1      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     2      0      1      2      2      1      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     2      0      1      3      3      2      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     2      0      1      4      4      2      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2011 1      28     2      0      1      5      5      5      0      60     40     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      60     40     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
```

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#2011  1      28     2      0      1      6      6      1      0      0      0      100    0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      7      7      16     0      0      0      100    0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      8      8      16     0      0      0      87.5   12.5   0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      87.5   12.5   0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      9      9      8      0      0      0      87.5   12.5   0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      87.5   12.5   0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      10     10     10     0      0      0      10     80     10     0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      10     80     10     0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      11     11     2      0      0      0      0      0      50     50     0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50     0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      12     12     3      0      0      0      0      0      33.33333333  0
       33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      13     13     5      0      0      0      0      20     40     20     20     0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      20     40     20     20
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2011  1      28     2      0      1      14     14     9      0      0      0      0      0      0      44.44444444
       33.33333333  11.11111111  11.11111111  0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      44.44444444  33.33333333  11.11111111  11.11111111  0      0      0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2011 1      28     2      0      1      15     15     11     0      0      0      0      0      0      18.18181818
      36.36363636  9.090909091  36.36363636  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      18.18181818  36.36363636  9.090909091  36.36363636  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2011 1      28     2      0      1      16     16     9      0      0      0      0      0      0      0      22.22222222
      33.33333333  11.11111111  11.11111111  11.11111111  11.11111111  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      22.22222222  33.33333333  11.11111111  11.11111111  11.11111111  11.11111111
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2011 1      28     2      0      1      17     17     18     0      0      0      0      0      0      0      0
      22.22222222  22.22222222  22.22222222  11.11111111  11.11111111  11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      22.22222222  22.22222222  22.22222222  11.11111111  11.11111111
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2011 1      28     2      0      1      18     18     33     0      0      0      0      0      0      0      0      0
      3.03030303   18.18181818  12.12121212  18.18181818  18.18181818  9.090909091  6.060606061  0      15.15151515
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      3.03030303   18.18181818  12.12121212  18.18181818
      18.18181818  9.090909091  6.060606061  0      15.15151515  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#2011 1      28     2      0      1      19     19     40     0      0      0      0      0      0      0      0      0
      0      10     5      2.5    15     7.5    5      10     10     7.5    7.5    7.5    2.5    2.5    2.5    0      2.5
      0      2.5    0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      10     5      2.5    15     7.5    5      10     10     7.5    7.5    7.5    2.5    2.5    2.5    0
      2.5    0      2.5    0      0      0      0      0      0      0
#2011 1      28     2      0      1      20     20     17     0      0      0      0      0      0      0      0      0
      0      0      0      5.882352941  0      5.882352941  5.882352941  0      17.64705882  11.76470588  11.76470588
      5.882352941  0      5.882352941  5.882352941  11.76470588  0      0      0      5.882352941  0      0      0
      0      0      5.882352941  0      0      0      0      0      0      0      0      0      0      0      0
      5.882352941  0      5.882352941  5.882352941  0      17.64705882  11.76470588  11.76470588  5.882352941  0
      5.882352941  5.882352941  11.76470588  0      0      0      5.882352941  0      0      0      0      0
      5.882352941
#2011 1      28     2      0      1      21     21     11     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      18.18181818  0      0      0      9.090909091  0      0      0
      9.090909091  18.18181818  9.090909091  9.090909091  0      0      9.090909091  0      0      0      0
      18.18181818  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      18.18181818  0      0      0      9.090909091  0      0      0      9.090909091  18.18181818  9.090909091
      9.090909091  0      0      9.090909091  0      0      0      0      18.18181818
```

```
#2011 1     28    2     0     1     22    22    1     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     100   0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     100
#2011 1     28    2     0     1     23    23    2     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     100   0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     100
#2012 1     28    2     0     1     1     1     7.5   100   0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2012 1     28    2     0     1     2     2     3.5   14.28571429  85.71428571  0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     14.28571429  85.71428571  0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0
#2012 1     28    2     0     1     3     3     20    0     95    5     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     95    5     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2012 1     28    2     0     1     4     4     27    0     96.2962963   3.703703704  0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     96.2962963   3.703703704  0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0
#2012 1     28    2     0     1     5     5     13.5  0     48.14814815  51.85185185  0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     48.14814815  51.85185185  0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0
#2012 1     28    2     0     1     6     6     3     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2012 1     28    2     0     1     7     7     5     0     0     80    0     20    0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     80    0     20    0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
```

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#2012 1      28     2      0      1      8      8      2      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      9      9      5      0      0      0      60     40     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      60     40     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      10     10     20     0      0      0      10     80     10     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      10     80     10     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      11     11     22     0      0      0      0      68.18181818  22.72727273
      9.090909091  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      68.18181818  22.72727273  9.090909091  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      12     12     22     0      0      0      0      50     40.90909091  4.545454545
      4.545454545  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50
      40.90909091  4.545454545  4.545454545  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      13     13     13     0      0      0      0      15.38461538  30.76923077
      30.76923077  23.07692308  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      15.38461538  30.76923077  30.76923077  23.07692308  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2012 1      28     2      0      1      14     14     18     0      0      0      0      5.555555556  16.66666667
      33.33333333  11.11111111  16.66666667  11.11111111  5.555555556  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      5.555555556  16.66666667  33.33333333  11.11111111  16.66666667  11.11111111
      5.555555556  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      15     15     22     0      0      0      0      0      0      27.27272727
      22.72727273  27.27272727  9.090909091  13.63636364  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      27.27272727  22.72727273  27.27272727  9.090909091  13.63636364  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2012 1      28     2      0      1      16     16     24     0      0      0      0      0      4.166666667  4.166666667
      4.166666667  20.83333333  41.66666667  20.83333333  0      4.166666667  0      0      0      0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      4.166666667  4.166666667  4.166666667  20.83333333  41.66666667  20.83333333  0
      4.166666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0
#2012 1      28     2      0      1      17     17     24     0      0      0      0      0      0      4.166666667
      8.333333333  25     4.166666667  25     12.5   0      8.333333333  0      4.166666667  4.166666667  0      0
      0      4.166666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      4.166666667  8.333333333  25     4.166666667  25     12.5   0
      8.333333333  0      4.166666667  4.166666667  0      0      0      4.166666667  0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      18     18     31     0      0      0      0      0      0      0      0      0
      3.225806452  35.48387097  9.677419355  16.12903226  12.90322581  3.225806452  0      3.225806452  3.225806452
      6.451612903  0      3.225806452  0      0      0      3.225806452  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      3.225806452  35.48387097
      9.677419355  16.12903226  12.90322581  3.225806452  0      3.225806452  3.225806452  6.451612903  0
      3.225806452  0      0      0      3.225806452  0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      19     19     23     0      0      0      0      0      0      0      0
      4.347826087  0      4.347826087  4.347826087  8.695652174  13.04347826  21.73913043  0      17.39130435  0
      0      13.04347826  4.347826087  0      8.695652174  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      4.347826087  0      4.347826087
      4.347826087  8.695652174  13.04347826  21.73913043  0      17.39130435  0      0      13.04347826  4.347826087
      0      8.695652174  0      0      0      0      0      0      0      0      0      0      0      0
#2012 1      28     2      0      1      20     20     21     0      0      0      0      0      0      0      0      0
      4.761904762  0      4.761904762  0      0      9.523809524  9.523809524  4.761904762  14.28571429  9.523809524
      0      4.761904762  4.761904762  9.523809524  9.523809524  0      0      4.761904762  0      4.761904762  0
      0      0      0      4.761904762  0      0      0      0      0      0      0      0      0      0      4.761904762
      0      4.761904762  0      0      9.523809524  9.523809524  4.761904762  14.28571429  9.523809524  0
      4.761904762  4.761904762  9.523809524  9.523809524  0      0      4.761904762  0      4.761904762  0      0
      0      0      4.761904762  0
#2012 1      28     2      0      1      21     21     13     0      0      0      0      0      0      0      0      0
      0      0      0      7.692307692  7.692307692  0      7.692307692  7.692307692  0      0      15.38461538
      15.38461538  0      0      7.692307692  0      7.692307692  7.692307692  0      0      7.692307692  0      0
      0      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0
      7.692307692  7.692307692  0      7.692307692  7.692307692  0      0      15.38461538  15.38461538  0      0
      7.692307692  0      7.692307692  7.692307692  0      0      7.692307692  0      0      0      7.692307692  0
#2012 1      28     2      0      1      22     22     6      0      0      0      0      0      0      0      0      0
      0      0      0      16.66666667  0      0      0      16.66666667  0      0      0      0      0      0      0      0
      0      0      0      16.66666667  0      0      0      0      0      0      50     0      0      0      0      0
      0      0      0      0      0      0      0      16.66666667  0      0      0      16.66666667  0      0      0
      0      0      0      0      0      0      0      16.66666667  0      0      0      0      0      0      50
#2013 1      28     2      0      1      1      1      17     100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
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#2013 1      28     2      0      1      2      2      4      0      75     25     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      75     25     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      3      3      6      0      83.33333333  16.66666667  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      83.33333333  16.66666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      4      4      6      0      66.66666667  33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667  33.33333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      5      5      7      0      14.28571429  71.42857143  14.28571429  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      14.28571429  71.42857143
      14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      6      6      15     0      0      93.33333333  6.666666667  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      93.33333333  6.666666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      7      7      17     0      0      76.47058824  17.64705882  5.882352941  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      76.47058824
      17.64705882  5.882352941  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      8      8      7      0      0      42.85714286  14.28571429  42.85714286  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      42.85714286
      14.28571429  42.85714286  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      9      9      9      0      0      0      33.33333333  66.66666667  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      10     10     13     0      0      7.692307692  15.38461538  38.46153846
      38.46153846  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      7.692307692  15.38461538  38.46153846  38.46153846  0      0      0      0      0      0      0      0      0
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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2013 1      28     2      0      1      11     11     9      0      0      0      22.22222222  33.33333333  33.33333333
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      22.22222222  33.33333333  33.33333333  11.11111111  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2013 1      28     2      0      1      12     12     11     0      0      0      0      27.27272727  54.54545455
      9.090909091  9.090909091  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      27.27272727  54.54545455  9.090909091  9.090909091  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2013 1      28     2      0      1      13     13     6      0      0      0      0      16.66666667  33.33333333
      16.66666667  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      16.66666667  33.33333333  16.66666667  33.33333333  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2013 1      28     2      0      1      14     14     4      0      0      0      0      0      25     25     25     25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     25     25
      25     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      15     15     4      0      0      0      0      0      0      0      25     75
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25
      75     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      16     16     10     0      0      0      0      0      0      0      20     20
      40     0      10     0      0      10     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20
      20     40     0      10     0      0      10     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      17     17     14     0      0      0      0      0      0      7.142857143  0
      7.142857143  7.142857143  50     7.142857143  0      7.142857143  0      0      0      7.142857143  0
      7.142857143  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      7.142857143  0      7.142857143  7.142857143  50     7.142857143  0
      7.142857143  0      0      0      7.142857143  0      7.142857143  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
#2013 1      28     2      0      1      18     18     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      50     25     0      0      25     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

	0	0	0	0	0	0	0	50	25	0	0	25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2013	1	28	2	0	1	19	19	11	0	0	0	0	0	0	0	9.090909091	
	9.090909091	9.090909091	0	0	9.090909091	0	0	0	9.090909091	0	9.090909091	0					
	18.18181818	0	0	0	0	18.18181818	0	0	0	0	0	0	0				
	9.090909091	0	0	0	0	0	0	0	9.090909091	9.090909091	9.090909091	0	0				
	9.090909091	0	0	0	9.090909091	0	9.090909091	0	18.18181818	0	0	0	0				
	18.18181818	0	0	0	0	0	0	0	0	9.090909091							
#2013	1	28	2	0	1	20	20	8	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	12.5	12.5	0	12.5	0	12.5	12.5	0	25
	0	0	0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	12.5	12.5	0	12.5	0	12.5	12.5	0
	25	0	0	0	12.5	0	0	0	0	0							
#2013	1	28	2	0	1	21	21	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
	0	0	0	0	0	0	0	0	0	0							
#2014	1	28	2	0	1	1	1	1.5	66.66666667	33.33333333	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	66.66666667	33.33333333	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2014	1	28	2	0	1	2	2	6	58.33333333	41.66666667	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	58.33333333	41.66666667	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0				
#2014	1	28	2	0	1	3	3	16	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2014	1	28	2	0	1	4	4	16	0	93.75	6.25	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	93.75	6.25	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2014	1	28	2	0	1	5	5	18	0	61.11111111	33.33333333	5.555555556	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	61.11111111	33.33333333		
	5.555555556	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#2014	1	28	2	0	1	6	6	11	0	0	72.72727273	27.27272727	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      72.72727273  27.27272727
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      7      7      13     0      0      38.46153846  61.53846154  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      38.46153846  61.53846154
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      8      8      16     0      0      0      81.25  18.75  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      81.25  18.75  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      9      9      27     0      0      7.407407407  62.96296296  22.22222222
      7.407407407  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      7.407407407  62.96296296  22.22222222  7.407407407  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2014 1      28     2      0      1      10     10     14     0      0      0      57.14285714  35.71428571  7.142857143
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      57.14285714
      35.71428571  7.142857143  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      11     11     11     0      0      0      18.18181818  27.27272727  36.36363636
      9.090909091  9.090909091  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      18.18181818  27.27272727  36.36363636  9.090909091  9.090909091  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2014 1      28     2      0      1      12     12     13     0      0      0      0      38.46153846  30.76923077
      23.07692308  7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      38.46153846  30.76923077  23.07692308  7.692307692  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#2014 1      28     2      0      1      13     13     13     0      0      0      0      0      38.46153846  53.84615385
      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      38.46153846  53.84615385  7.692307692  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      14     14     16     0      0      0      0      0      0      43.75  31.25  18.75
      6.25   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      43.75  31.25
```

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      18.75  6.25   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      15     15     27     0      0      0      0      0      0      25.92592593
      40.74074074  14.81481481  11.11111111  3.703703704  3.703703704  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      25.92592593  40.74074074  14.81481481  11.11111111  3.703703704  3.703703704
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2014 1      28     2      0      1      16     16     29     0      0      0      0      0      0      6.896551724
      20.68965517  10.34482759  24.13793103  17.24137931  6.896551724  10.34482759  0      3.448275862  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      6.896551724  20.68965517  10.34482759  24.13793103  17.24137931
      6.896551724  10.34482759  0      3.448275862  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      17     17     52     0      0      0      0      0      1.923076923  3.846153846
      5.769230769  9.615384615  17.30769231  23.07692308  15.38461538  7.692307692  7.692307692  7.692307692  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      1.923076923  3.846153846  5.769230769  9.615384615  17.30769231
      23.07692308  15.38461538  7.692307692  7.692307692  7.692307692  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      18     18     56     0      0      0      0      0      0      0      5.357142857
      7.142857143  5.357142857  12.5   16.07142857  21.42857143  7.142857143  7.142857143  5.357142857  3.571428571
      1.785714286  3.571428571  1.785714286  0      0      0      1.785714286  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      5.357142857  7.142857143
      5.357142857  12.5   16.07142857  21.42857143  7.142857143  7.142857143  5.357142857  3.571428571  1.785714286
      3.571428571  1.785714286  0      0      0      1.785714286  0      0      0      0      0      0      0      0
      0      0      0
#2014 1      28     2      0      1      19     19     63     0      0      0      0      0      0      0      0      0
      4.761904762  6.349206349  4.761904762  6.349206349  6.349206349  17.46031746  9.523809524  9.523809524
      11.11111111  9.523809524  1.587301587  4.761904762  1.587301587  1.587301587  0      1.587301587  3.174603175
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      4.761904762  6.349206349  4.761904762  6.349206349  6.349206349  17.46031746  9.523809524  9.523809524
      11.11111111  9.523809524  1.587301587  4.761904762  1.587301587  1.587301587  0      1.587301587  3.174603175
      0      0      0      0      0      0      0      0      0
#2014 1      28     2      0      1      20     20     50     0      0      0      0      0      0      0      0      0
      2      0      0      6      0      0      4      8      12     2      10     4      8      8      2      10     4
      0      0      2      0      2      2      0      0      14     0      0      0      0      0      0      0      0
      0      2      0      0      6      0      0      4      8      12     2      10     4      8      8      2      10
      4      0      0      2      0      2      2      0      0      14
#2014 1      28     2      0      1      21     21     21     0      0      0      0      0      0      0      0      0
      0      0      0      0      4.761904762  9.523809524  4.761904762  0      0      4.761904762  0      9.523809524
      4.761904762  4.761904762  0      4.761904762  9.523809524  14.28571429  4.761904762  0      0      0      0
      4.761904762  4.761904762  14.28571429  0      0      0      0      0      0      0      0      0      0      0
      0      0      4.761904762  9.523809524  4.761904762  0      0      4.761904762  0      9.523809524  4.761904762
```

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      4.761904762  0      4.761904762  9.523809524  14.28571429  4.761904762  0      0      0      0      4.761904762
      4.761904762  14.28571429
#2014 1      28     2      0      1      22     22     5      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      40     0      0      0      0      0      0      20     0      0      0      20
      0      0      0      0      0      0      20     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      40     0      0      0      0      0      0      20     0      0      0
      20     0      0      0      0      0      0      20     0      0
#
##    2015 -- Triennial   survey conditionals  (n=219)
#1983 1      29     1      0      1      3      3      0      50     50     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      50     50     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      4      4      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      5      5      4.5    0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      6      6      1      0      66.66666667  33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667  33.33333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      7      7      1.5    0      0      40     60     0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      40     60     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      8      8      7      0      0      27.77777778  66.66666667  5.555555556  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      27.77777778
      66.66666667  5.555555556  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      9      9      24.5   0      0      5.357142857  91.07142857  3.571428571  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      5.357142857
      91.07142857  3.571428571  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
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#1983 1      29     1      0      1      10     10     31.5   0      0      2.409638554  80.72289157  16.86746988  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      2.409638554
      80.72289157  16.86746988  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      11     11     38     0      0      0      55.2238806   38.80597015  5.970149254
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      55.2238806
      38.80597015  5.970149254  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      12     12     26     0      0      0      23.63636364  60     14.54545455
      1.818181818  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      23.63636364  60     14.54545455  1.818181818  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#1983 1      29     1      0      1      13     13     17     0      0      0      2.702702703  54.05405405  27.02702703
      13.51351351  0      2.702702703  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      2.702702703  54.05405405  27.02702703  13.51351351  0      2.702702703  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1983 1      29     1      0      1      14     14     18     0      0      0      0      23.25581395  34.88372093
      37.20930233  4.651162791  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      23.25581395  34.88372093  37.20930233  4.651162791  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#1983 1      29     1      0      1      15     15     20.5   0      0      0      0      2.857142857  25.71428571
      45.71428571  17.14285714  0      5.714285714  2.857142857  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      2.857142857  25.71428571  45.71428571  17.14285714  0      5.714285714  2.857142857  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#1983 1      29     1      0      1      16     16     19     0      0      0      0      0      7.407407407  44.44444444
      18.51851852  18.51851852  11.11111111  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      7.407407407  44.44444444  18.51851852  18.51851852  11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1983 1      29     1      0      1      17     17     21.5   0      0      0      0      0      0      16.66666667
      36.11111111  30.55555556  13.88888889  2.777777778  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      16.66666667  36.11111111  30.55555556  13.88888889  2.777777778  0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#1983 1      29     1      0      1      18     18     26.5   0      0      0      0      0      2.173913043  6.52173913
      6.52173913   41.30434783  26.08695652  13.04347826  2.173913043  0      0      0      0      0      0      0
      0      2.173913043  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      2.173913043  6.52173913   6.52173913   41.30434783  26.08695652  13.04347826
      2.173913043  0      0      0      0      0      0      0      0      2.173913043  0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      19     19     34.5   0      0      0      0      0      0      2.777777778
      5.555555556  16.66666667  22.22222222  33.33333333  8.333333333  11.11111111  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      2.777777778  5.555555556  16.66666667  22.22222222  33.33333333
      8.333333333  11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      20     20     35.5   0      0      0      0      0      0      0      0
      8.571428571  5.714285714  22.85714286  14.28571429  14.28571429  11.42857143  11.42857143  5.714285714  0
      5.714285714  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      8.571428571  5.714285714  22.85714286
      14.28571429  14.28571429  11.42857143  11.42857143  5.714285714  0      5.714285714  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     1      0      1      21     21     31.5   0      0      0      0      0      0      0      0      0
      0      12.5   12.5   8.333333333  31.25  25     4.166666667  2.083333333  4.166666667  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      12.5   12.5   8.333333333  31.25  25     4.166666667  2.083333333
      4.166666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#1983 1      29     1      0      1      22     22     19     0      0      0      0      0      0      0      0      0
      0      2.127659574  4.255319149  10.63829787  12.76595745  21.27659574  8.510638298  6.382978723  2.127659574
      4.255319149  8.510638298  6.382978723  2.127659574  2.127659574  0      2.127659574  0      4.255319149  0
      2.127659574  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      2.127659574  4.255319149  10.63829787  12.76595745  21.27659574  8.510638298  6.382978723  2.127659574
      4.255319149  8.510638298  6.382978723  2.127659574  2.127659574  0      2.127659574  0      4.255319149  0
      2.127659574  0      0      0      0      0      0
#1983 1      29     1      0      1      23     23     8.5    0      0      0      0      0      0      0      0      0
      0      0      0      4      8      16     4      4      16     8      12     4      4      8      0      4      0
      4      0      0      0      0      0      0      0      4      0      0      0      0      0      0      0      0
      0      0      0      0      4      8      16     4      4      16     8      12     4      4      8      0      4
      0      4      0      0      0      0      0      0      0      4
#1983 1      29     1      0      1      24     24     5      0      0      0      0      0      0      0      0      0
      0      0      0      0      6.25   6.25   0      6.25   0      6.25   6.25   6.25   12.5   6.25   0      6.25   0
      0      18.75  0      6.25   6.25   0      0      0      6.25   0      0      0      0      0      0      0      0
      0      0      0      0      0      6.25   6.25   0      6.25   0      6.25   6.25   6.25   12.5   6.25   0      6.25
      0      0      18.75  0      6.25   6.25   0      0      0      6.25
#1983 1      29     1      0      1      25     25     4      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      11.11111111  11.11111111  0      11.11111111  0      11.11111111  0
```

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      11.11111111  0      0      0      11.11111111  0      11.11111111  0      0      11.11111111  11.11111111  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      11.11111111  11.11111111  0      11.11111111  0      11.11111111  0      11.11111111  0      0      0
      11.11111111  0      11.11111111  0      0      11.11111111  11.11111111  0      0
#1983 1      29     1      0      1      26     26     0.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      100
#1989 1      29     1      0      1      5      5      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      7      7      1      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      8      8      4.5    0      0      12.5   12.5   75     0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      12.5   12.5   75     0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      9      9      4      0      0      0      0      88.88888889  11.11111111  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      88.88888889
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      10     10     5      0      0      0      0      88.88888889  0      11.11111111
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      88.88888889
      0      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      11     11     3.5    0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      12     12     1.5    0      0      0      0      50     0      0      50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      0      50
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
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#1989 1      29     1      0      1      13     13     4      0      0      0      0      25     0      37.5   25     12.5
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      25     0      37.5   25
      12.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      14     14     3      0      0      0      0      0      0      25     0      75
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     0
      75     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      15     15     3      0      0      0      0      0      0      0      25     75
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25
      75     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      16     16     4.5    0      0      0      0      0      0      0      57.14285714
      28.57142857  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      57.14285714  28.57142857  14.28571429  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      17     17     2.5    0      0      0      0      0      0      0      20     0
      0      40     20     20     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20
      0      0      40     20     20     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      18     18     7      0      0      0      0      0      0      0      0
      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      33.33333333  0      33.33333333  33.33333333  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      19     19     4.5    0      0      0      0      0      0      0      0
      28.57142857  14.28571429  57.14285714  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      28.57142857  14.28571429  57.14285714  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      20     20     5      0      0      0      0      0      0      0      0      0
      25     25     25     0      0      12.5   12.5   0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      25     25     25     0      0      12.5   12.5   0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     1      0      1      21     21     4      0      0      0      0      0      0      0      0      0
      16.66666667  16.66666667  16.66666667  16.66666667  0      0      16.66666667  0      16.66666667  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      16.66666667  16.66666667  16.66666667  16.66666667  0      0
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        16.66666667  0      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0
#1989   1      29     1      0      1      22     22     4.5    0      0      0      0      0      0      0      0      0
        0      0      12.5   0      12.5   12.5   12.5   0      0      12.5   0      0      0      0      0      0      0
        0      0      0      0      0      0      12.5   0      25     0      0      0      0      0      0      0      0
        0      0      0      12.5   0      12.5   12.5   12.5   0      0      12.5   0      0      0      0      0      0
        0      0      0      0      0      0      0      12.5   0      25
#1989   1      29     1      0      1      23     23     3.5    0      0      0      0      0      0      0      0      0
        0      10     0      0      10     30     10     10     10     0      0      0      0      10     0      0      10
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      10     0      0      10     30     10     10     10     0      0      0      0      10     0      0
        10     0      0      0      0      0      0      0      0      0
#1989   1      29     1      0      1      24     24     2.5    0      0      0      0      0      0      0      0      0
        0      0      14.28571429  0      14.28571429  14.28571429  14.28571429  0      14.28571429  0      14.28571429
        0      14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      14.28571429  0      14.28571429  14.28571429
        14.28571429  0      14.28571429  0      14.28571429  0      14.28571429  0      0      0      0      0      0
        0      0      0      0      0      0      0
#1989   1      29     1      0      1      27     27     0.5    0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100
        0      0      0      0      0      0      0      0      0      0
#1992   1      29     1      0      1      3      3      0.5    0      100    0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0
#1992   1      29     1      0      1      5      5      0.5    0      0      100    0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0
#1992   1      29     1      0      1      7      7      0      0      0      0      100    0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0
#1992   1      29     1      0      1      8      8      0.5    0      0      0      0      50     0      50     0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0
#1992   1      29     1      0      1      9      9      1.5    0      0      0      100    0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      10     10     1      0      0      0      66.66666667  33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      11     11     1      0      0      0      0      33.33333333  66.66666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      12     12     0.5    0      0      0      0      0      33.33333333  66.66666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      33.33333333  66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      13     13     2      0      0      0      40     0      0      40     20     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      40     0      0      40     20
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      14     14     2.5    0      0      0      0      0      16.66666667  33.33333333
      33.33333333  16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      16.66666667  33.33333333  33.33333333  16.66666667  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#1992 1      29     1      0      1      15     15     4.5    0      0      0      0      0      0      30     40     20
      10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      30     40
      20     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      16     16     6      0      0      0      0      0      0      30     30     30
      0      0      0      0      0      0      0      0      10     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      30     30
      30     0      0      0      0      0      0      0      0      10     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      17     17     1      0      0      0      0      0      0      0      33.33333333
      50     0      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      33.33333333  50     0      16.66666667  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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#1992 1      29     1      0      1      18     18     3.5    0      0      0      0      0      0      20     20     20
      20     20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20     20
      20     20     20     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      19     19     5      0      0      0      0      0      0      0      0
      16.66666667  50     16.66666667  0      0      0      0      16.66666667  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      16.66666667  50     16.66666667  0      0      0      0      16.66666667  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      20     20     4.5    0      0      0      0      0      0      0      0      0
      16.66666667  33.33333333  16.66666667  16.66666667  16.66666667  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      16.66666667  33.33333333  16.66666667  16.66666667  16.66666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1992 1      29     1      0      1      21     21     2      0      0      0      0      0      0      0      0      0
      0      0      50     50     0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      50     50     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      22     22     5      0      0      0      0      0      0      0      0      0
      0      0      25     25     25     0      0      25     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      25     25     25     0      0      25     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      23     23     2.5    0      0      0      0      0      0      0      0      0
      0      0      20     0      20     0      60     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      20     0      20     0      60     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      24     24     1.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      50     50     0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      50     50     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     1      0      1      25     25     1      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      50     0      0      0      50     0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      50     0      0      0      50     0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      5      5      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      7      7      1      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      8      8      0.5    0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      9      9      0.5    0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      10     10     4      0      0      0      12.5   50     25     12.5   0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      12.5   50     25     12.5   0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      11     11     8      0      0      0      0      50     16.66666667  25     0
      0      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50
      16.66666667  25     0      0      8.333333333  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1995 1      30     1      0      1      12     12     5.5    0      0      0      0      0      33.33333333  44.44444444
      11.11111111  0      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      33.33333333  44.44444444  11.11111111  0      11.11111111  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0
#1995 1      30     1      0      1      13     13     5.5    0      0      0      0      0      23.07692308  30.76923077
      23.07692308  15.38461538  0      7.692307692  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      23.07692308  30.76923077  23.07692308  15.38461538  0      7.692307692  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1995 1      30     1      0      1      14     14     3      0      0      0      0      0      20     20     0      40
      0      20     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      20     20     0
      40     0      20     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
```

```
#1995  1      30     1      0      1      15     15     4      0      0      0      0      0      14.28571429  0
       14.28571429  14.28571429  14.28571429  28.57142857  14.28571429  0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      14.28571429  0      14.28571429  14.28571429  14.28571429  28.57142857  14.28571429
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0
#1995  1      30     1      0      1      16     16     1.5    0      0      0      0      0      0      0      25     37.5
       12.5   25     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25
       37.5   12.5   25     0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#1995  1      30     1      0      1      17     17     4      0      0      0      0      0      0      0      0      0
       0      75     0      25     0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      75     0      25     0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#1995  1      30     1      0      1      18     18     2.5    0      0      0      0      0      0      0      0      0
       0      100    0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      100    0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#1995  1      30     1      0      1      19     19     5      0      0      0      0      0      0      0      0      0
       0      66.66666667  0      33.33333333  0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      66.66666667  0      33.33333333  0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0
#1995  1      30     1      0      1      20     20     4      0      0      0      0      0      0      0      0      0
       0      0      0      33.33333333  33.33333333  0      11.11111111  11.11111111  0      0      0      0
       11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      33.33333333  33.33333333  0      11.11111111
       11.11111111  0      0      0      0      11.11111111  0      0      0      0      0      0      0      0      0
       0      0      0      0
#1995  1      30     1      0      1      21     21     5      0      0      0      0      0      0      0      0      0
       14.28571429  14.28571429  0      0      28.57142857  14.28571429  0      28.57142857  0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      14.28571429  14.28571429  0      0      28.57142857  14.28571429  0
       28.57142857  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0
#1995  1      30     1      0      1      22     22     2      0      0      0      0      0      0      0      0      0
       0      0      0      0      50     0      50     0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      50     0      50     0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#1995  1      30     1      0      1      23     23     2.5    0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      16.66666667  0      0      33.33333333  33.33333333  16.66666667
```

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	16.66666667		0	0	
	33.33333333		33.33333333		16.66666667		0	0	0	0	0	0	0	0	0	0	0
	0	0															
#1995	1	30	1	0	1	24	24	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#1995	1	30	1	0	1	25	25	1.5	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	25	25	0	0	25	25	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	25	25	0	0	25	25	0	0
	0	0	0	0	0	0	0	0	0	0							
#2001	1	30	1	0	1	3	3	0	0	100	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2001	1	30	1	0	1	6	6	0.5	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2001	1	30	1	0	1	7	7	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2001	1	30	1	0	1	8	8	0.5	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2001	1	30	1	0	1	9	9	1	0	0	0	100	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							
#2001	1	30	1	0	1	10	10	3.5	0	0	0	0	75	0	25	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	25	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0							

```
#2001 1      30     1      0      1      11     11     2      0      0      0      0      14.28571429  85.71428571  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      14.28571429
      85.71428571  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2001 1      30     1      0      1      12     12     4.5    0      0      0      0      12.5   25     50     0      0
      0      12.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      12.5   25     50     0
      0      0      12.5   0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2001 1      30     1      0      1      13     13     11     0      0      0      0      0      31.81818182  45.45454545
      13.63636364  4.545454545  4.545454545  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      31.81818182  45.45454545  13.63636364  4.545454545  4.545454545  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#2001 1      30     1      0      1      14     14     9.5    0      0      0      0      5      10     25     35     0
      10     10     5      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      5      10     25     35
      0      10     10     5      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2001 1      30     1      0      1      15     15     9      0      0      0      0      0      0      11.11111111
      33.33333333  22.22222222  22.22222222  11.11111111  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      11.11111111  33.33333333  22.22222222  22.22222222  11.11111111  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2001 1      30     1      0      1      16     16     13     0      0      0      0      0      0      20     13.33333333
      20     20     20     6.666666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      20     13.33333333  20     20     20     6.666666667  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2001 1      30     1      0      1      17     17     8      0      0      0      0      0      0      0      0
      23.07692308  7.692307692  46.15384615  15.38461538  0      0      7.692307692  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      23.07692308  7.692307692  46.15384615  15.38461538  0      0
      7.692307692  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2001 1      30     1      0      1      18     18     13.5   0      0      0      0      5.263157895  0      0      0
      5.263157895  10.52631579  26.31578947  15.78947368  15.78947368  5.263157895  10.52631579  0      5.263157895
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      5.263157895  0      0      0      5.263157895  10.52631579  26.31578947
      15.78947368  15.78947368  5.263157895  10.52631579  0      5.263157895  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0
```

```
#2001  1      30     1      0      1      19     19     10     0      0      0      0      0      0      0      0
       5.263157895  0      21.05263158  10.52631579  26.31578947  21.05263158  5.263157895  10.52631579  0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      5.263157895  0      21.05263158  10.52631579  26.31578947
       21.05263158  5.263157895  10.52631579  0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0
#2001  1      30     1      0      1      20     20     7      0      0      0      0      0      0      0      0      0
       7.142857143  0      28.57142857  21.42857143  0      14.28571429  7.142857143  7.142857143  0      0
       7.142857143  0      7.142857143  0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      7.142857143  0      28.57142857  21.42857143
       0      14.28571429  7.142857143  7.142857143  0      0      7.142857143  0      7.142857143  0      0      0
       0      0      0      0      0      0      0      0      0      0
#2001  1      30     1      0      1      21     21     2      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      33.33333333  33.33333333  0      33.33333333  0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      33.33333333  33.33333333  0      33.33333333  0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2001  1      30     1      0      1      22     22     1      0      0      0      0      0      0      0      0      0
       0      0      0      0      25     0      0      25     0      25     0      25     0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      25     0      0      25     0      25     0      25     0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2001  1      30     1      0      1      23     23     0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      50     0      0      50     0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      50     0      0      50     0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2001  1      30     1      0      1      24     24     0.5    0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2004  1      30     1      0      1      3      3      0      0      100    0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2004  1      30     1      0      1      5      5      0      0      0      100    0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0
#2004  1      30     1      0      1      13     13     0.5    0      0      0      0      50     0      50     0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
       0      0      0      0      0      0      0      0      0      0      0      0      0      50     0      50     0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     1      0      1      14     14     2      0      0      0      0      0      0      50     25     25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     25
      25     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     1      0      1      15     15     2.5    0      0      0      0      0      14.28571429  14.28571429
      28.57142857  14.28571429  14.28571429  14.28571429  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      14.28571429  14.28571429  28.57142857  14.28571429  14.28571429  14.28571429  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2004 1      30     1      0      1      16     16     4.5    0      0      0      0      11.11111111  11.11111111
      44.44444444  11.11111111  0      22.22222222  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      11.11111111  11.11111111  44.44444444  11.11111111  0      22.22222222  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2004 1      30     1      0      1      17     17     5      0      0      0      0      0      0      12.5   37.5   25
      25     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      12.5   37.5
      25     25     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     1      0      1      18     18     8      0      0      0      0      0      0      10     10     20
      50     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      10     10
      20     50     10     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     1      0      1      19     19     7.5    0      0      0      0      0      0      0      0      25
      25     0      12.5   12.5   25     0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      25     25     0      12.5   12.5   25     0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     1      0      1      20     20     7      0      0      0      0      0      0      0      0      0
      9.090909091  36.36363636  18.18181818  18.18181818  9.090909091  9.090909091  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      9.090909091  36.36363636  18.18181818  18.18181818  9.090909091
      9.090909091  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2004 1      30     1      0      1      21     21     4      0      0      0      0      0      0      0      0      0
      0      14.28571429  28.57142857  14.28571429  14.28571429  14.28571429  0      14.28571429  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      14.28571429  28.57142857  14.28571429  14.28571429
```

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      14.28571429  0      14.28571429  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0
#2004 1      30     1      0      1      22     22     2.5    0      0      0      0      0      0      0      0      0
      0      0      14.28571429  0      14.28571429  14.28571429  14.28571429  0      0      14.28571429  14.28571429
      0      0      14.28571429  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      14.28571429  0      14.28571429  14.28571429
      14.28571429  0      0      14.28571429  14.28571429  0      0      14.28571429  0      0      0      0      0
      0      0      0      0      0      0      0
#2004 1      30     1      0      1      23     23     0.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      100    0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     1      0      1      24     24     0.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      25     0      25     0      25     0      0      0      25     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      25     0      25     0      25     0      0      0      25
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      4      4      0      0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      5      5      4.5    0      100    0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      6      6      1      0      66.66666667  33.33333333  0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667  33.33333333  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      7      7      1.5    0      0      33.33333333  66.66666667  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333  66.66666667
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      8      8      7      0      0      13.63636364  81.81818182  4.545454545  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      13.63636364
      81.81818182  4.545454545  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      9      9      24.5   0      0      6.976744186  88.37209302  4.651162791  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      6.976744186
      88.37209302  4.651162791  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      10     10     31.5   0      0      0      84.61538462  12.82051282  1.282051282
      1.282051282  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      84.61538462  12.82051282  1.282051282  1.282051282  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#1983 1      29     2      0      1      11     11     38     0      0      1.298701299  62.33766234  33.76623377
      2.597402597  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      1.298701299  62.33766234  33.76623377  2.597402597  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1983 1      29     2      0      1      12     12     26     0      0      0      25.58139535  62.79069767  11.62790698
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25.58139535
      62.79069767  11.62790698  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      13     13     17     0      0      0      3.125  50     31.25  12.5   3.125  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      3.125  50     31.25  12.5   3.125
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      14     14     18     0      0      0      0      35.8974359   38.46153846
      17.94871795  2.564102564  5.128205128  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      35.8974359   38.46153846  17.94871795  2.564102564  5.128205128  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#1983 1      29     2      0      1      15     15     20.5   0      0      0      0      7.317073171  24.3902439
      36.58536585  26.82926829  4.87804878   0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      7.317073171  24.3902439   36.58536585  26.82926829  4.87804878   0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#1983 1      29     2      0      1      16     16     19     0      0      0      0      0      11.9047619   23.80952381
      38.0952381   14.28571429  9.523809524  2.380952381  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      11.9047619   23.80952381  38.0952381   14.28571429  9.523809524  2.380952381  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#1983 1      29     2      0      1      17     17     21.5   0      0      0      0      0      2.173913043  4.347826087
      23.91304348  36.95652174  15.2173913   15.2173913   2.173913043  0      0      0      0      0      0      0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      2.173913043  4.347826087  23.91304348  36.95652174  15.2173913   15.2173913
      2.173913043  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      18     18     26.5   0      0      0      0      0      0      0      4.47761194
      14.92537313  29.85074627  19.40298507  10.44776119  13.43283582  4.47761194   2.985074627  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      4.47761194   14.92537313  29.85074627  19.40298507  10.44776119
      13.43283582  4.47761194   2.985074627  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1983 1      29     2      0      1      19     19     34.5   0      0      0      0      0      0      0      2.459016393
      0      3.278688525  4.918032787  9.836065574  14.75409836  18.85245902  11.47540984  7.37704918   5.737704918
      4.098360656  3.278688525  0.819672131  3.278688525  2.459016393  3.278688525  0      0      0      0      0
      0      0      0      0      1.639344262  0.819672131  1.639344262  0      0      0      0      0      0      0
      2.459016393  0      3.278688525  4.918032787  9.836065574  14.75409836  18.85245902  11.47540984  7.37704918
      5.737704918  4.098360656  3.278688525  0.819672131  3.278688525  2.459016393  3.278688525  0      0      0
      0      0      0      0      0      0      1.639344262  0.819672131  1.639344262
#1983 1      29     2      0      1      20     20     35.5   0      0      0      0      0      0      0      0      0
      0.81300813   1.62601626   2.43902439   6.504065041  9.756097561  10.56910569  4.06504065   4.87804878
      4.87804878   4.06504065   2.43902439   4.06504065   3.25203252   4.06504065   3.25203252   1.62601626
      2.43902439   1.62601626   4.06504065   3.25203252   4.06504065   1.62601626   3.25203252   2.43902439
      1.62601626   7.317073171  0      0      0      0      0      0      0      0      0      0.81300813   1.62601626
      2.43902439   6.504065041  9.756097561  10.56910569  4.06504065   4.87804878   4.87804878   4.06504065
      2.43902439   4.06504065   3.25203252   4.06504065   3.25203252   1.62601626   2.43902439   1.62601626
      4.06504065   3.25203252   4.06504065   1.62601626   3.25203252   2.43902439   1.62601626   7.317073171
#1983 1      29     2      0      1      21     21     31.5   0      0      0      0      0      0      0      0      0
      0      0      0      4.285714286  4.285714286  1.428571429  0      4.285714286  5.714285714  0      5.714285714
      10     5.714285714  4.285714286  1.428571429  7.142857143  2.857142857  2.857142857  4.285714286  1.428571429
      0      0      2.857142857  0      4.285714286  27.14285714  0      0      0      0      0      0      0      0
      0      0      0      0      4.285714286  4.285714286  1.428571429  0      4.285714286  5.714285714  0
      5.714285714  10     5.714285714  4.285714286  1.428571429  7.142857143  2.857142857  2.857142857  4.285714286
      1.428571429  0      0      2.857142857  0      4.285714286  27.14285714
#1983 1      29     2      0      1      22     22     19     0      0      0      0      0      0      0      0      0
      0      0      0      0      0      4      4      4      0      0      4      0      0      8      0      0      0
      4      4      12     0      0      8      0      0      48     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      4      4      4      0      0      4      0      0      8      0      0
      0      4      4      12     0      0      8      0      0      48
#1983 1      29     2      0      1      23     23     8.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      20     20     0      0      0      0      0      0      60     0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      20     20     0      0      0      0      0      0      60
#1989 1      29     2      0      1      4      4      4.5    0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      5      5      1      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      6      6      1      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      7      7      1      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      8      8      4.5    0      0      0      0      88.88888889  11.11111111  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      88.88888889
      11.11111111  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      9      9      4      0      0      0      0      87.5   12.5   0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      87.5   12.5   0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      10     10     5      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      11     11     3.5    0      0      0      0      87.5   0      0      12.5   0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      87.5   0      0      12.5
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      12     12     1.5    0      0      0      0      80     0      20     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      80     0      20     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      13     13     4      0      0      0      0      16.66666667  16.66666667
      33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0      16.66666667  16.66666667  33.33333333  33.33333333  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#1989 1      29     2      0      1      14     14     3      0      0      0      0      0      0      100    0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100    0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      15     15     3      0      0      0      0      0      0      25     75     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     75
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      16     16     4.5    0      0      0      0      0      0      11.11111111
      44.44444444  22.22222222  22.22222222  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      11.11111111  44.44444444  22.22222222  22.22222222  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0
#1989 1      29     2      0      1      17     17     2.5    0      0      0      0      0      0      0      9.090909091
      0      27.27272727  18.18181818  27.27272727  18.18181818  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      9.090909091  0      27.27272727  18.18181818  27.27272727  18.18181818  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1989 1      29     2      0      1      18     18     7      0      0      0      0      0      0      0      5.882352941
      5.882352941  23.52941176  29.41176471  11.76470588  11.76470588  5.882352941  5.882352941  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      5.882352941  5.882352941  23.52941176  29.41176471  11.76470588
      11.76470588  5.882352941  5.882352941  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      19     19     4.5    0      0      0      0      0      0      0      0
      6.666666667  0      26.66666667  26.66666667  13.33333333  6.666666667  6.666666667  6.666666667  0      0
      6.666666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      6.666666667  0      26.66666667  26.66666667
      13.33333333  6.666666667  6.666666667  6.666666667  0      0      6.666666667  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      20     20     5      0      0      0      0      0      0      0      0      0
      0      6.666666667  13.33333333  0      13.33333333  20     6.666666667  13.33333333  0      13.33333333
      6.666666667  0      0      0      0      0      0      6.666666667  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      6.666666667  13.33333333  0
      13.33333333  20     6.666666667  13.33333333  0      13.33333333  6.666666667  0      0      0      0      0
      0      6.666666667  0      0      0      0      0      0      0      0
#1989 1      29     2      0      1      21     21     4      0      0      0      0      0      0      0      0      0
      12.5   0      12.5   0      0      12.5   0      0      0      25     0      0      0      0      12.5   0      0
```

```
        0       0       0       0       0       25      0       0       0       0       0       0       0       0       0       0       0
        0       12.5    0       12.5    0       0       12.5    0       0       0       25      0       0       0       0       12.5    0
        0       0       0       0       0       0       25      0       0       0
#1989   1       29      2       0       1       22      22      4.5     0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       25      0       0       0       0       0       0
        0       0       0       0       0       0       25      0       50      0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       25      0       0       0       0       0
        0       0       0       0       0       0       0       25      0       50
#1989   1       29      2       0       1       23      23      3.5     0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       100     0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       100     0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0
#1989   1       29      2       0       1       24      24      2.5     0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       100     0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       100
#1992   1       29      2       0       1       9       9       1.5     0       0       0       50      50      0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       50      50      0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0
#1992   1       29      2       0       1       13      13      2       0       0       0       0       0       20      60      20      0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       20      60      20
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0
#1992   1       29      2       0       1       14      14      2.5     0       0       0       0       0       14.28571429     57.14285714
        28.57142857     0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        14.28571429     57.14285714     28.57142857     0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
#1992   1       29      2       0       1       15      15      4.5     0       0       0       0       0       0       33.33333333     50
        16.66666667     0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        33.33333333     50      16.66666667     0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0
#1992   1       29      2       0       1       16      16      6       0       0       0       0       0       33.33333333     0       50
        16.66666667     0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
        33.33333333     0       50      16.66666667     0       0       0       0       0       0       0       0       0       0       0
        0       0       0       0       0       0       0       0       0       0       0       0       0       0
#1992   1       29      2       0       1       17      17      1       0       0       0       0       0       0       0       0       0
        50      50      0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
```

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      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      50     50     0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     2      0      1      18     18     3.5    0      0      0      0      0      0      9.090909091
      9.090909091  27.27272727  27.27272727  9.090909091  0      9.090909091  0      9.090909091  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      9.090909091  9.090909091  27.27272727  27.27272727  9.090909091  0
      9.090909091  0      9.090909091  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0
#1992 1      29     2      0      1      19     19     5      0      0      0      0      0      0      0      0      0
      0      12.5   37.5   0      12.5   37.5   0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      12.5   37.5   0      12.5   37.5   0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     2      0      1      20     20     4.5    0      0      0      0      0      0      0      0      0
      0      0      0      11.11111111  11.11111111  0      22.22222222  22.22222222  11.11111111  0      0
      11.11111111  0      0      11.11111111  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      11.11111111  11.11111111  0
      22.22222222  22.22222222  11.11111111  0      0      11.11111111  0      0      11.11111111  0      0      0
      0      0      0      0      0      0      0      0
#1992 1      29     2      0      1      21     21     2      0      0      0      0      0      0      0      0      0
      0      0      0      20     20     0      20     0      0      0      0      0      0      20     0      20     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      20     20     0      20     0      0      0      0      0      0      20     0      20
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     2      0      1      22     22     5      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1992 1      29     2      0      1      23     23     2.5    0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      100
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      100    0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      6      6      0      0      0      100    0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      7      7      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
```

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#1995 1      30     2      0      1      8      8      0.5    0      0      0      66.66666667  33.33333333  0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667
      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      9      9      0.5    0      0      0      20     50     20     10     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      20     50     20     10     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      10     10     4      0      0      0      28.57142857  14.28571429  28.57142857
      14.28571429  14.28571429  0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      28.57142857  14.28571429  28.57142857  14.28571429  14.28571429  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0
#1995 1      30     2      0      1      11     11     8      0      0      0      0      33.33333333  33.33333333
      11.11111111  16.66666667  5.555555556  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      33.33333333  33.33333333  11.11111111  16.66666667  5.555555556  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#1995 1      30     2      0      1      12     12     5.5    0      0      0      0      0      50     25     8.333333333
      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50
      25     8.333333333  16.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      13     13     5.5    0      0      0      0      25     25     16.66666667  25
      0      8.333333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     25
      16.66666667  25     0      8.333333333  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      14     14     3      0      0      0      0      0      0      28.57142857  0
      42.85714286  0      28.57142857  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      28.57142857  0      42.85714286  0      28.57142857  0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      15     15     4      0      0      0      0      0      0      0      0
      33.33333333  33.33333333  33.33333333  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      33.33333333  33.33333333  33.33333333  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#1995 1      30     2      0      1      16     16     1.5    0      0      0      0      0      0      0      0
      33.33333333  0      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
      0     0     0     33.33333333  0     66.66666667  0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
#1995 1     30    2     0     1     17    17    4     0     0     0     0     0     0     0     0     10
      20    50    10    0     10    0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      10    20    50    10    0     10    0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#1995 1     30    2     0     1     18    18    2.5   0     0     0     0     0     0     0     0     0
      0     30    0     10    20    20    0     0     10    0     0     0     0     0     0     0     10
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     30    0     10    20    20    0     0     10    0     0     0     0     0     0     0
      10    0     0     0     0     0     0     0     0     0
#1995 1     30    2     0     1     19    19    5     0     0     0     0     0     0     0     0     0
      0     10    0     20    20    0     20    10    10    10    0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     10    0     20    20    0     20    10    10    10    0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#1995 1     30    2     0     1     20    20    4     0     0     0     0     0     0     0     0     0
      0     16.66666667  0     0     0     16.66666667  0     16.66666667  0     0     33.33333333  0     0
      16.66666667  0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     16.66666667  0     0     0     16.66666667  0     16.66666667
      0     0     33.33333333  0     0     16.66666667  0     0     0     0     0     0     0     0     0
      0     0     0
#1995 1     30    2     0     1     21    21    5     0     0     0     0     0     0     0     0     0
      0     0     0     0     20    0     0     0     0     10    0     0     0     0     20    10    0
      0     0     10    0     10    0     0     0     20    0     0     0     0     0     0     0     0
      0     0     0     0     0     20    0     0     0     0     10    0     0     0     0     20    10
      0     0     0     10    0     10    0     0     0     20
#1995 1     30    2     0     1     22    22    2     0     0     0     0     0     0     0     0     0
      0     0     0     0     50    0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     50    0     0     0     0     0     0     0     0     0
      0     0     0     0     0     50    0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     50    0
#2001 1     30    2     0     1     5     5     0.5   0     0     0     100   0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     100   0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2001 1     30    2     0     1     7     7     0.5   0     0     0     100   0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     100   0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2001 1     30    2     0     1     8     8     0.5   0     0     0     66.66666667  0     0     0
      33.33333333  0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      66.66666667
      0      0      0      33.33333333  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2001 1      30     2      0      1      9      9      1      0      0      0      100    0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      100    0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2001 1      30     2      0      1      10     10     3.5    0      0      0      0      50     33.33333333  0
      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50
      33.33333333  0      16.66666667  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2001 1      30     2      0      1      11     11     2      0      0      0      0      25     50     25     0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      25     50     25     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2001 1      30     2      0      1      12     12     4.5    0      0      0      0      13.63636364  18.18181818
      31.81818182  18.18181818  18.18181818  0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      13.63636364  18.18181818  31.81818182  18.18181818  18.18181818  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2001 1      30     2      0      1      13     13     11     0      0      0      0      5.263157895  15.78947368
      47.36842105  15.78947368  15.78947368  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      5.263157895  15.78947368  47.36842105  15.78947368  15.78947368  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2001 1      30     2      0      1      14     14     9.5    0      0      0      0      0      33.33333333  11.11111111
      11.11111111  11.11111111  27.77777778  0      5.555555556  0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      33.33333333  11.11111111  11.11111111  11.11111111  27.77777778  0      5.555555556  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2001 1      30     2      0      1      15     15     9      0      0      0      0      0      0      27.77777778
      5.555555556  33.33333333  11.11111111  22.22222222  0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      27.77777778  5.555555556  33.33333333  11.11111111  22.22222222  0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0
#2001 1      30     2      0      1      16     16     13     0      0      0      0      0      4      0      20     20
      20     8      16     4      4      4      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      4      0      20
```

```
      20    20    8     16    4     4     4     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2001 1     30    2     0     1     17    17    8     0     0     0     0     0     0     0     0
      5.882352941  23.52941176  35.29411765  17.64705882  11.76470588  5.882352941  0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     5.882352941  23.52941176  35.29411765  17.64705882  11.76470588
      5.882352941  0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0
#2001 1     30    2     0     1     18    18    13.5  0     0     0     0     0     0     0     0
      7.692307692  0     19.23076923  7.692307692  23.07692308  11.53846154  7.692307692  7.692307692  3.846153846
      7.692307692  0     0     0     0     0     0     0     3.846153846  0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     7.692307692  0     19.23076923
      7.692307692  23.07692308  11.53846154  7.692307692  7.692307692  3.846153846  7.692307692  0     0     0
      0     0     0     0     3.846153846  0     0     0     0     0     0     0     0     0
#2001 1     30    2     0     1     19    19    10    0     0     0     0     0     0     0     0     0
      0     9.090909091  9.090909091  9.090909091  9.090909091  9.090909091  18.18181818  9.090909091  0
      9.090909091  0     0     9.090909091  9.090909091  0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     9.090909091  9.090909091
      9.090909091  9.090909091  9.090909091  18.18181818  9.090909091  0     9.090909091  0     0     9.090909091
      9.090909091  0     0     0     0     0     0     0     0     0     0     0     0
#2001 1     30    2     0     1     20    20    7     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     21.42857143  0     14.28571429  7.142857143  0     7.142857143  0
      7.142857143  7.142857143  0     0     14.28571429  0     7.142857143  7.142857143  0     0     0     0
      0     7.142857143  0     0     0     0     0     0     0     0     0     0     0     0     0     0
      21.42857143  0     14.28571429  7.142857143  0     7.142857143  0     7.142857143  7.142857143  0     0
      14.28571429  0     7.142857143  7.142857143  0     0     0     0     0     7.142857143
#2001 1     30    2     0     1     21    21    2     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     20    20    0
      0     0     0     0     20    0     0     0     40    0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     20    20
      0     0     0     0     0     20    0     0     0     40
#2001 1     30    2     0     1     22    22    1     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     50    0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     50    0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     50    0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     50
#2004 1     30    2     0     1     3     3     0     0     100   0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     100   0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0
#2004 1     30    2     0     1     9     9     0.5   0     0     0     100   0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
      0     0     0     0     0     0     0     0     0     0     0     0     100   0     0     0     0
```

```
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     2      0      1      12     12     1      0      0      0      0      33.33333333  66.66666667  0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      33.33333333
      66.66666667  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0
#2004 1      30     2      0      1      13     13     0.5    0      0      0      0      0      0      50     50     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      50     50
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     2      0      1      14     14     2      0      0      0      0      0      25     50     25     0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      25     50     25
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0
#2004 1      30     2      0      1      15     15     2.5    0      0      0      0      0      18.18181818  9.090909091
      27.27272727  27.27272727  9.090909091  0      0      9.090909091  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      18.18181818  9.090909091  27.27272727  27.27272727  9.090909091  0      0      9.090909091
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2004 1      30     2      0      1      16     16     4.5    0      0      0      0      0      18.18181818  27.27272727
      18.18181818  18.18181818  9.090909091  0      0      9.090909091  0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      18.18181818  27.27272727  18.18181818  18.18181818  9.090909091  0      0      9.090909091
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0
#2004 1      30     2      0      1      17     17     5      0      0      0      0      0      0      7.692307692
      19.23076923  23.07692308  11.53846154  19.23076923  15.38461538  3.846153846  0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      7.692307692  19.23076923  23.07692308  11.53846154  19.23076923
      15.38461538  3.846153846  0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0
#2004 1      30     2      0      1      18     18     8      0      0      0      0      0      0      0      4.347826087
      17.39130435  13.04347826  21.73913043  13.04347826  17.39130435  4.347826087  4.347826087  0      0
      4.347826087  0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      4.347826087  17.39130435  13.04347826  21.73913043
      13.04347826  17.39130435  4.347826087  4.347826087  0      0      4.347826087  0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0
#2004 1      30     2      0      1      19     19     7.5    0      0      0      0      0      0      0      0      0
      0      5.882352941  11.76470588  17.64705882  11.76470588  5.882352941  17.64705882  17.64705882  5.882352941
      0      0      0      5.882352941  0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      0      0      0      5.882352941  11.76470588  17.64705882
```

```
        11.76470588  5.882352941  17.64705882  17.64705882  5.882352941  0      0      0      5.882352941  0      0
        0      0      0      0      0      0      0      0      0      0      0
#2004   1      30     2      0      1      20     20     7      0      0      0      0      0      0      0      0      0
        5.263157895  5.263157895  0      10.52631579  15.78947368  5.263157895  0      10.52631579  5.263157895
        15.78947368  0      5.263157895  0      0      10.52631579  0      0      10.52631579  0      0      0      0
        0      0      0      0      0      0      0      0      0      0      0      0      5.263157895  5.263157895
        0      10.52631579  15.78947368  5.263157895  0      10.52631579  5.263157895  15.78947368  0      5.263157895
        0      0      10.52631579  0      0      10.52631579  0      0      0      0      0      0      0      0
#2004   1      30     2      0      1      21     21     4      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      33.33333333  0      0      0      33.33333333  33.33333333  0      0
        0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
        0      0      0      0      0      0      0      0      0      0      33.33333333  0      0      0      33.33333333
        33.33333333  0      0      0      0      0      0      0      0      0      0      0      0      0      0
#2004   1      30     2      0      1      22     22     2.5    0      0      0      0      0      0      0      0      0
        0      0      0      25     0      0      0      0      25     0      0      0      0      0      0      0      0
        0      0      0      0      0      0      25     0      25     0      0      0      0      0      0      0      0
        0      0      0      0      25     0      0      0      0      25     0      0      0      0      0      0      0
        0      0      0      0      0      0      0      25     0      25
```

```
0      # Total number of size-at-age observations
0      # Total number of environmental variables
0      # Total number of environmental observations
0      # No Weight frequency data
0      # No tagging data
0      # No morph composition data
999    # End file marker
```

Appendix B.2. SS control file

```
# Control file for 2015 canary assessment update
# updated to run in SSv3.24u

# Morph setup
1      # Number of growth patterns
1      # N sub morphs within growth patterns

### BEGIN SPATIAL MODEL HERE
3 # Number of recruitment assignments
0 # Recruitment interaction requested?
1 1 1 # Recruitment assignment to GP 1, seas 1, area 1
1 1 2 # Recruitment assignment to GP 1, seas 1, area 2
1 1 3 # Recruitment assignment to GP 1, seas 1, area 3

# BEGIN NO MOVEMENT
0 # N movement definitions
# END NO MOVEMENT

# BEGIN MOVEMENT
#4 # N movement definitions
#3 # First age that moves
# Season, GP, source area, destination area, min-age, max-age
#1 1 1 2 3 9.3
#1 1 2 1 3 9.3
#1 1 2 3 3 9.3
#1 1 3 2 3 9.3
# END MOVEMENT
### END SPATIAL MODEL HERE

# Time block setup
2      # Number of time block designs for time varying parameters
1 2 # Number of blocks per design
2000 2014                   # Block Design 15: ITQ
2000 2010 2011 2014

# Mortality and growth specifications
0.5    # Fraction female at birth
1      # M setup: 0=single Par,1=N_breakpoints,2=Lorenzen,3=agespecific;_4=agespec_withseasinterpolate
2      # Number of M breakpoints
6 14   # Ages at M breakpoints
1      # Growth model: 1=VB with L1 and L2, 2=VB with A0 and Linf, 3=Richards, 4=Read vector of L@A
1      # Age for growth Lmin
30     # Age for growth Lmax
```

```
0.0    # SD constant added to LAA (0.1 mimics v1.xx for compatibility only)
0      # Variability about growth: 0=CV~f(LAA) [mimic v1.xx], 1=CV~f(A), 2=SD~f(LAA), 3=SD~f(A)
6      # maturity option: 1=length logistic, 2=age logistic, 3=read maturity at age for each growth pattern
6.80E-06     1.39E-05     2.85E-05     5.83E-05     0.000119295  0.000244164  0.000499664  0.001022235  0.002090105
      0.004268391  0.008695585  0.01762724   0.035380676  0.069649514  0.132204702  0.235558822  0.381109289
      0.54588792   0.692065911  0.796225088  0.859413184  0.894075434  0.912045701  0.921089804  0.925573571
      0.927779894  0.928861558  0.929390891  0.929649701  0.929776188
2      # First age allowed to mature
1   # fecundity option (1=linear eggs/kg relationship; EJ recommendation)
0      # hermaphro
3      # mg parm offset option:
1      # mg parm adjust method 1=do V1.23 approach, 2=use logistic transform between bounds approach

# Mortality and growth parameters
# Lo   Hi     Init   Prior  Prior  Prior  Param  Env    Use    Dev    Dev    Dev    Block  block
# bnd  bnd    value  mean   type   SD     phase  var    dev    minyr  maxyr  SD     design switch
# Females
0.04     0.08   0.0521      -2.9551     3   0.5323   -50    0      0      0      0      0.5    0      0
      #M1_natM_young
0            0.9        0.45        0.4     -1 50          3 0      0      0      0      0.5    0      0
      #M1_natM_old_as_exponential_offset(rel_young)
2            15      3.8        4       -1      50          2 0      0      0      0      0.5    0      0      #M1_Lmin
50         70     60.0        60        -1      50          2 0      0      0      0      0.5    0      0      #M1_Lmax
0.02     0.21   0.14    0.14          -1 50          2 0      0      0      0      0.5    0      0      #M1_VBK
0.02     0.21   0.14    0.15          -1 50          2 0      0      0      0      0.5    0      0      #M1_CV-young
-3         3       -1.3         -1.3         -1 50          2 0      0      0      0      0.5    0      0      #M1_CV-
old_as_exponential_offset(rel_young)
# Males
-3         3        0              0            0        50       -50      0      0      0      0      0.5    0      0
      #M2_natM_young_as_exponential_offset(rel_morph_1)
-3         3       0       0            0        50       -50      0      0      0      0      0.5    0      0
      #M2_natM_old_as_exponential_offset(rel_young)
-3      3           0              0            0        50       -50      0      0      0      0      0.5    0      0
      #M2_Lmin_as_exponential_offset
-3      3           -0.12     0         -1      50          2      0      0      0      0      0.5    0      0
      #M2_Lmax_as_exponential_offset
-3      3           0.24      0         -1      50          2      0      0      0      0      0.5    0      0
      #M2_VBK_as_exponential_offset
-3      3           0.04      0         -1      50          2      0      0      0      0      0.5    0      0
      #M2_CV-young_as_exponential_offset(rel_CV-young_for_morph_1)
-3      3           -1.3      0         -1      50          2      0      0      0      0      0.5    0      0
      #M2_CV-old_as_exponential_offset(rel_CV-young)
# Weight-Length and maturity parameters (L in cm, W in kg)
# Lo   Hi     Init   Prior  Prior  Prior  Param  Env    Use    Dev    Dev    Dev    Block  block
# bnd  bnd    value  mean   type   SD     phase  var    dev    minyr  maxyr  SD     design switch
```

```
# Females
0           1            1.180e-5 1.55E-05 0    50      -50 0      0      0      0      0.5    0      0      #Female wt-
len-1
2           4            3.094     3.03          0    50      -50 0      0      0      0      0.5    0      0
      #Female wt-len-2
40         41     40.5        40.5          0    50      -50 0      0      0      0      0.5    0      0      #Female mat-
len-1
-3         3       -0.25     -0.25          0    50      -50 0      0      0      0      0.5    0      0      #Female mat-
len-2
-3         3        0.2619  1.0       0    50      -50 0      0      0      0      0.5    0      0      #Female eggs/gm
intercept
-1         1        0.0217  0.0       0    50      -50 0      0      0      0      0.5    0      0      #Female eggs/gm
slope
# Males
0           1            1.064e-5 1.55E-05 0    50      -50 0      0      0      0      0.5    0      0      #Female wt-
len-1
2           4            3.123     3.03          0    50      -50 0      0      0      0      0.5    0      0
      #Female wt-len-2

# Distribute recruitment among growth pattern x area x season
0      999    1      1      0      50     -50    0      0      0      0      0.5    0      0      # GP 1
#-4    4      -0.3567 1     -1     50 -1  0      1      1960   2014   0.5    0      0      # Area 1
#-4    4      -1.6094 1     -1     50 -1  0      1      1960   2014   0.5    0      0      # Area 1
#-4    4      -2.3026 1     -1     50 -1  0      1      1960   2014   0.5    0      0      # Area 1
#-4    4      -0.3567 1     -1     50 -1  0      0 0 0 0      0      0      # Area 1
#-4    4      -1.6094 1     -1     50 -1  0      0 0 0 0      0      0      # Area 1
#-4    4      -2.3026 1     -1     50 -1  0      0 0 0 0      0      0      # Area 1
-7     7      0 1    -1     50 -1  0      0 0 0 0      0      0      # Area 1
-7     7      0 1    -1     50 1   0      1      1933   2014   0.5    0      0      # Area 1
-7     7      0 1    -1     50 1   0      1      1933   2014   0.5    0      0      # Area 1
0      999    1      1      0      50     -50    0      0      0      0      0.5    0      0      # Season 1
# Cohort growth (K) deviation parameter
-1     1      1      1      0      50     -50    0      0      1980   1983   0.5    0      0

# Movement parameters (M=0.04 -> -3.135
#-10000       5      -6.908 1      -1     50     -6     0      0      0      0      0      0      0
#-8    0      -4.605 1      -1     50     6      0      0      0      0      0      0      0
#-10000       5      -9999  1      -1     50     -6     0      0      0      0      0      0      0
#-10000       5      -9999  1      -1     50     -6     0      0      0      0      0      0      0
#-10000       5      -9999  1      -1     50     -6     0      0      0      0      0      0      0
#-10000       5      -9999  1      -1     50     -6     0      0      0      0      0      0      0
#-10000       5      -9999  1      -1     50     -6     0      0      0      0      0      0      0
#-10000       5      -9999  1      -1     50     -6     0      0      0      0      0      0      0
#
# MGparm_seas_effects: Seasonal effects on biology parameters (0=none)
```

```
 0 0 0 0 0 0 0 0 0 0

5 # Phase for MG_devs (only needed if some MG is time-varying)

# Spawner-recruit parameters
3      # S-R function: 1=null, 2=Ricker, 3=standard B-H, 4=no steepness or bias adjustment; 5=Hockey stock; 6=flat-top
BH
# Lo   Hi     Init   Prior  Prior  Prior  Param
# bnd  bnd    value  mean   type   SD     phase
 7     11     8.5    8.5    -1     50     1      # Ln(R0)
 0.21  0.99   0.773  0.4    0      50     -6     # Steepness
 0     2      0.5    0.4    0      50     -50    # Sigma R
 -5    5      0      0      0      50     -50    # Environmental link coefficient
 -5    5      0      0      0      50     -50    # Initial equilibrium offset to virgin
 0     2      0      1      0      50     -50          # Autocorrelation in rec devs
0 # index of environmental variable to be used
0 # env target parameter: 1=rec devs, 2=R0, 3=steepness
1 # rec dev type: 0=none, 1=devvector (zero-sum), 2=simple deviations (no sum constraint)

# Recruitment residuals
1960   # Start year recruitment residuals
2014   # End year recruitment residuals
5      # Phase for rec-devs

1 # Read 11 advanced recruitment options: 0=no, 1=yes
1933   # first year for early rec devs
5      # phase for early rec devs
5      # Phase for forecast recruit deviations
1      # Lambda for forecast recr devs before endyr+1
 1965.7575 #_last_early_yr_nobias_adj_in_MPD
 1978.0000 #_first_yr_fullbias_adj_in_MPD
 2012 #_last_yr_fullbias_adj_in_MPD
 2014 #_first_recent_yr_nobias_adj_in_MPD
    0.8025 #_max_bias_adj_in_MPD (1.0 to mimic pre-2009 models)
0      # placeholder
-5     # Lower bound rec devs
5      # Upper bound rec devs
0 # read intitial values for rec devs

# Fishing mortality setup
0.2    # F ballpark
-1999  # F ballpark year
1      # F method:  1=Pope's; 2=Instan. F; 3=Hybrid (recommended)
0.9    # max F or harvest rate, depends on F_Method
```

```
# Initial F setup by fishing fleet
# Lo   Hi     Init   Prior  P_type SD     Phase
0      1      0      0.01   -1     50     -50 # 1_CA_TWL
0      1      0      0.01   -1     50     -50 # 2_OR_TWL
0      1      0      0.01   -1     50     -50 # 3_WA_TWL
0      1      0      0.01   -1     50     -50 # 4_CA_NTWL
0      1      0      0.01   -1     50     -50 # 5_OR_NTWL
0      1      0      0.01   -1     50     -50 # 6_WA_NTWL
0      1      0      0.01   -1     50     -50 # 7_CA_REC
0      1      0      0.01   -1     50     -50 # 8_OR_REC
0      1      0      0.01   -1     50     -50 # 9_WA_REC
0      1      0      0.01   -1     50     -50 # 10_CA_AHSOP
0      1      0      0.01   -1     50     -50 # 11_OR_ASHOP
0      1      0      0.01   -1     50     -50 # 12_WA_ASHOP
0      1      0      0.01   -1     50     -50 # 13_CA_FOR
0      1      0      0.01   -1     50     -50 # 14_OR_FOR
0      1      0      0.01   -1     50     -50 # 15_WA_FOR
0      1      0      0.01   -1     50     -50 # 16_CA_NWFSC
0      1      0      0.01   -1     50     -50 # 17_OR_NWFSC
0      1      0      0.01   -1     50     -50 # 18_WA_NWFSC
0      1      0      0.01   -1     50     -50 # 19_CA_Tri_early
0      1      0      0.01   -1     50     -50 # 20_OR_Tri_early
0      1      0      0.01   -1     50     -50 # 21_WA_Tri_early
0      1      0      0.01   -1     50     -50 # 22_CA_Tri_late
0      1      0      0.01   -1     50     -50 # 23_OR_Tri_late
0      1      0      0.01   -1     50     -50 # 24_WA_Tri_late

# Catchability (Q_setup)
# A=do power: 0=skip, survey is prop. to abundance, 1= add par for non-linearity
# B=env. link: 0=skip, 1= add par for env. effect on Q
# C=extra SD: 0=skip, 1= add par. for additive constant to input SE (in ln space)
# D=type: <0=mirror lower abs(#) fleet, 0=no par Q is median unbiased, 1=no par Q is mean unbiased, 2=estimate par for
ln(Q)
#         3=ln(Q) + set of devs about ln(Q) for all years. 4=ln(Q) + set of devs about Q for indexyr-1
# E=Units: 0=numbers, 1=biomass
# F=err_type 0=lognormal, >0=T-dist. DF=input value
#Den-dep env-var extra_se Q_type
0      0      0      0      # 1_CA_TWL
0      0      0      0      # 2_OR_TWL
0      0      0      0      # 3_WA_TWL
0      0      0      0      # 4_CA_NTWL
0      0      0      0      # 5_OR_NTWL
0      0      0      0      # 6_WA_NTWL
0      0      0      0      # 7_CA_REC
0      0      0      0      # 8_OR_REC
```

```
0      0      0      0      # 9_WA_REC
0      0      0      0      # 10_CA_AHSOP
0      0      0      0      # 11_OR_ASHOP
0      0      0      0      # 12_WA_ASHOP
0      0      0      0      # 13_CA_FOR
0      0      0      0      # 14_OR_FOR
0      0      0      0      # 15_WA_FOR
0      0      0      0      # 16_CA_NWFSC
0      0      0      0      # 17_OR_NWFSC
0      0      0      0      # 18_WA_NWFSC
0      0      0      0      # 19_CA_Tri_early
0      0      0      0      # 20_OR_Tri_early
0      0      0      0      # 21_WA_Tri_early
0      0      0      0      # 22_CA_Tri_late
0      0      0      0      # 23_OR_Tri_late
0      0      0      0      # 24_WA_Tri_late
0      0      1      0      # 25_CA_prerec
0      0      1      0      # 26_OR_prerec
0      0      1      0      # 27_WA_prerec
0      0      0      0      # 28_Coastwide_NWFSC
0      0      0      0      # 29_Coastwide_Tri_early
0      0      0      0      # 30_Coastwide_Tri_late
0      0      0      0      # 31_Coastwide_prerec

# Catchability parameter lines
0     3   0.4     0.1     -1         99         2       # Q_extraSD_14_pre-recruit
0     3   0.4     0.1     -1         99         2       # Q_extraSD_14_pre-recruit
0     3   0.4     0.1     -1         99         2       # Q_extraSD_14_pre-recruit

# Selectivity section
# Size-based setup
# A=Selex option: 1-24
# B=Do_retention: 0=no, 1=yes
# C=Male offset to female: 0=no, 1=yes, 2=Female offset to male
# D=Mirror selex (#)
# A   B C D
  24  0 0 0         # 1_CA_TWL
  15  0 0 1         # 2_OR_TWL
  15  0 0 1         # 3_WA_TWL

  24  0 0 0         # 4_CA_NTWL
  15  0 0 4         # 5_OR_NTWL
  15  0 0 4         # 6_WA_NTWL

  24  0 0 0         # 7_CA_REC
```

```
  15  0 0 7         # 8_OR_REC
  15  0 0 7         # 9_WA_REC

  24  0 0 0         # 10_CA_AHSOP
  15  0 0 10  # 11_OR_ASHOP
  15  0 0 10  # 12_WA_ASHOP

  15  0 0 1         # 13_CA_FOR
  15  0 0 13  # 14_OR_FOR
  15  0 0 13  # 15_WA_FOR

  24  0 0 0         # 16_CA_NWFSC
  15  0 0 16  # 17_OR_NWFSC
  15  0 0 16  # 18_WA_NWFSC

  24  0 0 0         # 19_CA_Tri_early
  15  0 0 19  # 20_OR_Tri_early
  15  0 0 19  # 21_WA_Tri_early

  24  0 0 0         # 22_CA_Tri_late
  15  0 0 22  # 23_OR_Tri_late
  15  0 0 22  # 24_WA_Tri_late

  32  0 0 0         # 25_CA_prerec
  32  0 0 0         # 26_OR_prerec
  32  0 0 0         # 27_WA_prerec

  15  0 0 16        # 28_Coastwide_NWFSC
  15  0 0 19        # 29_Coastwide_Tri_early
  15  0 0 22        # 30_Coastwide_Tri_late
  32  0 0 0         # 31_Coastwide_prerec

# Age-based setup
  10 0 0 0   # 1_CA_TWL
  10 0 0 0   # 2_OR_TWL
  10 0 0 0   # 3_WA_TWL
  10 0 0 0   # 4_CA_NTWL
  10 0 0 0   # 5_OR_NTWL
  10 0 0 0   # 6_WA_NTWL
  10 0 0 0   # 7_CA_REC
  10 0 0 0   # 8_OR_REC
  10 0 0 0   # 9_WA_REC
  10 0 0 0   # 10_CA_AHSOP
  10 0 0 0   # 11_OR_ASHOP
  10 0 0 0   # 12_WA_ASHOP
```

```
  10 0 0 0   # 13_CA_FOR
  10 0 0 0   # 14_OR_FOR
  10 0 0 0   # 15_WA_FOR
  10 0 0 0   # 16_CA_NWFSC
  10 0 0 0   # 17_OR_NWFSC
  10 0 0 0   # 18_WA_NWFSC
  10 0 0 0   # 19_CA_Tri_early
  10 0 0 0   # 20_OR_Tri_early
  10 0 0 0   # 21_WA_Tri_early
  10 0 0 0   # 22_CA_Tri_late
  10 0 0 0   # 23_OR_Tri_late
  10 0 0 0   # 24_WA_Tri_late
  10 0 0 0   # 25_CA_prerec
  10 0 0 0   # 26_CA_prerec
  10 0 0 0   # 27_CA_prerec
  10 0 0 0   # 28_coastwide_NWFSC
  10 0 0 0   # 29_coastwide_Tri_early
  10 0 0 0   # 30_coastwide_Tri_late
  10 0 0 0   # 31_coastwide_prerec


# Selectivity and retention parameters
# Lo   Hi     Init   Prior  Prior  Prior  Param  Env    Use    Dev    Dev    Dev    Block  block
# bnd  bnd    value  mean   type   SD     phase  var    dev    minyr  maxyr  SD     design switch (0: multiplicative; 1:
additive; 2: replace)

# 1CA_S_trwl double normal
13.1   65       40      50   -1   50       4      0    0      0      0      0      2      2      # PEAK
-9.0    4.0   -4        -4      -1 50   -50     0      0      0      0      0      0      0      # TOP (logistic)
0.0       9.0  4.3     4.2    -1   50       5      0    0      0      0      0      2      2      # Asc WIDTH exp
0.0       9.0  0.001  2.6     -1   50       5      0    0      0      0      0      2 2    # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0   -1.0     5        -1 50     5        0    0      0      0      0      2      2      # FINAL (logistic)

#TWL retention  (i.e., 1-discard_rate)

#_LO  HI    INIT  PRIOR PR_type SD   PHASE   env-var use_dev dev_min dev_max dev_std Block   Block_Fxn
#0           70           27           35           -1                          99             6                  0
                    0                          0                          0                          0
      14                          2                                      #Inflection
#0.1         10           2                  1                    -1                          99            6
      0                           0                          0                          0                          0
                    14                         2                                      #Slope                     # 1
means that parm’ = baseparm + blockparm
```

```
#0.001 1                    0.95   1                    -1                          99            6                   0
                    0                           0                           0                           0
       14                          2                                       #Asymptotic retention     # 2 means that parm'
= blockparm
#0                  0                   0                   0                   -1                          99
       -3                  0                           0                           0                           0
             0                           0                           0               #Male offset To inflection

# 4_CA_NTWL double normal
13.001 65        40      50   -1   50       4      0    0      0      0      0      1 2    # PEAK
-9.0    4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
0.0       9.0  4.3     4.2    -1   50       5      0    0      0      0      0      1 2    # Asc WIDTH exp
0.0       9.0  9.0     2.6    -1   50       5      0    0      0      0      0      1 2    # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0    5.0     5        -1 50    5         0    0      0      0      0      1 2    # FINAL (logistic)

# NONTWL retention curve (i.e., 1-discard_rate)

#_LO  HI    INIT  PRIOR PR_type SD   PHASE   env-var use_dev dev_min dev_max dev_std Block   Block_Fxn
#0            70            27            35            -1                          99            6                   0
                    0                           0                           0                           0
       15                          2                                       #Inflection
#0.1          10            2                   1                   -1                          99            6
       0                           0                           0                           0                           0
                    15                          2                                       #Slope                     # 1
means that parm' = baseparm + blockparm
#0.001 1                    0.95   1                    -1                          99            -2                  0
                    0                           0                           0                           0
       14                          2                                       #Asymptotic retention     # 2 means that parm'
= blockparm
#0                  0                   0                   0                   -1                          99
       -3                  0                           0                           0                           0
             0                           0                           0               #Male offset To inflection

# 7_CA_REC double normal
13.001 65        40      50   -1   50       4      0    0      0      0      0      0 0    # PEAK
-9.0    4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
0.0       9.0  4.3     4.2    -1   50       5      0    0      0      0      0      0 0    # Asc WIDTH exp
0.0       9.0  2.5     2.6    -1   50       5      0    0      0      0      0      0 0    # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0   -1.0     5        -1 50    5         0    0      0      0      0      0 0    # FINAL (logistic)

# 10_CA_AHSOP double normal
13.001 65        40      50   -1   50       4      0    0      0      0      0      0      0      # PEAK
-9.0    4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
```

```
0.0       9.0  4.3     4.2    -1   50       5      0    0      0      0      0      0      0      # Asc WIDTH exp
0.0       9.0  0.001  2.6     -1   50       5      0    0      0      0      0      0      0      # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0    5.0     5        -1 50    5         0    0      0      0      0      0      0      # FINAL (logistic)

# 13_CA_FOR double normal
#20       80     40      50   -1   50       4      0    0      0      0      0      0      0      # PEAK
#-9.0   4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
#0.0      9.0  4.3     4.2    -1   50       5      0    0      0      0      0      0      0      # Asc WIDTH exp
#0.0      9.0  2.5     2.6    -1   50       5      0    0      0      0      0      0      0      # Desc WIDTH exp
#-9.0   5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
#-5.0   5.0   -1.0     5        -1 50     5         0    0      0      0      0      0      0      # FINAL (logistic)
#
# 16_CA_NWFSC double normal
13.001 65        40      50   -1   50       4      0    0      0      0      0      0      0      # PEAK
-9.0    4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
0.0       9.0  8.99    4.2    -1   50       5      0    0      0      0      0      0      0      # Asc WIDTH exp
0.0       9.0  9.0     2.6    -1   50       5      0    0      0      0      0      0      0      # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0    5.0     5        -1 50    5         0    0      0      0      0      0      0      # FINAL (logistic)

# 19_CA_Tri_early double normal
13.001 65        40      50   -1   50       4      0    0      0      0      0      0      0      # PEAK
-9.0    4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
0.0       9.0  4.3     4.2    -1   50       5      0    0      0      0      0      0      0      # Asc WIDTH exp
0.0       9.0  0.01    2.6    -1   50       5      0    0      0      0      0      0      0      # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0   -1.0     5        -1 50     5         0    0      0      0      0      0      0      # FINAL (logistic)

# 22_CA_Tri_late double normal
13.001 65        40      50   -1   50       4      0    0      0      0      0      0      0      # PEAK
-9.0    4.0   -4        -4      -1 50   -50      0      0      0      0      0      0      0      # TOP (logistic)
0.0       9.0  4.3     4.2    -1   50       5      0    0      0      0      0      0      0      # Asc WIDTH exp
0.0       9.0  0.0     2.6    -1   50       5      0    0      0      0      0      0      0      # Desc WIDTH exp
-9.0    5.0   -9.0    -9.0    -1   50      -50   0      0      0      0      0      0      0      # INIT (logistic)
-5.0    5.0    4.99    5        -1 50    5         0    0      0      0      0      0      0      # FINAL (logistic)

############################

1      # Selex block setup: 0=Read one line apply all, 1=read one line each parameter

# 1CA_TWL double normal
13.001 65        40      50   -1   50       4          # PEAK
13.001 65        40      50   -1   50       4          # PEAK
0.0       9.0  4.3     4.2    -1   50       5          # Asc WIDTH exp
```

```
0.0       9.0  4.3     4.2    -1   50       5          # Asc WIDTH exp
0.0       9.0  0.001  2.6     -1   50       5          # Desc WIDTH exp
0.0       9.0  0.001  2.6     -1   50       5          # Desc WIDTH exp
-5.0    5.0   -1.0     5        -1 50     5          # FINAL (logistic)
-5.0    5.0   -1.0     5        -1 50     5          # FINAL (logistic)

# 4CA_NONTWL double normal
13.001 65        40      50   -1   50       4          # PEAK
0.0       9.0  4.3     4.2    -1   50       5          # Asc WIDTH exp
0.0       9.0  9.0    2.6     -1   50       5          # Desc WIDTH exp
-5.0    5.0    5.0     5        -1 50    5          # FINAL (logistic)

# 7CA_Rec double normal
#12       65     40      50   -1   50       4          # PEAK
#0.0      9.0  4.3     4.2    -1   50       5          # Asc WIDTH exp
#0.0      9.0  9.0    2.6     -1   50       5          # Desc WIDTH exp
#-5.0   5.0   -1.0     5        -1 50    5          # FINAL (logistic)

## ADD Block lines here (7 params per line: LO  HI    INIT  PRIOR PR_type SD   PHASE)
# TWL retention
#0            70            27            35            -1                          99             6   # inflection
#0            70            0.001  35            -1                          99            -6   # inflection
#0.1          10            2                    1                    -1                          99     6   # slope
#0.1          10            2                    1                    -1                          99     6   # slope
#0.001 1                    0.8      1                  -1                          99             6   # asymptote
#0.001 1                    1.0      1                  -1                          99            -6   # asymptote
# NONTWL retention
#0            70            27            35            -1                          99             6   # inflection
#0.1          10            2                    1                    -1                          99     6   # slope
#0.001 1                    0.8    1                    -1                          99             6   # asymptote
#0.001 1                    0.8    1                    -1                          99             6   # asymptote

1 # Selex parm adjust method 1=do V1.23 approach, 2=use new logistic approach
0 # Tagging flag: 0=none,1=read parameters for tagging

### Likelihood related quantities ###
# variance/sample size adjustment by fleet
1 # Do variance adjustments
#1   2    3    4    5    6    7    8    9    10   11   12   13   14   15   16   17   18   19   20   21   22   23   24
25   26   27   28   29   30   31   #
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
       0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
       0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
```

```
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
       0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.1280 0.1280 0.1280 0.3250 0.3250 0.3250 0.0920 0.0920 0.0920 0.1760 0.1760 0.1760 1.0000 1.0000 1.0000 0.0810 0.0810 0.0810
       0.0930 0.0930 0.0930 0.1140 0.1140 0.1140 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
0.2660 0.2660 0.2660 1.0000 1.0000 1.0000 0.1000 0.1000 0.1000 0.2350 0.2350 0.2350 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
       1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
       1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000

# removed for SSv3.20: 30        # DF For discard T-distribution (discard_like)
# removed for SSv3.20: 30        # DF For meanbodywt T-distribution (DF_for_meanbodywt_like)
1      # Max number of lambda phases: read this number of values for each component below
1      # SD offset (CPUE, discard, mean body weight, recruitment devs): 0=omit log(s) term, 1=include

36 # N changes to default Lambdas = 1.0
# Component codes:
#  1=survey
#  2=discard
#  3=mean body weight
#  4=length frequency
#  5=age frequency
#  6=Weight frequency
#  7=size at age
#  8=catch
#  9=initial equilibrium catch
#  10=rec devs
#  11=parameter priors
#  12=parameter deviations
#  13=Crash penalty
#  14=Morph composition
#  15=Tag composition
#  16=Tag return
# Component fleet/survey  phase  value  wtfreq_method
1 28 1 0 1 # Turn off coastwide index
1 29 1 0 1 # Turn off coastwide index
1 30 1 0 1 # Turn off coastwide index
1 31 1 0 1 # Turn off coastwide index

4 28 1 0 1 # Turn off coastwide lengths
4 29 1 0 1 # Turn off coastwide lengths
4 30 1 0 1 # Turn off coastwide lengths
4 31 1 0 1 # Turn off coastwide lengths

5 28 1 0 1 # Turn off coastwide ages
5 29 1 0 1 # Turn off coastwide ages
```

```
5 30 1 0 1 # Turn off coastwide ages
5 31 1 0 1 # Turn off coastwide ages

# Emphasis factors
4      1      1      0.7034 1
4      2      1      0.4561 1
4      3      1      0.4429 1
4      4      1      0.9871 1
4      5      1      0.7753 1
4      6      1      0.5091 1
4      7      1      1.0000 1
4      8      1      1.0000 1
4      9      1      0.8585 1
4      10     1      0.8889 1
4      11     1      0.5509 1
4      12     1      0.5351 1
5      1      1      0.2966 1
5      2      1      0.5439 1
5      3      1      0.5571 1
5      4      1      0.0129 1
5      5      1      0.2247 1
5      6      1      0.4909 1
5      7      1      0.0000 1
5      8      1      0.0000 1
5      9      1      0.1415 1
5      10     1      0.1111 1
5      11     1      0.4491 1
5      12     1      0.4649 1


0 # extra SD

999 # end file marker
```

Appendix B.3. SS starter file

```
# 2011 Canary update starter file

Canary_data.SS            # Data file
Canary_control.SS   # Control file

1      # Read initial values from .par file: 0=no,1=yes
1      # DOS display detail: 0,1,2
2      # Report file detail: 0,1,2
0      # Detailed checkup.sso file (0,1)
0      # Write parameter iteration trace file during minimization (0: none; 1: good and active params; 2: good and all
params; 3: every and all params; 4: every and active params)
0      # Write cumulative report: 0=skip,1=short,2=full
0      # Include prior likelihood for non-estimated parameters
1      # Use Soft Boundaries to aid convergence (0,1) (recommended)
0      # N bootstrap datafiles to create
25     # Last phase for estimation
1      # MCMC burn-in
1      # MCMC thinning interval
0      # Jitter initial parameter values by this fraction
-1     # Min year for spbio sd_report (neg val = styr-2, virgin state)
-2     # Max year for spbio sd_report (-1=endyr+1, -2=entire forecast)
0      # N individual SD years
0.0001       # Ending convergence criteria
0      # Retrospective year relative to end year
5      # Min age for summary biomass
1      # Depletion basis: denom is: 0=skip; 1=rel X*B0; 2=rel X*Bmsy; 3=rel X*B_styr
1.0    # Fraction (X) for Depletion denominator (e.g. 0.4)
1      # (1-SPR)_reporting:  0=skip; 1=rel(1-SPR); 2=rel(1-SPR_MSY); 3=rel(1-SPR_Btarget); 4=notrel
1      # F_report_units: 0=skip; 1=exploitation(Bio); 2=exploitation(Num); 3=sum(Frates); 4=true F for range of ages
0      # F_report_basis: 0=raw; 1=rel Fspr; 2=rel Fmsy ; 3=rel Fbtgt

999 # end of file marker
```

SS forecast file

```
#V3.24V
# for all year entries except rebuilder; enter either: actual year, -999 for styr, 0 for endyr, neg number for rel.
endyr
1 # Benchmarks: 0=skip; 1=calc F_spr,F_btgt,F_msy
1 # MSY: 1= set to F(SPR); 2=calc F(MSY); 3=set to F(Btgt); 4=set to F(endyr)
0.5 # SPR target (e.g. 0.40)
0.4 # Biomass target (e.g. 0.40)
#_Bmark_years: beg_bio, end_bio, beg_selex, end_selex, beg_relF, end_relF (enter actual year, or values of 0 or -
integer to be rel. endyr)
 -4 0 -4 0 -4 0
#  2010 2014 2010 2014 2010 2014 # after processing
1 #Bmark_relF_Basis: 1 = use year range; 2 = set relF same as forecast below
#
1 # Forecast: 0=none; 1=F(SPR); 2=F(MSY) 3=F(Btgt); 4=Ave F (uses first-last relF yrs); 5=input annual F scalar
2 # N forecast years
1 # F scalar (only used for Do_Forecast==5)
#_Fcast_years:  beg_selex, end_selex, beg_relF, end_relF  (enter actual year, or values of 0 or -integer to be rel.
endyr)
 -4 0 -4 0
#  2010 2014 2010 2014 # after processing
1 # Control rule method (1=catch=f(SSB) west coast; 2=F=f(SSB) )
0.4 # Control rule Biomass level for constant F (as frac of Bzero, e.g. 0.40); (Must be > the no F level below)
0.1 # Control rule Biomass level for no F (as frac of Bzero, e.g. 0.10)
1 # Control rule target as fraction of Flimit (e.g. 0.75)
3 #_N forecast loops (1=OFL only; 2=ABC; 3=get F from forecast ABC catch with allocations applied)
3 #_First forecast loop with stochastic recruitment
0 #_Forecast loop control #3 (reserved for future bells&whistles)
0 #_Forecast loop control #4 (reserved for future bells&whistles)
0 #_Forecast loop control #5 (reserved for future bells&whistles)
2050  #FirstYear for caps and allocations (should be after years with fixed inputs)
0 # stddev of log(realized catch/target catch) in forecast (set value>0.0 to cause active impl_error)
0 # Do West Coast gfish rebuilder output (0/1)
0 # Rebuilder:  first year catch could have been set to zero (Ydecl)(-1 to set to 1999)
0 # Rebuilder:  year for current age structure (Yinit) (-1 to set to endyear+1)
1 # fleet relative F:  1=use first-last alloc year; 2=read seas(row) x fleet(col) below
# Note that fleet allocation is used directly as average F if Do_Forecast=4
2 # basis for fcast catch tuning and for fcast catch caps and allocation  (2=deadbio; 3=retainbio; 5=deadnum;
6=retainnum)
# Conditional input if relative F choice = 2
# Fleet relative F:  rows are seasons, columns are fleets
#_Fleet:  1_CA_TWL 2_OR_TWL 3_WA_TWL 4_CA_NTWL 5_OR_NTWL 6_WA_NTWL 7_CA_REC 8_OR_REC 9_WA_REC 10_CA_AHSOP 11_OR_ASHOP
12_WA_ASHOP 13_CA_FOR 14_OR_FOR 15_WA_FOR 16_CA_NWFSC 17_OR_NWFSC 18_WA_NWFSC 19_CA_Tri_early 20_OR_Tri_early
21_WA_Tri_early 22_CA_Tri_late 23_OR_Tri_late 24_WA_Tri_late
```

```
#  0.0245915 0.192096 0.122514 0.048624 0.0907702 0.0522121 0.225412 0.159034 0.0274059 8.64871e-005 0.0052285
0.00821176 0 0 0 0.00161 0.016227 0.0259769 0 0 0 0 0 0
# max totalcatch by fleet (-1 to have no max) must enter value for each fleet
 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
# max totalcatch by area (-1 to have no max); must enter value for each fleet
 -1 -1 -1
# fleet assignment to allocation group (enter group ID# for each fleet, 0 for not included in an alloc group)
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
#_Conditional on >1 allocation group
# allocation fraction for each of: 0 allocation groups
# no allocation groups
0 # Number of forecast catch levels to input (else calc catch from forecast F)
-1 # code means to read fleet/time specific basis (2=dead catch; 3=retained catch; 99=F)  as below (units are from
fleetunits; note new codes in SSV3.20)
# Input fixed catch values
#Year Seas Fleet Catch(or_F) Basis
#
999 # verify end of input
```

Appendix B.4. SS par file for converged MLE

```
# Number of parameters = 304  Objective function value = 5597.94  Maximum gradient
component = 4.94457e-005
# dummy_parm:
1.00000000000
# MGparm[1]:
0.0521000000000
# MGparm[2]:
0.672033841827
# MGparm[3]:
9.05195900169
# MGparm[4]:
60.0515367672
# MGparm[5]:
0.128764455471
# MGparm[6]:
0.108412983905
# MGparm[7]:
-1.34753712981
# MGparm[8]:
0.000000000000
# MGparm[9]:
0.000000000000
# MGparm[10]:
0.000000000000
# MGparm[11]:
-0.114037594803
# MGparm[12]:
0.224289661247
# MGparm[13]:
0.0410711586408
# MGparm[14]:
-1.17322582949
# MGparm[15]:
1.18000000000e-005
# MGparm[16]:
3.09400000000
# MGparm[17]:
40.5000000000
# MGparm[18]:
-0.250000000000
# MGparm[19]:
0.261900000000
# MGparm[20]:
0.0217000000000
# MGparm[21]:
1.06400000000e-005
# MGparm[22]:
3.12300000000
# MGparm[23]:
1.00000000000
# MGparm[24]:
0.000000000000
# MGparm[25]:
1.09869743204
# MGparm[26]:
0.524171657874
# MGparm[27]:
1.00000000000
# MGparm[28]:
1.00000000000
# MGparm_dev:
```

-0.00251488945284 -0.00205484765564 -0.00153732649675 -0.00105872588359 -
0.000739077563768 -0.000595149665504 -0.000509072274852 -0.000369515550378
0.000288313783880 0.00132311028291 0.00318602427697 0.00312780257153 0.00261584292747
0.000897495172135 -0.00219990356242 -0.00693669256390 -0.0132550869366 -
0.0216930099344 -0.0320766764049 -0.0442197542246 -0.0591421415628 -0.0668210083088 -
0.0811588492659 -0.0952136331154 -0.0969141369628 -0.0902251414135 -0.0617309645612 -
0.0194539290061 0.0545245649892 0.0912670111942 0.167886566798 0.184994966981
0.209467292493 0.248324848870 0.210340187339 -0.109002887472 -0.240362834294 -
0.252867178172 -0.311633632516 -0.311371505894 -0.0418525958402 0.0598042934526
0.0219391203501 -0.311271849635 -0.386540930578 -0.362537500511 -0.00816831833835 -
0.212786335942 -0.488779706669 -0.336496895786 0.0756278977603 -0.365717907997
0.157315425401 0.0508865317356 -0.198845719969 -0.0399402067868 -0.106331997904
0.112360247628 -0.0912735293101 -0.150106435620 -0.196896737234 -0.0664155816258
0.386943889769 0.0743851423770 0.158596888664 -0.0632796188403 -0.249846707375 -
0.363968529512 -0.638839394583 0.290645335578 0.521605624679 1.00233748441 -
0.0517421589769 0.812341601047 0.200957511883 1.47627863086 -0.532791707691
0.0164268445119 1.10241572689 -0.184482881852 -0.216705521552 0.000000000000
-0.0450090241036 -0.0472520916670 -0.0495719410515 -0.0520161942961 -0.0546532903219
-0.0575244742814 -0.0606234331004 -0.0639453500212 -0.0676023393294 -0.0714989076964 -
0.0758069166713 -0.0797576760480 -0.0838352855176 -0.0876675823605 -0.0914776190732 -
0.0951571737552 -0.0984522616720 -0.101123021135 -0.103316003478 -0.105230004045 -
0.106669657821 -0.112544881498 -0.117949809656 -0.126012372431 -0.141542171057 -
0.167154079857 -0.205523681627 -0.214632907172 -0.288741333511 -0.321514786992 -
0.336062923283 -0.291084322851 -0.268581855567 -0.270015092838 -0.297628708223 -
0.523827830740 -0.379231248773 -0.309244083621 -0.308854087518 -0.446928274509 -
0.466225248404 -0.439031206109 -0.467557142895 -0.591311195868 -0.353670016261
0.0332636293120 0.345687451088 -0.135758990280 -0.582877541089 -0.336817019638 -
0.120002506682 -0.0641530132293 0.282994555555 0.150577932100 0.240633870277
0.264544097001 0.378508166630 0.116770698383 0.347629604232 -0.00238836443970
0.00427274083032 1.21972116480 0.210155660029 -0.0408847167058 0.787573099543 -
0.113196782148 -0.0262214694442 0.363629728569 -0.287545176511 -0.313749264589
1.38281196643 -0.0481945299005 2.01693889880 1.24215938581 -0.213632929456
2.50741635739 -0.364255633875 0.330678696871 0.180610328931 -0.152931970395
0.318381432679 0.000000000000
SR_parm[1]:
7.96413037959
SR_parm[2]:
0.773000000000
SR_parm[3]:
0.500000000000
SR_parm[4]:
0.000000000000
SR_parm[5]:
0.000000000000
SR_parm[6]:
0.000000000000
recdev_early:
-0.133433502248 -0.138997633906 -0.144888653122 -0.151235157299 -0.158081114478 -
0.165404077098 -0.173103176152 -0.180952447904 -0.188140981694 -0.195158936749 -
0.202331364170 -0.211831852012 -0.220792991684 -0.229214236907 -0.237849817046 -
0.247063409255 -0.256738411486 -0.266054355889 -0.275045342818 -0.282669119029 -
0.289980882134 -0.277407079485 -0.265225148227 -0.237777835971 -0.190231290442 -
0.0878435423347 0.0306136940716
recdev1:
-0.0198440358389 0.269768809495 0.351592625919 0.372936279040 0.0986627318046 -
0.0725490203015 -0.0579469513329 0.134804653553 0.872641421965 0.258048425383 -
0.227339022949 -0.313900619557 0.222767369691 0.368349434259 0.304254480983
0.241708793656 0.193297155426 -0.284754349657 0.417446269355 0.910662396671 -
1.06126096355 0.362418665674 -0.143123341306 -0.593902063009 0.507878477294 -
0.152013641790 -0.113562440737 0.179723886577 0.0496741115076 0.331620785775
0.0919868262133 0.175068525060 0.294936828277 -0.111256910579 0.328670402932
0.305848063382 0.0430055308341 0.367660939585 -0.202470924849 -0.136382473499 -
0.298736484989 0.234486564696 0.0101638497919 0.127381270885 -0.384415342432 -

```
0.960747973138 -0.463124067012 0.158740743099 -0.870381168120 -0.0924417562369
0.302121216357 -0.477433732778 -0.661089223900 -0.783942794035 -0.405708233547
# Fcast_recruitments:
 0.000000000000 0.000000000000
# Fcast_impl_error:
 0.000000000000 0.000000000000
# init_F[1]:
0.000000000000
# init_F[2]:
0.000000000000
# init_F[3]:
0.000000000000
# init_F[4]:
0.000000000000
# init_F[5]:
0.000000000000
# init_F[6]:
0.000000000000
# init_F[7]:
0.000000000000
# init_F[8]:
0.000000000000
# init_F[9]:
0.000000000000
# init_F[10]:
0.000000000000
# init_F[11]:
0.000000000000
# init_F[12]:
0.000000000000
# init_F[13]:
0.000000000000
# init_F[14]:
0.000000000000
# init_F[15]:
0.000000000000
# init_F[16]:
0.000000000000
# init_F[17]:
0.000000000000
# init_F[18]:
0.000000000000
# init_F[19]:
0.000000000000
# init_F[20]:
0.000000000000
# init_F[21]:
0.000000000000
# init_F[22]:
0.000000000000
# init_F[23]:
0.000000000000
# init_F[24]:
0.000000000000
# Q_parm[1]:
0.499555456412
# Q_parm[2]:
0.374961353489
# Q_parm[3]:
0.972451181319
# selparm[1]:
48.8804320661
# selparm[2]:
```

```
-4.00000000000
# selparm[3]:
4.29894447964
# selparm[4]:
0.0108019585717
# selparm[5]:
-9.00000000000
# selparm[6]:
1.16372854159
# selparm[7]:
43.1488900765
# selparm[8]:
-4.00000000000
# selparm[9]:
4.99545393896
# selparm[10]:
7.30063291544
# selparm[11]:
-9.00000000000
# selparm[12]:
4.42680935393
# selparm[13]:
32.3510300500
# selparm[14]:
-4.00000000000
# selparm[15]:
3.74964738504
# selparm[16]:
3.42604918969
# selparm[17]:
-9.00000000000
# selparm[18]:
-1.70838023155
# selparm[19]:
45.9320719072
# selparm[20]:
-4.00000000000
# selparm[21]:
2.99333624687
# selparm[22]:
0.00638969157936
# selparm[23]:
-9.00000000000
# selparm[24]:
0.589707494181
# selparm[25]:
13.0405474391
# selparm[26]:
-4.00000000000
# selparm[27]:
4.65290282419
# selparm[28]:
8.58767641613
# selparm[29]:
-9.00000000000
# selparm[30]:
4.88298821759
# selparm[31]:
53.9869834446
# selparm[32]:
-4.00000000000
# selparm[33]:
6.56105741459
```

```
# selparm[34]:
0.409512002516
# selparm[35]:
-9.00000000000
# selparm[36]:
0.542182026239
# selparm[37]:
50.9965194482
# selparm[38]:
-4.00000000000
# selparm[39]:
5.67623437027
# selparm[40]:
4.64236187049
# selparm[41]:
-9.00000000000
# selparm[42]:
-0.488754820993
# selparm[43]:
43.6253309710
# selparm[44]:
43.0842447059
# selparm[45]:
4.25557172571
# selparm[46]:
5.02351376878
# selparm[47]:
1.61368457614
# selparm[48]:
1.66311721961
# selparm[49]:
0.165970986289
# selparm[50]:
-0.847152052859
# selparm[51]:
40.3414588669
# selparm[52]:
4.29736397543
# selparm[53]:
6.62990128372
# selparm[54]:
4.23649004562
```