

Stock Assessment of Pacific Hake (Whiting) in U.S. and Canadian Waters in 2006

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Executive Summary

Stock

This assessment reports the status of the coastal Pacific hake (*Merluccius productus*) resource off the west coast of the United States and Canada. The coastal stock of Pacific hake is currently the most abundant groundfish population in the California Current system. Smaller populations of hake occur in the major inlets of the north Pacific Ocean, including the Strait of Georgia, Puget Sound, and the Gulf of California. However, the coastal stock is distinguished from the inshore populations by larger body size, seasonal migratory behavior, and a pattern of low median recruitment punctuated by extremely large year classes. The population is modeled as a single stock, but the United States and Canadian fishing fleets are treated separately in order to capture some of the spatial variability in Pacific hake distribution.

Catches

Fishery landings from 1966 to 2005 have averaged 214 thousand mt, with a low of 90 thousand mt in 1980 and a peak harvest of 362 thousand mt in 1994. Recent landings have been above the long term average, at 335 thousand mt in 2004, and 360 thousand mt in 2005. Catches in both of these years were predominately comprised by the large 1999 year class. The United States has averaged 159 thousand mt, or 74.6% of the total landings over the time series, with Canadian catch averaging 54 thousand mt. The 2004 and 2005 landings had similar distributions, with 62.9 and 72.1%, respectively, harvested by the United States fishery. The current model assumes no discarding mortality of pacific hake.

Table a. Recent commercial fishery landings (1000s mt).

Year	US at-sea	US shore based	US tribal	US total	Canadian foreign and JV	Canadian shore based	Canadian total	Total
1996	113	85	15	213	67	26	93	306
1997	121	87	25	233	43	49	92	325
1998	120	88	25	233	40	48	88	321
1999	115	83	26	225	17	70	87	312
2000	116	86	7	208	16	6	22	231
2001	102	73	7	182	22	32	54	236
2002	63	46	23	132	0	51	51	183
2003	67	55	21	143	0	62	62	206
2004	90	96	24	210	59	65	124	335
2005	150	86	24	260	15	85	100	360

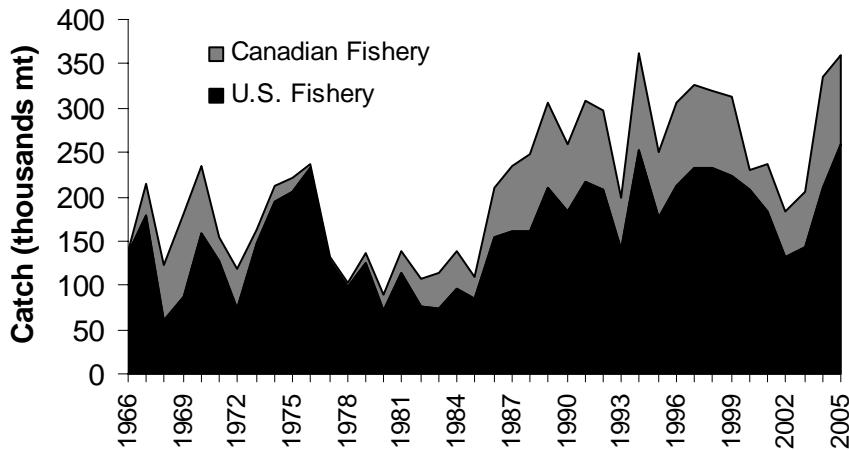


Figure a. Pacific whiting landings (1000s mt) by nation, 1966-2005.

Data and assessment

Age-structured assessment models of various forms have been used to assess Pacific hake since the early 1980's, using total fishery catches, fishery age compositions and abundance indices. In 1989, the hake population was modeled using a statistical catch-at-age model (Stock Synthesis) that utilizes fishery catch-at-age data and survey estimates of population biomass and age-composition data (Dorn and Methot, 1991). The model was then converted to AD Model Builder (ADMB) in 1999 by Dorn (1999), using the same basic population dynamics equations. This allowed the assessment to take advantage of ADMB's post-convergence routines to calculate standard errors (or likelihood profiles) for any quantity of interest. Since 2001, Helser et al. (2001, 2003, 2004) have used the same ADMB modeling platform to assess the hake stock and examine important assessment modifications and assumptions, including the time varying nature of the acoustic survey selectivity and catchability. The acoustic survey catchability coefficient (q) has been, and continues to be, one of the major sources of uncertainty in the model. Due to the lengthened acoustic survey biomass trends the assessment model was able to freely estimate the acoustic survey q . These estimates were substantially below the assumed value of $q=1.0$ from earlier assessments. The 2003 and 2004 assessment presented uncertainty in the final model result as a range of biomass. The lower end of the biomass range was based upon the conventional assumption that the acoustic survey q was equal to 1.0, while the higher end of the range represented a $q=0.6$ assumption.

This year's assessment used the Stock Synthesis modeling framework (SS2 Version 1.21, December, 2006) which was written by Dr. Richard Methot (Northwest Fisheries Science Center) in AD Model Builder. Conversion of the previous hake model into SS2 was guided by three principles: 1) the incorporation of less derived data, 2) explicitly model the underlying hake growth dynamics, and 3) achieve parsimony¹ in terms on model complexity. "Incorporating less derived data" entailed fitting observed data in their most elemental form. For instance, no pre-processing to convert length data to age compositional data was performed. Also, incorporating conditional age-at-length data, through age-length keys for each fishery and survey, allowed

¹ Parsimony is defined as a balance between the number of parameters needed to represent a complex state of nature and data quality/quantity to support accurate and precise estimation of those parameters.

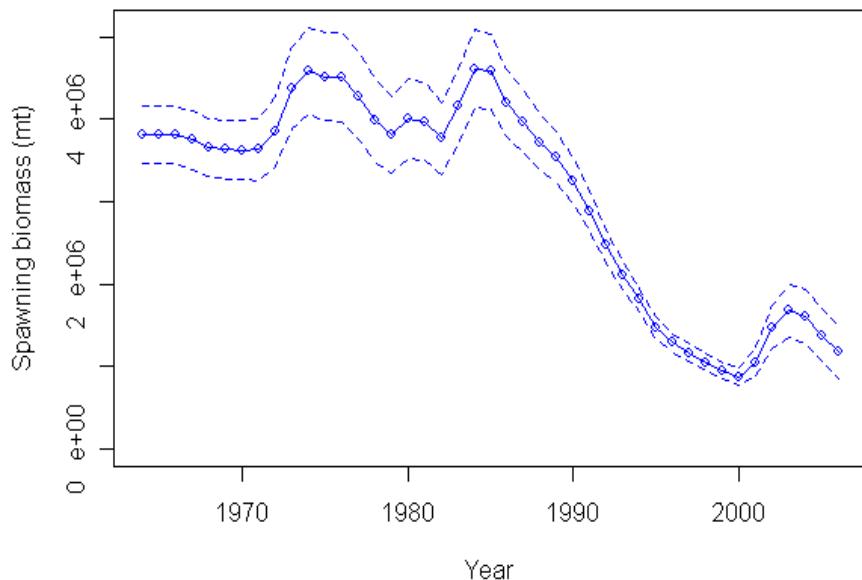
explicit estimation of expected growth, dispersion about that expectation, and its temporal variability, all conditioned on selectivity. As in the previous year's assessment, two models are presented to bracket the range of uncertainty in the acoustic survey catchability coefficient, q . The base model with steepness fixed at $h=0.75$ and $q=1.0$ represents the endpoint of the lower range while the alternative model which places a prior on q (effective $q=0.7$) represents the upper endpoint of the range. As such, model estimates presented below report a range of values representing these endpoints.

Stock biomass

Pacific hake spawning biomass declined rapidly after 1984 (4.6-5.1million mt) to the lowest point in the time series in 2000 (0.88-1.21 million mt). This long period of decline was followed by a brief increase to 1.68-2.13 million mt in 2003 as the 1999 year class matured. In 2006 (beginning of year), spawning biomass is estimated to be 1.18-1.60 million mt and approximately 30.9%-38.0% of the unfished level. Estimates of uncertainty in level of depletion range from 24.7%-36.9% and 29.7%-45.0% of unfished biomass for the base and alternative models, respectively, based on asymptotic confidence intervals.

Table b. Recent trend in Pacific hake spawning biomass and depletion level from the base and alternative SS2 models.

Year	Base Model				Alternative Model			
	Spawning biomass millions mt	~ 95% Interval	Relative Depletion	~ 95% Interval	Spawning biomass millions mt	~ 95% Interval	Relative Depletion	~ 95% Interval
1997	1.169	1.063 - 1.273	30.6%	-	1.314	1.146 - 1.482	30.66%	-
1998	1.056	0.954 - 1.157	27.7%	-	1.202	1.037 - 1.368	28.05%	-
1999	0.952	0.849 - 1.054	25.0%	-	1.102	0.934 - 1.271	25.72%	-
2000	0.880	0.767 - 0.990	23.1%	-	1.044	0.860 - 1.227	24.35%	-
2001	1.054	0.891 - 1.213	27.6%	-	1.288	1.025 - 1.551	30.04%	-
2002	1.485	1.217 - 1.746	38.9%	-	1.857	1.437 - 2.277	43.32%	-
2003	1.684	1.358 - 2.003	44.2%	-	2.132	1.624 - 2.641	49.74%	-
2004	1.617	1.280 - 1.945	42.4%	-	2.075	1.552 - 2.598	48.40%	-
2005	1.386	1.060 - 1.703	36.3%	30.4% - 42.1%	1.826	1.322 - 2.330	42.59%	35.2% - 50.1%
2006	1.178	0.857 - 1.491	30.9%	24.7% - 36.9%	1.601	1.109 - 2.093	38.00%	29.7% - 45.0%



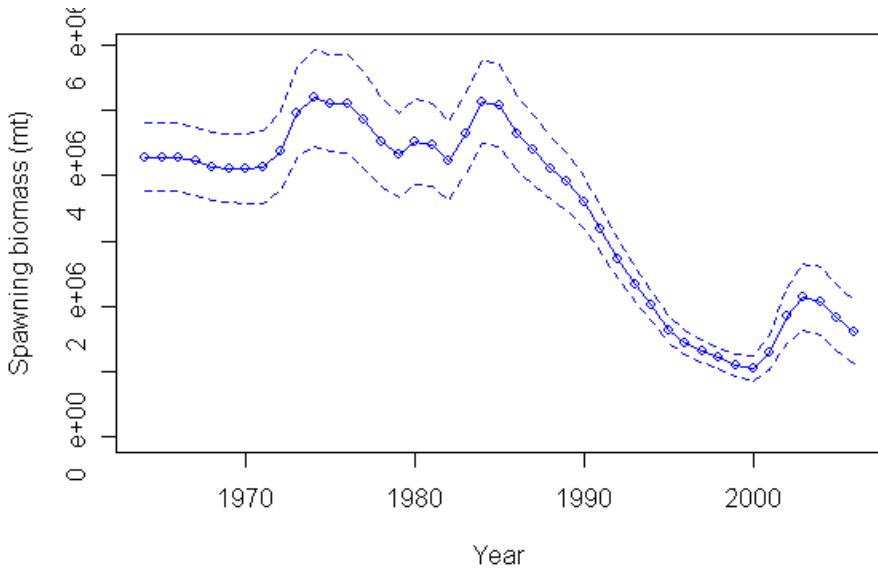


Figure b. Estimated spawning biomass time-series with approximate asymptotic 95% confidence intervals for the base (upper plot) and alternative (lower plot) models.

Recruitment

Estimates of Pacific hake recruitment indicate very large year classes in 1980 and 1984, with secondary recruitment events in 1970, 1973 and 1977, earlier in the time series. The recent 1999 year class was the single most dominate cohort since the late 1980s and has in large part support fishery catches during the last few years. Uncertainty in recruitment can be substantial as shown by asymptotic 95% confidence intervals. Recruitment to age 0 before 1967 is assumed to be equal to the long-term mean recruitment. Age-0 recruitment in 2003 is very uncertain, but predicted to be below the mean, despite some evidence to the contrary in the 2005 acoustic survey.

Table c. Recent estimated trend in Pacific hake recruitment.

Year	Base Model		Alternative Model	
	Recruitment (billions)	~ 95% Interval	Recruitment (billions)	~ 95% Interval
1997	1.933	1.671 - 2.227	2.275	1.893 - 2.735
1998	2.814	2.365 - 3.328	3.435	2.774 - 4.253
1999	13.789	11.337 - 16.692	17.323	13.667 - 21.956
2000	0.990	0.770 - 1.264	1.267	0.953 - 1.684
2001	1.372	1.048 - 1.783	1.787	1.322 - 2.416
2002	0.234	0.147 - 0.371	0.312	0.192 - 0.505
2003	2.338	1.502 - 3.618	3.137	1.978 - 4.976
2004	1.446	0.417 - 5.004	1.663	0.467 - 5.924
2005	0.279	0.069 - 1.131	0.323	0.079 - 1.315
2006	2.192	0.366 - 13.103	2.565	0.428 - 15.370

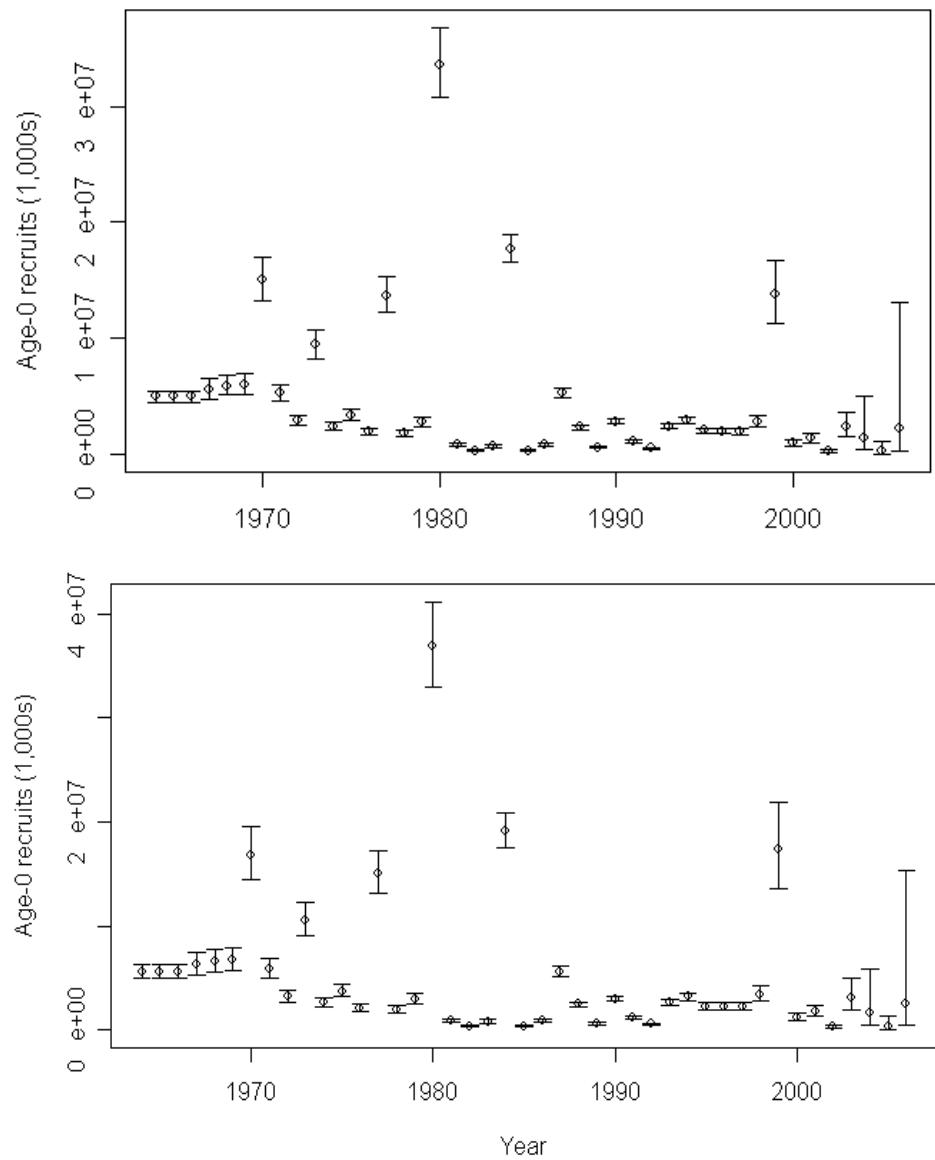


Figure c. Estimated recruitment time-series with approximate asymptotic 95% confidence intervals for the base (upper plot) and alternative (lower plot) models.

Reference points

Two types of reference points are reported in this assessment: those based on the assumed population parameters at the beginning of the modeled time period and those based on the most recent time period in a ‘forward projection’ mode of calculation. This distinction is important since temporal variability in growth and other parameters can result in different biological reference point calculations across alternative chronological periods. All strictly biological reference points (e.g., unexploited spawning biomass) are calculated based on the unexploited conditions at the start of the model, whereas management quantities (MSY, SB_{msy}, etc.) are based on the current growth and maturity schedules and are marked throughout this document with an asterisk (*).

Unexploited equilibrium Pacific hake spawning biomass (B_{zero}) from the base model was estimated to be 3.81 million mt (~ 95% confidence interval: 3.46 – 4.16 million mt), with a mean expected recruitment of 4.97 billion age-0 hake. Under the alternative model, spawning biomass (B_{zero}) from the base model was estimated to be 4.29 million mt (~ 95% confidence interval: 3.76 – 4.81 million mt), with a mean expected recruitment of 5.59 billion age-0 hake. Associated management reference points for target and critical biomass levels for the base model are 1.52 million mt (B40%) and 0.95 million mt (B25%), respectively. Under the alternative model, B40% and B25% are estimated to be 1.71 and 1.07 million mt, respectively. The MSY-proxy harvest amount (F40%) under the base model was estimated to be 573,945* mt (~ 95% confidence interval: 521,122-619,501), and 645,240* mt (~ 95% confidence interval: 566,830-712,848) under the alternative model. The spawning stock biomass that produces the MSY-proxy catch amount under the base model was estimated to be 1.06 million* mt (confidence interval is 0.96-1.14* million mt), and 1.19 million* mt (confidence interval is 1.04 -1.31* million mt) under the alternative model, given current life history parameters.

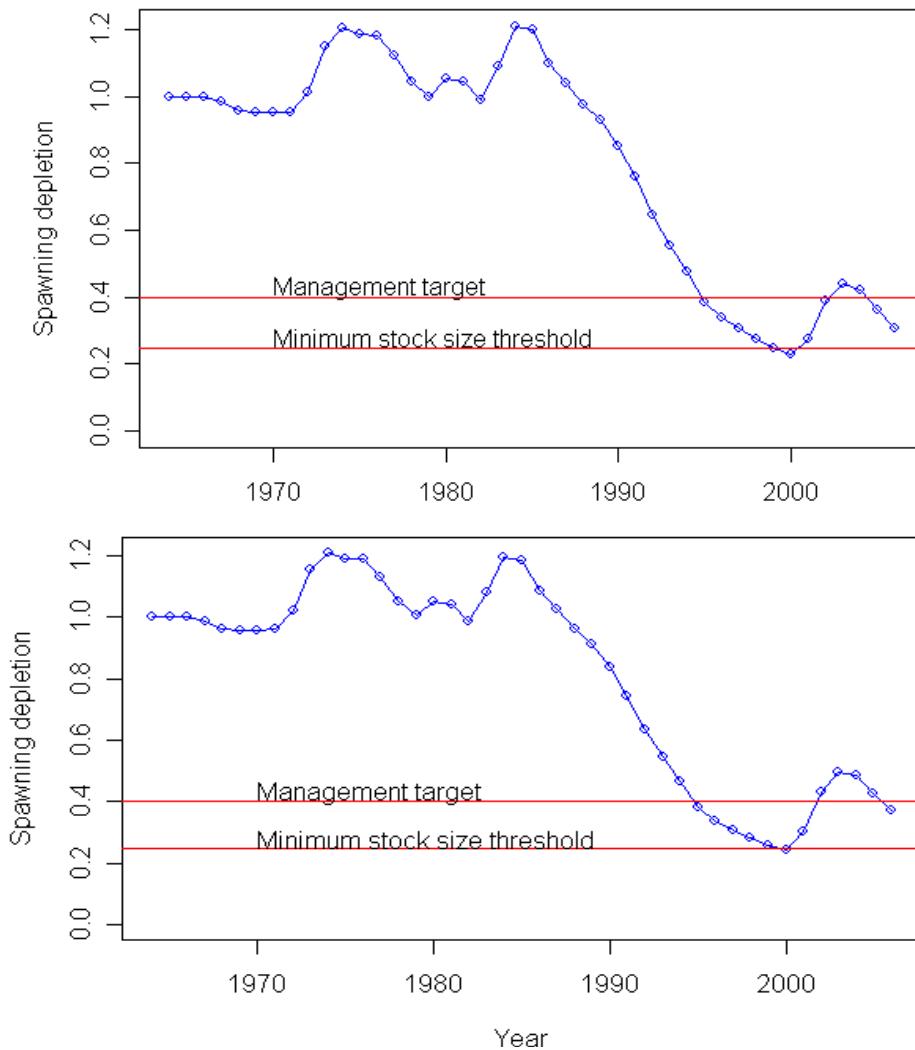


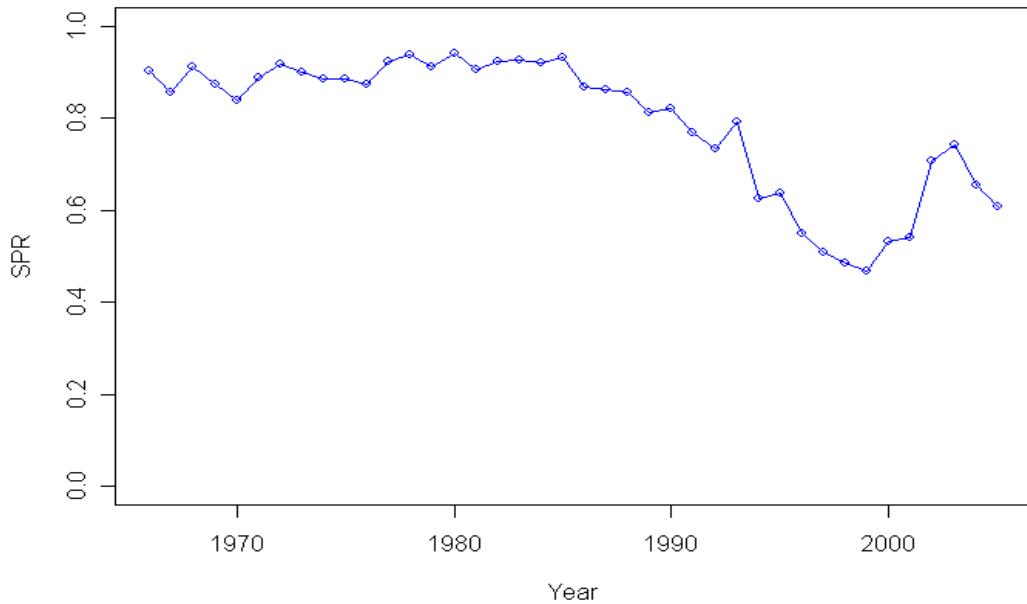
Figure d. Time series of estimated depletion, 1966-2006, for the base (upper plot) and alternative (lower plot) models.

Exploitation status

The estimated spawning potential ratio (SPR) for Pacific hake has been above the proxy target of 40% for the history of this fishery. In terms of its exploitation status, Pacific hake are presently below the target biomass level (40% unfished biomass) and above the target SPR rate (40%). The full exploitation history is portrayed graphically below which plots for each year the calculated SPR and spawning biomass level (B) relative to their corresponding targets, F40% and B40%, respectively.

Table d. Recent trend in spawning potential ratio (SPR).

Year	Base Model		alternative Model	
	Estimated SPR	~ 95% Interval	Estimated SPR	~ 95% Interval
1997	0.513	-	0.539	-
1998	0.491	-	0.521	-
1999	0.473	-	0.509	-
2000	0.540	-	0.584	-
2001	0.550	-	0.601	-
2002	0.716	-	0.762	-
2003	0.749	-	0.793	-
2004	0.664	-	0.721	-
2005	0.619	-	0.686	-



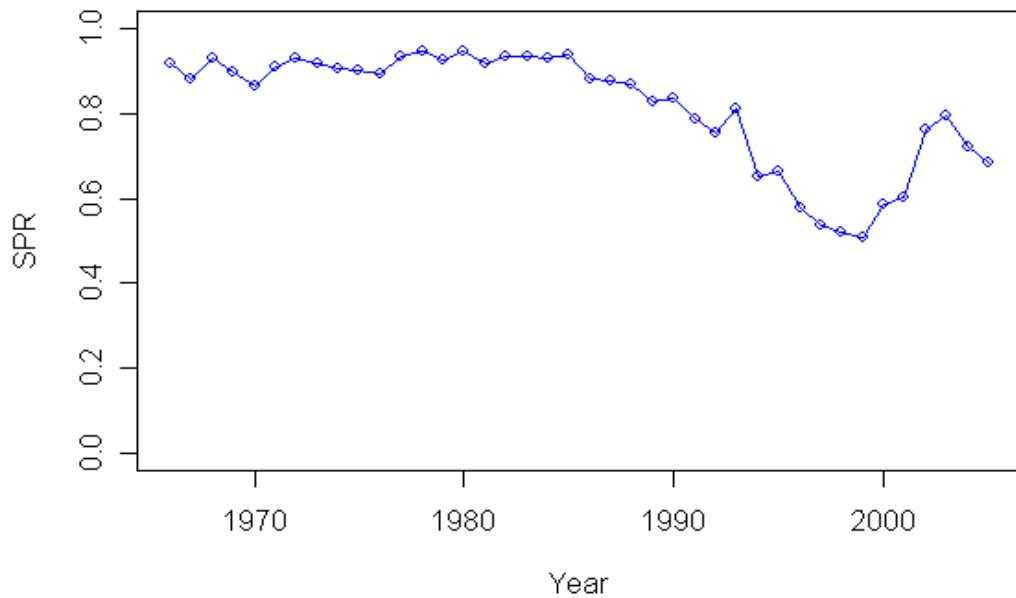
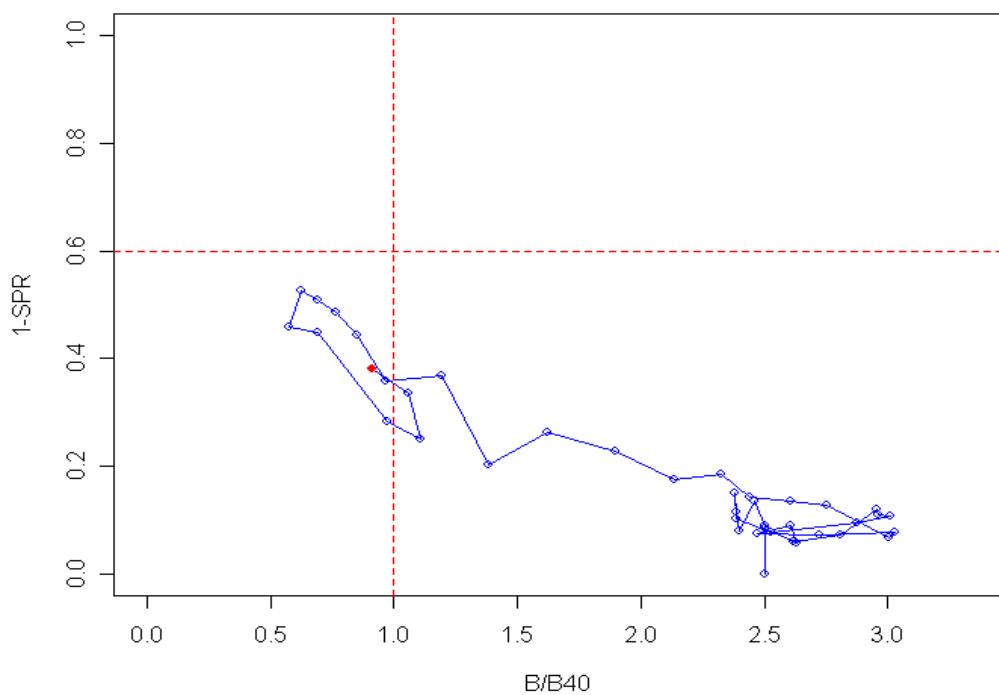


Figure e. Time series of estimated spawning potential ratio from base (upper plot) and alternative (lower plot) models.



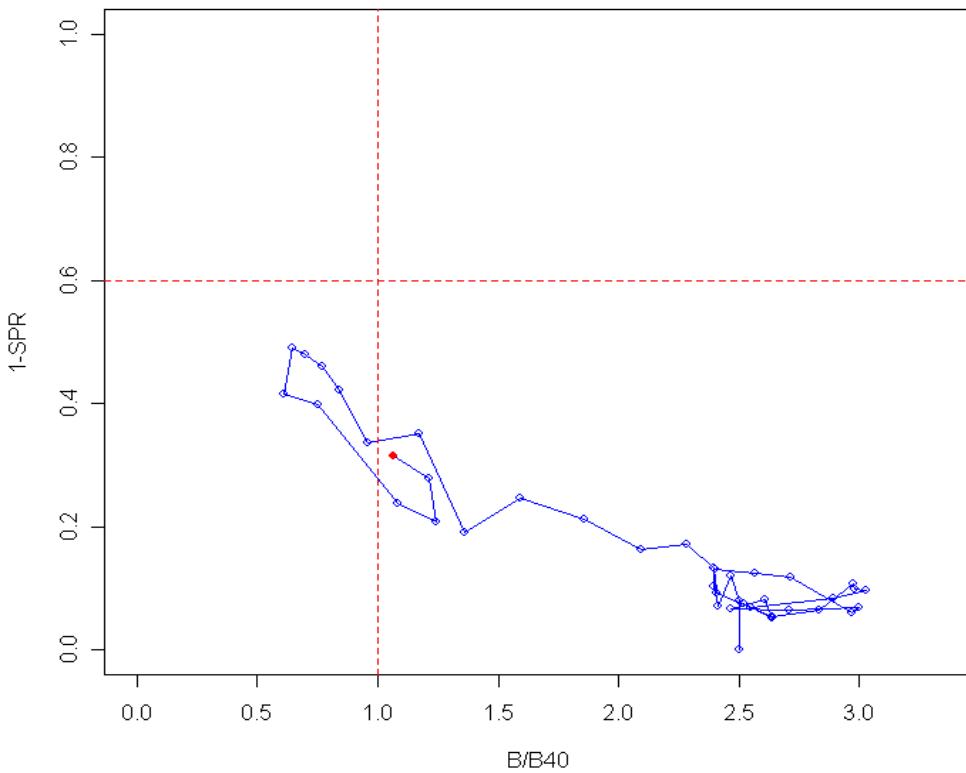


Figure f. Temporal pattern of estimated spawning potential ratio relative to the proxy target of 40% vs estimated spawning biomass relative to the proxy 40% level for base (upper plot) and alternative (lower plot) models.

Management performance

Since implementation of the Magnuson Fisheries Conservation and Management Act in the U.S. and the declaration of a 200 mile fishery conservation zone in Canada in the late 1970's, annual quotas have been the primary management tool used to limit the catch of Pacific hake in both zones by foreign and domestic fisheries. The scientists from both countries have collaborated through the Technical Subcommittee of the Canada-US Groundfish Committee (TSC), and there has been informal agreement on the adoption of an annual fishing policy. During the 1990s, however, disagreement between the U.S. and Canada on the division of the acceptable biological catch (ABC) between the two countries led to quota overruns; 1991-1992 quotas summed to 128% of the ABC and quota overruns have averaged 114% from 1991-1999. Since 2000, total catches have been below coastwide ABCs. A recent treaty between the United States and Canada (2003), which awaits final signature, establishes U.S. and Canadian shares of the coastwide allowable biological catch at 73.88% and 26.12%, respectively.

Table e. Recent trend in Pacific hake management performance.

Year	Total landings (mt)	ABC
1996	306,100	265,000
1997	325,215	290,000
1998	320,619	290,000
1999	311,855	290,000
2000	230,819	290,000
2001	235,962	238,000
2002	182,883	208,000
2003	205,582	235,000
2004	334,721	514,441
2005	360,306	

Unresolved problems and major uncertainties

The acoustic survey catchability, q , remains uncertain. This is largely driven by an inconsistency in the acoustic survey biomass time series and age compositions; age composition data suggest a large build up of stock biomass in the mid 1980s while the acoustic survey biomass time series is relatively flat since 1977.

Forecasts

Forecasts were generated assuming the maximum potential catch would be removed under 40:10 control rule for both the base and alternative models. Projections were based on the relative F contribution of 74.88% and 26.12% coast wide national allocation to the U.S. and Canada, respectively. For base case model, the 2006 coastwide ABC is estimated to be 661,681 mt with an OY of 593,750 mt. Under the alternative model, the 2006 coastwide ABC is estimated to be 904,944 mt with an OY of 883,490 mt. Spawning stock biomass is projected to decline with a corresponding relative depletion of 22.7% and 26.4% for the base and alternative models, respectively in 2007.

Table f. Three year projection of potential Pacific hake landings, spawning biomass and depletion for the base and alternative models under the 40:10 rule.

Year	Expected coastwide catch (mt)	Spawning biomass millions mt			Depletion percent unfished biomass		
		Mean	5%	95%	Mean	5%	95%
<i>Base model, h=0.75, q=1.0</i>							
2006	593,750	1.174	0.857	1.491	30.8%	24.7%	36.9%
2007	358,420	0.864	0.636	1.092	22.7%	18.1%	27.2%
2008	213,220	0.679	0.485	0.873	17.8%	13.5%	22.1%
2009	183,620	0.657	0.337	0.976	17.2%	9.2%	25.3%
<i>Alt. model, h=0.75, q prior</i>							
2006	883,490	1.601	1.109	2.093	38.0%	29.7%	45.0%
2007	522,510	1.130	0.795	1.464	26.4%	21.0%	31.7%
2008	302,300	0.851	0.588	1.113	19.8%	15.1%	24.5%
2009	240,700	0.792	0.404	1.179	18.5%	10.0%	26.9%

Decision table

A decision table was constructed to represent the uncertainty on the acoustic survey catchability coefficient, q . The base model with a $q=1.0$ represents the lower range while the alternative model which places a prior on q (effective $q=0.7$) represents the upper range. Below the decision table shows the consequences of management action given a state of nature. States of nature include the base model ($h=0.75$, $q=1.0$) and the alternative model ($h=0.75$, q prior). The management actions include the OY from each state of nature and two constant coastwide catch scenarios.

Table g. Decision table for two states of nature (base and alternative models) and four different harvest strategies given the state of nature.

Relative probability Model	Management action	State of Nature		
		0.50	0.50	
		$h = 0.75, q = 1.0$	$h = 0.75, q$ prior	
Total coast-wide				
Catch (mt)	Year	Relative depletion (2.5%-97.5% interval)		
OY Model $h=0.75, q=1.0$	593,746	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	358,416	2007	0.227 (0.181-0.272)	0.310 (0.219-0.401)
	213,223	2008	0.178 (0.135-0.221)	0.263 (0.164-0.363)
	183,620	2009	0.172 (0.092-0.253)	0.254 (0.127-0.380)
OY Model $h=0.75, q$ prior	883,490	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	522,511	2007	0.202 (0.125-0.279)	0.268 (0.215-0.322)
	302,298	2008	0.144 (0.056-0.232)	0.202 (0.155-0.249)
	240,702	2009	0.136 (0.020-0.252)	0.188 (0.104-0.273)
Total coast-wide catch = 200,000 mt	200,000	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	200,000	2007	0.282 (0.209-0.354)	0.351 (0.264-0.438)
	200,000	2008	0.250 (0.167-0.333)	0.315 (0.219-0.411)
	200,000	2009	0.239 (0.125-0.352)	0.299 (0.175-0.423)
Total coast-wide catch = 400,000 mt	400,000	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	400,000	2007	0.258 (0.184-0.332)	0.330 (0.241-0.419)
	400,000	2008	0.207 (0.122-0.292)	0.276 (0.177-0.375)
	400,000	2009	0.178 (0.063-0.294)	0.245 (0.118-0.372)

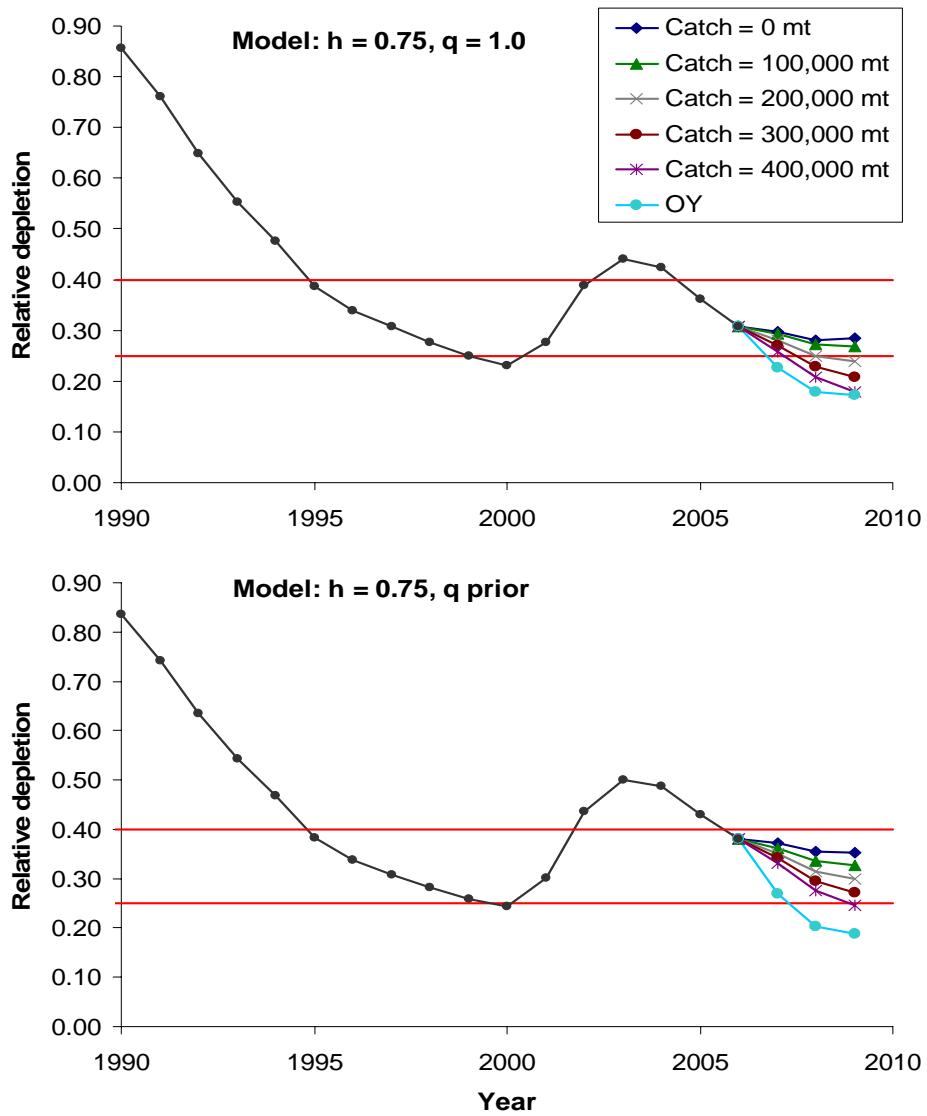


Figure g. Projections through 2009 for the base case (upper plot) and alternative (lower plot) models under various total coast-wide catch scenarios.

Research and data needs

- 1) The quantity and quality of biological data prior to 1988 from the Canadian fishery should be evaluated for use in developing length and conditional age at length compositions.
- 2) Evaluate whether modeling the distinct at-sea and shore based fisheries in the U.S. and Canada explain some lack of fit in the compositional data.
- 3) Compare spatial distributions of hake across all years and between bottom trawl and acoustic surveys to estimate changes in catchability/availability across years. The two primary issues are related to the changing spatial distribution of the survey as well as the environmental factors that may be responsible for changes in the spatial distribution of hake and their influences on survey catchability and selectivity.

- 4) Initiate analysis of the acoustic survey data to determine variance estimates for application in the assessment model. The analysis would provide a first cut to define the appropriate CV for the weighting of the acoustic data.
- 5) Develop an informed prior for the acoustic q. This could be done either with empirical experiments (particularly in off-years for the survey) or in a workshop format with technical experts. There is also the potential to explore putting the target strength estimation in the model directly. This prior should be used in the model when estimating the q parameter.
- 6) Review the acoustic data to assess whether there are spatial trends in the acoustic survey indices that are not being captured by the model. The analysis should include investigation of the migration (expansion/contraction) of the stock in relation to variation in environmental factors. This would account for potential lack of availability of older animals and how it affects the selectivity function.
- 7) Investigate aspects of the life history characteristics for Pacific hake and their possible effects on the interrelationship of growth rates and maturity at age. This should include additional data collection of maturity states and fecundity, as current information is limited.

Table h. Summary of recent trends in Pacific hake exploitation and stock levels; all values reported at the beginning of the year.

Base Model	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Landings (1000s mt)	306.1	325.2	320.6	311.9	230.8	236.0	182.9	205.6	334.7	360.3	NA
ABC (1000s mt)	265	290	290	290	290	238	208	235	514.441	265	
OY (1000s mt)											
SPR*	0.579	0.539	0.521	0.509	0.584	0.601	0.762	0.793	0.721	0.686	NA
Total biomass (millions mt)	2.601	2.437	2.184	1.958	1.761	1.813	3.657	3.534	3.274	2.640	2.328
Spawning biomass (millions mt)	1.293	1.169	1.056	0.952	0.880	1.054	1.485	1.684	1.617	1.386	1.178
~95% interval	1.180-	1.063-	0.954-	0.849-	0.767-	0.891-	1.217-	1.358-	1.280-	1.060-	0.857-
	1.405	1.273	1.157	1.054	0.990	1.213	1.746	2.003	1.945	1.703	1.491
Recruitment (billions)	1.988	1.933	2.814	13.789	0.990	1.372	0.234	2.338	1.446	0.279	2.192
~95% interval	1.711-	1.617-	2.271-	10.770-	0.722-	0.972-	0.124-	1.238-	4.165-	4.165-	
	2.167	2.152	3.199	15.912	1.199	1.681	0.343	3.233	4.988	4.988	4.988
Depletion	33.9%	30.6%	27.7%	25.0%	23.1%	27.6%	38.9%	44.2%	42.4%	36.3%	30.9%
~95% interval										30.4%-	24.7%-
	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.1%	36.9%
Alternative Model	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Landings (1000s mt)	306.1	325.2	320.6	311.9	230.8	236.0	182.9	205.6	334.7	360.3	NA
ABC (1000s mt)	265	290	290	290	290	238	208	235	514.441	265	
OY (1000s mt)											
SPR*	0.579	0.539	0.521	0.509	0.584	0.601	0.762	0.793	0.721	0.686	
Total biomass (millions mt)	2.979	2.812	2.556	2.340	2.166	2.295	4.801	4.699	4.427	3.680	3.389
Spawning biomass (millions mt)	1.443	1.314	1.202	1.102	1.044	1.288	1.857	2.132	2.075	1.826	1.601
~95% interval	1.266-	1.146-	1.037-	0.934-	0.860-	1.025-	1.437-	1.624-	1.552-	1.322-	1.109-
	1.620	1.482	1.368	1.271	1.227	1.551	2.277	2.641	2.598	2.330	2.093
Recruitment (billions)	2.275	2.275	3.435	17.323	1.267	1.787	0.312	3.137	1.663	0.323	2.565
~95% interval	1.945-	1.893-	2.774-	13.677-	0.953-	1.322-	0.192-	1.978-	0.467-	0.079-	0.428-
	2.661	2.735	4.253	21.956	1.684	2.416	0.505	4.976	5.924	1.315	15.370
Depletion	33.7%	30.7%	28.0%	25.7%	24.3%	30.0%	43.3%	49.7%	48.4%	42.6%	38.0%
~95% interval										35.2%-	29.7%-
	NA	NA	NA	NA	NA	NA	NA	NA	NA	50.1%	45.1%

Table i. Summary of Pacific hake reference points.

Base Model		Estimate	~95% Confidence interval
Quantity			
Unfished spawning stock biomass (SB_0 , millions mt)	3.810	3.461 - 4.160	
Unfished total biomass (B_0 , millions mt)	9.200	NA	
Unfished age 3+ biomass (millions mt)	7.832	NA	
Unfished recruitment (R_0 , billions)	4.974	4.536 – 5.447	
Spawning stock biomass at MSY (SB_{msy})*	1.06	0.96 – 1.14	
Basis for SB_{msy}	$F_{40\%}$ proxy	NA	
SPR_{msy} *	40.0%	33.2%-46.7%	
Basis for SPR_{msy}	$F_{40\%}$ proxy	NA	
Exploitation rate corresponding to SPR_{msy} *	24.6%	NA	
MSY* (mt)	573,945	521,122 – 619,501	
Alternative Model			
Quantity			
Unfished spawning stock biomass (SB_0 , millions mt)	4.287	3.764 – 4.810	
Unfished total biomass (B_0 , millions mt)	10.333	NA	
Unfished age 3+ biomass (millions mt)	8.804	NA	
Unfished recruitment (R_0 , billions)	5.593	4.955 - 6.313	
Spawning stock biomass at MSY (SB_{msy})*	1.191	1.041 - 1.310	
Basis for SB_{msy}	$F_{40\%}$ proxy	NA	
SPR_{msy} *	40.0%	33.2%-46.7%	
Basis for SPR_{msy}	$F_{40\%}$ proxy	NA	
Exploitation rate corresponding to SPR_{msy} *	24.6%	NA	
MSY* (mt)	645,240	566,830 - 712,848	

INTRODUCTION

This assessment was undertaken in the spirit and intent of the “Agreement between the Government of the United States and the Government of Canada on Pacific Hake/Whiting”, signed at Seattle, Washington, on November 21, 2003. Under this agreement, pending ratification as part of the reauthorization of the Magnuson-Stevens Act by Congress, Pacific hake (a.k.a. Pacific whiting) stock assessments are to be prepared by the Hake Technical Working Group comprised of U.S. and Canadian scientists and reviewed by a Scientific Review Group (SRG), with memberships as appointed by both parties to the agreement. While these entities have not been formally established, the current assessment was cooperatively prepared and reviewed as outlined in this agreement. As background, separate Canadian and U.S. assessments were submitted to each nation’s assessment review process prior to 1997. In the past, this practice has resulted in differing yield options being forwarded to each country’s managers for this single, yet shared trans-boundary fish stock. Multiple interpretations of Pacific hake status made it difficult to coordinate overall management policy. To address this problem, the working group agreed in 1997 to present scientific advice in a single collaborative assessment, while that agreement was officially formalized in 2003. To further advance the coordination of scientific advice on Pacific hake, this report was submitted to a joint Canada-U.S. SRG for technical review in fulfillment of the agreement and to satisfy management responsibilities of both the U.S. Pacific Fisheries Management Council (PFMC) and the Canadian Pacific Stock Assessment Review Committee (PSARC). The Review Group meeting was held in Seattle, WA at the Northwest Fisheries Science Center, during Feb 6-10, 2006. While this report forms the basis for scientific advice to managers, final advice on appropriate yield is deferred to Canadian DFO managers by the PSARC Groundfish Sub-committee and the PSARC Steering Committee and to the U.S. Pacific Fisheries Management Council by the Groundfish Management Team.

Stock Structure and Life History

Pacific hake (*Merluccius productus*), also referred to as Pacific whiting, is a codlike species distributed along the west coast of North America generally ranging from 25° N. to 51° N. latitude. It is among about 11 other species of hakes from the genus, *Merlucciidae*, which are distributed worldwide in both hemispheres of the Atlantic and Pacific Oceans and collectively constitute nearly two million mt of catch annually (Alheit and Pitcher 1995). The coastal stock of Pacific hake is currently the most abundant groundfish population in the California Current system. Smaller populations of this species occur in the major inlets of the North Pacific Ocean, including the Strait of Georgia, Puget Sound, and the Gulf of California. Electrophoretic studies indicate that Strait of Georgia and the Puget Sound populations are genetically distinct from the coastal population (Utter 1971). Genetic differences have also been found between the coastal population and hake off the west coast of Baja California (Vrooman and Paloma 1977). The coastal stock is distinguished from the inshore populations by larger body size, seasonal migratory behavior, and a pattern of low median recruitment punctuated by extremely large year classes.

The coastal stock of Pacific hake typically ranges from the waters off southern California to Queen Charlotte Sound. Distributions of eggs, larvae, and infrequent observations of spawning aggregations indicate that Pacific hake spawning occurs off south-central California during January-March. Due to the difficulty of locating major offshore spawning concentrations, details of spawning behavior of hake remains poorly understood (Saunders and McFarlane 1997). In spring, adult Pacific hake migrate onshore and to the north to feed along the continental shelf and slope from northern California to Vancouver Island. In summer, Pacific hake form extensive midwater aggregations in association with the continental shelf break, with highest densities located over bottom depths of 200-300 m (Dorn et al. 1994). Pacific hake feed on euphausiids, pandalid shrimp, and pelagic schooling fish (such as eulachon and Pacific herring) (Livingston and Bailey 1985). Larger Pacific hake become increasingly piscivorous, and Pacific herring are commonly a large component of hake diet off Vancouver Island. Although Pacific hake are cannibalistic, the geographic separation of juveniles and adults usually prevents cannibalism from being an important factor in their population dynamics (Buckley and Livingston 1997).

Older (age 5+), larger, and predominantly female hake exhibit greatest northern migration each season. During El Niño events, a larger proportion of the stock migrates into Canadian waters, apparently due to intensified northward transport during the period of active migration (Dorn 1995). Range extensions to the north also occur during El Niño conditions, as evidenced by reports of hake from southeast Alaska during these warm water years. Throughout the warm period experienced in 1990s, there have been changes in typical patterns of hake distribution: Spawning activity has been recorded north of California, and frequent reports of unusual numbers of juveniles from Oregon to British Columbia suggest that juvenile settlement patterns have also shifted northwards in the late 1990s. Because of this shift, juveniles may be subjected to increased predation from cannibalism and to increased vulnerability to fishing mortality. Subsequently, La Niña conditions apparently caused a southward shift in the center of the stock's distribution and a smaller portion of the population was found in Canadian waters in the 2001 survey.

Fisheries

The fishery for the coastal population of Pacific hake occurs primarily during April-November along the coasts of northern California, Oregon, Washington, and British Columbia. The fishery is conducted almost exclusively with midwater trawls. Most fishing activity occurs over bottom depths of 100-500 m, but offshore extensions of fishing activity have occurred. The history of the coastal hake fishery is characterized by rapid changes brought about by the development of foreign fisheries in 1966, joint-venture fisheries in the early 1980's, and domestic fisheries in 1990's (Fig. 1).

Large-scale harvesting of Pacific hake in the U.S. zone began in 1966 when factory trawlers from the former Soviet Union began targeting Pacific hake. During the mid 1970's, factory trawlers from Poland, Federal Republic of Germany, the former German Democratic Republic and Bulgaria also participated in the fishery. During 1966-1979, the catch in U.S.

waters averaged 137,000 t per year (Table 1). A joint-venture fishery was initiated in 1978 between two U.S. trawlers and Soviet factory trawlers acting as mother ships (the practice where the catch from several boats is brought back to the larger, slower ship for processing and storage until the return to land). By 1982, the joint-venture catch surpassed the foreign catch. In the late 1980's, joint-ventures involved fishing companies from Poland, Japan, former Soviet Union, Republic of Korea and the People's Republic of China. In 1989, the U.S. fleet capacity had grown to a level sufficient to harvest the entire quota, and no foreign fishing was allowed. In contrast, Canada allocates a portion of the Pacific hake catch to joint-venture operations once shore-side capacity is filled.

Historically, the foreign and joint-venture fisheries produced fillets and headed and gutted products. In 1989, Japanese mother ships began producing surimi from Pacific hake, using a newly developed process to inhibit myxozoan-induced proteolysis. In 1990, domestic catcher-processors and mother ships entered the Pacific hake fishery in the U.S. zone. Previously, these vessels had engaged primarily in Alaskan pollock fisheries. The development of surimi production techniques for walleye pollock was expanded to include Pacific hake as a viable alternative. In 1991, the joint-venture fishery for Pacific hake ended because of the increased level of participation by domestic catcher-processors and mother ships, and the growth of shore-based processing capacity. Shore-based processors of Pacific hake had been constrained historically by a limited domestic market for Pacific hake fillets and headed and gutted products. The construction of surimi plants in Newport and Astoria, Oregon led to a rapid expansion of shore-based landings in the U.S. fishery in the early 1990's.

The sectors involved in the Pacific hake fishery in Canada exhibits a similar pattern, although phasing out of the foreign and joint-venture fisheries has lagged a few years relative to the U.S. Since 1968, more Pacific hake have been landed than any other species in the groundfish fishery on Canada's west coast (Table 1). Prior to 1977, the fishing vessels from the former Soviet Union caught the majority of Pacific hake in the Canadian zone, with Poland and Japan accounting for much smaller landings. Since declaration of the 200-mile extended fishing zone in 1977, the Canadian fishery has been divided into shore-based, joint-venture, and foreign fisheries. In 1990, the foreign fishery was phased out, but the demand of Canadian shore-based processors remains below the available yield, thus the joint-venture fishery will continue through 2002. Poland is the only country that participated in the 1998 joint-venture fishery. The majority of the shore-based landings of the coastal hake stock is processed into surimi, fillets, or mince by processing plants at Ucluelet, Port Alberni, and Delta, British Columbia. Small deliveries were made in 1998 to plants in Washington and Oregon. Although significant aggregations of hake are found as far north as Queen Charlotte Sound, in most years the fishery has been concentrated below 49° N latitude off the south coast of Vancouver Island, where there are sufficient quantities of fish in proximity to processing plants.

Management of Pacific hake

Since implementation of the Magnuson-Stevens Fishery Conservation and Management Act in the U.S. and the declaration of a 200-mile fishery conservation zone in Canada in the late

1970's, annual harvest quotas have been the primary management tool used to limit the catch of Pacific hake. Scientists from both countries have historically collaborated through the Technical Subcommittee of the Canada-US Groundfish Committee (TSC), and there have been informal agreements on the adoption of annual fishing policies. During the 1990s, however, disagreements between the U.S. and Canada on the allotment of the acceptable biological catch (ABC) between U.S. and Canadian fisheries lead to quota overruns; 1991-1992 quotas summed to 128% of the ABC, while in 1993-1999 the combined quotas were 107% of the ABC on average. The 2002 and 2003 fishing year were somewhat different from years past in that the ABC of Pacific hake was utilized at an average of 87%. In the signed Pacific hake agreement between the United States and Canada 73.88% and 26.12%, respectively, of the coastwide allowable biological catch is to be allocated between the two countries. Furthermore, the agreement establishes a Joint Technical Committee to exchange data and conduct stock assessments, which will be reviewed by a Scientific Review Group. This document represents the efforts of the aborning joint US-Canada Technical Committee.

United States

Prior to 1989, catches in the U.S. zone were substantially below the harvest guideline, but since 1989 the entire harvest guideline has been caught with the exceptions in 2000, 2001 and 2003, in which 90%, 96% and 96% of the quota were taken, respectively. The total U.S. catch has not significantly exceeded the harvest guideline for the U.S. zone (Table 2), indicating that in-season management procedures have been effective.

In the U.S. zone, participants in the directed fishery are required to use pelagic trawls with a codend mesh that is at least 7.5 cm (3 inches). Regulations also restrict the area and season of fishing to reduce the bycatch of Chinook salmon, and several depleted rockfish stocks. More recently, yields in the U.S. zone have been restricted to level below optimum yields due to widow rockfish bycatch in the Pacific hake fishery. At-sea processing and night fishing (midnight to one hour after official sunrise) are prohibited south of 42° N latitude. Fishing is prohibited in the Klamath and Columbia River Conservation zones, and a trip limit of 10,000 pounds is established for Pacific hake caught inside the 100-fathom contour in the Eureka INPFC area. During 1992-95, the U.S. fishery opened on April 15, however in 1996 the opening date was advanced to May 15. Shore-based fishing is allowed after April 1 south of 42° N. latitude., but is limited to 5% of the shore-based allocation being taken prior to the opening of the main shore-based fishery. The main shore-based fishery opens on June 15. Prior to 1997, at-sea processing was prohibited by regulation when 60 percent of the harvest guideline was reached. The current allocation agreement, effective since 1997, divides the U.S. non-tribal harvest guideline between factory trawlers (34%), vessels delivering to at-sea processors (24%), and vessels delivering to shore-based processing plants (42%).

Shortly after the 1997 allocation agreement was approved by the PFMC, fishing companies with factory trawler permits established the Pacific Whiting Conservation Cooperative (PWCC). The primary role of the PWCC is to allocate the factor trawler quota between its members. Anticipated benefits of the PWCC include more efficient allocation of

resources by fishing companies, improvements in processing efficiency and product quality, and a reduction in waste and bycatch rates relative to the former “derby” fishery in which all vessels competed for a fleet-wide quota. The PWCC also initiated recruitment research to support hake stock assessment. As part of this effort, PWCC sponsored a juvenile recruit survey in summer of 1998 and 2001, which since 2002 is presently ongoing in collaboration and support by NMFS.

Canada

The Canadian Department of Fisheries and Oceans (DFO) is responsible for managing the Canadian hake fishery. Prior to 1987, the quota was not reached due to low demand for hake. In subsequent years the quota has been fully subscribed, and total catch has been successfully restricted to $\pm 5\%$ of the quota (Table 2).

Domestic requirements are given priority in allocating yield between domestic and joint-venture fisheries. During the season, progress towards the domestic allocation is monitored and any anticipated surplus is re-allocated to the joint-venture fishery. The Hake Consortium of British Columbia coordinates the day-to-day fleet operations within the joint-venture fishery. Through 1996, the Consortium split the available yield equally among participants or pools of participants. In 1997, an Individual Vessel Quota (IVQ) system was implemented for the British Columbia trawl fleet. IVQs of Pacific hake were allotted to license holders based on a combination of vessel size and landing history. Vessels are permitted to deliver Joint-venture hake quota to domestic shore-side processors. However, vessels are not permitted to deliver domestic allocation to Joint-venture/processor operations at sea. There is no direct allocation to individual shoreside processors. License holders declare the proportion of their hake quota that will be landed in the domestic market, and shoreside processors must secure catch from vessel license holders.

Overview of Recent Fishery and Management

United States

The coastwide acceptable biological catch (ABC) for 2004 was estimated to be 514,441 mt based on the F_{msy} proxy harvest rate of F40% applied to the model in which acoustic survey catchability (q) was assumed to be 1.0 (Helser et al. 2004). This was the largest ABC in recent years and reflected substantial increases in biomass (above 40% unfished biomass) due to the presence of the strong 1999 year-class. The final commercial US optimum yield (OY) was set at 250,000 mt due to constraints imposed by bycatch of canary and widow rockfish in the hake fishery. The Makah tribe was allocated 32,500 mt in 2004. For the 2005 fish season, the coastwide OY was estimated to be 364,197 mt, with 269,069 mt apportioned to the U.S. fishery. The 2005 OY was nearly 100% utilized.

The at-sea sector’s distribution of catch in 2004 ranged slightly stronger northward with roughly 50% of the catch occurring north and south of Newport, Oregon (Fig. 2). The total at sea sector harvested approximately 43% (90,200 mt) of the total U.S. catch of 210,400 mt. In

2005, at sea catches extended from south of Cape Blanco to Cape Flattery, with nearly even distribution north and south of Newport.

The shore-based sector harvested 46% (96,200 mt) of the total U.S. catch of 210,400 mt in 2004. As in previous years, the dominate ports were Newport (38,800 mt) followed by Westport (30,000 mt) and Astoria (16,000 mt). The 2005 shore-based fishery began on June 15 and ended on August 18, and utilized approximately 94% of the commercial optimum yield of 97,469 mt.

Since 1996, the Makah Indian Tribe has conducted a separate fishing in its "usual and accustomed fishing area." During the 2004 and 2005 fishing season, the distribution of Pacific hake provided favorable conditions to support the fishery in the Makah tribal fishing area; where the Makahs harvested approximately 74% (24,000 mt) of the Tribal allocation and 11% of total US catch in 2004. The 2005 Makah fishery, which began on May 1 and ended on August 15, utilized 28,325 mt, (approximately 81% of the 35,000 mt allocation).

Canada

DFO managers allow a 15% discrepancy between the quota and total catch. The quota may be exceeded by up to 15% in any given year, which is then deducted from the quota for the subsequent year. Conversely, if less than the quota is taken, up to 15% can be carried over into the next year. For instance, the overage in 1998 (Table 2) is due to carry-over from 1997 when 9% of the quota was not taken. During 1999-2001 the PSARC groundfish subcommittee recommended to DFO managers yields based on F40% (40-10) option and Canadian managers adopted allowable catches prescribed at 30% of the coastwide ABC (Table 14; Dorn et al. 1999).

The all-nation catch in Canadian waters was 53,585 mt in 2001, up from only 22,401 mt in 2000 (Table 1). In 2000, the shore-based landings in the Canadian zone hit a record low since 1990 due to a decrease in availability. Catches in 2001 increased substantially over those of 2000 for both the Joint Venture and shore-based sectors over catches in 2000, but were still below recommended TAC. Total Canadian catches in 2002 and 2003 were 50,769 mt and 62,090 mt, respectively, and were harvested exclusively by the shore-side sector; constituting nearly 87% of the total allocation of that country. In 2004, the allowable catch in Canada was 26.14% of the coastwide ABC, approximately 134,000 mt. Catches were nearly split equally between the shore-based and joint venture sectors, totaling 124,000 mt. Canadian Pacific hake catches were fully utilized in the 2005 fishing season with 85,284 mt and 15,178 mt taken by the Domestic and Joint Venture fisheries, respectively.

ASSESSMENT

Modeling Approaches

Age-structured assessment models have been used to assess Pacific hake since the early 1980's. Modeling approaches have evolved as new analytical techniques have been developed.

Initially, a cohort analysis tuned to fishery CPUE was used (Francis et al. 1982). Later, the cohort analysis was tuned to NMFS triennial acoustic survey estimates of absolute abundance at age (Hollowed et al. 1988a). Since 1989, a stock synthesis model that utilizes fishery catch-at-age data and acoustic survey estimates of population biomass and age composition has been the primary assessment method (Dorn and Methot, 1991). Dorn et al. (1999) converted the age-structured stock synthesis Pacific hake model to an age-structured model using AD model builder (Fournier 1996). AD model builder's post-convergence routines permit calculation of standard errors (or likelihood profiles) for any quantity of interest, allowing for a unified approach to the treatment of uncertainty in estimation and forward projection. Since 2001, Helser et al. (2001, 2003, 2004) have used the same ADMB modeling platform to assess the hake stock and examine important modifications and assumptions, including the time varying nature of the acoustic survey selectivity and catchability. The acoustic survey catchability coefficient (q) has been, and continues to be, one of the major sources of uncertainty in the model. Due to the lengthened acoustic survey biomass trends the assessment model was able to freely estimate the acoustic survey q . These estimates were substantially below the assumed value of $q=1.0$ from earlier assessments. The 2003 and 2004 assessment presented uncertainty in the final model result as a range of biomass. The lower end of the biomass range was based upon the conventional assumption that the acoustic survey q was equal to 1.0, while the higher end of the range represented a $q=0.6$ assumption.

This year's assessment used the Stock Synthesis modeling framework (SS2 Version 1.21, December, 2006) which was written by Dr. Richard Methot (Northwest Fisheries Science Center) in AD Model Builder. Conversion of the previous hake model into SS2 was guided by three principles: 1) the incorporation of less derived data, 2) explicitly model the underlying hake growth dynamics, and 3) achieve parsimony² in terms on model complexity. "Incorporating less derived data" entailed fitting observed data in their most elemental form. For instance, no pre-processing to convert length data to age compositional data was performed. Also, incorporating conditional age-at-length data, through age-length keys for each fishery and survey, allowed explicit estimation of expected growth, dispersion about that expectation, and its temporal variability, all conditioned on selectivity. Our final goal was to achieve parsimony of model complexity without loss of performance in maximum likelihood estimation. We assess this goal through a combination of diagnostics, convergence criteria and comparative analysis with MCMC integration.

Data Sources

The data used in the stock assessment model included:

- Total catch from the U.S. and Canadian fisheries (1966-2005).

² Parsimony is a balance between the number of parameters needed to represent a complex state of nature and data quality/quantity to support accurate and precise estimation of those parameters.

- Length compositions from the U.S. fishery (1975-2005) and Canadian fishery (1988-2005).
- Age compositions from the U.S. fishery (1973-1974) and Canadian fishery (1977-1987). These are the traditional age compositional data generated by applying fishery length compositions to an age-length key. Use of this approached was necessary to fill in gaps for those years in which biological samples could not be re-acquired from standard procedures.
- Conditional age-at-length compositions from the U.S. fishery (1975-2005) and Canadian fishery (1988-2005).
- Biomass indices, length compositions and conditional age-at-length composition data from the Joint US-Canadian acoustic/midwater trawl surveys (1977, 1980, 1983, 1986, 1989, 1992, 1995, 1998, 2001, 2003, and 2005). Note: the 1986 acoustic survey biomass index was omitted due to transducer and calibration problems.
- Indices of young-of-the-year abundance from the Santa Cruz Laboratory larval rockfish surveys (1986-2005). In this, as in the previous 2001 and 2003 assessment, the Santa Cruz Laboratory indices of young-of-the-year abundance were used as an age-2 tuning index for stock reconstruction and for future projections (two years out from the terminal year in the assessment, i.e. 2003 and 2004).

As in the previous hake model, the U.S. and Canadian fisheries were modeled separately. The model also used biological parameters to estimate spawning and population biomass to obtain predictions of fishery and survey biomass from the parameters estimated by the model. These parameters were:

- Proportion mature at length (not estimated in model).
- Population allometric growth relationship, as estimated from the acoustic survey (not estimated in model).
- Initial estimates of growth including CVs of length at age for the youngest and oldest fish (estimated in model).
- Natural mortality (M , not estimated in model).

Total catch

Table 1 lists the catch of Pacific hake for 1966-2005 by nation and fishery. Catches in U.S. waters for 1966-1980 are from Bailey et al. (1982). Prior to 1977, the at-sea catch was

reported by foreign nationals without independent verification by observers. Bailey et al. (1982) suggest that the catch from 1968 to 1976 may have been under-reported because the apparent catch per vessel-day for the foreign fleet increased after observers were placed on foreign vessels in the late 1970's. For 1981-2005, the shore-based landings are from Pacific Fishery Information Network (PacFIN). Foreign and joint-venture catches for 1981-1990, and domestic at-sea catches for 1991-2005 are estimated by the North Pacific Groundfish Observer Program (NPGOP).

At-sea discards are included in the foreign, joint-venture, at-sea domestic catches in the U.S. zone. Discards have not been estimated for the shore-based fishery. The majority of vessels in the U.S. shore-based fishery operate under experimental fishing permits that require them to retain all catch and bycatch for sampling by plant observers. Canadian joint-venture catches are monitored by at-sea observers, which are placed on all processing vessels. Observers use volume/density methods to estimate total catch. Domestic Canadian landings are recorded by dockside monitors using total catch weights provided by processing plants. Catch data from Canadian JV and domestic fisheries were provided by Greg Workman (DFO, Pacific Biological Station, Nanaimo, B.C.).

Fishery-dependent Data

Since the SS2 model uses length compositions and conditional age-at-length compositions, a complete reconstruction of these data inputs was required. Biological information from the U.S. at-sea commercial Pacific hake fishery was extracted from the NORPAC database management system maintained at the Alaska Fisheries Science Center. A query of length, weight and age information yielded biological samples from the Foreign and Joint Venture fisheries from 1975-1990, and from the domestic at sea fishery from 1991-2005. Specifically these data included sex-specific length and age data collected at the haul level by observers, where random samples of fish lengths from a known sampled haul weight and otoliths are then collected on a length-stratified basis. Detailed sampling information including the numbers of hauls sampled, lengths collected, and otoliths aged in the Foreign, JV and domestic at-sea fisheries are presented in Table 2.

Biological samples from the U.S. shore-based fishery were collected by port samplers from ports with substantial landings of Pacific hake: primarily Newport, Astoria, Crescent City, and Westport, from 1991-2005. Port samplers routinely take one sample per offload or trip in the port consisting of 100 randomly selected fish for individual length and weight, and 20 random samples per offload for otolith extraction and subsequent aging. It should be noted that the sampling unit here is the trip rather than the haul as in the case of the at-sea fishery. Since detailed haul-level information is not recorded on trip landings documentation in the shore-based fishery, and hauls sampled in the at-sea fishery can not be aggregated to a comparable trip level, there is no least common denominator for aggregating at-sea and shore-based fishery samples. As a result, samples sizes were simply summed over hauls and trips for U.S. fishery length- and age-compositions, however each fishery was weighted according to the proportion of its catch.

The Canadian domestic shore-based fishery is subject to 10% observer coverage. On observed trips, an otolith sample is taken from the first haul of the trip with associated length information, followed by length samples on subsequent hauls. For unobserved trips, port samplers obtain biological data from the landed catch. Observed domestic haul-level information is then aggregated to the trip level to be consistent with the unobserved trips that are sampled in ports. Sampled weight of the catch from which biological information is collected must be inferred from year-specific length-weight relationships. Canadian domestic fishery biological samples were only available from 1996-2005, and detailed sampling information is presented in Table 3.

For the Canadian at-sea Joint Venture fishery, an observer aboard the factory ship records the codend weight for each codend transferred from companion catcher boats. However, length samples are only collected every second day of fishing operations, and an otolith sample is only collected once a week. Length and age samples are taken randomly from a given codend. Since sample weight from which biological information is taken is not recorded, sample weight must be inferred from a weight-length relationship applied to all lengths taken and summed over haul. Length and age information was only available from the Joint Venture fishery from 1988-2005. As in the case with the U.S. at-sea fishery, the basic sampling unit in the Canadian Joint Venture fishery is assumed to be a haul. Detailed sampling information for the Canadian Joint Venture fishery is also presented in Table 3.

The length and age data were analyzed based on the sampling protocols used to collect them, and expanded to estimate the corresponding statistic from entire landed catch by fishery and each year that sampling occurred. In general, the analytic steps can be summarized as follows:

- 1) Count lengths (or ages) in each size (or age) bin (1 cm/year) for each haul in the at-sea fishery and for each trip in the shore-based fishery, generating “raw” frequency data.
- 2) Expand the raw frequencies from the haul or trip level to account for the catch weight sampled in each trip.
- 3) Expand the summed frequencies by fishery sector to account for the total landings.
- 4) Calculate sample sizes (number of samples and number of fish within sample) and normalize to proportions that sum to unity within each year.

To complete step (2), it was necessary to derive a multiplicative expansion factor for the observed raw length frequencies of the sample. This expansion factor was calculated for each sample corresponding to the ratio of the total catch weight in a haul or trip divided by the total sampled weight from which biological samples were taken within the haul or trip. In some cases, where there was not an estimated sample weight (more common in the Canadian domestic shore-based trips), a predicted weight of the sample was computed by applying a year-specific length-weight relationship to each length in the sample, then summing these weights. Anomalies that could emerge where very small numbers of fish lengths were collected from very large landings were avoided by constraining expansion factors to not exceed the 95th percentile of all

expansion factors calculated for each year and fishery. The expanded lengths (N at each length times the expansion factor for the sample) were then summed within each fishery sector, and then weighted a second time by the relative proportion of catches by fishery within each year and nation. Finally, the year-specific length frequencies were summed over fishery sector and normalized so that the sum of all lengths in a single year and nation was equal to unity.

Tables 4 and 5 provide a detailed sampling summary, by fishery and nation, including the number of unique samples (hauls in the JV fishery and trips in the domestic fishery) by year and other sampling metrics of the relative efficiency of sample effort. Ultimately, the total sample size (# samples) by year is the multinomial sample size included in the stock assessment model. In both the U.S. and Canada, at-sea biological samples are collected at the haul level while shore-based samples are collected at the trip level. Tables 4 and 5 provide comparisons of sampling levels relative to the total sector catches in each country. In recent U.S. fisheries, between 9% and 16% of all shore-based catch has been sampled, compared to 40% to 60% of the at-sea catch. In both cases, fraction sampled has increased over time. Between 2000 and 2005, a sample was taken, on average, once per 575 mt of hake caught in the shore-based fishery, compared to once per 45 mt of catch in the at-sea fishery. Sample sizes for conditional age at length compositions for the U.S. and Canadian fisheries are given in Tables 6 and 7, respectively.

U.S. fishery length compositions representing fish caught in both the at-sea and shore-based fisheries are shown in Figures 3 and 4. It should be noted that there are some differences in the length compositions between the at sea and shore-based domestic fisheries, suggesting that future attempts should be made to model them separately. In general, the composite U.S. fishery length compositions confirm the well known pattern of year class strengths, including the dominant 1980 and 1984 and secondary 1970, 1977 and 1999 year classes moving through the size structure (Figure 4). These relationships suggest that the sizes of hake which are vulnerable to the U.S. fishery have changed over time, possibly due to growth, selectivity or both. This is particularly evident as larger fish before 1990 and a shift to smaller fish between 1995 and 2000. These features will be explored within the population dynamics model.

As with the U.S. fleet sectors, differences in length compositions between the Canadian Joint-venture and domestic fleets among some years warrant exploration of fitting the fisheries separately. This however was not done in this assessment due to time limitations. The composite Canadian fishery length compositions (Figures 5 and 6) indicate that the Canadian fleets exploit larger and presumably older hake. A particularly interesting feature of these length compositions is that the Canadian fleet prosecuted a seemingly fast growing 1994 year class of hake in 1995 (age 1), 1996 (age 2) and subsequent years. It is unclear whether this is due to size-vs. age-based selectivity, however, it is well known that larger (and older) hake migrate further northward annually (Dorn, 1995). As in the U.S. fishery, Canadian length compositions show some temporal pattern in the range of fish exploited by the fishery (Figure 6).

U.S. and Canadian fishery conditional age-at-length compositions constitute the bulk of data in this assessment and provide information on recruitment strength, growth and growth

variability. These data are shown graphically for the U.S. fishery from 1975-2005 and from 1988-2005 for the Canadian hake fishery in Figures 7 and 8, respectively. Since age-composition data used in the old hake assessment extended further back in time than the conditional age-at-length data generated here, the older data were also included in the assessment model to augment information on recruitment earlier in the time series and are shown in Figure 9.

Acoustic Survey (Biomass, length and age composition)

Integrated acoustic and trawl surveys, used to assess the distribution, abundance and biology of coastal Pacific hake, *Merluccius productus*, along the west coasts of the United States and Canada. The Pacific Biological Station (PBS) of the Canadian Department of Fisheries and Oceans (DFO) has conducted annual surveys along the Canadian west coast since 1990. From 1977-2001, surveys in U.S. waters were conducted triennially by Alaska Fisheries Science Center (AFSC). The triennial surveys in 1995, 1998, and 2001 were carried out jointly by AFSC and PBS. Following 2001, the responsibility for the US portion of the survey was transferred to the Fishery Resource Analysis and Monitoring (FRAM) Division of NOAA's Northwest Fisheries Science Center (NWFSC). Following the transfer, the survey was scheduled on a bi-annual basis, with joint acoustic surveys conducted by FRAM and PBS in 2003 and 2005.

The 2005 survey was conducted jointly by US and Canadian science teams aboard the NOAA vessel *Miller Freeman* from 20 June to 19 August, spanning the continental slope and shelf areas the length of the West Coast from south of Monterey California (35.7° N) to the Dixon Entrance area (54.8° N). A total of 106 line transects, generally oriented east-west and spaced at 10 or 20 nm intervals, were completed (Figure 10). During the 2005 acoustic survey, aggregations of coastal Pacific hake were detected as far south as 37° N (Monterey Bay) and extending nearly continuously to the furthest northerly area surveyed at Dixon Entrance. Areas of prominent concentrations of hake included the waters off Point Arena (ca. 39° N) and north of Cape Mendocino, California (ca. 41° N), in the area south of Heceta Bank, Oregon (ca. 44° N), the waters spanning the US-Canadian border off Cape Flattery and La Perouse Bank (ca. 48.5° N), and locally within Queen Charlotte Sound (ca. 51° N). Mid-water and bottom trawls, deployed to verify size and species composition and collect biological information (i.e., age composition, sex), found that smaller individuals - age-2 fish - were prevalent in the southern portion of their range, but the coastal Pacific hake stock continued to be dominated by representatives of the 1999 year-class (age 6) throughout most of their range, except for the occurrence of numbers of larger Pacific hake in the north.

As with the fishery data, acoustic survey length and conditional age compositions were used to reconstruct the age structure of the hake population. In general, biological samples taken by midwater trawls were post-stratified based on geographic proximity and similarity in size composition. Each sample was given equal weight without regard to the total catch weight. The composite length frequency was then used for characterizing the hake distribution along each particular transect and were the basis for predicting the expected backscattering cross section for Pacific hake based on the fish size-target strength relationship $TS_{db} = 20\log L - 68$ (Traynor

1996.). Estimates of numbers (or biomass) of hake at length (or age) for individual cells were summed for each transect to derive a coast-wide estimate. Details of this procedure can be found in Fleischer et al. (2005).

Acoustic survey sampling information including the number of hauls, numbers of length taken and hake aged are provided in Tables 8 and 9. The 2005 acoustic survey size composition shows a dominate peak at 45 cm indicating the persistence of the 1999 year class in the population (Figure 11). A secondary peak around 33 cm suggests the potential of a 2003 year class. Model structure in the size compositions of the previous acoustic surveys also confirm the dominant 1980 and 1984 year classes present in the mid-1980s to early 1990s. Proportions at size are given in Figure 12 and conditional age-at-length proportions are shown in Figure 13.

Based on the estimates from the acoustic survey, Pacific hake biomass has declined by 32% from 1.8 million mt in 2003 to 1.26 million mt in 2005 (Table 10). In general, acoustic survey estimates of biomass indicate that the hake population has varied with little trend since the first survey in 1977 to the most recent in 2005 survey (Figure 14). Error bars shown around point estimates of biomass are not estimated but rather assumed based on reliability of the survey in a given year and are used as input in SS2 (CV=0.5 1977-1989, CV=0.25 1992-2005). It should be noted that while shown in this plot the 1986 acoustic survey biomass estimate is not used in the assessment due to transducer calibration problems during survey operations that year (The decision to omit this data point was made during the 2003 STAR panel review).

Aging Error

Since aging Pacific hake was transferred to the Northwest Fisheries Science Center in 2001, an effort was made to cross-calibrate age reader agreement. Cross-calibration was performed on a total of 197 otoliths from the 2003 acoustic survey between the Northwest Fisheries Science Center (NWFSC) and Department of Fisheries and Oceans (DFO). Overall agreement between NWFSC/DFO was 50%, and for ages assigned that were aged within one and two years, the agreement was 86% and 96%, respectively. As would be expected, agreement between the three labs was better for younger fish than for older fish. These cross-calibration results were somewhat better than 2001 comparisons between NWFSC/DFO, but poorer than 1998 comparisons between AFSC (Alaska Fishery Science Center) and DFO. It should be noted, however, that agreement between two age readers at NWFSC was closer to 87%, with 98% agreement within one year of age. Agreement for ages 3-4 and ages 5-7 was 82% and 40%, respectively, for NWFSC between reader comparisons, with similar results for NWFSC/DFO comparisons. Also, when ages did not agree between the three labs, the NWFSC tended to assign older ages than DFO. Additional comparisons are needed to further calibrate ageing criteria between agencies. For the present model, aging error has not been included.

Pre-recruit surveys

The Santa Cruz Laboratory (SCL) of NOAA's Southwest Fisheries Science Center has conducted annual surveys since 1983 to estimate the relative abundance of pelagic juvenile

rockfish off central California. Although not specifically designed to sample juvenile hake, young-of-the-year hake appear frequently in the midwater trawl catches. In this assessment, as in the previous assessments, this survey is used to produce a tuning index for recruitment to age-2 (Table 11, Figure 15). This index was created using a generalized linear model (GLM) fit to the log-transformed CPUEs (Ralston et al. 1998; Sakuma and Ralston 1996). Specifically, the year effect from the GLM was back-transformed to obtain an index of abundance. Only the Monterey outside stratum was used because of its higher correlation with hake recruitment. Also, Dorn et al. (1999) showed that the juvenile index was significantly correlated to the predicted recruitment two years later in the stock assessment model. The index in 1999 suggested that age-2 recruitment in 2001 may be above average, which has largely been confirmed by other data sources, such as numbers at age in the fishery catches and acoustic surveys. The 2003 juvenile index, representing recruitment in 2005, is among the lowest observed since 1986. As will be discussed below, the Pacific Whiting Conservation Cooperative (PWCC)/NWFSC recruit survey shows a marked contrast to the 2003 survey index. The two most recent index values, in 2004 and 2005, suggest an above average year class in 2006 and very low year class in 2007. The general magnitude of these forecast indexes are consistent with those from the PWCC/NWFSC pre-recruit survey. The Santa Cruz series average CV, estimated from the GLM, was calculated to be approximately 0.50. Relative accuracy of the Santa Cruz and PWCC/NWFSC pre-recruit surveys will be evaluated in future work. It should be noted that comparative analyses with SS2 and the previous hake model lagged the index forward two years and was used to index recruitment to age-2. Subsequent formulation of the base case model in SS2 used the log-abundance to index age-0 recruitment during the year in which the survey occurred.

The PWCC and NWFSC, in cooperation with the SCL, have been conducting an expanded survey of juvenile hake and rockfish relative abundance and distribution to include Oregon and California since 1999. This survey is an expansion of the SCL juvenile survey, which is conducted between Monterrey Bay and Pt. Reyes, California. Prior to 2001, results between the PWCC/NWFSC survey and the SCL survey were not comparable because of trawl gear differences. Since 2001, the gear has been comparable and side-by-side comparisons were made between the contracted vessel *Excalibur* and the NOAA vessel *David Starr Jordan*.

The cooperative PWCC/NWFSC pre-recruit survey uses a modified anchovy midwater trawl with an 86' headrope and ½" codend with a 1/4" liner was used to obtain samples of juvenile hake and rockfish. Trawling was done at night with the head rope at 30 m at a speed of 2.7 kt. Some trawls were made prior to dusk to compare day/night differences in catch. Trawl tows of 15 minutes duration at target depth were conducted along transects located at 30 nm intervals along the coast. Stations were located along each transect from 50m bottom depth seaward to 700 m with hauls taken over bottom depths of 50, 100, 200, 300, and 500 meters at each transect.

The PWCC/NWFSC Pacific hake pre-recruit survey results show an inconsistent trend in some years compared to the Santa Cruz survey over the same time period. The PWCC/ NWFSC survey indicates 2001 and 2002 abundance to be about the same magnitude , but 2003 to be

significantly higher. The SCL survey, on the other hand, suggests that the 2003 index to be the least abundant year class of the series, while the index for 2004 (after an extension of the range surveyed by SCL this year) is more consistent between the two surveys. However, until the effects on catch rate of the differences in geographic ranges of each survey can be established and a longer time series collected, it is difficult to interpret the implications for future abundance levels of a particular year class. As the year classes in question age and become selected by the fishery, their relative sizes will be established. The expansion of the hake recruitment index beyond the traditional SCL survey area raises questions about the inter-annual consistency of juvenile hake distribution. The results of the 2003, and particularly 2004 PWCC/ NWFSC survey shows a northward shift in the distribution of juveniles with peak numbers of age-0 found north of the Monterey index area in recent years. However, it is possible that the age-0 hake follow a set transport pattern, but vary temporally. If there is a temporal component there may be some evidence in age-0 daily growth or an environmental signal. With additional data, it may be possible to model and predict the distribution of young-of-the-year hake and improve the deployment of survey efforts.

Biological Parameters

Growth

There is a considerable amount of variability in the length-at-age data collected during the acoustic surveys since 1977. The process governing variation in growth may include effects from size-selective fishing, changes in size selectivity over time, and variation in growth rates over time. In order to explore alternative specifications for hake growth within SS2, we fit alternative growth models to the length-at-age data collected in the acoustic surveys (assuming size-selectivity in the acoustic surveys has been constant over time). The first of these models is a simple time-varying growth model, where the growth coefficient (k) is allowed to vary over time. This assumes that all extant cohorts are subject to time varying changes in the metabolic rates (presumably associated with changes in available food). This is the version of the growth model that is presently implemented in Stock Synthesis 2 (SS2). The second growth model assumes that growth is density-dependent. That is, the density of each cohort determines the overall growth rate and each cohort has its own asymptotic length. The third model is similar to the second model; however, in this case we assume the growth coefficient (k) is cohort specific. Details of this analysis are given in Appendix A.

Temporal variability in hake growth is shown in Figure 16 in terms of the observed lengths at age from the acoustic survey from 1977-2005. Of the 3 alternative growth models, the model with cohort specific l_2 values explains more of the variation in the length-age data versus the time varying k model and cohort k model (Figure 17). In particular, cohort based L2 begins relatively high (> 55 cm) prior to 1980 (Figure 22) and then appears to decline rapidly as the very large 1980 and 1984 year class grow. Expected size at age, based on the cohort based L2, parameter are above the expected size for the other models in the 1977, 1980, and 1983 survey data (Figure 16). Likewise, cohort based k declines rapidly between the mid 1970s and middle 1980s (Figure 17). It should be noted that these cohort based models do not assume the

cumulative affects of size-selective fisheries. To properly represent the cumulative affects of size-selective fisheries in this approach, the cohort based growth model should be integrated into the assessment model itself. This would provide a fruitful area of research for improving SS2. In this case it would not be necessary to use the conditional MLE for the numbers at age; this information could be provided from the stock assessment model itself. Since this feature is not currently implemented in SS2, blocks were created aggregating various years in which it was anticipated the cohort affects on growth would be manifested (See *Model Selection and Evaluation* below).

Size/Age at Maturity

Fraction mature by size was estimated using data from Dorn and Saunders (1997) with a logistic regression. These data consisted of 782 individual ovary collections based on visual maturity determinations by observers. The highest variability in the percentage of each length bin that was mature within an age group occurred at ages 3 and 4, with virtually all age-one fish immature and age 4+ hake mature. Within ages 3 and 4, the proportion of mature hake increased with larger sizes such that only 25% were mature at 31 cm while 100% were mature at 41 cm. Maturity in hake probably varies both as a function of length and age, however, for the purposes of parameterizing SS2 the logistic regression model was fit as a function of length. Maturity proportions by length are shown in Figure 18. Less than 10% of the fish smaller than 32 cm are mature, while 100% maturity is achieved by 45 cm.

Natural mortality

The natural mortality currently used for Pacific hake stock assessment and population modeling is 0.23. This estimate was obtained by tracking the decline in abundance of a year class from one triennial acoustic survey to the next (Dorn et. al 1994). Pacific hake longevity data, natural mortality rates reported for Merlucciids in general, and previously published estimates of Pacific hake natural mortality indicate that natural morality rates in the range 0.20-0.30 could be considered plausible for Pacific hake (Dorn 1996).

Model description

This assessment used the Stock Synthesis modeling framework written by Dr. Richard Methot at the NWFSC (SS2 Version 1.21). The Stock Synthesis application provides a general framework for the modeling fish stocks because the complexity of the population dynamics can be made commensurate with the data quantity and quality. In this regard, both complex and simple models were explored. The Pacific hake population is assumed to be a single coastwide stock along the Pacific coast of the United States and Canada. As in the previous model, sexes are combined in the current model in representing the underlying dynamics and in all data sources where this was possible: growth and fishery and survey size/age compositions. The accumulator age for the internal dynamics of the population was set at 15 years, well beyond the expectation of asymptotic growth. The length structure ranged from 20 cm to 70 cm. The years explicitly modeled were 1966-2005 (last year of available data). Initial population conditions

were assumed to be in equilibrium prior to the first year of the model. No initial fishing mortality was estimated and the spawning biomass was assumed equal to Bzero in 1966, preceding the advent of the distant water fleets during the mid-to-late 1960s. The level of hake removals prior to 1966 is unknown, but there were no directed commercial fisheries for hake until the arrival of foreign fleets in the mid to late 1960s.

The following narrative of the model structure is accompanied by the detailed parameter specifications and assumptions found in Table 12. The assessment model includes two national fisheries: US and Canadian trawl fisheries. Arguably, the U.S. at-sea and shore-based fisheries, as well as the Canadian JV and domestic fisheries could be modeled separately for reasons mentioned above. However, in this assessment each nation's fleets are combined and implicitly assumed to have the same selectivity patterns. The selectivity curves for the acoustic survey and the U.S. and Canadian fisheries are assumed to be dome-shaped and modeled as a function of age using the double logistic function (option 19 in SS2). Considerable discussion continues to be centered on asymptotic vs. dome-shaped selectivity for the acoustic survey: dome-shaped selectivity implies a greater proportion of older hake in the population than that observed in the survey. While this topic warrants more detailed analysis, preliminary work comparing the numbers at age in both the acoustic and bottom trawl surveys indicate empirical evidence in support of an acoustic survey selectivity that is dome-shaped (Figure 19). As will be discussed in greater detail below, a time-varying selectivity option for the U.S. and Canadian fisheries, in which the parameters are treated as a random walk process, was initially implemented as a means to provide a direct comparison between the previous hake model and SS2. While some of the fundamental underlying assumptions differed between these two modeling platforms, the specification of selectivity, survey catchability, recruitment deviations and growth parameters were tuned in as close as possible in order to confirm results of the basic population dynamic equations. The model specification in SS2 was then simplified in terms of reducing model complexity to achieve parsimony with the data. This reduced model is considered the base model.

For the base case model, as well as the previous model, instantaneous natural mortality (M) is assumed to be age- and time-independent and equal to 0.23 y^{-1} . The stock-recruitment function was a Beverton-Holt parameterization, with the log of mean unexploited recruitment estimated. When freely estimated, the steepness parameter was close to the upper limit of 1.0, thus implying that recruitment is independent of the level of spawning biomass. However, for this assessment steepness was assumed to be $h=0.75$ based on several meta-analyses of marine fish stocks (Myers et al. 1999, Myers et al. 2002). Year-specific recruitment deviations were estimated from 1967-2003. This structure was based upon inspection of year-specific standard deviations relative to the input value of σ_R .

The constraint and bias correction standard deviation, σ_R , is treated as a fixed quantity in SS2. Typically, the value is derived through an iterative process of adjusting the input value corresponding to the minimal difference between the root means square error (RMSE) of the predicted recruitment deviations and the input value. This ensures that the approximate bias-correction term would be appropriately and internally consistent for predicted

recruitments estimated in the model and projected forward in time. Initial models runs began with the value used in the previous hake model, $\sigma_R = 1.17$, but were iterated to 1.13. In addition, input sample sizes were iterated by examining the relationship between effective sample size estimated in the model and the observed input sample sizes.

Maturity of Pacific hake is assumed to have a logistic functional form, increasing sigmoidally to an asymptote as a function of size (Figure 20). Fecundity (spawning output) is assumed to be a function only of mass and equivalent in form to the maturity-at-length relationship. Individual growth is modeled for combined sexes and based on the von Bertalanffy growth function. All von Bertalanffy growth parameters, including the growth coefficient k , length at minimum age, length at maximum age (15 years old), CVs of size at age, as well as time blocks describing changes in some parameters, were estimated within the model. The explicit temporal parameterization is shown in Table 12.

Multinomial sample sizes for the length composition and conditional age at length data used in this assessment are based on the number of hauls or trips sampled for the commercial at sea and shore-based fisheries, respectively, and the number of tows in the research surveys. Sample sizes for conditional age-at-length data were taken from the number of fish aged. Standard deviations from the survey indices were not adjusted, as the RMSE from preliminary model runs were consistent with the mean of the input standard deviations. The base case model employs equal emphasis factors ($\lambda=1.0$) for each likelihood component, however, sensitivity analyses are performed.

Modeling Results

Comparative Models

As previously mentioned our first goal was to perform a comparative population assessment between the previous hake model and SS2. This exercise required reconstruction of the entire time series of data inputs for SS2 and configuring the model so that assumptions in SS2 were as close as possible to the previous hake model. It is important to point out that the structure of the data inputs for SS2 was quite different from the previous hake model, and used length-frequency compositions and conditional age-at-length compositions from the U.S. and Canadian fisheries, as well as the acoustic survey. Time series of biomass indices remained the same, including the same error assumptions as Model 2b (CVs=0.20 1977-1989, CVs=0.10 1992-2005) in the previous hake model (Helser et al. 2004). However, multinomial sample sizes were input consistent with the year in which samples were taken, unlike the old hake model which used a single sample size over all years of a given data source. Those years for which fishery data could not be acquired from standard U.S. and Canadian sources, (1972-1973 in the U.S. and 1977-1987 in the Canadian fishery), the traditional age-composition data and associated sample sizes were used. In terms of model specification, time-varying fishery selectivity was modeled as a random walk process constrained by standard deviation of 0.2 using the double logistic curve. As in the previous model, maturity was specified as a function of age and natural mortality (M) was assumed to be equal over ages and time invariant at 0.23 y^{-1} . Growth in SS2

was treated as time varying, by assuming a random walk process in the growth parameter k (constrained by standard deviation of 0.1), and with all other growth parameters freely estimated as base parameters. This aspect of time-varying growth was employed to mimic temporal changes in the observed fishery weights at age, which were treated as deterministic inputs in the old hake model.

Despite some differences in acoustic survey biomass and selectivity patterns, SS2 and the previous hake model produced very similar biomass trajectories and management reference points (Figure 21). Age 3+ biomass and female spawning biomass trajectories between assessment models were consistent over time, but in general SS2 estimates of biomass were slightly higher than those from the previous hake model, particularly for the years 1970-1990 (Figure 21). This result appears to be primarily driven by global scaling parameters, such as $\log R_{\text{zero}}$ and the magnitude of year-class strengths, which were estimated to be higher in the SS2 model. These scale parameters in turn are most likely due to slight differences in acoustic survey biomass trends (Figure 22) and fishery and acoustic survey selectivities (Figure 23). Despite these differences the relative depletion level of the Pacific hake stock over time and in the final year (beginning of 2006) were similar. Current depletion was estimated to be 27% of the unfished level using SS2 compared to 29% using the previous hake model, respectively (Figure 21). Based on this evaluation, we concluded that SS2 was capable of reproducing the most important results from the previous model, when similarly configured. Consequently, further model explorations were performed in SS2.

Model selection and evaluation

An effort was made to explore many levels of model complexity in order to achieve a model that was parsimonious in the number of estimated parameters, but also retained a realistic level of complexity in representing the underlying population dynamics. Many preliminary models were fit to the data and evaluated based on residual patterns, plausibility of estimated model parameters and convergence criteria. However, only a subset of these models was retained for sensitivity analysis (see below), and the base case model reflects the best aspects from each these exploratory analyses.

Based on past and current experience with modeling hake dynamics, a complex modeling structure was used as the starting point for explorations of more parsimonious alternatives. Factors that were important in this decision included: 1) a persistent structure of recruitment deviations, most notably the 1980 and 1984 cohorts, have a large impact on the scale parameter $\log R_{\text{zero}}$, 2) hake growth has varied substantially over time either through density-dependent and or environmental factors, and 3) fishery selectivity has varied temporally in response to the presence of one or two dominant year classes in the exploitable population. Based on this knowledge our approach was to reduce the total number of parameters, but maintain the underlying dynamic, temporal structure of the hake population.

The wealth of conditional age-at-length data from the commercial fleets and acoustic survey provided a great deal of flexibility in modeling potential changes in growth curves over

time. The comparative analysis used a ‘random walk’ approach to growth, but it was felt that this approach might be over-parameterized since empirical examination of the growth parameters outside the model suggested a pattern of discrete changes between multi-year periods.

Preserving some degree of temporal variability was clearly warranted, since specifying growth as time-invariant resulted in a decline of roughly 8,000 likelihood units in the objective function, relative to the random-walk structure. Through an iterative process of gradually increasing the size of adjacent-year blocks and examining residuals, a block structure was developed that sacrificed little in the value of the objective function and seemed consistent with empirical observations. Two blocks were used for the L2 parameter, 1966-1983 and 1984-2005, which allowed the model to account for the larger asymptotic fish size and the generally prevalence of larger observed during the early period. Three blocks were used to partition the growth parameter k: 1966-1980, 1981-1986, and 1987-2005. The middle period was intended to allow the model accommodate the slightly smaller body size of age 4-6 year old fish during those years. The temporal structure of hake growth in terms of the expected size at age is (Figure 24) characterized as an early period from 1966 to the early 1980s where expected maximum size (i.e., L2) is high relative to the subsequent period from the mid 1980s to 2005, and a decline in growth rates (i.e., smaller expected size at age for ages 4-6) during the early-to-mid 1980s. In the most recent block, 1987-2005, growth returns to near baseline rates but the expected maximum size is lower.

As with growth, we employed the same approach and developed a block structure that seemed consistent with the empirical data. In particular, both the U.S. and Canadian fisheries consisted of four discrete temporal blocks. For the U.S. fishery, separate selectivity functions were estimated for the periods: 1966-1983, 19884-1992, 1993-2000, and 2001-2005. Selectivity functions for the Canadian fishery were estimated for the periods: 1966-1994, 1995-2000, 2001-2002, and 2003-2005. The acoustic survey selectivity was estimated freely but was time invariant. The estimated selectivity curves are shown in Figure 25 with parameter estimates and asymptotic standard deviations in Table 13. The shapes of the curves for both the U.S. and Canadian fisheries appear to be quite reasonable, even with the apparent temporal shifts in the curves. The U.S. fishery selectivity curves show substantial temporal variation in both the ascending and descending limbs. As might be expected, U.S. fishery selectivity increased on the younger aged fish (ages 3 and 4) as the dominant 1980 and 1984 year classes become vulnerable to exploitation during the mid 1980s to early 1990s. As these cohorts grew into the older age structure and persisted in the fishable stock U.S. fishery selectivity increased on the older ages as seen as an increase in the descending curve in 1993-2005. Canadian fishery selectivity curves also show variability through time (it should be noted that Canadian fishery selectivity curves on older fish were assumed to be the same through). As is the case with the U.S., changes in ascending-limb selectivity appear to be associated with availability of a specific year class and its exploitation by the Canadian fleets, which can be observed in the exploitation of the 1994 year class during 1995-2000.

Model fits to size-composition data are shown as predicted length frequency distributions, Pearson residual plots, and effective vs. observed sample sizes and illustrated separately for the U.S. fishery (Figures 26-28), Canadian fishery (Figures 29-31) and acoustic

survey (Figures 32-34). In general, model fits to the U.S. fishery length-frequency distributions show reasonable predictions given the observed data (Figure 26). Predictions seem to be consistent with the observed length compositions in terms of hitting the modes of the distribution and range of sizes exploited. Comparison of observed and calculated effective sample sizes for U.S. fishery length frequencies show no clear relationship, but generally indicate that model fits are as good as expected given the input sample sizes and length frequency data (Figure 27). It should be noted that the input samples sizes shown in Figure 31 for the U.S. length and length-at-age compositions have already been iteratively tuned to 0.3 and 0.5, respectively, of their original input sizes. Some lack of fit does appear to be evident in the U.S. fishery length compositions, but this is generally restricted to the largest sizes, especially in the earlier years (Figure 28).

The model fit the Canadian fishery length composition data slightly less well than the U.S. fishery, but this may not be surprising given the fewer years of data (Figure 29). Predicted length distributions were on the mode for most years with the exception of 2000, 2001, and 2002 suggesting a pool of larger hake was exploited during those years than predicted by the model. The model was also not able to accommodate well the catches of smaller hake in 1995-1998. This suggests that hake spawned in Canadian waters in 1994 and were exploited by the Canadian fleet as young fish. This pattern has not been observed in the Canadian fishery during any other period. Despite the lack of fit created by these anomalies, overall the model fit these data as well as expected given the observed data and input sample sizes (Figure 30). Canadian size or age composition data did not require iterative re-scaling of input sample sizes. Pearson residuals of length compositions data also illustrate the apparent lack of fit in the mid-1990s and early 2000s (Figure 31).

Predicted lengths for the acoustic survey were also generally on the modes with the observed size compositions. But in a number of years (1980, 1995, and 2005) the model was unable to effectively reproduce the observed bi-modal structure (Figure 32). Comparison of effective vs. input sample sizes suggest that the model fit these data as well as expected, given the observed data and input sample sizes (Figure 33). Figure 34 illustrates model lack of fit, consistent with the model's inability to reproduce the bi-modal structure of the observed size compositions.

Given the assumption of age-based selectivity for the fisheries and the volume of conditional age-at-length data, the model generally fits the age data better than the length-composition data. Plots of effective vs. input sample sizes indicate that the model fit the data as well as expected, given the data and sample sizes (Figure 27, Figure 30, and Figure 33). As with the U.S. fishery length compositions, the U.S. fishery age-composition sample sizes were iterated to 50% of the original input sample sizes. The Canadian and acoustic survey conditional age-at-length compositions were unmodified. Model fits to the conditional age-at-length data are illustrated for 1988 (Figures 35-36) and 2005 (Figure 38-40). Plots of Pearson residuals by fishery for 1988 and 2005 are provided in Figures 37 and 41, respectively. These years were chosen to show the structure of the conditional age-at-length data when several dominant year classes were present. In 1988, the large 1980 (age 8) and 1984 (age 4) cohorts are evident in the size bins between 39 and 50 cm in both the U.S. and Canadian fisheries. The 1977 year class is

also present as age 11 fish in size bins greater than 50 cm. Model fits to the conditional age-at-length compositions are generally in agreement with the observed data in both the U.S. (Figure 35) and Canadian fisheries (Figure 36). The discrepancy of model fits to the observed data at length bins greater than 59 cm reflects relatively small sample sizes and cannot be differentiated from noise. Pearson residuals for the U.S. and Canadian conditional age-at-length data for 1988 show no severe patterns of lack of fit (Figure 37). The 1999 year class was the dominant year class in the 2005 U.S. fishery, Canadian fishery and acoustic survey conditional age-at-length compositions, and the model fit approximately this well (Figure 38-40). The acoustic survey age-compositions also show the presence of the 2003 year class as age-2 fish in the 28-38 cm length bins (Figure 40). Again, the model appears to fit the conditional age-at-length data reasonably well (Figure 41). The full suite of standardized Pearson residuals for all fisheries and survey conditional age-at-length data in each year are shown in detail in Figure 42.

The model's fit to the acoustic survey biomass time series seems reasonable given the error structure assumed for the index (Figure 43). For biomass points since 1992, which are assumed to have less error than pre-1992 data, the predicted biomasses are within asymptotic 95% confidence intervals for all years except 2001. Given the assumed error on the Santa Cruz juvenile hake recruitment index, the model fits the observed data quite well (Figure 44). As plotted in log-space the index appears rather flat and the model fits the slight departures from the mean, as in the case of the 1999 year class (in 2001). Despite being the lowest index on record, the 2003 (age 2 in 2005) prediction of recruitment is greater (although below average) than indicated by the observed data owing to the relatively large CV on the recruit index time series and sigmaR.

Assessment Model Results

During the STAR panel review, Feb. 6-10, discussion focused on the uncertainty in acoustic survey q as the dominant axis of uncertainty. This parameter essentially globally scales population biomass higher if q is lower and lower if q is higher. As in the previous year's assessment, two models are presented to bracket the range of uncertainty in the acoustic survey catchability coefficient, q . The base model with steepness fixed at $h=0.75$ and $q=1.0$ represents the endpoint of the lower range while the alternative model which places a prior on q (effective $q=0.7$) represents the upper endpoint of the range. As such, model estimates presented below report a range of values representing these endpoints.

The predicted time series of hake recruitments, as well as recruitment uncertainty, recruitment deviations from the S-R curve, and yearly estimates of variability are shown in Figure 45. The model predicted very large year classes in 1980 and 1984, with secondary recruitment events in 1970, 1973 and 1977. The 1999 year class was the single most dominate cohort since the late 1980s. Uncertainty in recruitment can be substantial as shown by asymptotic 95% confidence intervals (Figure 45). Based on the assumption of log-normal error about the mean log recruitment, uncertainty increases with the magnitude of recruitment. Recruitment to age 0 before 1967 is assumed to be equal to mean recruitment, while recruitment from 1967 to 2005 is estimated from the data. Age-0 recruitment in 2003 is predicted to be

uncertain and below mean recruitment, despite some evidence to the contrary in the 2005 acoustic survey. Except for the actual magnitude of estimated recruitments, the patterns in recruitment deviations and uncertainty are qualitatively the same under both the base and alternative models.

Summary of Pacific hake population time trends in 3+ biomass, recruitment, spawning biomass, relative depletion, spawning potential ratio (SPR) and fishery performance are shown in Figures 46-48 for the base model and in Figures 49-51 under the alternative model. Summary Pacific hake biomass (age 3+) under unfished conditions (< 1966) was estimated to be 7.8 millions mt (Table 14a). Summary biomass increased briefly during the mid-1970s, as the 1970 and 1973 year classes recruited, then declined briefly until 1980 (Figure 46, Table 14a). Summary biomass increased again to the highest level in the time series in 1983 as the very large 1980 and 1984 classes entered the population (Figure 46, Table 14a). The hake population then experienced a long period of decline as fishing increased and few large recruitment events occurred between 1985 and 2001. Summary biomass increased slightly in 2002 due to recruitment of the 1999 year class, but has subsequently declined as the U.S. and Canadian fisheries prosecute this dominate cohort in the exploitable biomass. Trends in summary biomass and recruitment under the alternative model are nearly identical but larger in magnitude (Figure 49, Table 14b).

Pacific hake spawning biomass trend is similar to that for summary biomass (Figure 47 and 50, Table 14a and 14b). Under both the base and alternative models, spawning biomass declined rapidly after peaking in 1984 (4.6 and 5.1 million mt, respectively) to the lowest point in the time series in 2000 (0.88 and 1.0 million mt), followed subsequently by a brief increase to 1.68 and 2.1 million mt, respectively, in 2003. In 2006, spawning biomass is estimated to be 1.18 million mt, and is at 30.8 % (~95% CI range from 24.7% to 36.9%; Figure 47, Table 14a) of the unfished level (Figure 49; Table 14a) under the base model. Under the alternative model, spawning biomass is 1.6 million mt with an associated relative depletion of 38.0% (~95% CI range from 29.7% to 45.0%, Figure 50, Table 14b). Approximate asymptotic intervals about the MLE for spawning biomass and recruitment for the entire times series are given in Tables 15a and 15b for the base and alternative models, respectively.

Reference points (biomass and exploitation rate)

Because of temporal changes in growth, there are two types of reference points reported in this assessment: those based on the assumed population parameters at the beginning of the modeled time period and those based on the most recent time period in a ‘forward projection’ mode of calculation. All strictly biological reference points (e.g., unexploited spawning biomass) are calculated based on the unexploited conditions at the start of the model, whereas management quantities (MSY, SB_{msy}, etc.) are based on the current growth and maturity schedules and are marked throughout this document with an asterisk (*).

Given the current life history parameters and long term exploitation patterns, the fishing mortality that reduces the spawning potential of the stock to 40% of the unfished level is referred

to as F40%, which is the default Pacific Fishery Management Council proxy for F_{MSY} for Pacific hake. Similarly, the proxy for B_{MSY} is spawning biomass corresponding to 40% of the unfished stock size (B40%). Unexploited equilibrium Pacific hake spawning biomass (B_{zero}) from the base model was estimated to be 3.81 million mt (~ 95% confidence interval: 3.46 – 4.16 million mt), with a mean expected recruitment of 4.97 billion age-0 hake. Under the alternative model, spawning biomass (B_{zero}) from the base model was estimated to be 4.29 million mt (~ 95% confidence interval: 3.76 – 4.81 million mt), with a mean expected recruitment of 5.59 billion age-0 hake. Associated management reference points for target and critical biomass levels for the base model are 1.52 million mt (B40%) and 0.95 million mt (B25%), respectively. Under the alternative model, B40% and B25% are estimated to be 1.71 and 1.07 million mt, respectively. The MSY-proxy harvest amount (F40%) under the base model was estimated to be 573,945* mt (~ 95% confidence interval: 521,122-619,501), and 645,240* mt (~ 95% confidence interval: 566,830-712,848) under the alternative model. The spawning stock biomass that produces the MSY-proxy catch amount under the base model was estimated to be 1.06 million* mt (confidence interval is 0.96-1.14* million mt), and 1.19 million* mt (confidence interval is 1.04 - 1.31* million mt) under the alternative model, given current life history parameters.

The full exploitation history under the base and alternative models is portrayed graphically in Figures 48 and 51, respectively, which plot for each year the calculated spawning potential ratio (1-SPR) and spawning biomass level (B) relative to their corresponding targets, F40% and B40%, respectively. As seen from Figures 48 and 51 estimated spawning potential ratio for Pacific hake has generally been above both the 40% proxy target MSY and B_{MSY} level for several decades. During the last decade both target reference points have gradually declined as stock biomass decreased under moderately high removals. While SPR has been above proxy target of 40% for Pacific hake, the biomass relative to the B40 reference target dropped briefly below the target in recent years.

Harvest projections

Forecasts were generated assuming the maximum potential catch would be removed under the 40:10 harvest control rule. Projections were based on the relative F contribution from the U.S. and Canadian fishery commensurate with the 74.88% and 26.12% coast wide national allocation to the U.S. and Canada, respectively, as specified in the Treaty. Table 16 presents 3-year projections using the base case and alternative models. Spawning biomass is expected to continue to decline in 2007 to 864 thousand mt (~95% CI 0.64 - 1.1 million mt) with a corresponding depletion level of 22.7% (~95% CI 18.1% - 27.2%) of unfished biomass for the base model. Under the alternative model, spawning biomass in 2007 is 1.1 million mt (~95% CI 0.79 - 1.46 million mt) with a corresponding relative depletion of 26.2% (~95% CI 21.0% - 31.7%).

Uncertainty and reliability

A retrospective analysis of the base model was performed to evaluate any pathological behavior or pattern of bias in the model results. This analysis was performed by systematically

removing the terminal years' data sequentially for six years and re-running the model. This analysis revealed no systematic bias in model results based on an evaluation of trends in relative depletion or recruitment (Figure 52).

Uncertainty in current stock size and other state variables were explored using a Markov Chain Monte Carlo (MCMC) simulation in AD model builder. Although MCMC has been used mostly in Bayesian applications, it can also be used to obtain likelihood-based confidence regions (Punt and Hilborn 1997). It has the advantage of producing the true marginal likelihood (or marginal distributions) of the parameter, rather than the conditional mode, as with the likelihood profile. We ran the MCMC routine in ADMB drawing 1,000,000 samples in which one in every 1000th sample was saved to reduce autocorrelation in the chain sequence. Results of the MCMC simulation were evaluated for nonconvergence to the target posterior distribution as prescribed in Gelman et al. (2004). The final samples from the MCMC were used to develop the probability distributions of the marginal posterior of management quantities and were compared to MLE asymptotic estimates of uncertainty.

We also preformed a parametric bootstrap of the observed data to assess model reliability to the data and assumptions. Within the SS2 model framework, new data sets were generated directly from expected values of population parameters obtained during maximum likelihood estimation. Observation error about the expected values is included via a parametric bootstrap, based on the appropriate likelihood and the level of error assumed for each data source. All data components in this application were assumed to have observation errors distributed as either lognormal (indices) or multinomial (length- and age-frequencies) distributions. Therefore, the input standard errors and sample sizes are retained in the simulated data sets; the resulting simulated data set has identical dimensions as the original, but new 'observations'. Using this method, 75 simulated data sets were generated from the assessment model and evaluation of simulation results is performed through comparison of the set of simulated parameter value against the MLE and the true value.

Convergence diagnostics of selected parameters from the MCMC simulation provided no evidence for lack of convergence in the base model, in either the primary estimated parameters (Figure 53) or derived quantities such as spawning stock biomass and recruitment (Figure 54). In nearly all cases, parameter autocorrelation was less than +/- 0.15. Furthermore, most of the primary parameters or derived variables have a Geweke statistic of less than +/- 1.96 indicating stationarity of the parameter mean. Finally, parameters passed the Heidelberger-Welch statistic test. If this test is passed, the retained sample is deemed to estimate the posterior mean with acceptable precision, while failure implies that a longer MCMC run is needed to increase the accuracy of the posterior estimates for the given variable. Based on the above diagnostic tests the retained MCMC sample appears acceptable for use in characterizing the uncertainty (distribution) of state variables.

There was very good agreement between distributions from MCMC integration and asymptotic variance estimates from the Hessian estimated using maximum likelihood in SS2 (Figure 55-56). Maximum likelihood estimates of the expected value of unfished spawning biomass (SBzero) and unfished recruitment (Rzero) were in very close agreement with the

median of the marginal posterior distribution of those quantities obtained from MCMC (Figure 55). Likewise, the median of unfished biomass and recruitment from SS2 fit to 75 parametric bootstraps of the data were also close to expected values from MLE (Figure 55). Dispersion about the expected value was also in close agreement between MLE, MCMC and parametric bootstrap. Similar results were found for other state variables such as 2006 spawning biomass and depletion (Figure 56). In general, these results confirm convergence of MLE and reliability of the model and data assumptions.

Additional Analyses Requested by the STAR Panel

A number of additional analyses were requested during the course of the STAR panel. These requests were intended to be either 1) exploratory in nature and to assist the panel in better understanding the assessment or 2) to provide a more complete explanation of the assessment results in the final presentation. The exploratory requests are summarized here (as well as in the STAR panel report itself), while the second kind of requests have been integrated into the document and executive summary as appropriate.

STAR panel requests (in italics) are reported in the order they were made during the panel:

- 1) *Use the biomass at age and the survey selectivity curve to assess what proportion of the spawning biomass is less vulnerable with respect to the acoustic survey. Rationale: there are concerns regarding the inability of the survey to “see” the entire biomass.*

The spawning biomass greater than or equal to age 9 that was selected by the acoustic survey (the product of: spawning biomass at age, selectivity at age and maturity at age) was calculated from the base case model output. This value was then subtracted from the total spawning biomass greater than or equal to age 9 to obtain the absolute level of poorly selected spawning biomass. This quantity and the ratio of poorly selected age 9+ spawning biomass to total spawning biomass are shown in Figure 57. The fraction of poorly selected spawning biomass was 10-15% throughout the early part of the time series, and increased to 30% during the late 1990s. This increase is attributable to the persistence and relative abundance of the 1980 and 1984 year classes at older ages. The ratio of ‘poorly selected’ to total spawning biomass subsequently dropped to less than 10%, as the population became dominated by younger fish.

- 2) *Run the model using asymptotic selectivity for the acoustic survey, both with age of full selectivity free and with a prior on the ascending slope of the selectivity curve that would approximate full selectivity at age 5. Rationale is same as above.*

Both of these sensitivity runs produced a substantial degradation of the model fit to the age composition data. The total negative log-likelihood for the sensitivity without a prior was increased by almost 500 units (Table 17), with the prior on the ascending limb further degrading the fit. Assuming asymptotic selectivity reduced the spawning biomass dramatically over the entire time-series (Figure 58), but the relative trend was most noticeably different during only the most recent years and resulted in a current depletion below 10% of unexploited equilibrium

conditions. This change in scaling also resulted in much larger estimated exploitation rates throughout the time-series, again most pronounced in the most recent years (Figure 60). The SSB time series with the age of full selectivity moved forward to roughly age 5 produced little change to the above results.

- 3) *Explore the results when pre-1992 acoustic survey data points (both biomass and age/size comps) are removed from the model. Rationale: The higher CVs used in the early acoustic survey data lead the Panel to question what impact those data are having in the model. Similarly, the observation that full selectivity is not reached until age 9, whereas 9 year old fish rarely comprise a major fraction of the catch at age, lead to questions regarding the true shape of the acoustic survey selectivity curve.*

When the pre-1992 acoustic survey data were removed from the assessment model, the estimated selectivity of acoustic survey tended to shift toward older age classes, and the 2006 spawning biomass is estimated to be close to $SB_{40\%}$; no other major changes were observed.

- 4) *Down-weight the input sample sizes to the 2001-2002 Canadian age-composition data (as well as conditional length at age) to assess what the impact is to the model. Rationale: This will allow the STAT and STAR to evaluate what the consequences of these patterns may be to the model (particularly the strength of the 1999 year class).*

The input sample sizes were set to 1 for all length-frequency and conditional age-at-length-frequency data during these two years. In addition, the selectivity block for 2001-2002 was merged with that for 2003-2005. Very little change was observed in model predicted size and age distributions during these years, or other estimated quantities. It was concluded that it made little difference if these data were included or excluded from the base case and so they were retained with original weighting for all subsequent analyses in the absence of a clear rationale for removal.

- 5) *Following up on request #2 to use asymptotic selectivity for acoustic survey, repeat this run, but (1) allow q to be estimated in one of the asymptotic selectivity runs, (2) allow M to be estimated with a uninformative prior, if feasible.*

When estimated freely, acoustic survey catchability (q) fell to unrealistically low values, indicating some sort of informative prior would be necessary in this assessment. When natural mortality (M) was estimated using the model in which acoustic selectivity was forced to be asymptotic the maximum likelihood value was 0.33. Natural mortality in this run was constrained by a very uninformative prior with a mean of 0.23 and a standard deviation of 0.8. The fit to the age and length frequency distributions was degraded by over 300 units of log-likelihood, but was somewhat better than the model with asymptotic acoustic selectivity and M fixed at 0.23 (Table 17). This sensitivity run predicted fewer older fish, and forces fishery selectivity curves into unusual and unrealistic configurations, although the relative trend in spawning biomass is similar to other sensitivities (Figures 58, 59).

- 6) With respect to the catchability coefficient (q), run the model with an informative prior on q (mean of 1 and a standard deviation of 0.1), both with the entire acoustic biomass time series as well as without the pre-1992 data. Rationale: Fixing q at 1 underestimates the true uncertainty in the model.

Because the acoustic survey catchability (q) is estimated in log-space the requested prior was converted to have a mean of 0 with a standard deviation of 0.112. This prior resulted in a maximum likelihood estimate of 0.69. This is consistent with the general tendency of this model to estimate a lower q , and reflects an estimate that is very nearly bounded by the small prior density at values appreciably lower than 0.69. The overall improvement in fit was small (8 units of log-likelihood), suggesting that there is little information in the data to inform an estimate of q (Table 17). The greatest changes in model output was an upward scaling of total biomass, a slightly greater estimate of the 1999 year class, both of which resulted in the estimated relative depletion level increasing from 0.34 (with $q = 1.0$) to 0.41 in 2006 (Table 17). The projected 2006 OY from this model was substantially increased to 942,000 mt, nearly double that of the model assuming $q = 1.0$.

When the pre-1992 acoustic survey data was excluded, catchability was estimated to be 0.76. This result implies that survey catchability may have been lower (or selectivity may have differed) during the pre-1992 survey years. This sensitivity produced an upward revision of the estimated size of the 1999 year class that then translated into a larger current biomass both on an absolute and relative scale (Table 17, Figures 58, 59). Although there was considerable discussion regarding the inclusion of these early data, it was recognized that they provide the only contrast in the survey time-series and would be retained pending a more detailed reanalysis of specific application of a threshold value for the entire survey series.

- 7) Run the model with a steepness value (h) of 0.75. Rationale: There is some resistance to the idea that recruitment is entirely independent of SSB. In a meta-analysis of steepness values for thirteen assessed Merlucciid stocks, Dorn (1999) had earlier estimated a posterior mode of approximately 0.6, with a wide posterior distribution that was indicative of a great deal of uncertainty. The STAR Panel suggests that a reasonable expectation for steepness might be 0.75, based on theoretical considerations as well as Myers et al. 2002.

The resulting time-series' of biomass and relative depletion were very similar to the $h = 1.0$ model, indicating the strong influence of informative age frequency data to estimate recruitments. The projected recruitments (much more heavily influenced by the central tendency of the stock-recruitment relationship and the variability about this relationship) did show a response to the reduction in steepness. Catch projections for 2006 were nearly identical, but projections for future catches declined somewhat more rapidly than the base model reflecting a reduced expectation of recruitment at predicted stock levels. There was little change in the objective function and associated model fit to the data included. There was general agreement that the lower steepness value may represent a more realistic expectation for h .

- 8) *Provide the relative contributions to changes in likelihood in the model runs in request # 2 (asymptotic versus dome-shaped selectivity, and a freely estimated M). Rationale: the Panel was interested in what factors actually contributed to the relative changes in likelihood.*

By forcing asymptotic acoustic survey selectivity, the reduction in total biomass caused both the U.S. and Canadian fishery selectivity curves to become much more asymptotic as well. There was a slight improvement in fit to the Canadian age composition data, but a substantial degradation in the objective function resulting from the poor fit to the U.S. fishery and acoustic survey data (Table 17). These results suggested that a sensitivity where at least one data series had asymptotic selectivity should consider the Canadian fishery; and that this could be explored in future assessments.

- 9) *Evaluate the relative proportion of older hake in the triennial shelf survey versus the acoustic survey over time. Rationale: There are questions lingering regarding where the older fish (i.e. those not seen in the acoustic survey) might be. If feasible, explore doing this with the Canadian catch-at-age data as well.*

A preliminary comparison was made between the acoustic and historic shelf groundfish survey age composition data from 1977-2001 to evaluate whether there was empirical evidence for dome-shaped selectivity. This analysis provided preliminary evidence in support of dome-shaped acoustic survey selectivity (Figure 19). A more methodical analysis, however, is needed to fully address this issue.

- 10) *Provide graphs of the time series from beginning of the modeled time period to 2009 that includes catch, spawning biomass, depletion, and exploitation rate (relative to vulnerable biomass). Present the time series to 2005 and the forecasts with a different set of symbols. Do these for the STAT base model with steepness set at 0.75.*

These figures were provided to the STAR panel and are included in their report. They resulted in a discussion of the 40:10 harvest policy creating the projected OY catch levels for 2006 and future years. The concern was raised that this policy would lead to a decline in spawning biomass to the lowest level of the time series by 2009, during which time the largest total coast-wide catch could be removed in 2006.

- 11) *The STAR Panel requests that the base model be run with steepness fixed at 0.75 and acoustic survey catchability (q) estimated with a mean of 1 and a standard deviation of 0.1 in the equivalent log domain. Rationale: The STAR Panel would like to evaluate the STAT base model with steepness fixed at 0.75, with q estimated.*

The results of the $h = 0.75$ model, as described above, were similar to the $h = 1.0$ model for the time-series but resulted in slightly lower OY projections. The model with $h = 0.75$ and catchability estimated with an informative prior scaled the biomass up considerable, while showing little change to the objective function (Table 17). These two models were considered to be plausible alternatives that bracketed the range of uncertainty in acoustic survey catchability.

- 12) *The STAR would like to see projections of the base model with a range of catches (0 to 400,000 tons in 100,000 ton increments) to evaluate the relative impact of harvest on the biomass trajectory. Rationale: Given that the strict application of the 40:10 harvest rule in this run will result in stock biomass falling below the 25% depletion level, the STAR Panel would like to explore the relative impact of fishing on future stock biomass.*

With total coast-wide catch set to 0 in 2006 onward, the spawning biomass continues to decline (Figure 61). For total catches in excess of 100,000 mt through 2008, the stock is predicted to drop below the $SB_{25\%}$ overfished threshold. It was agreed that this figure was an informative addition to the decision table which should also include some constant catch scenarios for comparison with OY catches generated via the 40:10 harvest policy.

- 13) *The STAR Panel would like to see the same graphic as in request #12 with the q estimated scenario (as in request #11). Rationale: Same as request # 12.*

This graphic is combined with the request above and reported in the lower panel of Figure 61. For the alternate model with q estimated using an informative prior the same pattern of decline in spawning biomass is observed through 2009, even in the absence of fishing. However, this model shows much less sensitivity to the constant catch scenarios, with only the 400,000 mt level resulting in a relative depletion less than 25% in 2009.

- 14) *The STAR Panel would like to see a draft decision table, based on the two scenarios presented as preliminary base and alternative models in request # 11 (the STAT base model with steepness fixed at 0.75 and acoustic survey catchability (q) estimated with an informative prior with mean of 1 and a standard deviation of 0.1 in the equivalent log domain). Rationale: The STAR Panel considers these two models to be the two most important alternative states of nature for the final document. The decision table will include the following management actions: OY from model 1, OY from model 2, and 200,000 and 400,000 mt total coast-wide catch for 2006-2008.*

The STAT Team produced a final decision table based on this request (Table 18).

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LITERATURE CITED

- Alheit J. and T.J. Pitcher. 1995. Hake: biology, fisheries, and markets. Chapman and Hall. London. 477 p.
- Bailey, K. M., R. C. Francis, and E. R. Stevens. 1982. The life history and fishery of Pacific whiting, *Merluccius productus*. Calif. Coop. Oceanic Fish. Invest. Rep. 23:81-98.
- Buckley, T. W. and P. A. Livingston. 1997. Geographic variation in the diet of Pacific hake, with a note on cannibalism. Calif. Coop. Oceanic Fish. Invest. Rep. 38:53-62.
- Dorn, M. W. 1991. Spatial and temporal patterns in the catch of Pacific whiting in the U.S. management zone during 1978-88. U.S. Dep. Commer. , NOAA Tech. Memo. NMFS-F/NWC-205, 68 p.
- Dorn, M. W. 1992. Detecting environmental covariates of Pacific whiting (*Merluccius productus*) growth using a growth-increment regression model. Fish. Bull. U.S. 90: 260-275.
- Dorn, M. W. 1995. The effects of age composition and oceanographic conditions on the annual migration of Pacific whiting *Merluccius productus*. Calif. Coop. Oceanic Fish. Invest. Rep. 36:97-105
- Dorn, M. W. 1996. Status of the coastal Pacific whiting resource in 1996. In Pacific Fishery Management Council, Appendix Volume I: Status of the Pacific Coast groundfish fishery through 1996 and recommended acceptable biological catches in 1997, p. A1-A77. (Document prepared for the Council and its advisory entities.) Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.
- Dorn, M. W., E. P. Nunnallee, C. D. Wilson and M. E. Wilkins. 1994. Status of the coastal Pacific whiting resource in 1993. U.S. Dep. Commer., NOAA Tech. Memo. NMFS F/AFSC-47, 101 p.
- Dorn, M. W. and M. W. Saunders. 1997. Status of the coastal Pacific whiting stock in U.S. and Canada in 1997. In Pacific Fishery Management Council, Appendix: Status of the Pacific Coast groundfish fishery through 1997 and recommended acceptable biological catches in 1998: Stock assessment and fishery evaluation. Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.
- Dorn, M. W., M. W. Saunders, C. D. Wilson, M. A. Guttormsen, K. Cooke, R. Kieser, and M. E. Wilkins. Status of the coastal Pacific hake/whiting stock in U.S. and Canada in 1998. In Pacific Fishery Management Council, Appendix: Status of the Pacific Coast groundfish

fishery through 1998 and recommended acceptable biological catches in 1999: Stock assessment and fishery evaluation. Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.

Doubleday, W.G. 1976. A least-squares approach to analyzing catch at age data. Res. Bull. Int. Comm. Northw. Atl. Fish. 12:69-81.

Fleischer, G.W., K.D. Cooke, P.H. Ressler, R.E. Thomas, S.K. de Blois, L.C. Hufnagle, A.R. Kronlund, J.A. Holmes, and C.D. Wilson. 2005. The 2003 integrated acoustic and trawl survey of Pacific hake, *Merluccius productus*, in U.S. and Canadian waters off the Pacific coast. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-65, 45 p.

Fournier, D. and C. P. Archibald. 1982. A general theory for analyzing catch at age data. Can. J. Fish. Aquat. Sci. 39:1195-1207.

Fournier, D. 1996. An introduction to AD model builder for use in nonlinear modeling and statistics. Otter Research Ltd. PO Box 2040, Sidney, B.C. V8L 3S3 Canada.

Francis, R.C., G.L. Swartzman, W.M. Getz, R. Harr, and K. Rose. 1982. A management analysis of the Pacific whiting fishery. U.S. Dep. Commer., NWAFC Processed Report 82-06. 48 p.

Francis, R. C., and A. B. Hollowed. 1985. History and management of the coastal fishery for Pacific whiting, *Merluccius productus*. Mar. Fish. Rev. 47(2):95-98.

Gelman, A., Carlin, J.B., Stern, H.S., and Rubin, D.B. 2004. Bayesian data analysis, 2nd Edition. Chapman and Hall, New York.

Gudmundsson, G. 1994. Time series analysis of catch-at-age observations. Appl. Statist. 43:117-126.

Helser, T.E, M.W. Dorn, M.W. Saunders, and R.D. Methot. 2001. Pacific whiting assessment update for 2000. In Pacific Fishery Management Council, Status of the Pacific Coast groundfish fishery through 2001 and recommended acceptable biological catches in 2002 (Document prepared for the Council and its advisory entities.) Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.

Helser, T.E, R.D. Methot, and G. W. Fleischer. 2004. Pacific whiting assessment update for 20003 In Pacific Fishery Management Council, Status of the Pacific Coast groundfish fishery through 2001 and recommended acceptable biological catches in 2002 (Document prepared for the Council and its advisory entities.) Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.

Helser, T.E, G. W. Fleischer, Steven Martell, and N. Taylor. 2005. Pacific whiting assessment update for 2004 In Pacific Fishery Management Council, Status of the Pacific Coast groundfish fishery through 2001 and recommended acceptable biological catches in 2004 (Document prepared for the Council and its advisory entities.) Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.

Hollowed, A. B., S. A. Adlerstein, R. C. Francis, M. Saunders, N. J. Williamson, and T. A. Dark. 1988a. Status of the Pacific whiting resource in 1987 and recommendations to management in 1988. U.S. Dep. Commer., NOAA Tech. Memo. NMFS F/NWC-138, 54 p.

Hollowed, A.B., R. D. Methot, and M. W. Dorn. 1988b. Status of the Pacific whiting resource in 1988 and recommendation to management in 1989. In Pacific Fishery Management Council, Status of the Pacific Coast groundfish fishery through 1988 and recommended acceptable biological catches in 1989, p. A1-A50. (Document prepared for the Council and its advisory entities.) Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.

Livingston, P.A. and K. M. Bailey. 1985. Trophic role of the Pacific whiting, *Merluccius productus*. Mar. Fish. Rev. 47(2):16-22-34.

McCullagh, P., and J. A. Nelder. 1983. Generalized linear models. Chapman and Hall, London. 261 p.

Methot, R.D. 1989. Synthetic estimates of historical abundance and mortality for northern anchovy. In E.F. Edwards and B.A. Megrey, (eds.), Mathematical Analysis of Fish Stock Dynamics: Reviews. Evaluations, and Current Applications, p. 66-82. Am. Fish. Soc. Symp. Ser. No. 6.

Myers, R.A, K.G. Bowen, and N.J. Barrowman. 1999. Maximum reproductive rate of fish at low population sizes. Can. J. Fish. Aquat. Sci. 56: 2404-2419.

Myers, R.A., N.J. Barrowman, R. Hilborn, and D.G. Kehler. 2002. Inferring Bayesian priors with limited direct data: Application of risk analysis. North American Journal of Fisheries Management 22:351-364.

Press, W.H., S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery. 1992. Numerical recipes in C. Second ed. Cambridge University Press. 994 p.

Punt, A. E. and R. Hilborn. 1997. Fisheries stock assessment and decision analysis: the Bayesian approach. Rev. Fish. Biol. Fish. 7:35-63.

Ralston, S., Pearson, D., and Reynolds, J. 1998. Status of the Chilipepper Rockfish stock in 1998. In Pacific Fishery Management Council, Appendix: Status of the Pacific Coast

groundfish fishery through 1998 and recommended acceptable biological catches in 1999: Stock assessment and fishery evaluation. Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, OR 97201.

Ricker, W. E. 1975. Computation and interpretation of biological statistic of fish populations. Bull. Fish. Res. Board. 191:382 p.

Sakuma, K. M. and S. Ralston. 1996. Vertical and horizontal distribution of juvenile Pacific whiting (*Merluccius productus*) in relation to hydrography of California. Calif. Coop. Oceanic Fish. Invest. Rep. 38:137:146.

Saunders, M.W. and G.A. McFarlane. 1997. Observation on the spawning distribution and biology of offshore Pacific hake. Calif. Coop. Oceanic Fish. Invest. Rep. 38:147:160.

Schnute J.T. and L.J. Richards. 1995. The influence of error on population estimates from catch-age models. Can. J. Fish. Aquat. Sci. 52:2063-2077.

Shuter, B. J., and J. F. Koonce. 1985. A review of methods for setting catch quotas on fish stocks. Unpubl. manuscr., 78 p. Research Section Fisheries Branch, Ontario Ministry of Natural Resources, P.O. Box 50, Maple, Ontario, L0J 1E0. (Contribution to Assessment of Stock and Prediction of Yield Workshop, Thunder Bay, Ontario, Canada, August 1985.)

Traynor, J. J. 1996. Target-strength measurements of walleye pollock (*Theragra chalcogramma*) and Pacific whiting (*Merluccius productus*). ICES Journal of Marine Science 53:253-258.

Utter, F.M. 1971. Biochemical polymorphisms in Pacific hake (*Merluccius productus*). Cons. Perm. Int. Explor. Mer Rapp. P.-V. Reun. 161:87-89.

Vrooman, A.M. and P.A. Paloma. 1977. Dwarf hake off the coast of Baja California, Mexico. Calif. Coop. Oceanic Fish. Invest. Rep. 19:67-72.

Wespestad V. G. and A. M. Shimada. 1998. Pacific Whiting Conservation Cooperative National Marine Fisheries Service 1998 Pacific whiting cooperative survey report. Pacific Whiting Conservation Cooperative, 1200 Westlake N. Suite 900, Seattle WA 98109.

Wilkins, M. E. 1998. The 1995 Pacific west coast bottom trawl survey of groundfish resources: estimates of distribution, abundance, and length and age composition. NOAA Tech. Memo. NMFS-AFSC-89.

Wilson, C. D. and M. A. Guttormsen. 1997. Echo integration-trawl survey results for Pacific whiting (*Merluccius productus*) along the Pacific coast of the US and Canada during summer, 1995. NOAA Tech. Memo. NMFS-AFSC-74.

Table 1. Annual catches of Pacific hake (1,000 t) in U.S. and Canadian management zones by foreign, joint venture (JV), domestic at-sea, domestic shore-based, and tribal fisheries, 1966-2005.

Year	U.S.					Canada				U.S. and Canada total	
	Domestic					Foreign	JV	Shore	Total ¹		
Year	Foreign	JV	At-sea	Shore	Tribal	Total	Foreign	JV	Shore	Total ¹	U.S. and Canada total
1966	137.000	0.000	0.000	0.000	0.000	137.000	0.700	0.000	0.000	0.700	137.700
1967	168.699	0.000	0.000	8.963	0.000	177.662	36.713	0.000	0.000	36.713	214.375
1968	60.660	0.000	0.000	0.159	0.000	60.819	61.361	0.000	0.000	61.361	122.180
1969	86.187	0.000	0.000	0.093	0.000	86.280	93.851	0.000	0.000	93.851	180.131
1970	159.509	0.000	0.000	0.066	0.000	159.575	75.009	0.000	0.000	75.009	234.584
1971	126.485	0.000	0.000	1.428	0.000	127.913	26.699	0.000	0.000	26.699	154.612
1972	74.093	0.000	0.000	0.040	0.000	74.133	43.413	0.000	0.000	43.413	117.546
1973	147.441	0.000	0.000	0.072	0.000	147.513	15.125	0.000	0.001	15.126	162.639
1974	194.108	0.000	0.000	0.001	0.000	194.109	17.146	0.000	0.004	17.150	211.259
1975	205.654	0.000	0.000	0.002	0.000	205.656	15.704	0.000	0.000	15.704	221.360
1976	231.331	0.000	0.000	0.218	0.000	231.549	5.972	0.000	0.000	5.972	237.521
1977	127.013	0.000	0.000	0.489	0.000	127.502	5.191	0.000	0.000	5.191	132.693
1978	96.827	0.856	0.000	0.689	0.000	98.372	3.453	1.814	0.000	5.267	103.639
1979	114.909	8.834	0.000	0.937	0.000	124.680	7.900	4.233	0.302	12.435	137.115
1980	44.023	27.537	0.000	0.792	0.000	72.352	5.273	12.214	0.097	17.584	89.936
1981	70.365	43.556	0.000	0.839	0.000	114.760	3.919	17.159	3.283	24.361	139.121
1982	7.089	67.464	0.000	1.024	0.000	75.577	12.479	19.676	0.002	32.157	107.734
1983	0.000	72.100	0.000	1.050	0.000	73.150	13.117	27.657	0.000	40.774	113.924
1984	14.722	78.889	0.000	2.721	0.000	96.332	13.203	28.906	0.000	42.109	138.441
1985	49.853	31.692	0.000	3.894	0.000	85.439	10.533	13.237	1.192	24.962	110.401
1986	69.861	81.640	0.000	3.463	0.000	154.964	23.743	30.136	1.774	55.653	210.617
1987	49.656	105.997	0.000	4.795	0.000	160.448	21.453	48.076	4.170	73.699	234.147
1988	18.041	135.781	0.000	6.876	0.000	160.698	38.084	49.243	0.830	88.157	248.855
1989	0.000	203.578	0.000	7.418	0.000	210.996	29.753	62.618	2.563	94.934	305.930
1990	0.000	170.972	4.713	8.115	0.000	183.800	3.814	68.313	4.022	76.149	259.949
1991	0.000	0.000	196.905	20.600	0.000	217.505	5.605	68.133	16.178	89.916	307.421
1992	0.000	0.000	152.449	56.127	0.000	208.576	0.000	68.779	20.048	88.827	297.403
1993	0.000	0.000	99.103	42.119	0.000	141.222	0.000	46.422	12.355	58.777	199.999
1994	0.000	0.000	179.073	73.656	0.000	252.729	0.000	85.162	23.782	108.944	361.673
1995	0.000	0.000	102.624	74.965	0.000	177.589	0.000	26.191	46.193	72.384	249.973
1996	0.000	0.000	112.776	85.127	14.999	212.902	0.000	66.779	26.395	93.174	306.076
1997	0.000	0.000	121.173	87.410	24.840	233.423	0.000	42.565	49.227	91.792	325.215
1998	0.000	0.000	120.452	87.856	24.509	232.817	0.000	39.728	48.074	87.802	320.619
1999	0.000	0.000	115.259	83.419	25.844	224.522	0.000	17.201	70.132	87.333	311.855
2000	0.000	0.000	116.090	85.828	6.500	208.418	0.960	15.059	6.382	22.401	230.819
2001	0.000	0.000	102.129	73.474	6.774	182.377	0.000	21.650	31.935	53.585	235.962
2002	0.000	0.000	63.258	45.708	23.148	132.114	0.000	0.000	50.769	50.769	182.883
2003	0.000	0.000	67.473	55.335	20.684	143.492	0.000	0.000	62.090	62.090	205.582
2004	0.000	0.000	90.258	96.229	23.997	210.484	0.000	58.892	65.345	124.237	334.721
2005	0.000	0.000	150.400	85.914	23.53	259.844	0.000	15.178	85.284	100.462	360.306
Average 1966-2005						159.482				54.441	213.923

¹ Canadian fishery total catch revised 1996-2001.

Table 2. U.S. fishery sampling information by sector showing the number of hauls (or trips), number of lengths and number of ages taken by year. Samples sizes shown are the number of hauls or trips where length samples were taken.

U.S. At-sea fishery length samples				U.S. Shore-based fishery			
Year	No. Hauls	No. Lengths	No. Aged	Year	No. Trips	No. Lengths	No. Aged
1973	-	-	-	1973	-	-	-
1974	-	-	-	1974	-	-	-
1975	13	486	332	1975	-	-	-
1976	249	48,433	4,077	1976	-	-	-
1977	1,071	140,338	7,693	1977	-	-	-
1978	1,135	122,531	5,926	1978	-	-	-
1979	1,539	170,951	3,132	1979	-	-	-
1980	811	101,528	4,442	1980	-	-	-
1981	1,093	135,333	4,273	1981	-	-	-
1982	1,142	169,525	4,601	1982	-	-	-
1983	1,069	163,992	3,219	1983	-	-	-
1984	2,035	237,004	3,300	1984	-	-	-
1985	2,061	259,583	2,450	1985	-	-	-
1986	3,878	467,932	3,136	1986	-	-	-
1987	3,406	428,732	3,185	1987	-	-	-
1988	3,035	412,277	3,214	1988	-	-	-
1989	2,581	354,890	3,041	1989	-	-	-
1990	2,039	260,998	3,112	1990	-	-	-
1991	800	94,685	1,333	1991	17	1,273	934
1992	787	72,294	2,175	1992	49	3,152	1,062
1993	406	31,887	1,196	1993	36	1,919	845
1994	569	41,143	1,775	1994	80	4,939	1,457
1995	413	29,035	690	1995	57	3,388	1,441
1996	510	32,133	1,333	1996	47	3,330	1,123
1997	614	47,863	1,147	1997	67	4,272	1,759
1998	740	47,511	1,158	1998	63	3,979	2,021
1999	2,176	49,192	1,047	1999	92	4,280	1,452
2000	2,118	48,153	1,257	2000	81	2,490	1,314
2001	2,133	48,426	2,111	2001	106	4,290	1,983
2002	1,727	39,485	1,695	2002	94	3,890	1,582
2003	1,814	37,772	1,761	2003	101	3,866	1,561
2004	2,668	57,014	1,875	2004	129	7,170	1,440
2005	2,956	62,944	2,451	2005	108	6,166	1160

Table 3. Canadian fishery sampling information by sector showing the number of hauls (or trips), number of lengths and number of ages taken by year. Samples sizes shown are the number of hauls or trips where length samples were taken.

Year	Canadian JV fishery samples			Year	Canadian shore-based fishery samples		
	No. Hauls	No. Lengths	No. Aged		No. Trips	No. Lengths	No. Aged
1988	231	75,767	1,557	1988	-	-	-
1989	261	56,202	1,353	1989	-	-	-
1990	171	33,312	1,024	1990	-	-	-
1991	632	97,205	1,057	1991	-	-	-
1992	429	60,391	1,786	1992	-	-	-
1993	500	70,522	1,228	1993	-	-	-
1994	875	122,871	2,196	1994	-	-	-
1995	183	20,552	1,747	1995	-	-	-
1996	813	99,228	1,526	1996	463	116	-
1997	414	16,957	1,430	1997	1,011	41,782	50
1998	468	45,117	1,113	1998	897	28,173	454
1999	66	8,663	812	1999	1,332	40,964	1,318
2000	375	45,946	1,536	2000	131	1,001	50
2001	284	26,817	1,424	2001	689	14,320	-
2002	-	-	-	2002	1,033	12,132	1,337
2003	-	-	-	2003	1,183	8,296	1,065
2004	595	60,025	1,102	2004	976	3,900	1,201
2005	58	5,206	292	2005	130	2,416	327

Table 4. U.S. fishery sampling summary by sector showing number of samples, total sampled weight, total fishery weight, and sampling intensity given as the percent of total catch weight sampled and catch weight per sample taken.

Year	Foreign-JV fishery sampling				U.S. Shore-based fishery sampling					
	No. Hauls	Sampled weight (mt)	Total fishery landings (mt)	% total weight Sampled	Weight (mt) per sample	No. Trips	Sampled weight (mt)	Total fishery landings (mt)	% total weight Sampled	Weight (mt) per sample
1975	13	47	205,654	0.0%	15,820	-	-	-	-	-
1976	249	4,165	231,331	1.8%	929	-	-	-	-	-
1977	1,071	4,239	127,013	3.3%	119	-	-	-	-	-
1978	1,135	4,769	97,683	4.9%	86	-	-	-	-	-
1979	1,539	6,797	123,743	5.5%	80	-	-	-	-	-
1980	811	10,074	71,560	14.1%	88	-	-	-	-	-
1981	1,093	9,846	113,921	8.6%	104	-	-	-	-	-
1982	1,142	23,956	74,553	32.1%	65	-	-	-	-	-
1983	1,069	27,110	72,100	37.6%	67	-	-	-	-	-
1984	2,035	13,603	93,611	14.5%	46	-	-	-	-	-
1985	2,061	11,842	81,545	14.5%	40	-	-	-	-	-
1986	3,878	24,602	151,501	16.2%	39	-	-	-	-	-
1987	3,406	22,349	155,653	14.4%	46	-	-	-	-	-
1988	3,035	21,499	153,822	14.0%	51	-	-	-	-	-
1989	2,581	20,560	203,578	10.1%	79	-	-	-	-	-
1990	2,039	16,264	175,685	9.3%	86	-	-	-	-	-
1991	800	15,833	196,905	8.0%	246	17	683	20,600	3.3%	1,212
1992	787	17,781	152,449	11.7%	194	49	1,964	56,127	3.5%	1,145
1993	406	11,306	99,103	11.4%	244	36	1,619	42,119	3.8%	1,170
1994	569	13,959	179,073	7.8%	315	80	4,461	73,656	6.1%	921
1995	413	9,833	102,624	9.6%	248	57	3,224	74,965	4.3%	1,315
1996	510	13,813	112,776	12.2%	221	47	3,036	85,127	3.6%	1,811
1997	614	17,264	121,173	14.2%	197	67	4,670	87,410	5.3%	1,305
1998	740	17,370	120,452	14.4%	163	63	4,231	87,856	4.8%	1,395
1999	2,176	47,541	115,259	41.2%	53	92	6,740	83,419	8.1%	907
2000	2,118	48,482	116,090	41.8%	55	81	7,735	85,828	9.0%	1,060
2001	2,133	43,459	102,129	42.6%	48	106	8,524	73,474	11.6%	693
2002	1,727	37,252	63,258	58.9%	37	94	7,089	45,708	15.5%	486
2003	1,814	38,067	67,473	56.4%	37	101	7,676	55,335	13.9%	548
2004	2,668	53,411	90,258	59.2%	34	129	10,918	96,229	11.3%	746
2005	2,956	66,356	150,400	44.1%	51	108	8,997	85,914	10.5%	796

Table 5. Canadian fishery sampling summary by sector showing number of samples, total sampled weight, total fishery weight, and sampling intensity given as the percent of total catch weight sampled and catch weight per

Year	Canadian JV fishery sampling					Canadian Shore-based fishery sampling				
	No. Hauls	Sampled weight (mt)	Total fishery landings (mt)	% total weight Sampled	Weight (mt) per sample	No. Trips	Sampled weight (mt)	Total fishery landings (mt)	% total weight Sampled	Weight (mt) per sample
1988	231	4,184	49,243	8.5%	213	-	-	-	-	-
1989	261	4,679	62,618	7.5%	240	-	-	-	-	-
1990	171	3,396	68,313	5.0%	399	-	-	-	-	-
1991	632	13,054	68,133	19.2%	108	-	-	-	-	-
1992	429	8,901	68,779	12.9%	160	-	-	-	-	-
1993	500	8,929	46,422	19.2%	93	-	-	-	-	-
1994	875	15,387	85,162	18.1%	97	-	-	-	-	-
1995	183	3,770	26,191	14.4%	143	-	-	-	-	-
1996	813	14,863	66,779	22.3%	82	463	21,297	26,395	80.7%	57
1997	414	8,325	42,565	19.6%	103	1,011	44,802	49,227	91.0%	49
1998	468	9,638	39,728	24.3%	85	897	45,982	48,074	95.6%	54
1999	66	1,970	17,201	11.5%	261	1,332	66,700	70,132	95.1%	53
2000	375	6,557	15,059	43.5%	40	131	5,791	6,382	90.7%	49
2001	284	6,072	21,650	28.0%	76	689	30,852	31,935	96.6%	46
2002	-	-	-	-	-	1,033	49,189	50,769	96.9%	49
2003	-	-	-	-	-	1,183	61,110	62,090	98.4%	52
2004	595	14,620	58,892	24.8%	99	976	58,624	65,345	89.7%	67
2005	58	1,630	15,178	10.7%	262	130	12,244	85,284	14.4%	656

Table 6. U.S. fishery sample sizes for conditional age at length. Sample size shown by year and length bin represent the sum of the total number of hauls (in the at-sea fishery) and trips (in the shore-based fishery) contributing age information to each 1 cm length category.

Length	Year samples were taken														
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
20			1		1	1	5								
21			1	2		3	9								
22		1		2		2	13								
23	1	1		4		1	23								
24	1	1		4		2	25	2					1		
25	1	3		10	1	1	29	5							
26	2	1		10	2		40	11	1		1			1	
27	2	4		9	2	1	34	9		1					
28	1	5		14	4	1	22	12			1				
29	3	4		7	10	1	21	18	6		2	1	1	2	
30	5	4		4	21	1	16	37	10		1	5		3	
31	3	6	2	2	27		12	38	11	3	3	8	1	9	
32	5	8			30	3	6	52	23	1	3	19	2	15	
33	2	9	4		46	4	9	62	23	2	3	22	3	2	15
34	4	10	5		33	9	12	66	35	6	2	49	6	3	8
35	4	7	12		24	19	16	62	39	12	1	41	16	3	10
36	5	13	28	3	17	38	28	55	51	25	1	42	29	3	13
37	5	23	56	7	19	66	49	59	55	41	2	40	60	15	9
38	3	26	71	17	12	74	59	48	62	72	7	39	79	56	17
39	2	45	99	51	11	84	78	50	58	112	16	36	88	101	40
40	6	58	114	88	17	89	94	62	62	121	43	51	97	129	79
41	10	53	146	129	25	83	84	66	69	135	78	85	104	141	120
42	9	55	141	176	36	93	85	86	77	125	107	114	112	141	129
43	9	56	160	171	44	88	88	94	72	112	121	119	121	145	125
44	10	54	160	158	65	100	101	99	69	93	124	110	117	153	127
45	8	47	147	165	72	111	101	100	69	82	115	113	113	152	125
46	9	47	142	148	74	114	107	99	75	83	101	105	106	150	130
47	7	39	132	144	84	96	114	103	74	74	79	100	102	137	133
48	10	42	128	154	83	90	122	111	70	67	63	83	92	123	118
49	8	44	136	143	76	85	122	116	69	66	58	67	83	81	98
50	4	57	123	147	83	90	105	101	71	50	52	77	59	68	74
51	5	62	135	156	89	87	113	112	59	49	25	59	40	45	49
52	6	60	140	184	85	92	107	100	66	43	24	51	31	34	40
53		69	146	178	86	94	116	106	66	28	17	52	18	22	35
54	2	64	147	186	78	105	96	104	61	20	15	44	14	15	27
55	4	58	161	176	70	102	80	86	57	11	11	27	8	14	14
56		67	139	156	66	102	65	85	44	5	3	31	5	8	15
57	1	65	131	115	58	102	56	81	32	5	4	24	5	13	8
58	1	62	94	103	41	88	39	48	32	4	3	11	3	11	8
59	2	57	95	60	47	52	34	53	17	7		11	2	4	7
60	1	56	73	60	22	60	36	37	22	2	1	7	5	6	3
61	48	60	45	26	39	30	28	15		1	8	3	5	6	
62	45	52	41	16	27	20	17	9	4		7	6	1		
63	30	46	27	12	25	20	21	12	4		3	1		3	
64	36	42	26	8	26	16	21	6	2		6	2	4	1	
65	33	23	18	13	19	8	18	6	1		5	3	3	1	
66	33	17	14	11	12	10	9	4			6	1	4	2	
67	33	15	18	6	11	10	10	4	1		4	2			
68	1	28	18	13	8	9	5	6	5	2	1	3	3	2	4
69	1	25	17	10	4	7	7	6	1	3		4	1	3	
70		71	62	60	16	14	15	14	12	9		25	5	12	4

Table 6. Continued.

Length	Year samples were taken														
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
20		2				1									
21		2													
22		1													
23		1													
24															
25															
26															
27			1									1			
28	2	2									2				
29	6	5									2	2			
30	5	1	6				1			8	3	6			
31	15	2	8	4			6			8	3	7	1		1
32	22	5	5	1		1	9		2	9	2	15			
33	24	13	3	5	1		17		4	19	1	19			1
34	45	23	4	5		1	23	1	1	29	2	28	1		2
35	51	32	3	17	3		30	1	5	41	2	32	2		4
36	76	33	6	31	9		30	7	13	38	6	50	11	2	
37	84	39	22	42	19	2	23	16	17	41	18	55	19	2	1
38	94	37	23	45	42	4	27	32	30	54	16	61	45	6	7
39	98	46	58	49	64	2	33	47	36	60	24	56	80	25	23
40	104	50	66	44	70	6	38	59	50	53	36	61	113	61	45
41	95	55	78	38	66	18	35	77	56	59	43	97	128	133	90
42	96	59	84	50	73	31	36	83	73	49	56	100	117	199	133
43	93	58	82	57	81	33	50	84	97	77	85	100	100	227	216
44	91	54	81	64	99	38	65	70	102	70	86	112	85	203	227
45	82	53	81	65	99	37	73	71	90	84	89	121	63	156	225
46	88	53	81	63	98	36	74	57	77	63	106	136	53	106	177
47	82	47	84	58	95	39	72	53	51	63	120	136	61	67	105
48	84	48	84	62	90	38	64	41	43	47	100	153	65	49	79
49	73	44	82	46	91	37	59	28	25	31	95	118	74	33	39
50	72	36	73	30	63	33	47	27	17	17	75	86	76	33	26
51	74	18	59	22	34	25	30	21	7	13	55	59	68	17	8
52	58	9	39	9	25	23	29	11	3	9	34	50	55	15	12
53	43	6	35	4	15	13	10	11	3	6	17	37	48	5	5
54	34	6	26	7	13	10	12	5	2	3	17	34	38	7	3
55	20	7	20	6	8	8	7	1	4		9	10	27	4	2
56	15	2	15	1	4	6	4	3	1		12	8	17	3	4
57	14	3	15	2	5	4	1	1		3	4	11	13		2
58	14	2	9		6	6	3	1	1	2	3	1	7		1
59	11	3	9	1	2	3	3	1	1		5	2	4	1	2
60	14		7		3	1	1	1		1	4	4	4		2
61	15	3	5	2	1	1	2	1		2	2	1	2		1
62	9	3	5		1	2	2		1	1	4		3		1
63	9	3	2		1	1	1	1			1		1		
64	8		3		1		1					2			
65	8	2	2		2		1		1		2	1	1	1	
66	8	5	2					1				1			1
67	6	2			1		1						1		
68	6	2	2		1									1	
69	7	1		1	1										
70	20	8	6	1	3	1	2	2				1			

Table 7. Canadian fishery sample sizes for conditional age at length. Sample size shown by year and length bin represent the sum of the total number of hauls (in the at-sea fishery) and trips (in the shore-based fishery) contributing age information to each 1 cm length category.

Year	Year samples were taken																		
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
20											1								
21												1							
22												1							
23										1		2							
24											2								
25											2								
26										1			2						
27										1									
28										1		1							
29												1				1			
30												1				1			
31										2		3	1	1					
32										2		5			2	1			
33								1	1	3		10			2	1			
34							1		3		1	7	1			2			
35	1							1		4		10	3			1			
36							1	1	8		4	16	4		1	1			
37	1						1		9		8	17	5		1	2			
38	1	2		1					12	1	10	19	6			2	2		
39	3	3	1	2					7	7	17	26	5			3			
40	4	2	3	1	3	5			8	10	18	27	9		1	11	1		
41	4	5	4	1	9	10	6	1	6	17	19	30	13	1	3	20	3		
42	4	6	5	3	15	14	10	6	14	21	25	35	14	3	11	26	12		
43	5	6	6	6	22	17	20	11	15	22	24	36	14	4	8	14	31	17	
44	5	6	4	14	27	17	24	18	22	22	25	35	17	6	3	14	32	19	
45	5	6	4	16	29	18	28	21	24	23	25	37	16	11	5	15	32	20	
46	5	6	4	16	29	18	29	21	24	23	25	38	18	15	11	15	32	20	
47	5	6	4	16	29	18	30	21	24	23	25	38	19	18	15	15	32	20	
48	5	6	4	16	29	18	31	21	24	23	23	34	19	20	22	15	31	19	
49	5	6	4	16	29	18	30	21	23	22	21	35	19	20	24	15	31	17	
50	5	6	5	16	27	17	28	21	23	22	22	31	20	20	25	15	31	12	
51	5	6	5	16	28	13	28	21	22	18	17	27	18	20	26	13	27	12	
52	5	6	6	13	16	12	27	17	17	18	8	22	16	20	26	13	18	2	
53	5	6	4	13	15	4	23	17	11	14	8	14	17	19	26	11	17	5	
54	5	4	5	8	12	5	18	14	12	9	6	11	15	18	26	11	13	7	
55	4	5	3	4	7	1	21	11	4	5	2	9	9	19	26	9	11	6	
56	4	4	4	8	4		12	7	7	2	2	6	10	17	25	7	5	4	
57	4	4	4	3	4			9	5	7	3	3	2	6	17	25	6	7	2
58	4	3	3	5	4	5	6	9	6		2	4	6	17	21	8	3	2	
59	3	2	4	3	1			8	6	1	1	4	8	12	13	5	1	1	
60	3	2	3	2	3			6	4	4	1	1	4	9	18	5	5		
61	2	1	2	2				5	4	4		1	4	7	12	3	2	1	
62	1	3	4	2	1			3	1	1		1	4	12	1	1			
63	1	3	4		2			2	2		1		2	2	7	1	2		
64	1	2	2	1				3	3	1		1	1	2	2	1		1	
65	1	1	2					5	1	2			3	1	1	1	1		
66	1	1	1					1	1	1			2	1	1	2		1	
67	2	2						1					1	2	1				
68									1	1					1	1	1		
69									1								1		
70	1	4	1	1	1			2	1				1						

Table 8. Acoustic survey sampling information showing the number of hauls, number of lengths and number of hake aged by year.

Year	No. hauls	No. lengths	No. aged
1977	85	11,695	4,262
1980	49	8,296	2,952
1983	35	8,614	1,327
1986	43	12,702	2,074
1989	22	5,606	1,730
1992	43	15,852	2,184
1995	69	22,896	2,118
1998	84	33,347	2,417
2001	49	16,442	2,536
2003	71	19,357	3,007
2005	49	13,644	1,905

Table 9. Acoustic survey sample sizes for conditional age at length. Sample size shown by year and length bin represent the sum of the total number of hauls contributing age information to each 1 cm length category.

Length	Number hauls by length and year										
	1977	1980	1983	1986	1989	1992	1995	1998	2001	2003	2005
24						2		1			
25						2		3			1
26	1					2		2			
27					1	4		4	2		
28	1					2	2	10		1	1
29	1	1		2		5	1	13			1
30	1			3		7	2	16	3	2	4
31	2			6		7	4	20	8	2	6
32	3			8		8	9	23	14	4	7
33	4		2	8	1	8	13	23	17	4	10
34	3	4	4	9	3	8	15	31	20	8	8
35	9	7	3	9	4	7	21	31	20	8	10
36	14	9	5	11	6	6	20	30	20	8	9
37	16	10	7	8	8	6	17	36	17	9	10
38	14	12	8	10	7	5	14	39	13	14	8
39	17	10	9	5	9	8	6	50	10	14	10
40	20	12	13	6	10	7	11	44	17	29	6
41	22	11	11	12	15	10	15	55	14	43	22
42	24	10	11	21	20	24	26	62	18	56	28
43	29	12	9	21	20	28	40	66	22	55	36
44	34	13	13	20	20	36	45	64	17	59	41
45	40	16	12	21	20	38	49	57	29	61	42
46	41	18	13	21	20	39	53	49	29	53	41
47	45	19	12	17	18	37	50	51	30	55	39
48	48	21	13	18	16	34	47	46	30	43	32
49	48	24	12	16	16	30	38	31	28	41	27
50	45	22	12	16	10	22	27	22	27	32	23
51	47	22	11	16	8	18	17	9	25	28	12
52	46	21	10	11	9	14	14	5	26	24	12
53	44	19	9	13	6	6	10	6	24	19	9
54	40	18	8	8	5	3	7	4	25	12	5
55	38	17	6	9	2	4	5	2	18	12	3
56	31	19	5	4	2	5	6	2	13	7	5
57	33	16	7	4		4	3	3	10	6	2
58	27	11	2	3	3	3	5	5	10	5	1
59	19	14	3	3	2	1	2		7	3	1
60	18	7	1	4	2	1	2	1	8	6	
61	16	4	2	3		1	1	2	5	2	
62	11	3	2	2		2	4		3	5	
63	11	2	1		1	3	2		2		
64	10	2		3	1		1		4	2	1
65	8	3	1	1	1		2		3	2	1
66	8	2	1				2		2	2	
67	8	2		1			2		1	2	
68	7	4		1					2		1
69	4	3	1	1	1		1	1	4	2	1
70	7	3		1	2		3		4	6	6

Table 10. Acoustic survey estimates of Pacific whiting biomass and age composition. Surveys in 1995 and 1998 were cooperative surveys between AFSC and DFO. Biomass and age composition for 1977-89 were adjusted as described in Dorn (1996) to account for changes in target strength, depth and geographic coverage. Biomass estimates at 20 log 1 - 68 in 1992 and 1995 are from Wilson and Guttormson (1997). The biomass in 1995 includes 27,251 t of Pacific whiting found by the DFO survey vessel W.E. Ricker in Queen Charlotte Sound. (This estimate was obtained from 43,200 t, the biomass at -35 dB/kg multiplied by 0.631, a conversion factor from -35 dB/kg to 20 log 1 - 68 for the U.S. survey north of 50°30' N lat.). In 1992, 1995, and 1998, 20,702 t, 30,032 t, and 8,034 t of age-1 fish respectively is not included in the total survey biomass. In 2001-2005 no age one fish were captured in survey trawls. Estimates of biomass and numbers at age from 1977-1992 include revised based on year-specific deep-water and northern expansion factors (Helser et al. 2004).

Year	Total biomass at 20 log 1 - 68 (1,000 t)		Number at age (million)													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1977	1915.01	0.24	151.94	144.57	902.04	82.60	115.79	1001.86	138.13	102.08	58.53	54.82	28.54	10.61	2.79	3.46
1980	2115.09	0.00	16.18	1971.21	190.90	115.65	94.42	417.83	154.83	333.21	133.62	78.76	13.26	22.81	4.75	3.49
1983	1646.68	0.00	1.10	3254.35	107.83	32.62	428.59	68.59	47.27	33.71	92.68	21.86	25.80	26.90	4.32	0.00
1986	2857.06	0.00	4555.66	119.65	21.04	148.80	2004.57	215.71	171.63	225.45	27.33	28.72	2.08	10.85	3.49	0.00
1989	1237.69	0.00	411.82	141.76	31.19	1276.32	28.43	10.08	18.30	435.18	22.95	1.75	43.08	0.00	0.00	1.76
1992	2169.20	230.71	318.37	42.50	246.38	630.74	77.96	31.61	1541.82	46.68	28.08	14.14	533.23	27.13	0.00	28.42
1995	1385.00	316.41	880.52	117.80	32.62	575.90	26.58	88.78	403.38	5.90	0.00	429.34	0.96	17.42	0.00	130.39
1998	1185.00	98.31	414.33	460.41	386.81	481.76	34.52	135.59	215.61	26.41	39.14	120.27	7.68	4.92	104.47	29.19
2001	737.00	0.00	1471.36	185.56	109.35	117.25	54.26	54.03	29.41	17.11	12.03	5.07	4.48	8.73	0.83	3.10
2003	1840.00	5.19	99.78	84.88	2146.50	366.87	92.55	201.22	133.09	73.54	74.67	24.06	14.18	14.63	10.33	14.12
2005	1265.16	8.65	601.86	61.02	180.86	129.98	1210.5	132.12	45.07	61.09	34.83	28.17	11.9	6.11	0.81	4.35

Table 11 Santa Cruz midwater trawl juvenile groudfish survey estimates of log-transformed Pacific hake abundance (Sakuma and Ralston 1997).

Year class	Year of recruitment	All Strata		Monterey outside stratum only	
		log(numbers)	SE	log(numbers)	SE
1986	1988	1.679	0.192	3.153	0.507
1987	1989	3.129	0.172	6.258	0.490
1988	1990	3.058	0.161	4.917	0.474
1989	1991	0.979	0.170	2.008	0.490
1990	1992	1.323	0.173	3.553	0.490
1991	1993	2.134	0.167	3.769	0.490
1992	1994	0.583	0.166	2.561	0.507
1993	1995	3.095	0.173	7.048	0.490
1994	1996	2.152	0.177	3.470	0.490
1995	1997	0.768	0.173	1.940	0.490
1996	1998	1.968	0.174	4.586	0.507
1997	1999	1.487	0.197	2.767	0.526
1998	2000	0.602	0.177	1.599	0.507
1999	2001	-	-	4.589	0.490
2000	2002	-	-	2.616	0.507
2001	2003	-	-	3.415	0.490
2002	2004	-	-	2.130	0.528
2003	2005	-	-	0.508	0.490
2004	2006	-	-	4.547	0.490
2005	2007	-	-	0.273	0.490

Table 12 Parameter assumptions and model configuration of Stock Synthesis II (Ver. 1.21) for Pacific hake. The alternative model imposes a prior on the Ln acoustic survey q equivalent to mean = 1.0 and standard deviation = 0.10.

Parameter	Number Estimated	Bounds (low,high)	Prior (Mean, SD)
Natural Mortality	-	NA	Fixed at 0.23
		<u>Stock and recruitment</u>	
Ln(Rzero)	1	(11,15)	~N(15,99)
Steepness	-	NA	Fixed at 0.75
Sigma R (based on 1967-2003 R devs)	-	NA	Fixed at 1.138
Ln(Recruitment deviations): 1967-2005	39	(-15,15)	~Ln(N(0.5.Sigma R))
		<u>Catchability</u>	
Ln(Acoustic survey)	-	NA	fixed at 1.0 / q prior ¹
Ln(Recruitment survey)	1	(-15,10)	~N(-1,99)
		<u>Selectivity (double logistic)</u>	
US Fishery:			
<i>Base Period block: 1966 - 1983</i>			
Ascending inflection (ln trans.)	1	(1,10)	~N(3,99)
Ascending slope	1	(0.001,10)	~N(2.5,99)
Descending inflection (ln trans.)	1	(1,20)	~N(12,99)
Descending slope	1	(0.001,10)	~N(1,0,99)
Temporal blocks for all: 1984-1992, 1993-2000, 2001-2005	12	same as above	same as above
Canadian Fishery:			
<i>Base Period block: 1966 - 1994</i>			
Ascending inflection (ln trans.)	1	(1,20)	~N(3,99)
Ascending slope	1	(0.001,10)	~N(1,0,99)
Descending inflection (ln trans.)	1	(1,40)	~N(13,99)
Descending slope	1	(0.001,10)	~N(1,0,99)
Temporal blocks for ascending infl and slp: 1995-2000, 2001-2002, 2003-2005	6	same as above	same as above
Acoustic Survey:			
Ascending inflection (ln trans.)	1	(1,10)	~N(3,99)
Ascending slope	1	(0.001,10)	~N(1,0,99)
Descending inflection (ln trans.)	1	(1,20)	~N(7,99)
Descending slope	1	(0.001,10)	~N(1,0,99)
		<u>Individual growth</u>	
Sex combined:			
Length at age min (age 2)	1	(10,40)	~N(33,99)
base period Lmax 1966-1983	1	(30,70)	~N(53,99)
blocks for Lmax: 1984-2005	1	(30,70)	~N(53,99)
base period von Bertalanffy K, 1966-1980 and 1987-2005	1	(0.1,0.7)	~N(0.3,99)
blocks for von Bertalanffy K, 1981-1986	1	(0.1,0.7)	~N(0.3,99)
CV of length at age min	1	(0.01,0.35)	~N(0.1,99)
CV of length at age max	-	NA	fixed at 0
Total number of parameters: 38 + 39 recruitment devs	= 77		

¹ Alternative model includes estimation of Acoustic survey $q \sim \text{LN}(0.0, 0.112)$

Table 13. Maximum likelihood model parameter estimates with asymptotic standard deviations from Stock Synthesis II (Ver. 1.21) applied to Pacific hake for the base and alternative models.

Parameter	Base Model, $q=1.0, h=0.75$		$h=0.75, q$ prior	
	MLE	Asympt. SD	MLE	Asympt. SD
<u>Stock and recruitment</u>				
Ln(Rzero)	15.42	0.05	15.537	0.062
<u>Catchability</u>				
Ln(Acoustic survey)	NE	NE	-0.357	0.090
Ln(Recruitment survey)	-10.970	0.259	-11.113	0.263
<u>Selectivity (double logistic)</u>				
US Fishery:				
<i>Base Period block: 1966 - 1983</i>				
Ascending inflection (ln trans.)	3.357	0.070	3.330	0.073
Ascending slope	1.673	0.077	1.690	0.078
Descending inflection (ln trans.)	11.906	0.111	11.850	0.113
Descending slope	1.058	0.049	1.044	0.048
<i>Block 1984 - 1992</i>				
Ascending inflection (ln trans.)	2.499	0.044	2.477	0.044
Ascending slope	2.532	0.141	2.570	0.146
Descending inflection (ln trans.)	12.530	0.147	12.440	0.149
Descending slope	1.259	0.084	1.226	0.081
<i>Block 1993- 2000</i>				
Ascending inflection (ln trans.)	2.955	0.056	2.945	0.056
Ascending slope	2.343	0.111	2.386	0.111
Descending inflection (ln trans.)	13.979	0.159	13.859	0.165
Descending slope	1.623	0.240	1.486	0.204
<i>Block 2001- 2005</i>				
Ascending inflection (ln trans.)	2.918	0.042	2.923	0.042
Ascending slope	3.051	0.137	3.060	0.137
Descending inflection (ln trans.)	13.222	0.376	13.040	0.489
Descending slope	1.742	0.403	1.547	0.427
Canadian Fishery:				
<i>Base Period block: 1966 - 1994</i>				
Ascending inflection (ln trans.)	5.160	0.127	5.124	0.127
Ascending slope	1.313	0.093	1.323	0.095
Descending inflection (ln trans.)	13.085	0.153	12.990	0.153
Descending slope	1.355	0.107	1.285	0.098
<i>Base Period block: 1995 - 2000</i>				
Ascending inflection (ln trans.)	4.670	0.316	4.528	0.301
Ascending slope	0.633	0.070	0.667	0.074
<i>Base Period block: 2001 - 2002</i>				
Ascending inflection (ln trans.)	3.623	0.102	3.627	0.104
Ascending slope	4.995	0.757	4.994	0.761
<i>Base Period block: 2003 - 2005</i>				
Ascending inflection (ln trans.)	4.715	0.136	4.705	0.137
Ascending slope	1.703	0.182	1.712	0.185
Acoustic Survey:				
Ascending inflection (ln trans.)	11.564	0.189	11.633	0.192
Ascending slope	0.944	0.038	0.936	0.039
Descending inflection (ln trans.)	2.373	0.232	2.445	0.230
Descending slope	0.859	0.043	0.865	0.043
Growth Parameters:				
Length at age min (Lmin, age 2)	33.076	0.087	33.077	0.096
Base period Lmax, 1966-1983	53.017	0.081	53.021	0.128
Block for Lmax: 1984-2005	49.890	0.057	49.893	0.113
Base period K, 1966-1980, 1987-2005	0.332	0.004	0.331	0.007
Blocks for K: 1981-1986	0.212	0.004	0.212	0.007
CV of length at age min	0.072	0.000	0.072	0.001

Table 14a. Time series of estimated 3+ biomass, spawning biomass, recruitment, and utilization for 1966-2006 from the base model using Stock Synthesis 2. U.S. and Canadian exploitation rate is the catch in biomass divided by vulnerable at the start of the year. Population (3+) and spawning biomass is in millions of tons at the start of the year. Recruitment is given in billions of age-0 fish.

Year	3+ Population	Spawning	Age 0	Depletion	Exploitation Rate		
	biomass (mt)	biomass (mt)	Recruits	% Bzero	U.S.	Canada	Sum
1966	7.832	3.814	4.974	100.00%	2.6%	0.0%	2.6%
1967	7.704	3.750	5.582	98.34%	3.4%	0.9%	4.3%
1968	7.521	3.660	5.908	95.98%	1.2%	1.6%	2.8%
1969	7.454	3.636	6.019	95.34%	1.7%	2.5%	4.2%
1970	7.459	3.628	15.027	95.14%	3.1%	2.0%	5.2%
1971	7.500	3.641	5.244	95.46%	2.5%	0.7%	3.2%
1972	7.659	3.856	2.889	101.10%	1.4%	1.2%	2.5%
1973	9.498	4.385	9.428	114.99%	2.4%	0.4%	2.8%
1974	9.609	4.589	2.368	120.32%	2.8%	0.4%	3.3%
1975	9.038	4.518	3.361	118.46%	3.0%	0.3%	3.3%
1976	9.514	4.507	1.931	118.18%	3.4%	0.1%	3.5%
1977	8.749	4.283	13.685	112.30%	2.0%	0.1%	2.1%
1978	8.175	3.990	1.774	104.63%	1.6%	0.1%	1.7%
1979	7.376	3.817	2.757	100.09%	2.2%	0.3%	2.5%
1980	8.722	4.012	33.618	105.19%	1.3%	0.4%	1.7%
1981	7.968	3.979	0.837	104.33%	2.1%	0.6%	2.7%
1982	7.248	3.771	0.357	98.88%	1.4%	0.8%	2.2%
1983	11.692	4.157	0.769	108.99%	1.2%	1.0%	2.1%
1984	11.020	4.615	17.771	121.01%	1.1%	1.0%	2.0%
1985	9.558	4.581	0.328	120.11%	1.1%	0.5%	1.6%
1986	8.215	4.197	0.851	110.04%	2.2%	1.0%	3.2%
1987	9.503	3.975	5.298	104.21%	2.1%	1.4%	3.6%
1988	8.425	3.725	2.326	97.68%	2.3%	1.9%	4.2%
1989	7.282	3.550	0.596	93.08%	3.5%	2.2%	5.6%
1990	6.833	3.259	2.859	85.45%	3.4%	1.8%	5.3%
1991	6.041	2.893	1.158	75.86%	4.7%	2.5%	7.2%
1992	4.981	2.471	0.567	64.78%	5.6%	3.0%	8.6%
1993	4.413	2.110	2.444	55.32%	4.3%	2.5%	6.7%
1994	3.772	1.816	2.910	47.62%	9.3%	5.7%	15.0%
1995	2.962	1.473	2.062	38.62%	8.7%	4.4%	13.1%
1996	2.7	1.293	1.988	33.89%	11.9%	6.7%	18.5%
1997	2.5	1.169	1.933	30.64%	13.9%	7.9%	21.8%
1998	2.2	1.056	2.814	27.70%	15.0%	8.7%	23.7%
1999	2.0	0.952	13.789	24.97%	15.9%	9.4%	25.3%
2000	1.8	0.880	0.990	23.07%	15.6%	2.5%	18.1%
2001	1.9	1.054	1.372	27.64%	12.6%	5.1%	17.8%
2002	3.8	1.485	0.234	38.93%	5.2%	4.1%	9.3%
2003	3.7	1.684	2.338	44.17%	4.4%	4.7%	9.1%
2004	3.4	1.617	1.446	42.40%	7.0%	6.3%	13.3%
2005	2.8	1.386	0.279	36.34%	10.1%	4.9%	15.0%
2006	2.5	1.178	2.192	30.89%	-	-	-
2005	5% - 95% Asymptotic Interval			30.4% - 42.1%			
2006	5% - 95% Asymptotic Interval			24.7% - 36.9%			

Table 14b. Time series of estimated 3+ biomass, spawning biomass, recruitment, and utilization for 1966-2006 from the alternative model using Stock Synthesis 2. U.S. and Canadian exploitation rate is the catch in biomass divided by vulnerable biomass at the start of the year. Population (3+) and spawning biomass is in millions of tons at the start of the year. Recruitment is given in billions of age-0 fish.

Year	3+ Population biomass (mt)	Spawning biomass (mt)	Age 0 Recruits	Depletion % Bzero	U.S.	Exploitation Rate Canada	Sum
1966	8.804	4.287	5.593	100.00%	2.3%	0.0%	2.3%
1967	8.676	4.224	6.281	98.52%	3.0%	0.8%	3.8%
1968	8.493	4.133	6.634	96.42%	1.0%	1.4%	2.5%
1969	8.426	4.110	6.748	95.88%	1.5%	2.2%	3.7%
1970	8.445	4.108	16.828	95.83%	2.8%	1.8%	4.5%
1971	8.507	4.130	5.867	96.33%	2.2%	0.6%	2.8%
1972	8.686	4.372	3.228	101.98%	1.2%	1.0%	2.2%
1973	10.741	4.962	10.523	115.75%	2.1%	0.3%	2.5%
1974	10.864	5.190	2.637	121.06%	2.5%	0.4%	2.9%
1975	10.229	5.113	3.734	119.26%	2.6%	0.3%	2.9%
1976	10.761	5.101	2.140	118.99%	3.0%	0.1%	3.1%
1977	9.908	4.851	15.097	113.16%	1.7%	0.1%	1.8%
1978	9.254	4.518	1.952	105.40%	1.4%	0.1%	1.5%
1979	8.347	4.315	3.019	100.66%	2.0%	0.2%	2.2%
1980	9.808	4.518	36.826	105.38%	1.2%	0.4%	1.5%
1981	8.953	4.469	0.914	104.25%	1.8%	0.5%	2.4%
1982	8.140	4.231	0.388	98.70%	1.2%	0.7%	1.9%
1983	12.984	4.643	0.830	108.31%	1.0%	0.9%	1.9%
1984	12.227	5.134	19.113	119.77%	1.0%	0.9%	1.8%
1985	10.607	5.088	0.351	118.68%	1.0%	0.4%	1.4%
1986	9.118	4.654	0.908	108.56%	2.0%	0.9%	2.9%
1987	10.470	4.399	5.631	102.61%	1.9%	1.3%	3.2%
1988	9.280	4.117	2.470	96.03%	2.1%	1.7%	3.8%
1989	8.026	3.913	0.632	91.29%	3.2%	1.9%	5.1%
1990	7.516	3.589	3.029	83.72%	3.1%	1.7%	4.8%
1991	6.643	3.185	1.231	74.30%	4.3%	2.3%	6.6%
1992	5.492	2.724	0.607	63.55%	5.2%	2.7%	7.9%
1993	4.866	2.330	2.640	54.34%	3.9%	2.3%	6.2%
1994	4.163	2.007	3.190	46.81%	8.6%	5.2%	13.8%
1995	3.294	1.638	2.312	38.22%	7.9%	4.0%	11.9%
1996	3.0	1.443	2.275	33.67%	10.8%	6.0%	16.8%
1997	2.8	1.314	2.275	30.66%	12.6%	7.0%	19.5%
1998	2.6	1.202	3.435	28.05%	13.4%	7.5%	20.9%
1999	2.3	1.102	17.323	25.72%	13.9%	8.0%	21.9%
2000	2.2	1.044	1.267	24.35%	13.2%	2.1%	15.3%
2001	2.3	1.288	1.787	30.04%	10.5%	4.3%	14.7%
2002	4.8	1.857	0.312	43.32%	4.2%	3.3%	7.5%
2003	4.7	2.132	3.137	49.74%	3.5%	3.7%	7.2%
2004	4.4	2.075	1.663	48.40%	5.5%	4.9%	10.3%
2005	3.7	1.826	0.323	42.59%	7.6%	3.7%	11.3%
2006	3.4	1.601	2.565	38.00%	-	-	-
2005	5% - 95% Asymptotic Interval			35.2% - 50.1%			
2006	5% - 95% Asymptotic Interval			29.7% - 45.0%			

Table 15a. Estimates of uncertainty as expressed by asymptotic 95% confidence intervals of spawning biomass and recruitment to age-0 from the base model. Deviations from log mean recruitment were estimated between 1967-2003 and values given for 1966 and 2004-2006 represent mean recruitment.

Year	Spawning biomass (millions, mt)			Recruitment to Age-0 (billions)		
	MLE	Asymptotic interval		MLE	Asymptotic interval	
		5%	95%		5%	95%
1966	3.814	3.460	4.161	4.974	4.536	5.447
1967	3.750	3.397	4.098	5.582	4.801	6.492
1968	3.660	3.307	4.008	5.908	5.122	6.818
1969	3.636	3.281	3.985	6.019	5.235	6.920
1970	3.628	3.264	3.987	15.027	13.242	17.060
1971	3.641	3.259	4.018	5.244	4.560	6.028
1972	3.856	3.437	4.270	2.889	2.488	3.353
1973	4.385	3.896	4.872	9.428	8.280	10.727
1974	4.589	4.061	5.114	2.368	2.049	2.738
1975	4.518	3.983	5.051	3.361	2.929	3.856
1976	4.507	3.960	5.051	1.931	1.656	2.251
1977	4.283	3.751	4.812	13.685	12.229	15.319
1978	3.990	3.491	4.487	1.774	1.519	2.073
1979	3.817	3.344	4.289	2.757	2.397	3.171
1980	4.012	3.530	4.491	33.618	30.730	36.784
1981	3.979	3.512	4.445	0.837	0.686	1.020
1982	3.771	3.334	4.207	0.357	0.272	0.467
1983	4.157	3.704	4.608	0.769	0.641	0.922
1984	4.615	4.141	5.088	17.771	16.599	18.991
1985	4.581	4.122	5.039	0.328	0.260	0.413
1986	4.197	3.787	4.606	0.851	0.740	0.978
1987	3.975	3.601	4.347	5.298	4.954	5.673
1988	3.725	3.386	4.064	2.326	2.144	2.525
1989	3.550	3.240	3.858	0.596	0.522	0.679
1990	3.259	2.982	3.535	2.859	2.662	3.067
1991	2.893	2.651	3.134	1.158	1.052	1.274
1992	2.471	2.263	2.677	0.567	0.499	0.644
1993	2.110	1.933	2.286	2.444	2.258	2.640
1994	1.816	1.665	1.966	2.910	2.673	3.163
1995	1.473	1.345	1.601	2.062	1.861	2.281
1996	1.293	1.180	1.405	1.988	1.762	2.238
1997	1.169	1.063	1.273	1.933	1.671	2.227
1998	1.056	0.954	1.157	2.814	2.365	3.328
1999	0.952	0.849	1.054	13.789	11.337	16.692
2000	0.880	0.767	0.990	0.990	0.770	1.264
2001	1.054	0.891	1.213	1.372	1.048	1.783
2002	1.485	1.217	1.746	0.234	0.147	0.371
2003	1.684	1.358	2.003	2.338	1.502	3.618
2004	1.617	1.280	1.945	1.446	0.417	5.004
2005	1.386	1.060	1.703	0.279	0.069	1.131
2006	1.178	0.857	1.491	2.192	0.366	13.103

Table 15b. Estimates of uncertainty as expressed by asymptotic 95% confidence intervals of spawning biomass and recruitment to age-0 from the alternative model. Deviations from log mean recruitment were estimated between 1967-2003 and values given for 1966 and 2004-2006 represent mean recruitment.

Year	Spawning biomass (millions, mt)			Recruitment to Age-0 (billions)		
	MLE	Asymptotic interval		MLE	Asymptotic interval	
		5%	95%		5%	95%
1966	4.287	3.764	4.810	5.593	4.955	6.313
1967	4.224	3.701	4.746	6.281	5.289	7.459
1968	4.133	3.611	4.656	6.634	5.623	7.825
1969	4.110	3.585	4.635	6.748	5.740	7.933
1970	4.108	3.572	4.645	16.828	14.480	19.557
1971	4.130	3.573	4.687	5.867	4.995	6.890
1972	4.372	3.767	4.977	3.228	2.726	3.821
1973	4.962	4.267	5.657	10.523	9.046	12.241
1974	5.190	4.450	5.929	2.637	2.237	3.109
1975	5.113	4.366	5.859	3.734	3.193	4.366
1976	5.101	4.345	5.857	2.140	1.807	2.536
1977	4.851	4.119	5.583	15.097	13.222	17.238
1978	4.518	3.832	5.204	1.952	1.646	2.315
1979	4.315	3.664	4.966	3.019	2.585	3.527
1980	4.518	3.860	5.175	36.826	32.934	41.176
1981	4.469	3.832	5.106	0.914	0.742	1.125
1982	4.231	3.633	4.830	0.388	0.294	0.511
1983	4.643	4.025	5.261	0.830	0.685	1.005
1984	5.134	4.487	5.782	19.113	17.489	20.888
1985	5.088	4.457	5.719	0.351	0.277	0.446
1986	4.654	4.085	5.223	0.908	0.782	1.055
1987	4.399	3.875	4.922	5.631	5.167	6.137
1988	4.117	3.638	4.595	2.470	2.240	2.724
1989	3.913	3.471	4.356	0.632	0.548	0.729
1990	3.589	3.189	3.989	3.029	2.771	3.311
1991	3.185	2.832	3.538	1.231	1.102	1.375
1992	2.724	2.418	3.030	0.607	0.527	0.698
1993	2.330	2.065	2.594	2.640	2.384	2.924
1994	2.007	1.778	2.235	3.190	2.848	3.573
1995	1.638	1.441	1.835	2.312	2.021	2.645
1996	1.443	1.266	1.620	2.275	1.945	2.661
1997	1.314	1.146	1.482	2.275	1.893	2.735
1998	1.202	1.037	1.368	3.435	2.774	4.253
1999	1.102	0.934	1.271	17.323	13.667	21.956
2000	1.044	0.860	1.227	1.267	0.953	1.684
2001	1.288	1.025	1.551	1.787	1.322	2.416
2002	1.857	1.437	2.277	0.312	0.192	0.505
2003	2.132	1.624	2.641	3.137	1.978	4.976
2004	2.075	1.552	2.598	1.663	0.467	5.924
2005	1.826	1.322	2.330	0.323	0.079	1.315
2006	1.601	1.109	2.093	2.565	0.428	15.370

Table 16. Three year projections of Pacific hake assuming the maximum potential catch would be removed under the 40:10 harvest control rule. Projections were based on the relative F contribution from the U.S. and Canadian fishery commensurate with the 74% and 26% coast wide national allocation.

Year	Expected coastwide catch (mt)	Spawning biomass millions mt			Depletion percent unfished biomass		
		Mean	5%	95%	Mean	5%	95%
<i>Base model, h=0.75, q=1.0</i>							
2006	593,750	1.174	0.857	1.491	30.8%	24.7%	36.9%
2007	358,420	0.864	0.636	1.092	22.7%	18.1%	27.2%
2008	213,220	0.679	0.485	0.873	17.8%	13.5%	22.1%
2009	183,620	0.657	0.337	0.976	17.2%	9.2%	25.3%
<i>Alt. model, h=0.75, q prior</i>							
2006	883,490	1.601	1.109	2.093	38.0%	29.7%	45.0%
2007	522,510	1.130	0.795	1.464	26.4%	21.0%	31.7%
2008	302,300	0.851	0.588	1.113	19.8%	15.1%	24.5%
2009	240,700	0.792	0.404	1.179	18.5%	10.0%	26.9%

Table 17. Comparison of likelihood components and derived quantities of interest from alternative models. Likelihood components in italics are not comparable to other values due to the exclusion of some data.

Likelihood components	Base		Alt.		no < 1992		Asymptotic selectivity
	<i>h = 0.75</i>	<i>q = 1.0</i>	<i>h = 0.75</i>	<i>q prior</i>	free <i>m</i>	<i>q prior</i>	
Total negative log-likelihood	10,459.8	10,451.5	10,756.3	10,450.1	<i>9,958.1</i>	10,458.7	10,941.6
Indices	26.2	21.7	26.5	21.8	<i>20.9</i>	26.9	21.2
Length comps	1,798.3	1,800.7	1,852.4	1,799.2	<i>1,786.4</i>	1,797.9	1,835.2
Age comps	8,608.6	8,597.3	8,847.6	8,597.4	<i>8,121.6</i>	8,607.3	9,056.2
Recruitment devs	23.3	23.3	26.5	23.2	<i>22.9</i>	23.3	25.8
Parameter priors	0.0	5.1	0.0	5.3	<i>3.0</i>	0.0	0.0
Forecast devs	3.3	3.3	3.3	3.1	<i>3.3</i>	3.3	3.1
By fleet							
<u>US. Fishery</u>							
Length comps	1,212.9	1,217.3	1,241.9	1,215.7	1,216.5	1,212.5	1,228.5
Age comps	5,078.9	5,070.7	5,270.9	5,070.9	5,088.8	5,080.5	5,300.6
<u>Canadian fishery</u>							
Length comps	496.0	494.4	517.2	494.7	496.7	496.2	518.7
Age comps	2,175.2	2,176.4	2,119.3	2,177.6	2,150.1	2,174.2	2,103.5
<u>Acoustic survey</u>							
Index	7.3	1.9	9.6	2.0	<i>-0.4</i>	7.8	4.6
Length comps	89.4	88.9	93.3	88.8	<i>73.3</i>	89.3	88.1
Age comps	1,354.5	1,350.2	1,457.4	1,349.0	882.6	1,352.6	1,652.1
<u>Recruitment survey</u>							
Index	18.9	19.9	16.9	19.9	21.3	19.2	16.6
Derived quantities							
Sbzero	3,810,000	4,286,920	3,542,590	4,105,780	4,203,785	3,639,110	1,961,335
2006 depletion	0.308	0.380	0.197	0.407	0.495	0.337	0.097
2006 SB	1,175,000	1,600,895	1,395,620	3,342,960	4,161,910	2,454,090	379,228
2005 SPR	0.618	0.686	0.628	0.694	0.739	0.628	0.294
2006 OY	593,746	883,490	411,747	941,708	1,205,510	648,139	10

Table 18. Decision table showing the consequences of management action given a state of nature. States of nature include the base model ($h=0.75$, $q=1.0$) and the alternative model ($h=0.75$, q prior). The management actions include the OY from each state of nature and two constant coastwide catch scenarios.

Relative probability Model		State of Nature		
		0.50		0.50
		$h = 0.75, q = 1.0$	$h = 0.75, q$ prior	
Total coast-wide				
Management action	Catch (mt)	Year	Relative depletion (2.5%-97.5% interval)	
OY Model $h=0.75, q=1.0$	593,746	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	358,416	2007	0.227 (0.181-0.272)	0.310 (0.219-0.401)
	213,223	2008	0.178 (0.135-0.221)	0.263 (0.164-0.363)
	183,620	2009	0.172 (0.092-0.253)	0.254 (0.127-0.380)
OY Model $h=0.75, q$ prior	883,490	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	522,511	2007	0.202 (0.125-0.279)	0.268 (0.215-0.322)
	302,298	2008	0.144 (0.056-0.232)	0.202 (0.155-0.249)
	240,702	2009	0.136 (0.020-0.252)	0.188 (0.104-0.273)
Total coast-wide catch = 200,000 mt	200,000	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	200,000	2007	0.282 (0.209-0.354)	0.351 (0.264-0.438)
	200,000	2008	0.250 (0.167-0.333)	0.315 (0.219-0.411)
	200,000	2009	0.239 (0.125-0.352)	0.299 (0.175-0.423)
Total coast-wide catch = 400,000 mt	400,000	2006	0.308 (0.247-0.369)	0.380 (0.304-0.457)
	400,000	2007	0.258 (0.184-0.332)	0.330 (0.241-0.419)
	400,000	2008	0.207 (0.122-0.292)	0.276 (0.177-0.375)
	400,000	2009	0.178 (0.063-0.294)	0.245 (0.118-0.372)

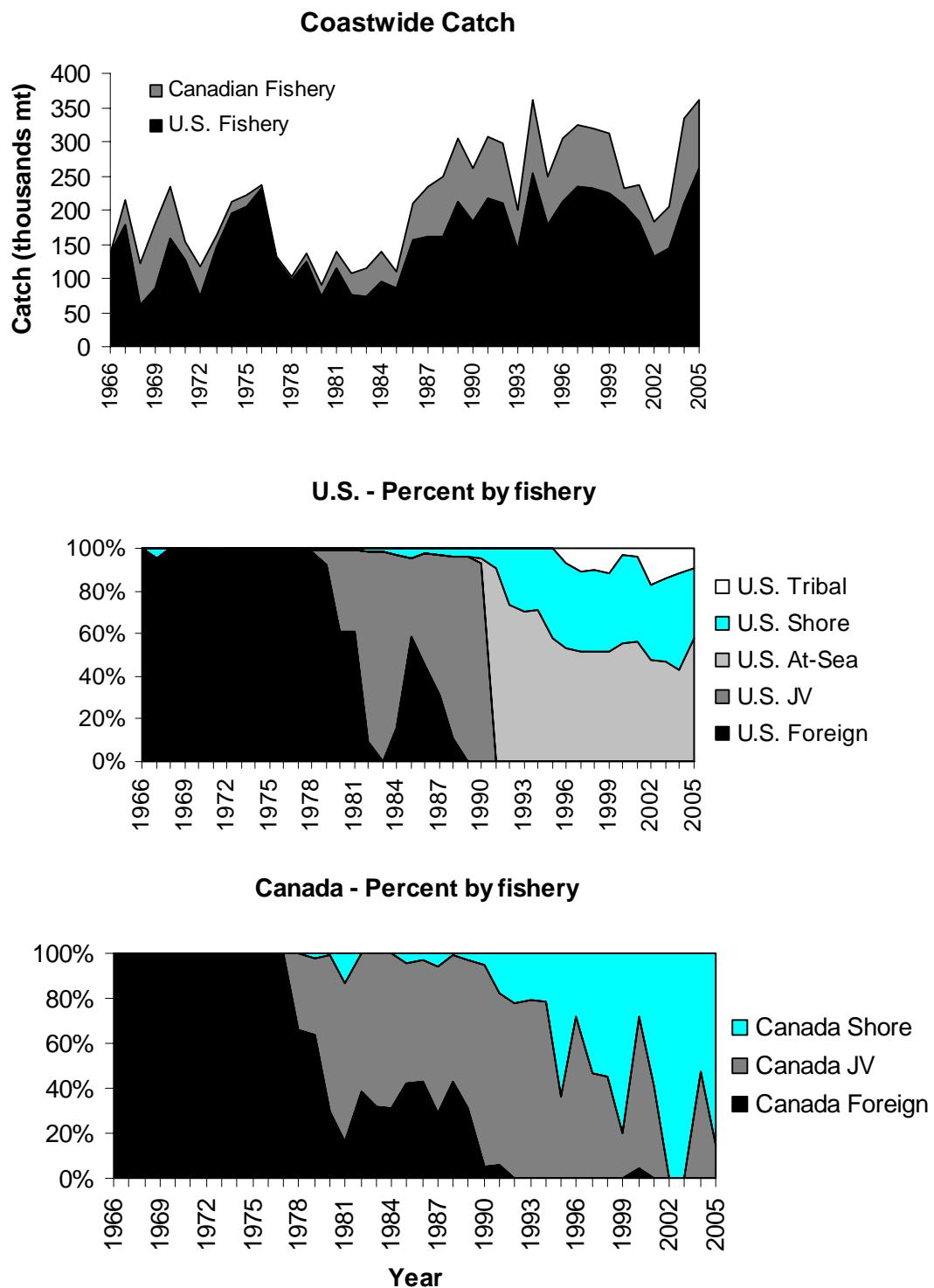


Figure 1. Pacific hake catches by fishery and national fishing sector, 1966-2005.

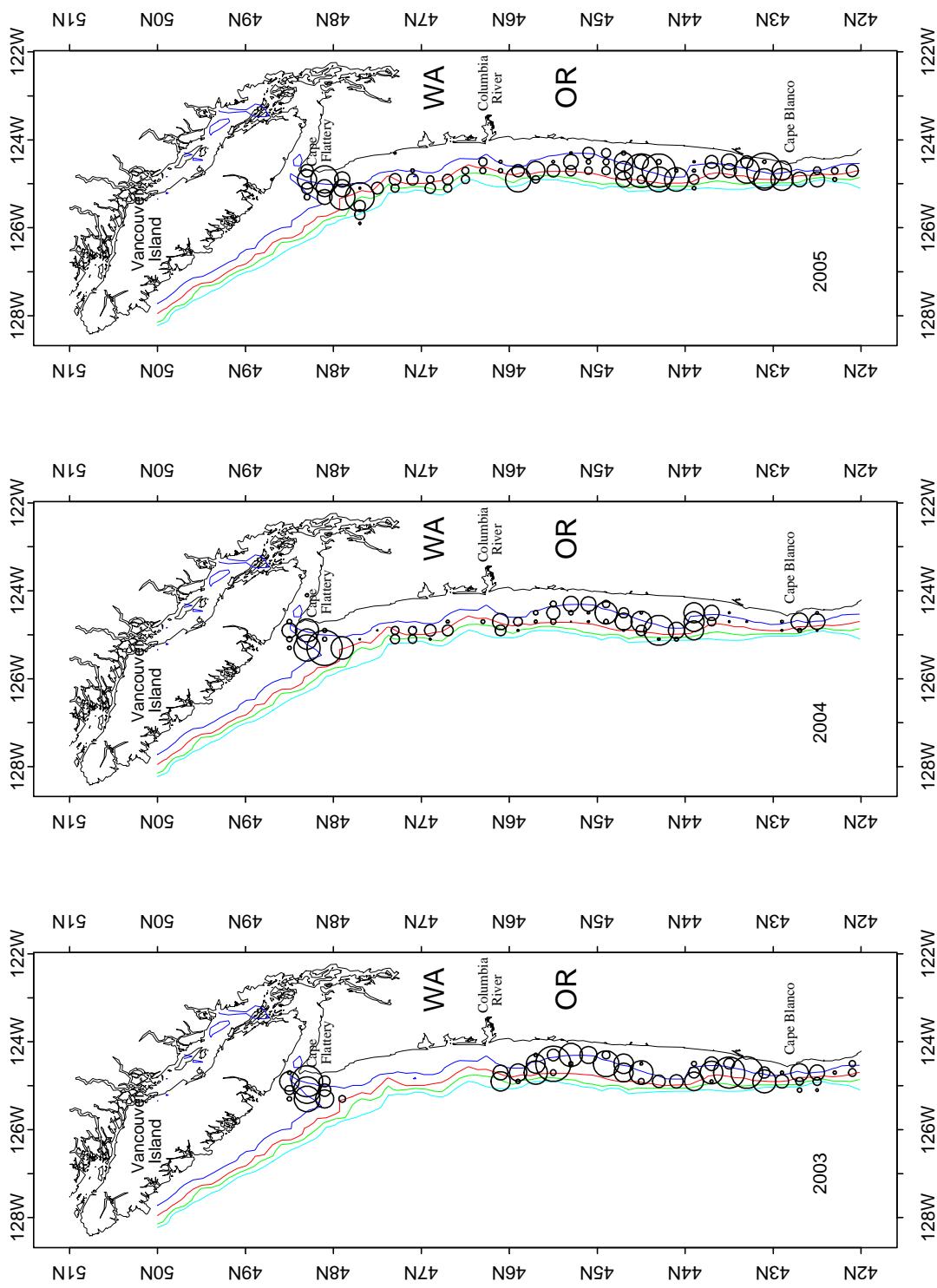


Figure 2. Distribution of at sea Pacific hake catches off the coast of the U.S. in 2003 (bottom), 2004 (middle) and 2005 (top).

US Foreign-At sea length comps

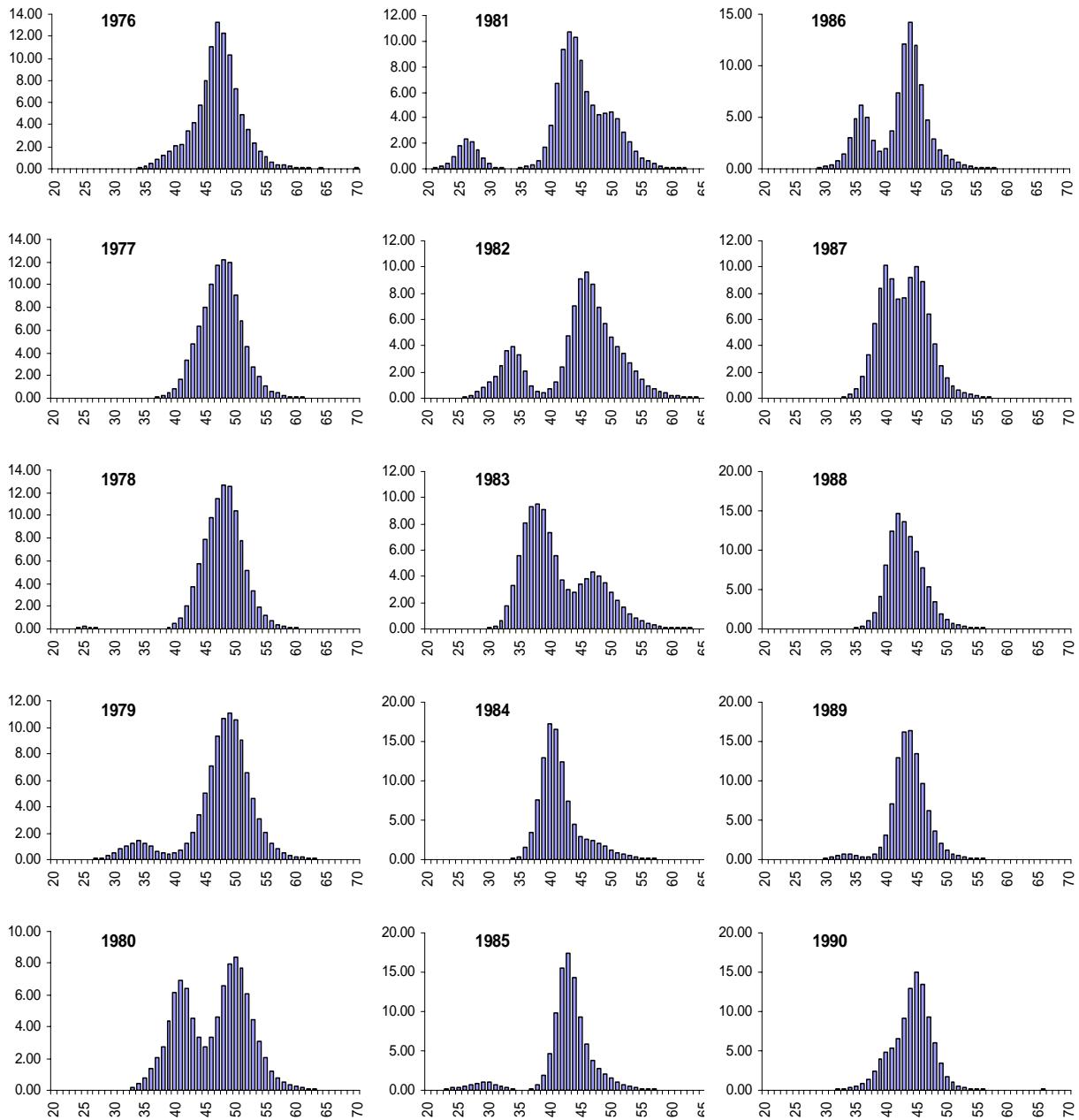


Figure 3. U.S. fishery size compositions of Pacific hake caught by foreign fisheries off the west coast of the U.S., 1975-2005

US At sea length comps

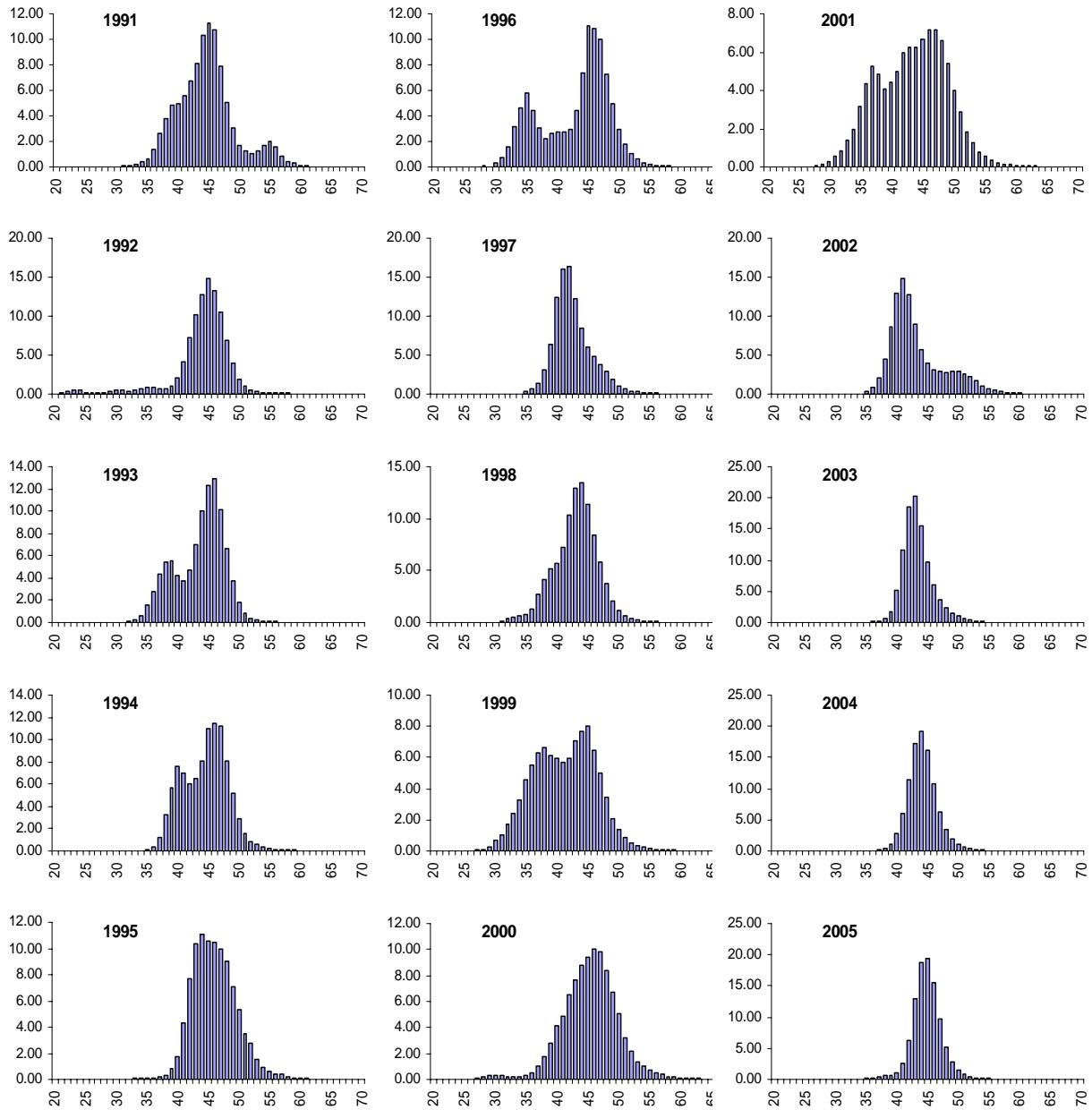


Figure 4. U.S. fishery size compositions of Pacific hake catch in the domestic at sea fishery off the west coast of the U.S., 1991-2005

US domestic shore based length comps

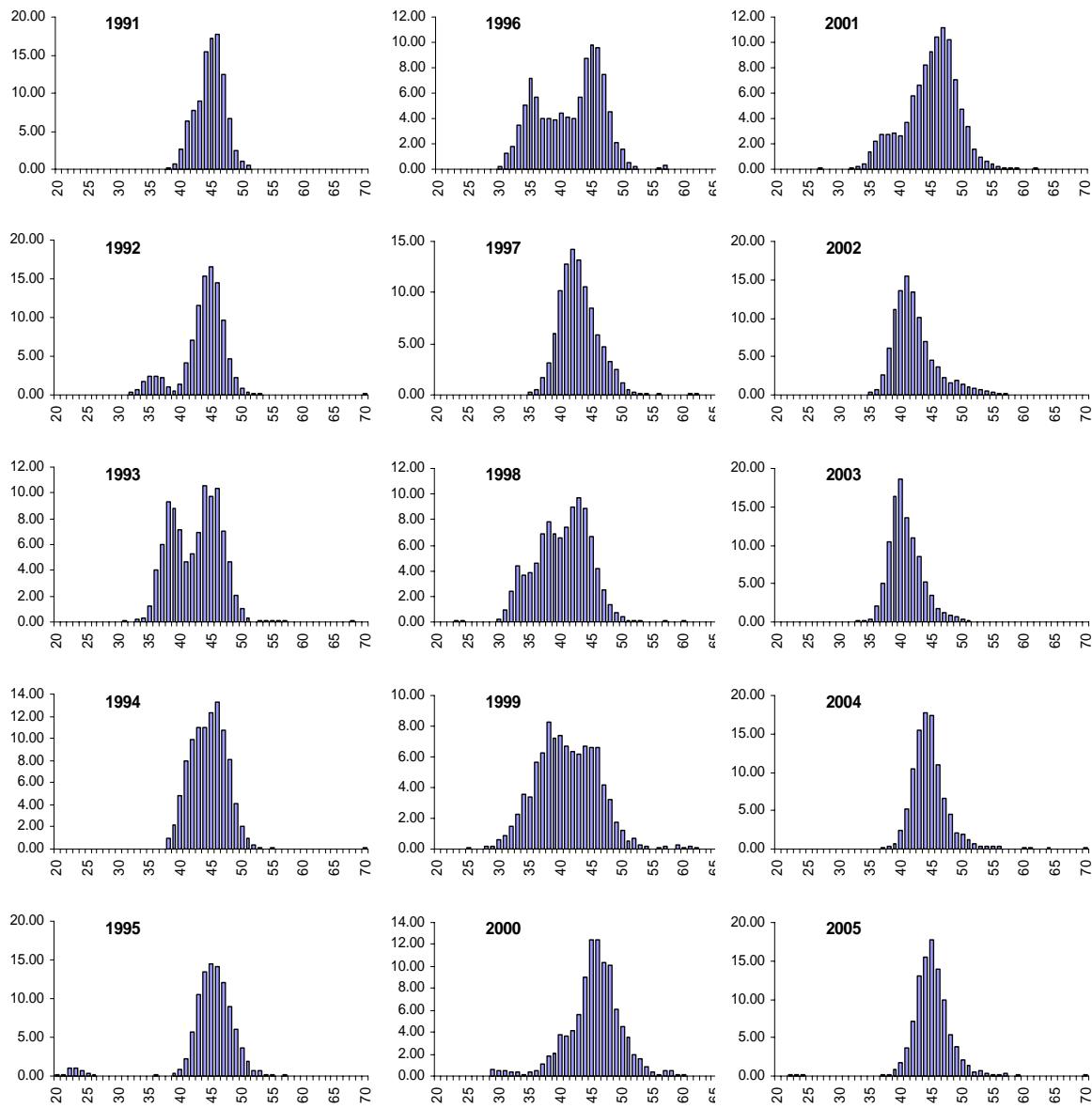


Figure 5. U.S. fishery size compositions of Pacific hake catch in the domestic shore-based fishery off the west coast of the U.S., 1991-2005

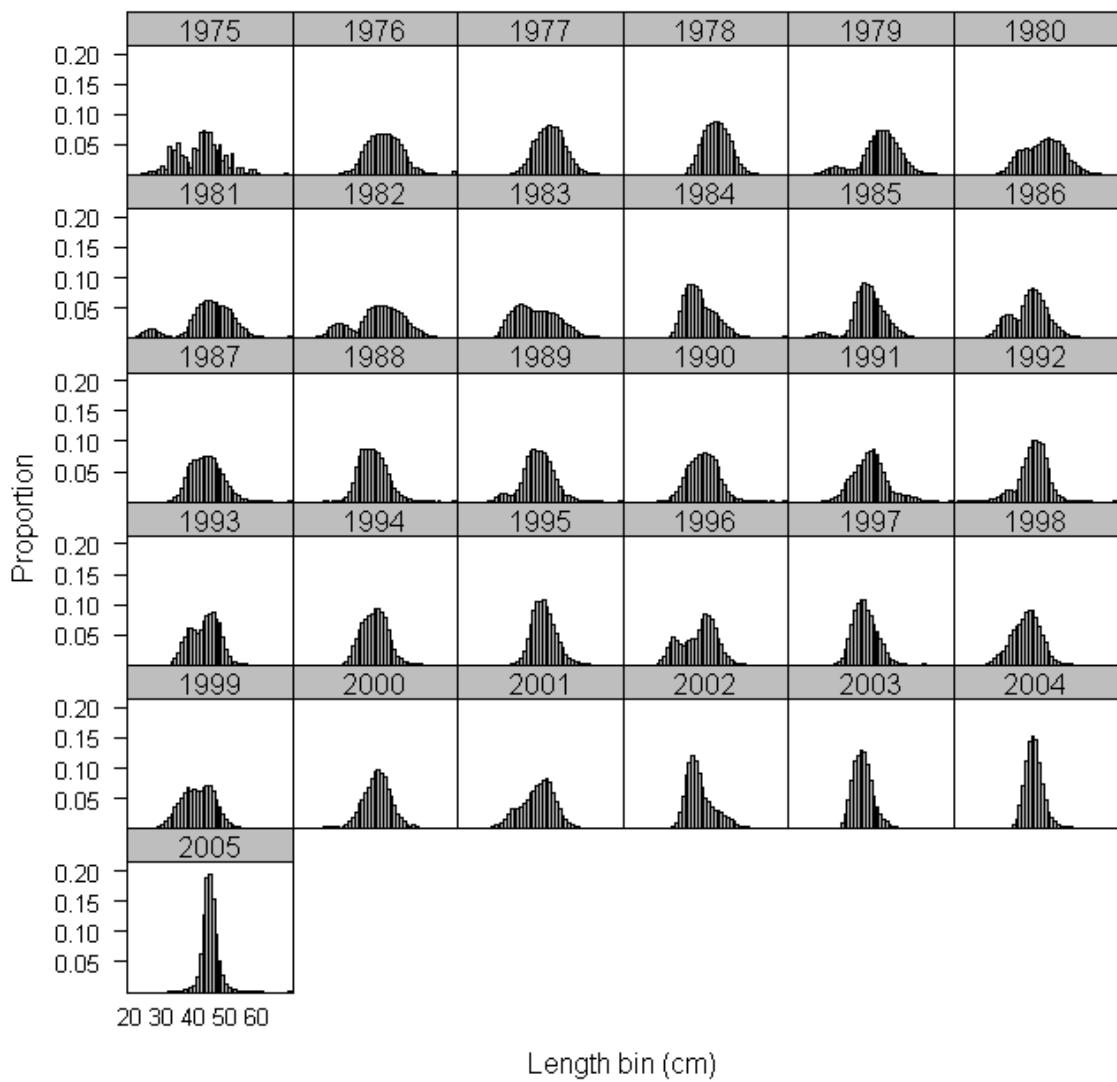


Figure 6. Composite U.S. fishery size compositions of Pacific hake from all fisheries operating off the west coast of the U.S., 1975-2005.

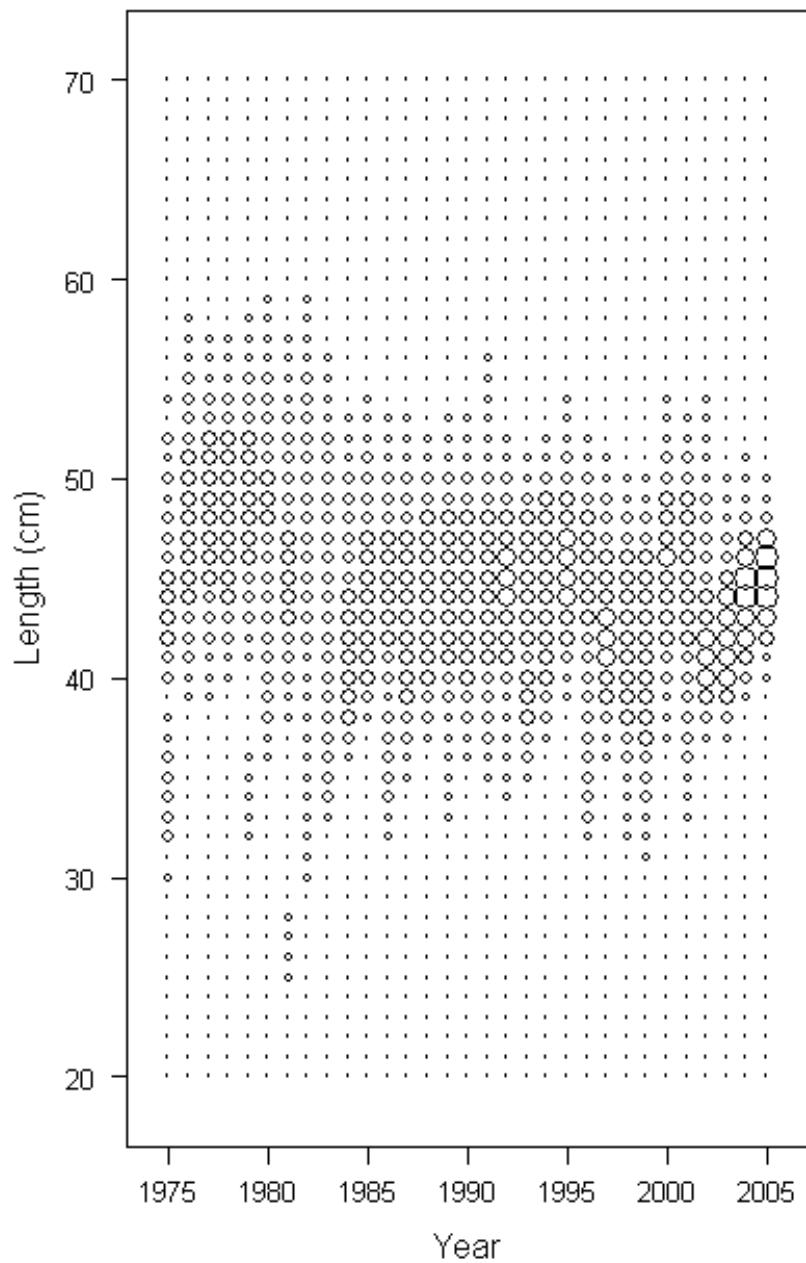


Figure 7. Composite U.S. fishery size compositions of Pacific hake from all fisheries operating off the west coast of the U.S., 1975-2005. Proportions sum to unit by year.

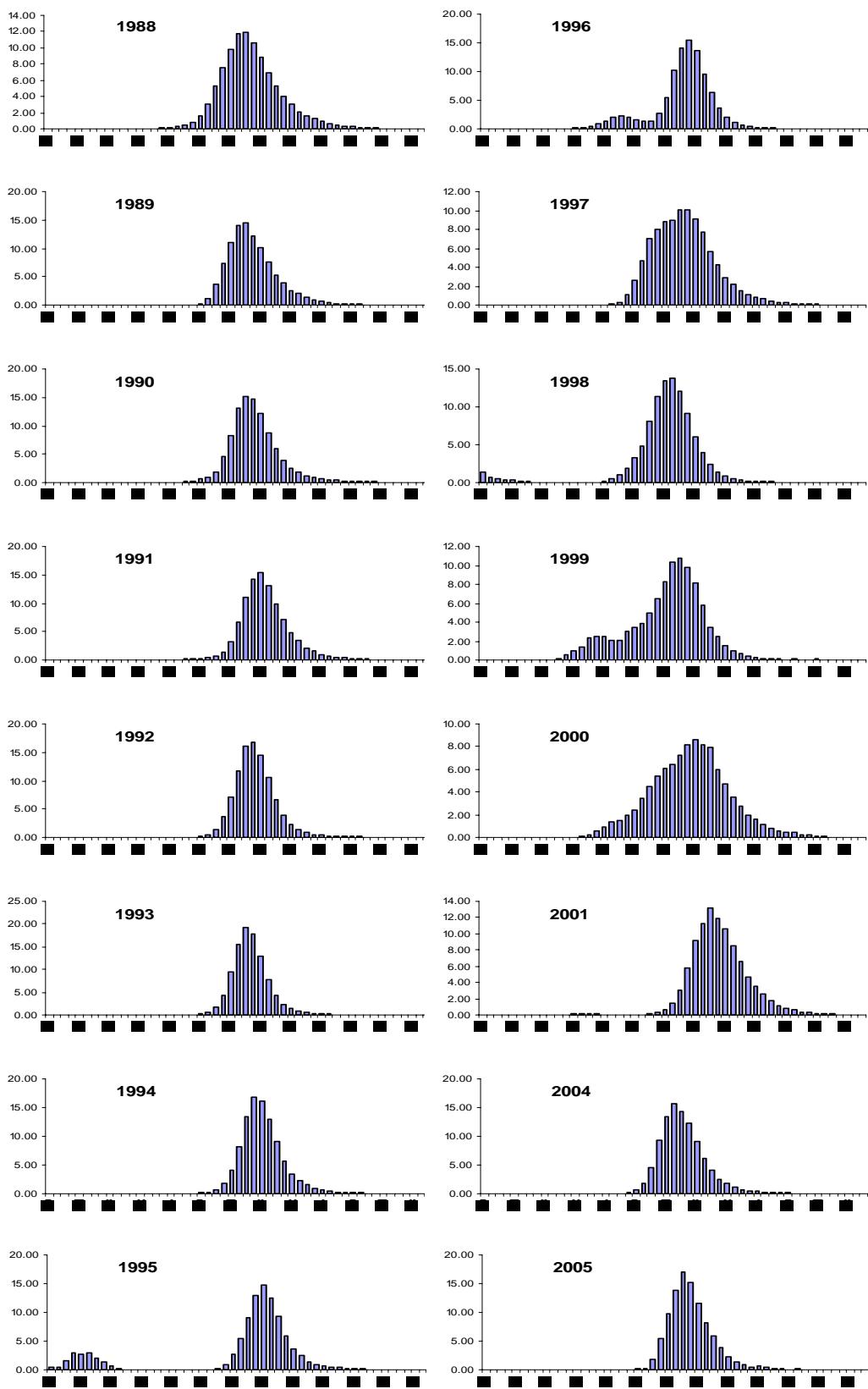


Figure 8. Canadian fishery size compositions of Pacific hake catch in the Joint-venture fishery, 1988-2005.

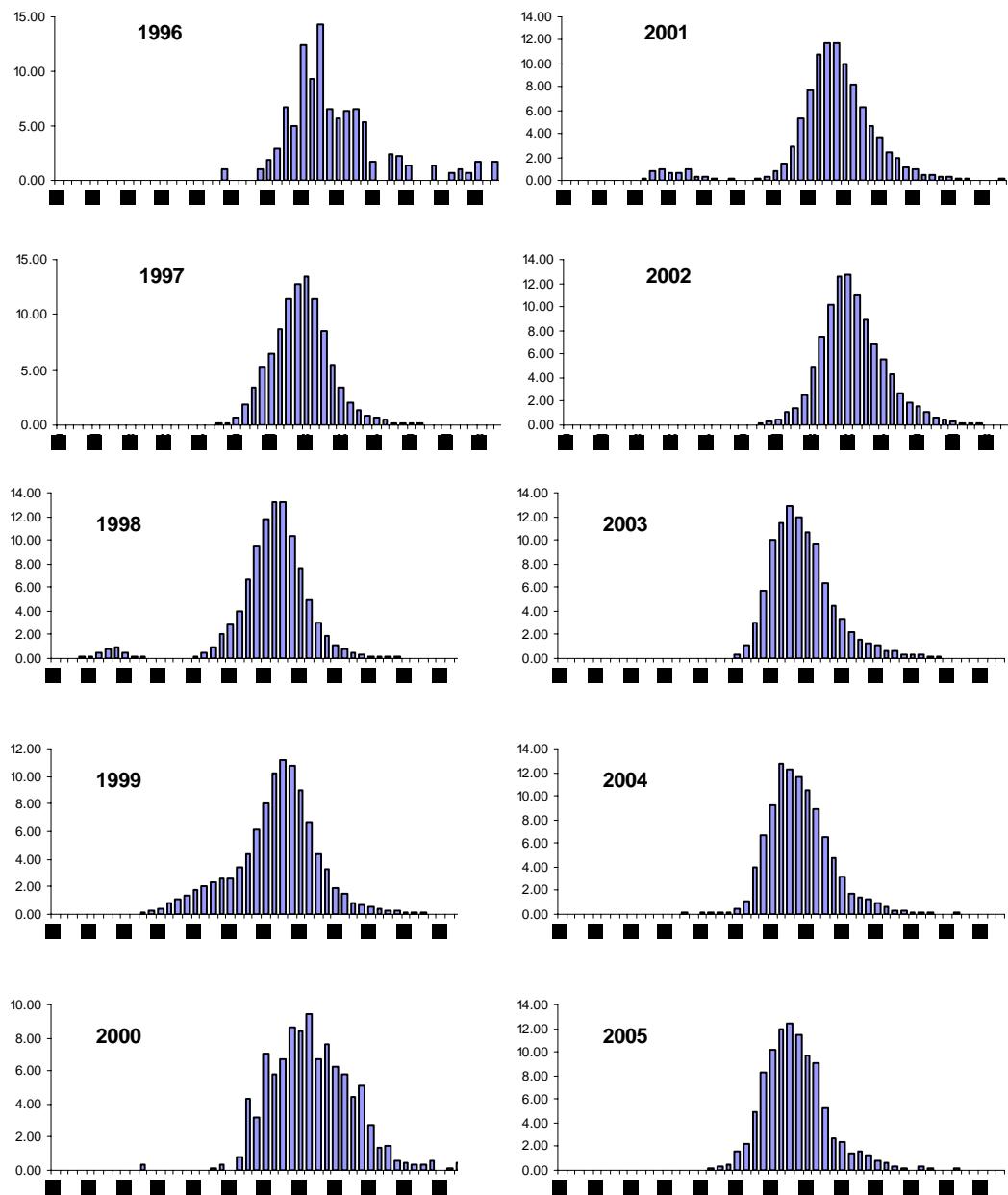


Figure 9. Canadian fishery size compositions of Pacific hake catch in the domestic shore-based fishery, 1996-2005.

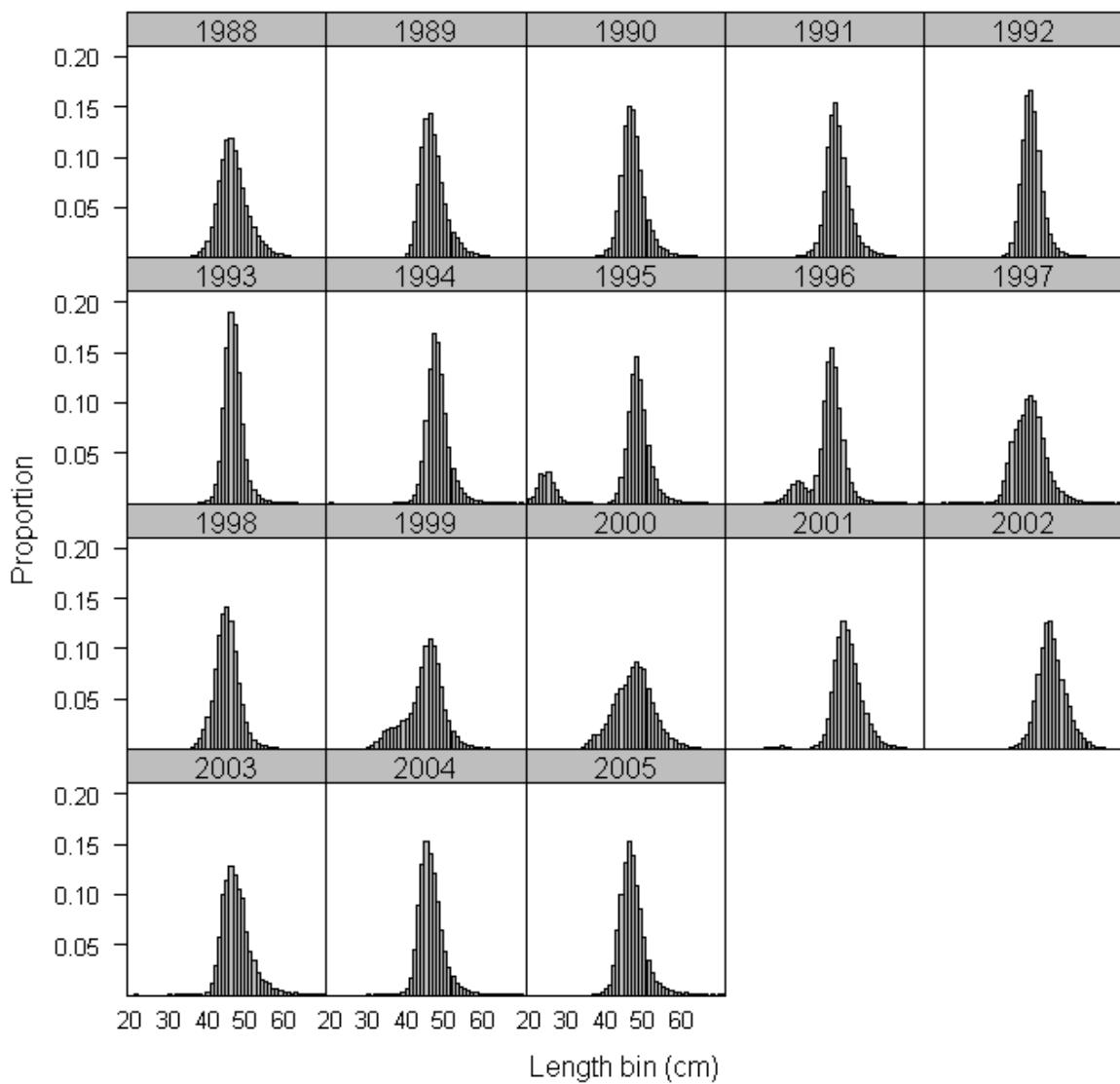


Figure 10. Composite Canadian fishery size compositions of Pacific hake from all fisheries operating in Canadian waters, 1975-2005.

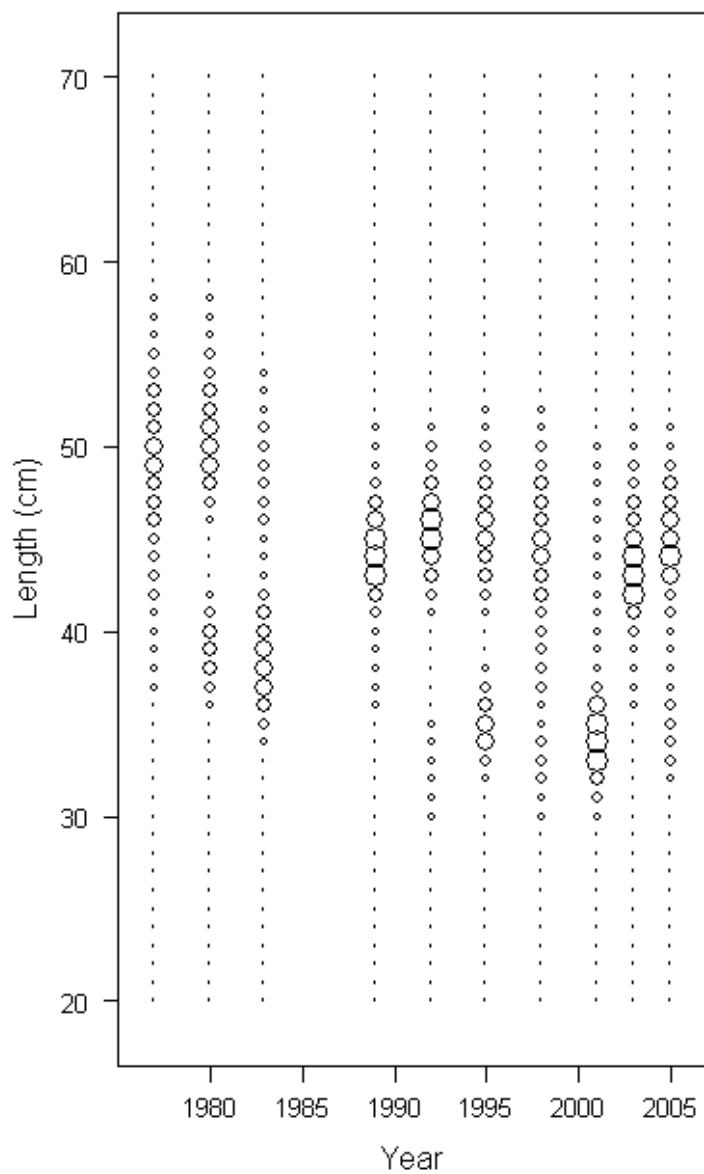


Figure 11. Composite Canadian fishery size compositions of Pacific hake from all fisheries Operating in Canadian waters., 1975-2005. Proportions sum to unit by year.

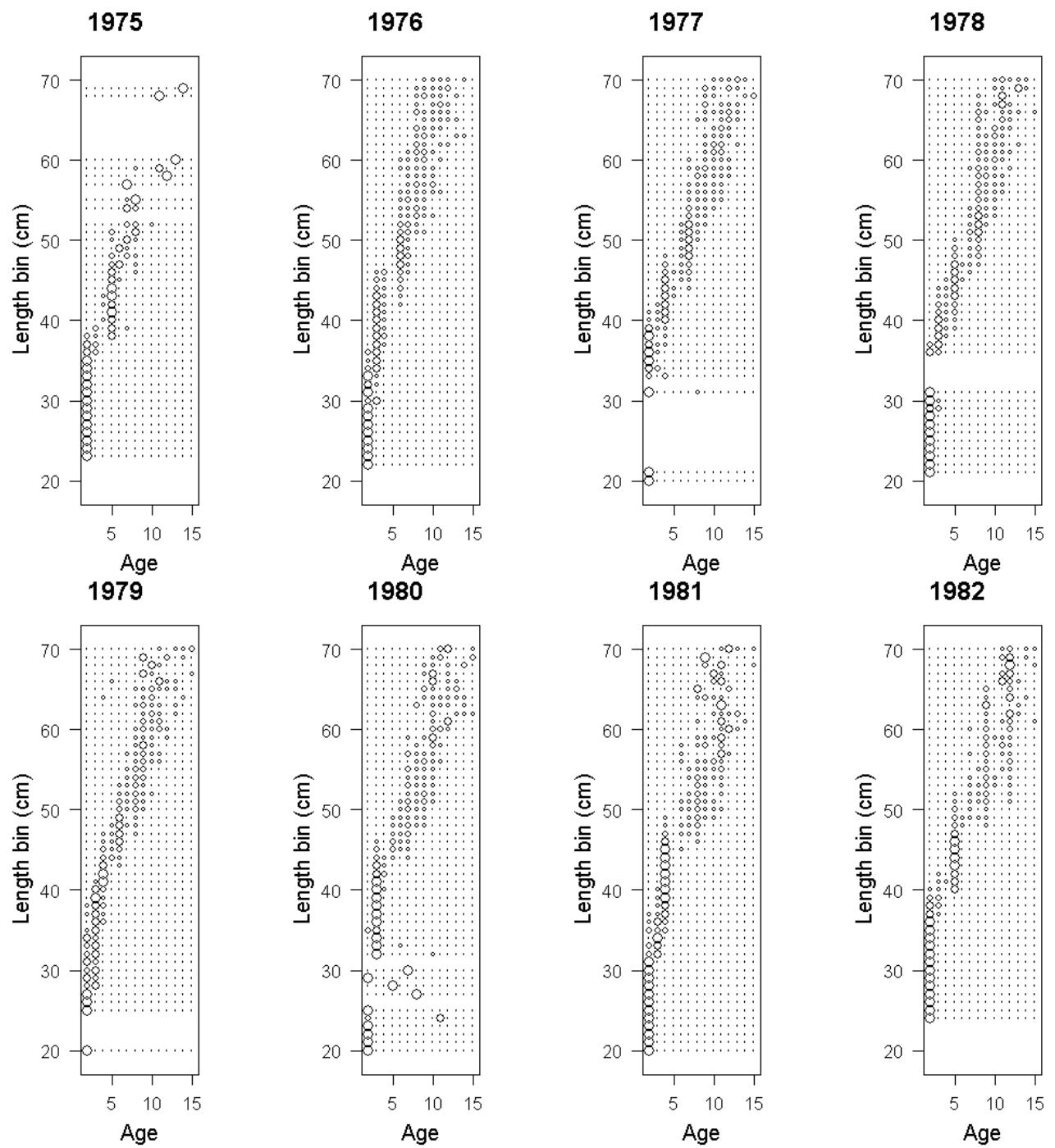


Figure 12. U.S. fishery conditional age at length compositions.

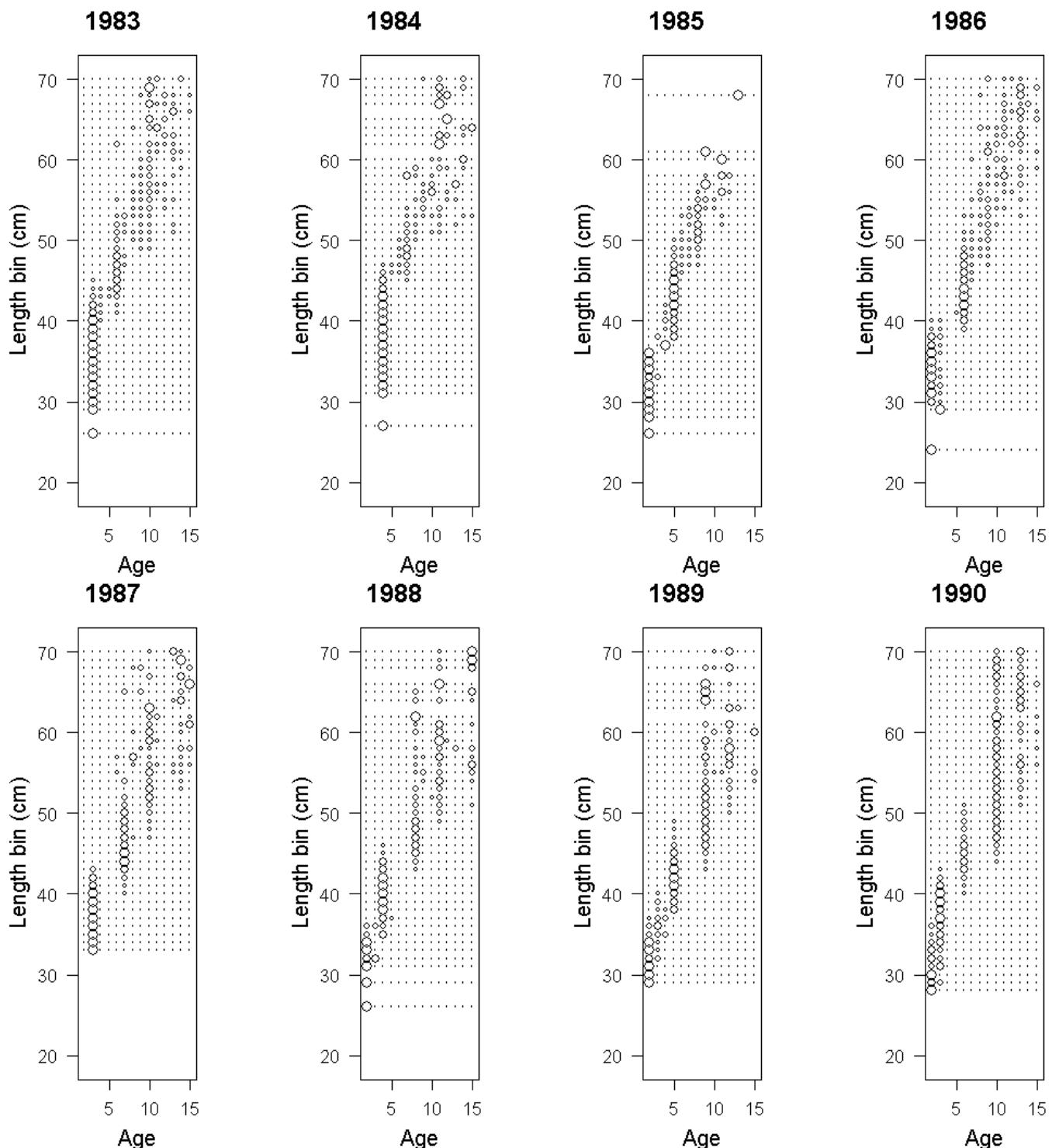


Figure 12 continued. U.S. fishery conditional age at length compositions.

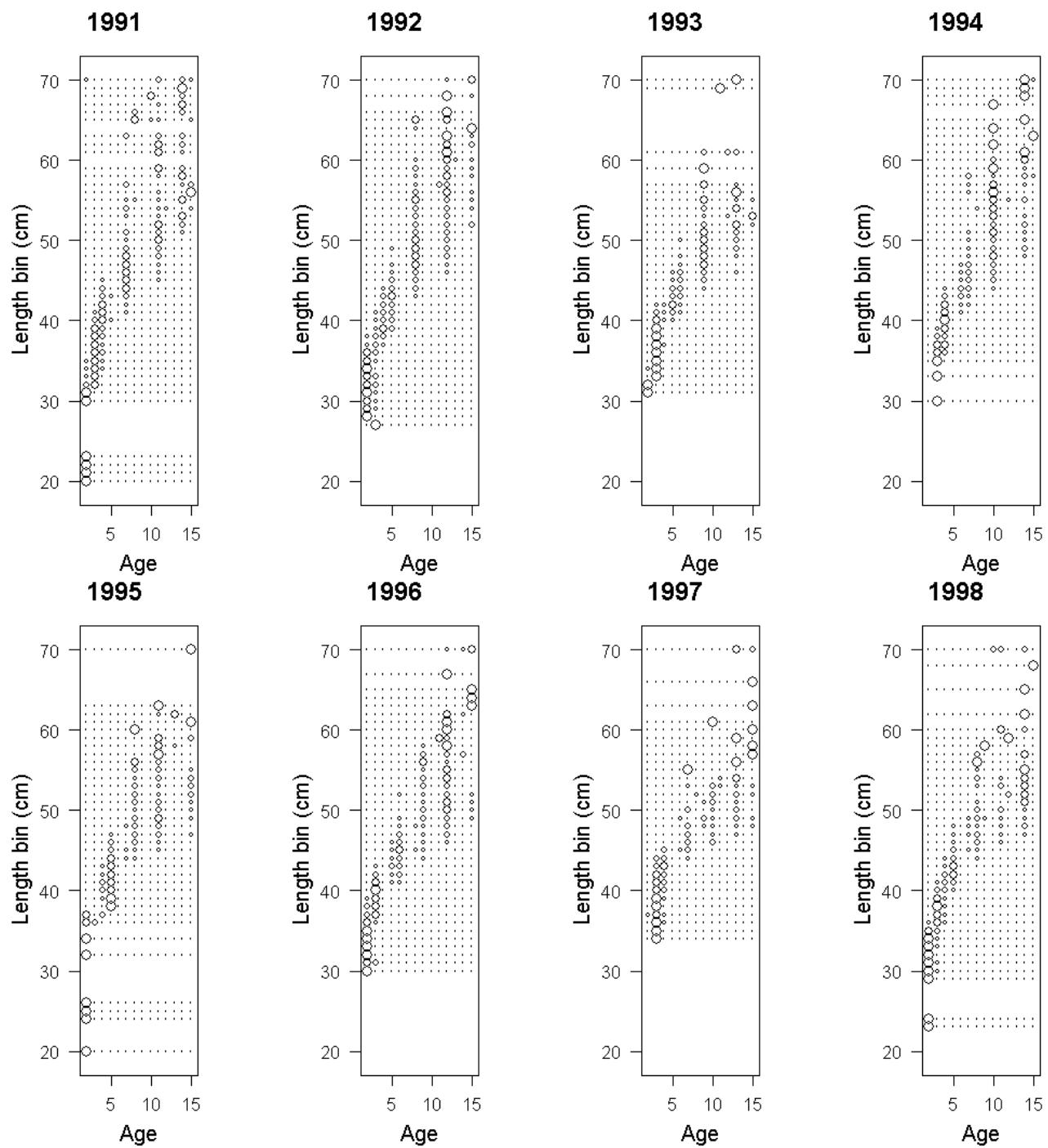


Figure 12 continued. U.S. fishery conditional age at length compositions.

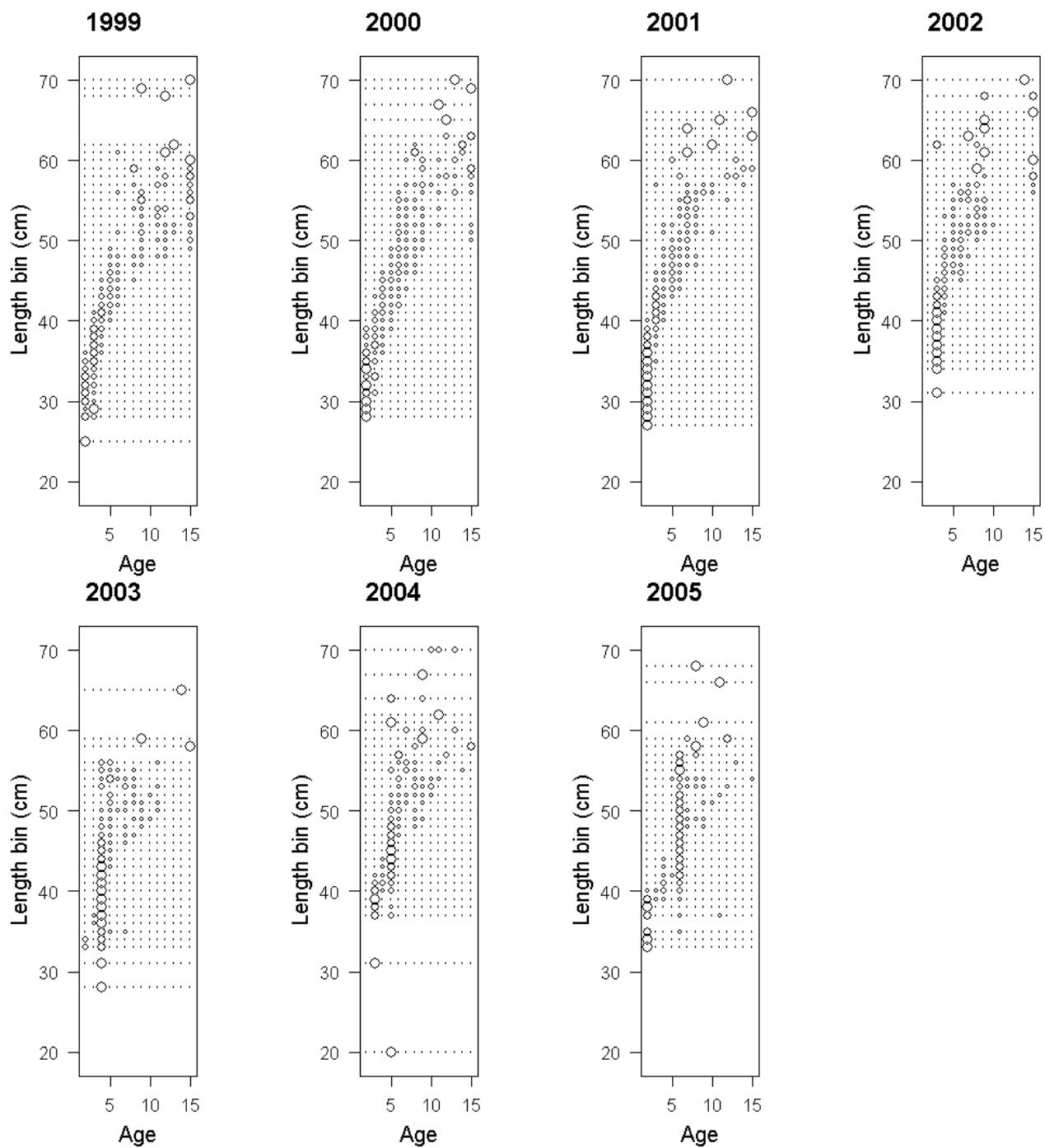


Figure 12 continued. U.S. fishery conditional age at length compositions.

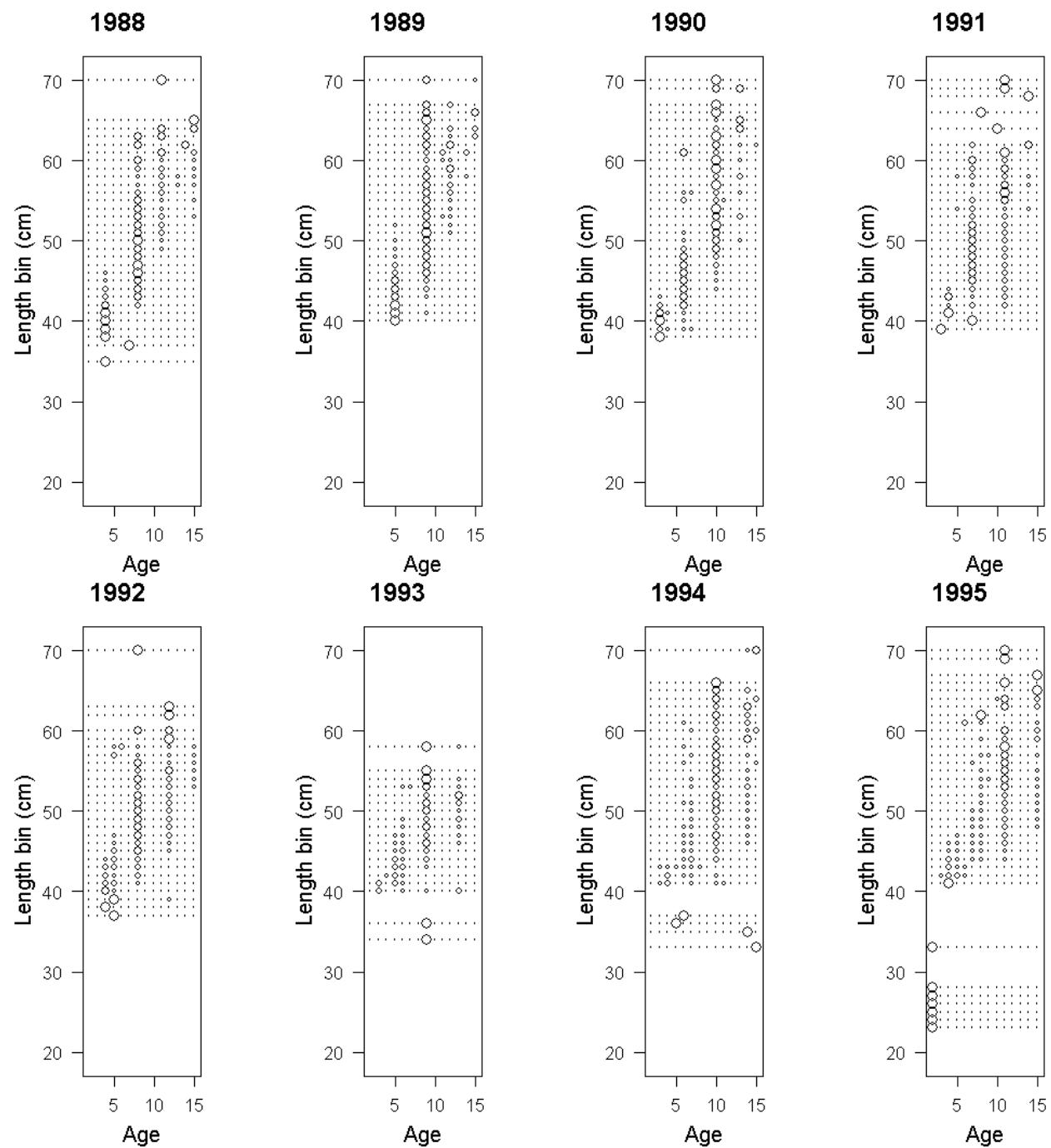


Figure 13. Canadian fishery conditional age at length compositions.

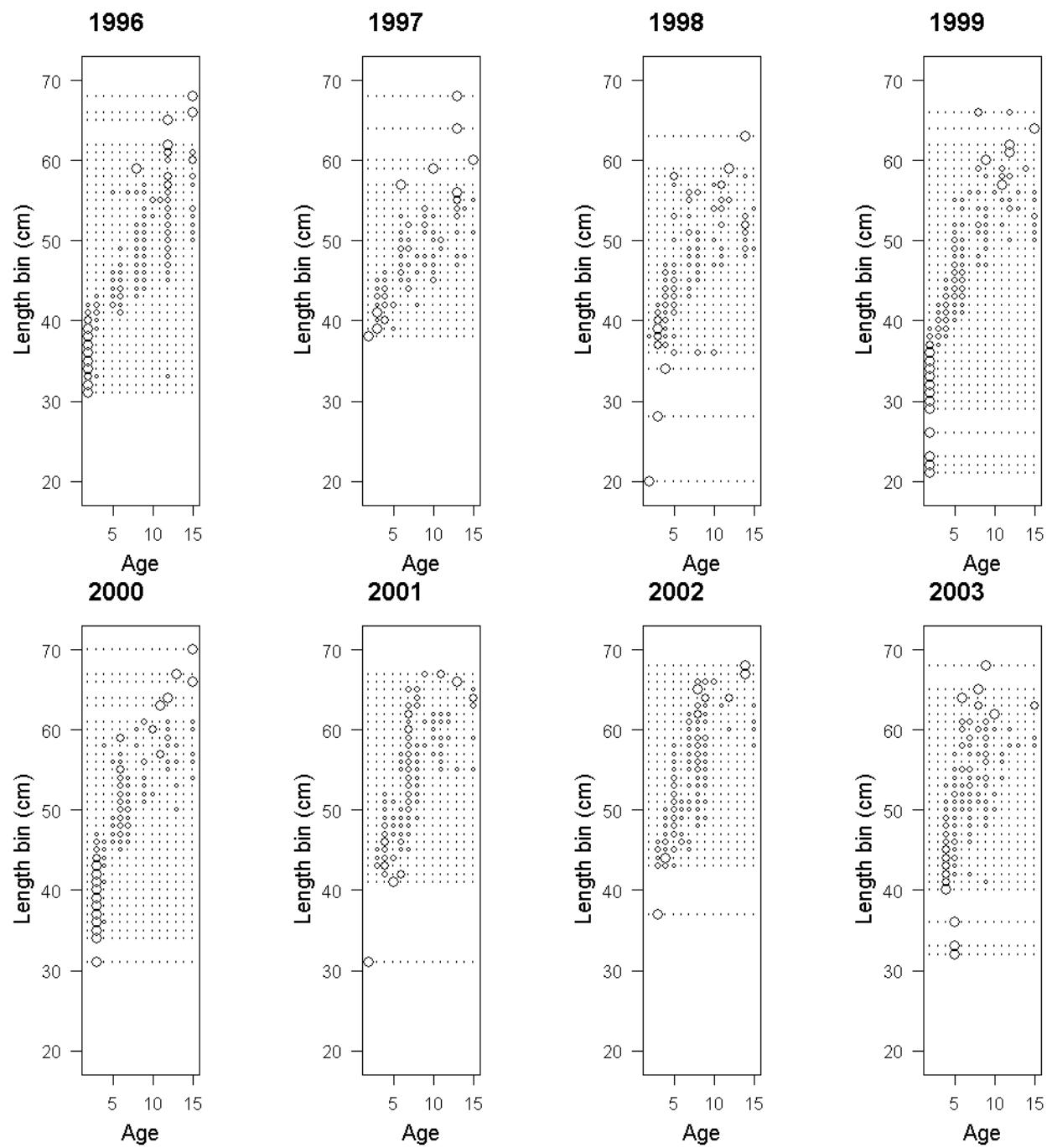


Figure 13 continued. Canadian fishery conditional age at length compositions.

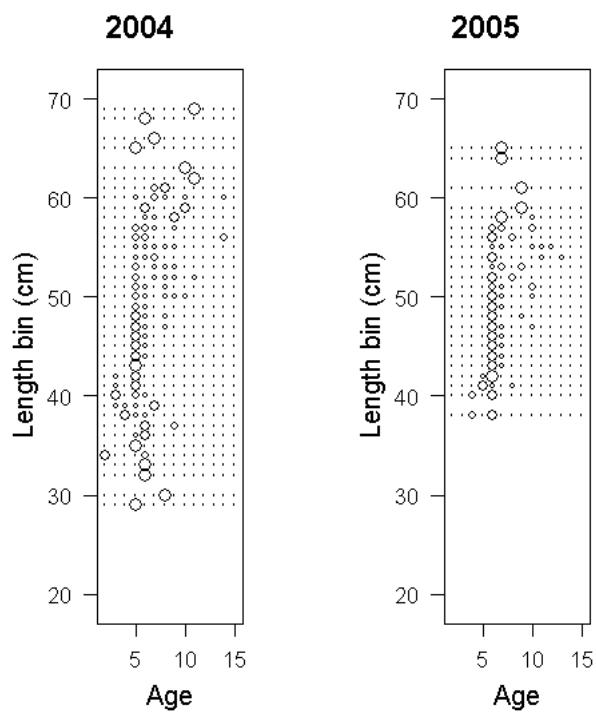


Figure 13 continued. Canadian fishery conditional age at length compositions.

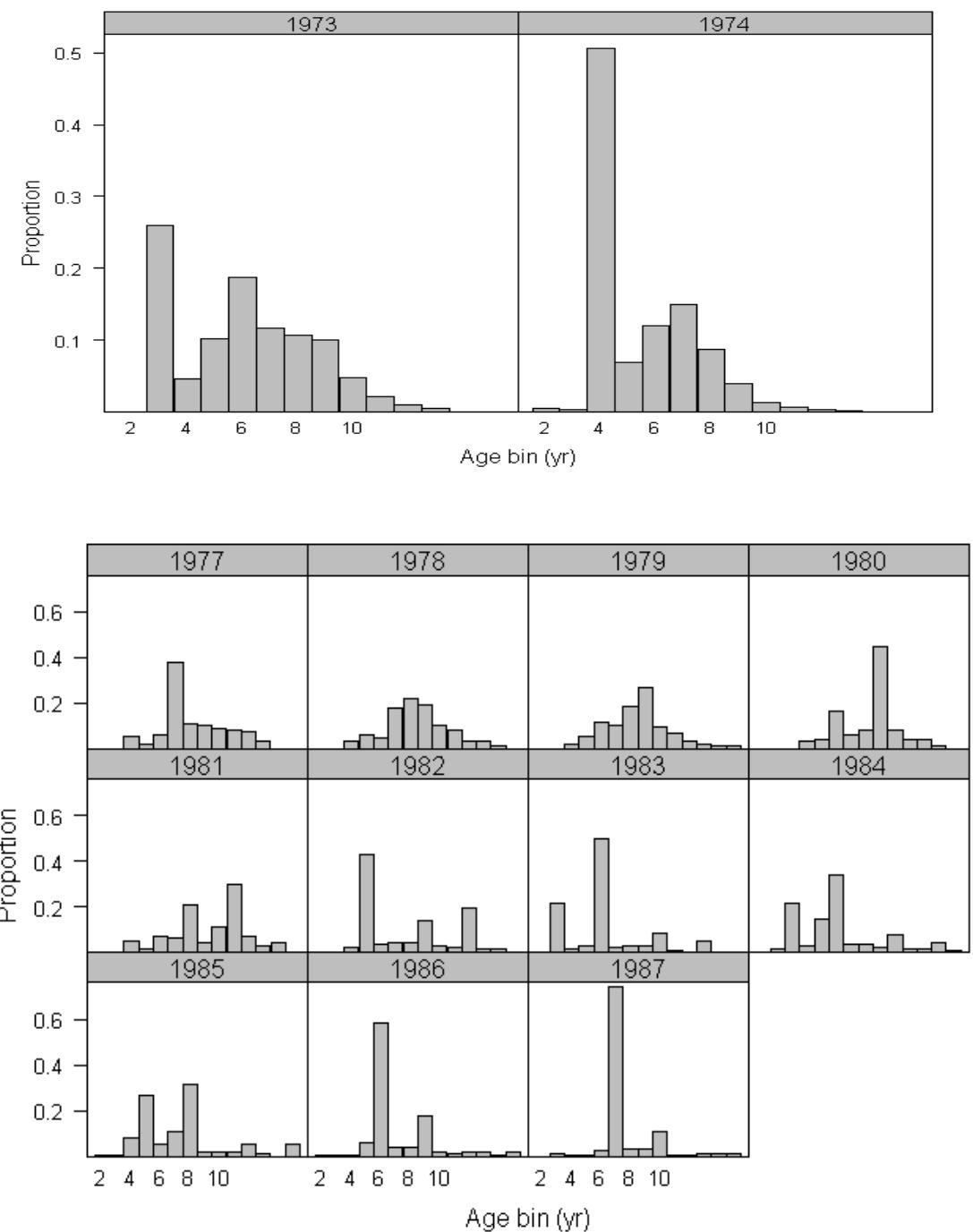


Figure 14. Top panel) U.S. fishery age composition, bottom panel) Canadian fishery age composition.

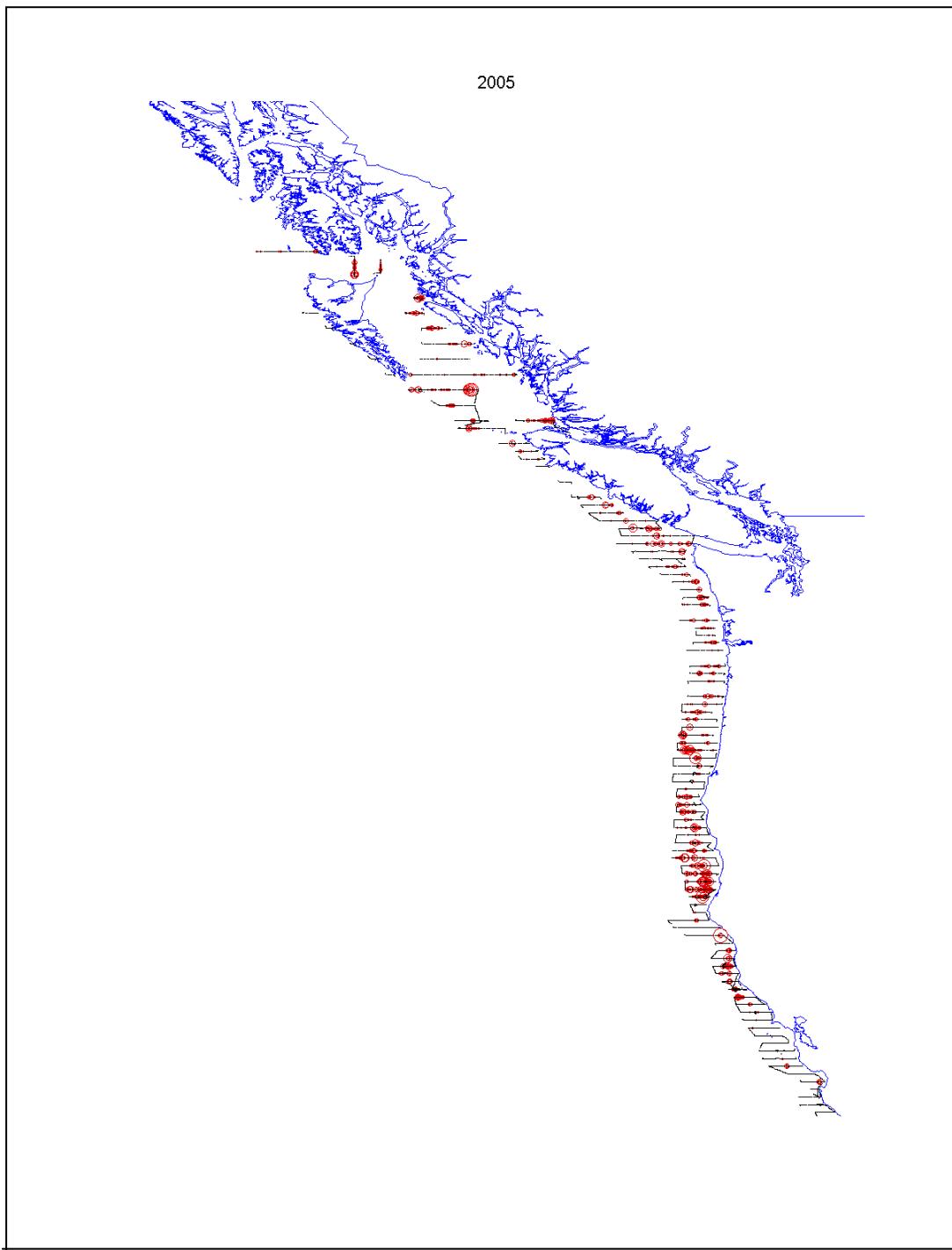


Figure 15. Line transects and distribution of acoustic backscatter in the 2005 acoustic survey.

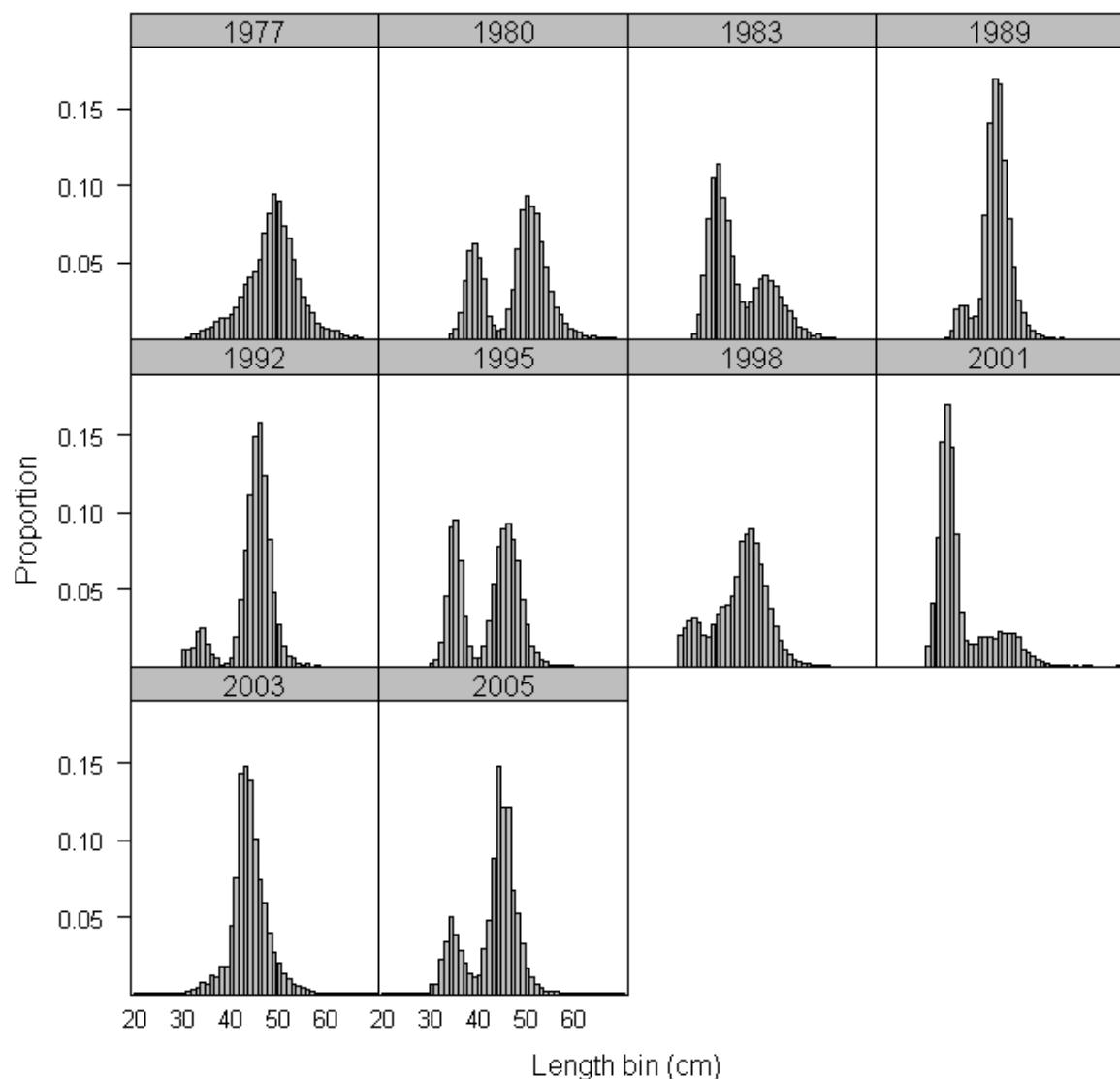


Figure 16. Acoustic survey Pacific hake size compositions sampled, 1977-2005.

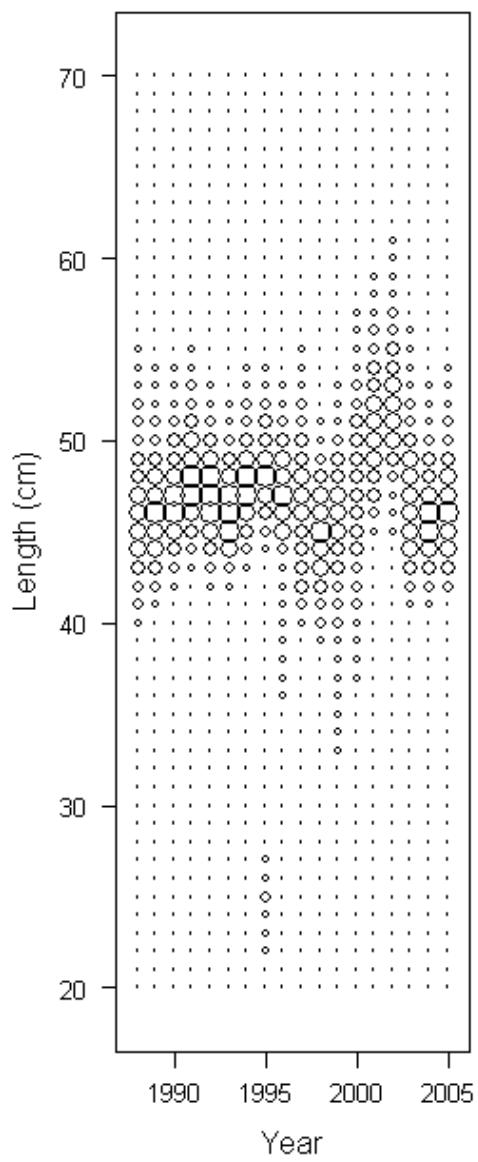


Figure 17. Composite size compositions from the acoustic survey. Proportions sum to unity by year.

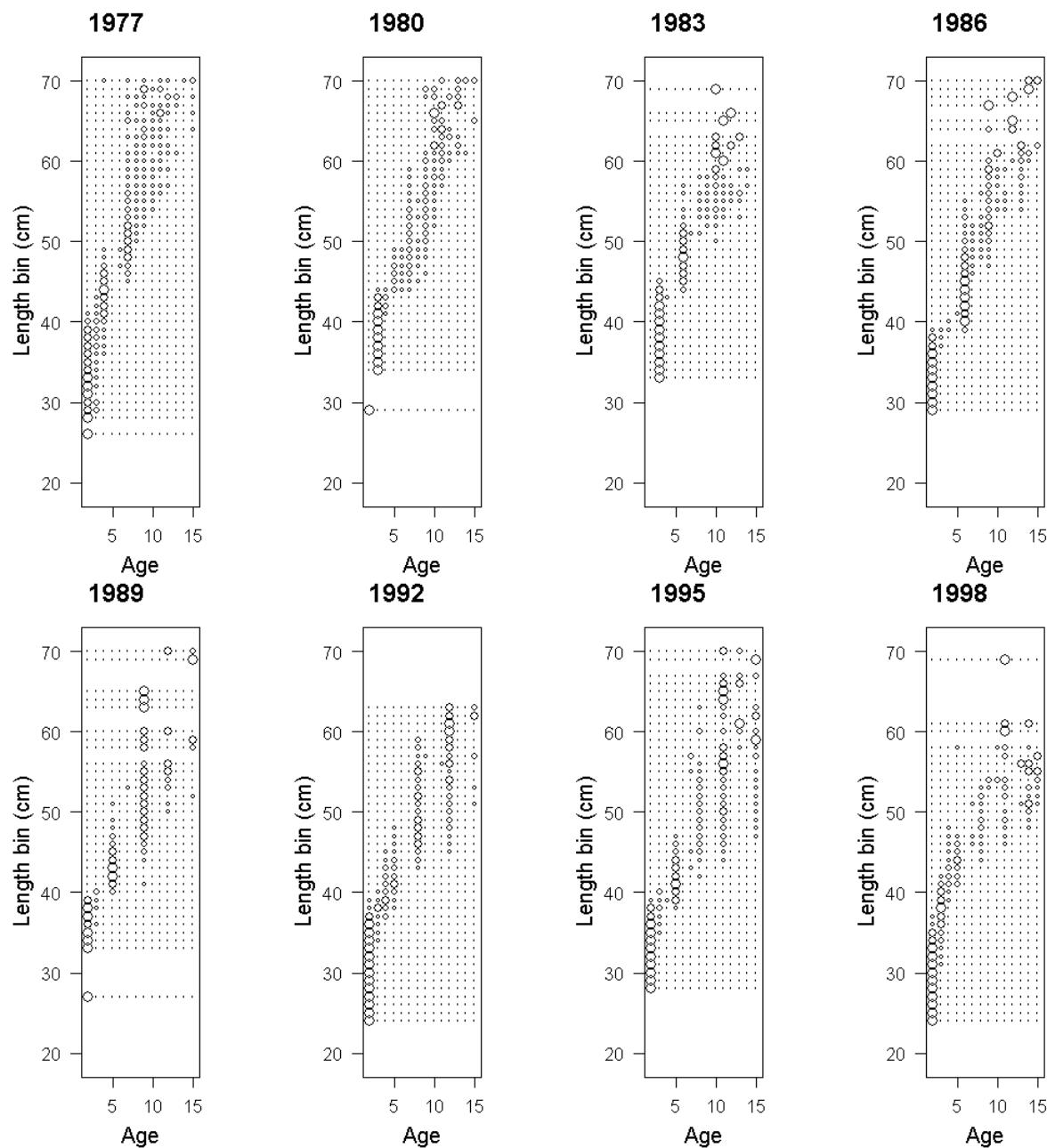


Figure 18. Acoustic survey conditional age at length compositions. Proportions sum to unit by length bin and year.

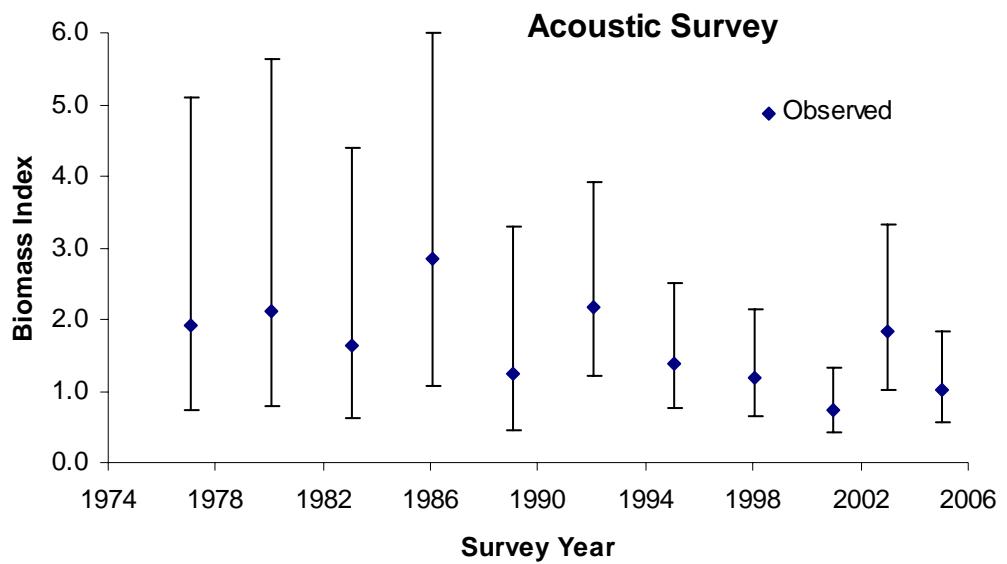


Figure 19. Time series of acoustic survey Pacific hake biomass (millions mt), 1977-2005.
Error bars are not estimated but rather assumed based on the reliability of the survey.

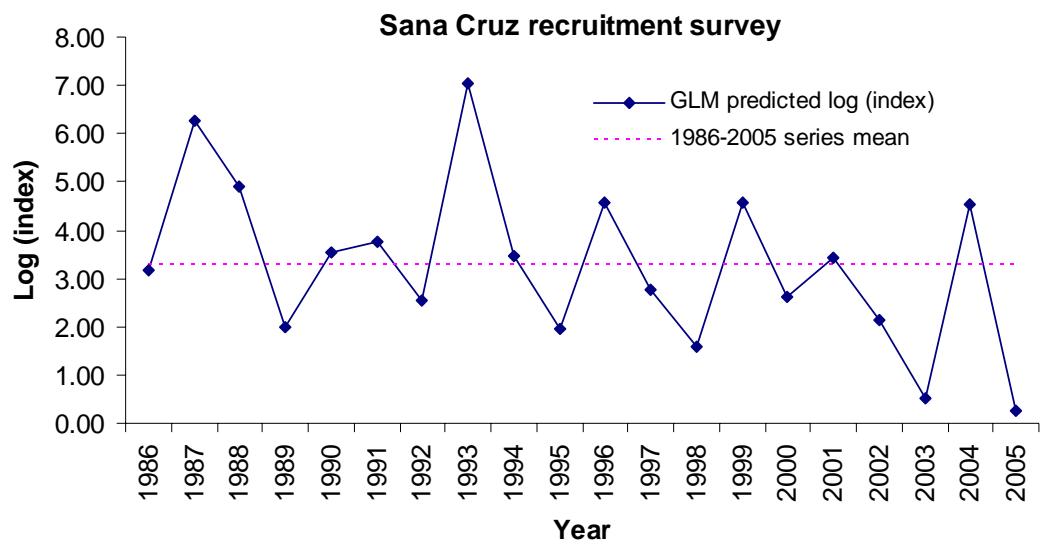


Figure 20. Time series the Santa Cruz pre-recruit survey for Pacific hake.

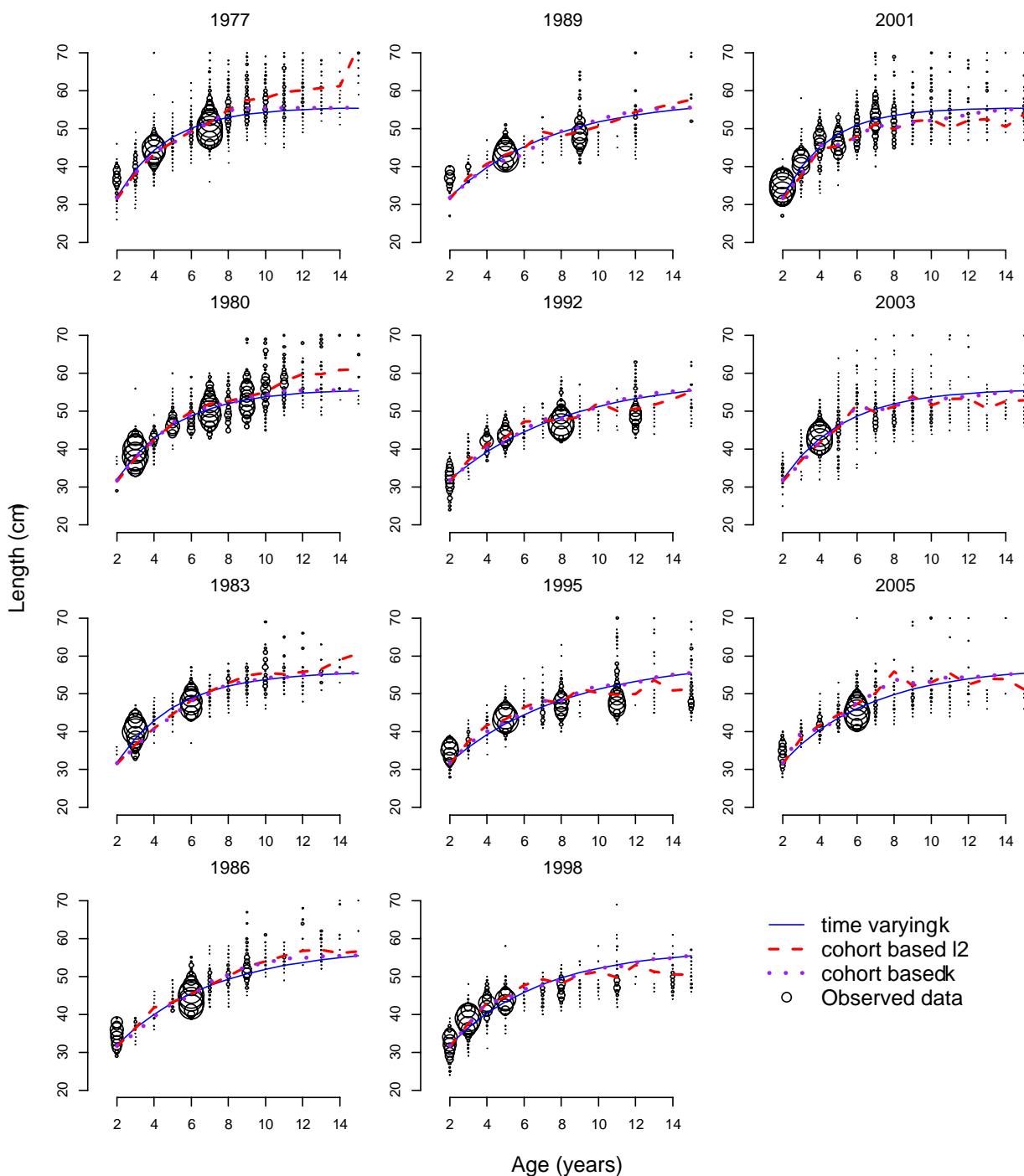


Figure 21. Time varying and cohort based fits of the von Bertalanffy growth model to Pacific hake age data from the acoustic survey, 1977-2005. Growth trajectories show expected size at age based on the different model assumed.

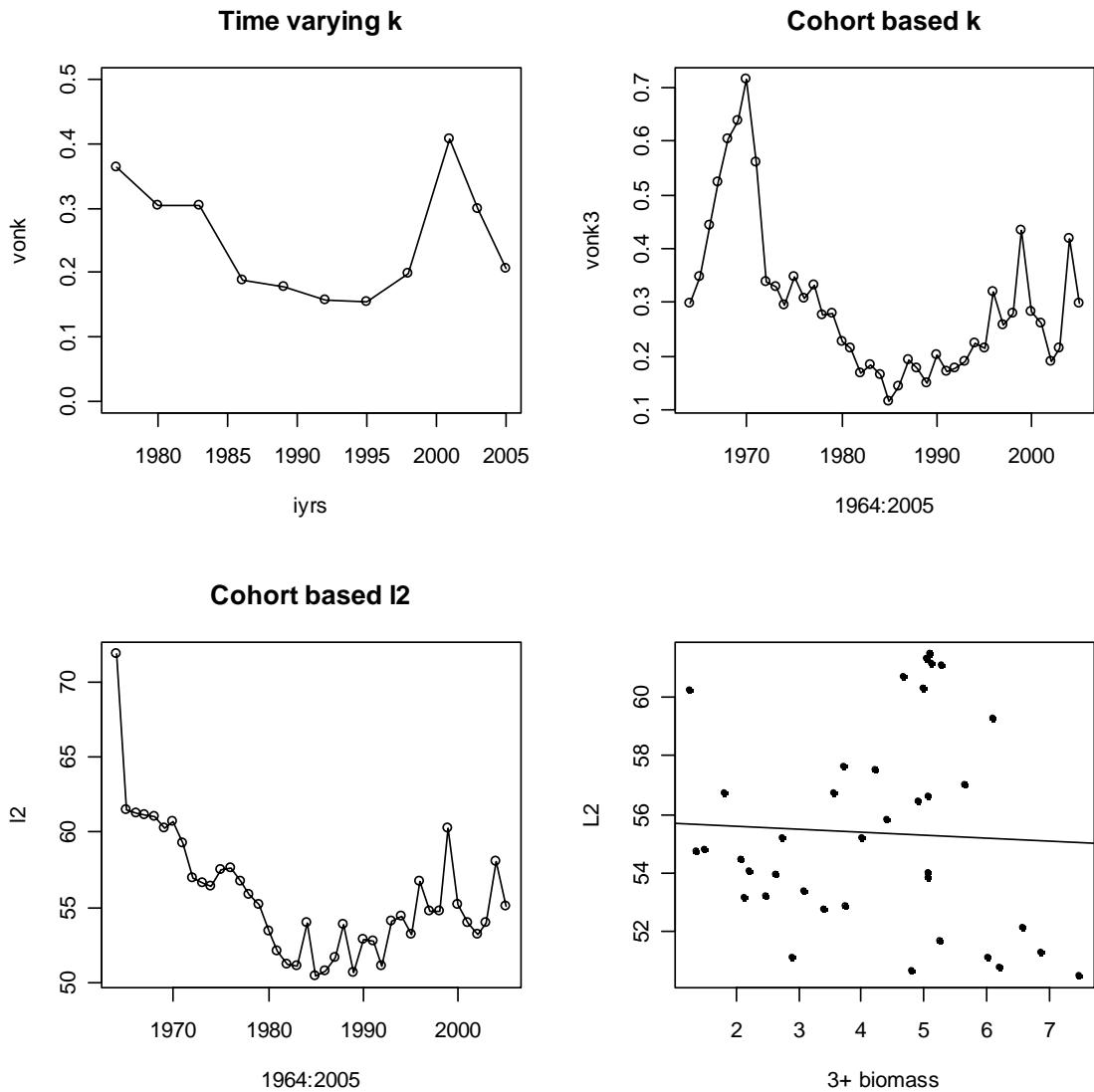


Figure 22. Time varying and cohort based fits of the von Bertalanffy growth model to Pacific hake age data from the acoustic survey, 1977-2005.

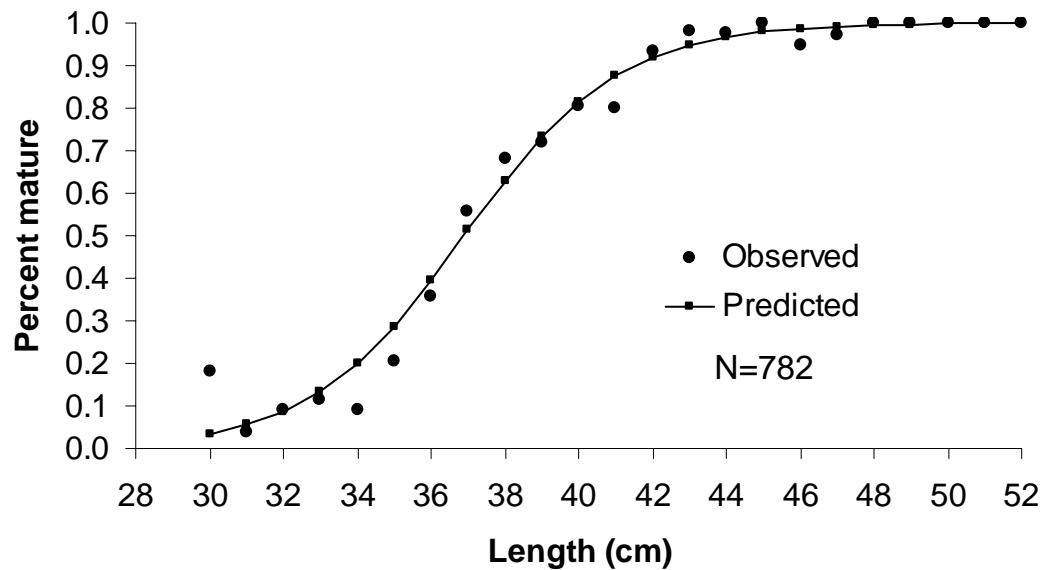


Figure 23. Predicted fraction of Pacific hake mature at length.

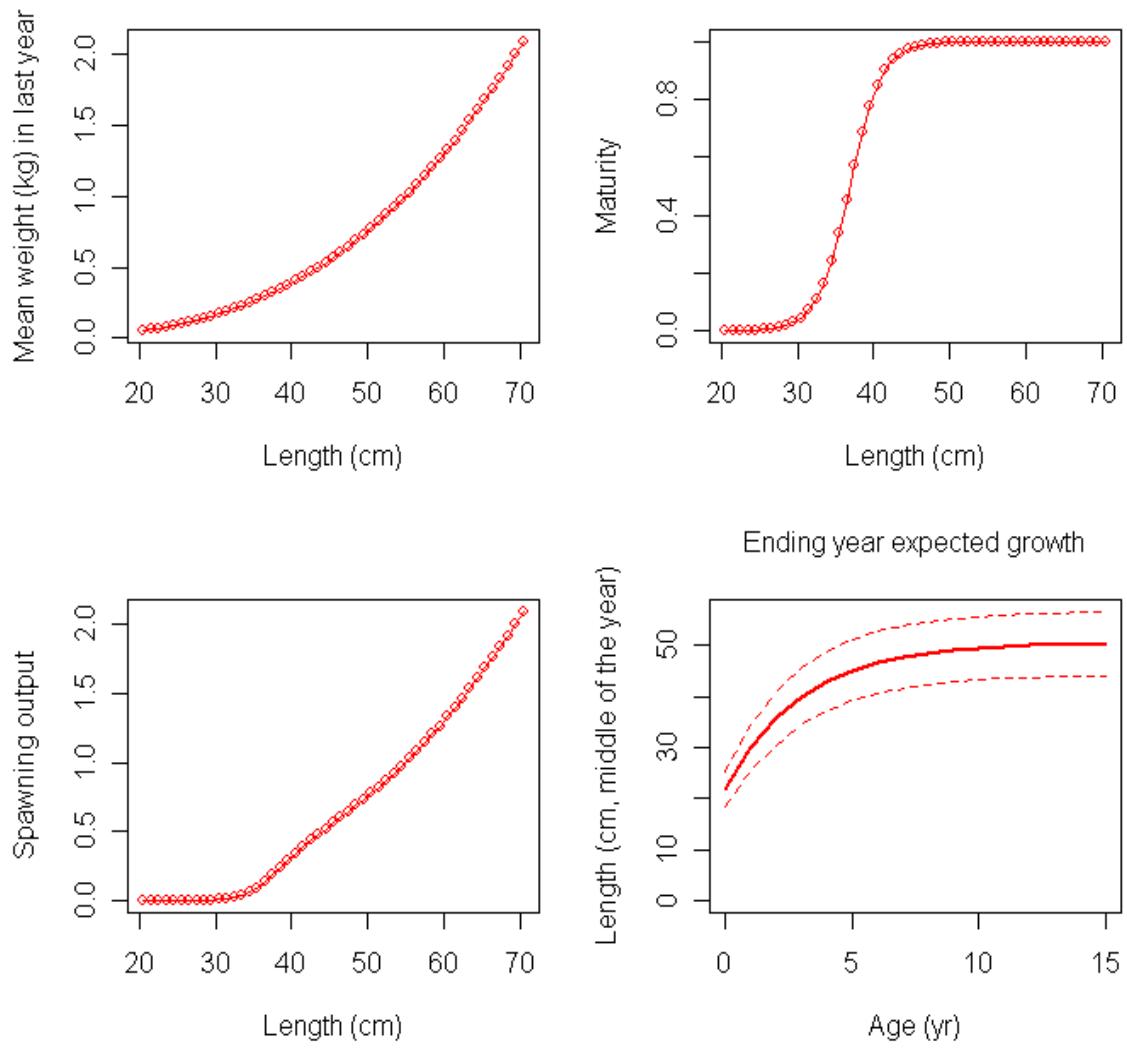


Figure24. Biological parameters (functional forms) assumed in the hake model.

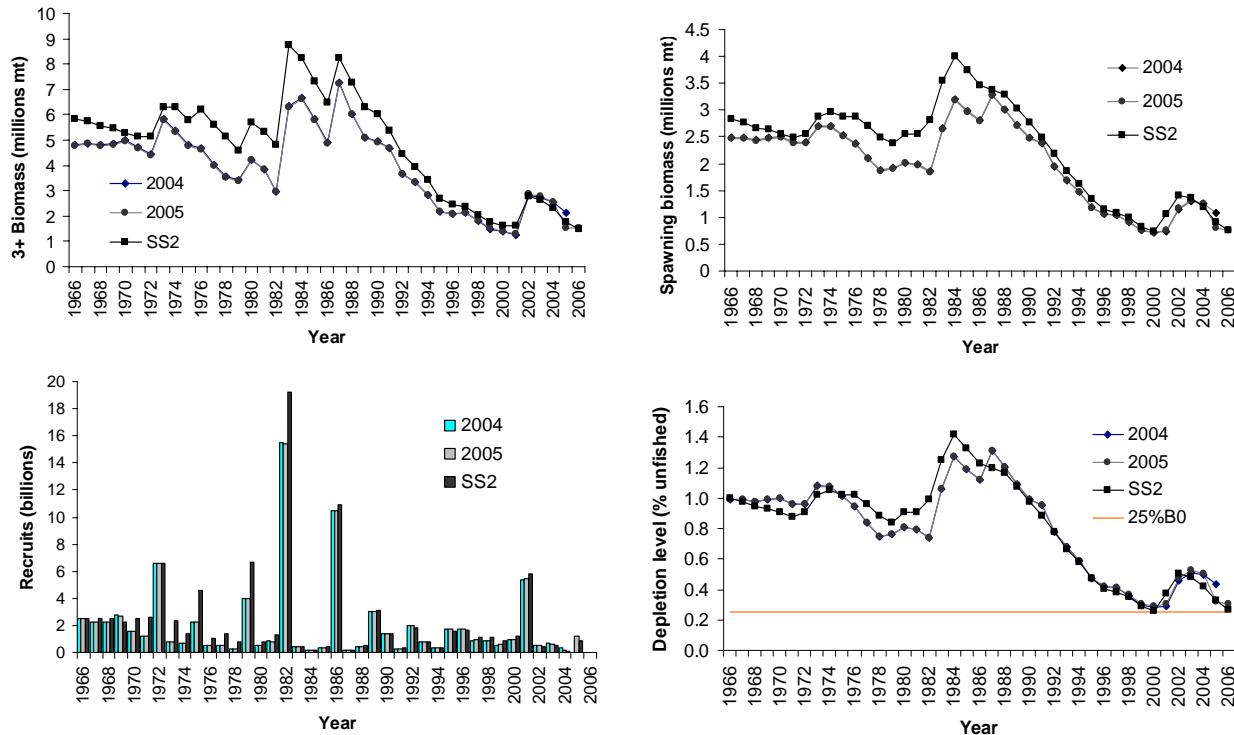


Figure 25. Time series of summary biomass (3 +), spawning biomass, recruitment (age 2) and depletion from comparative assessment model results; old hake model (Helser et. al. 2004) vs. SS2 (Methot 2005).

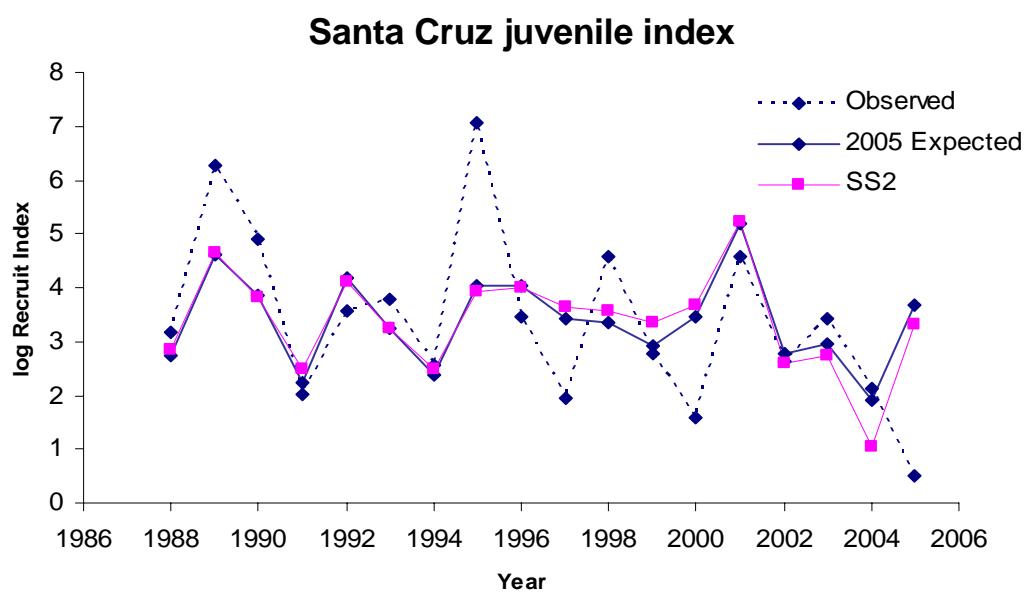
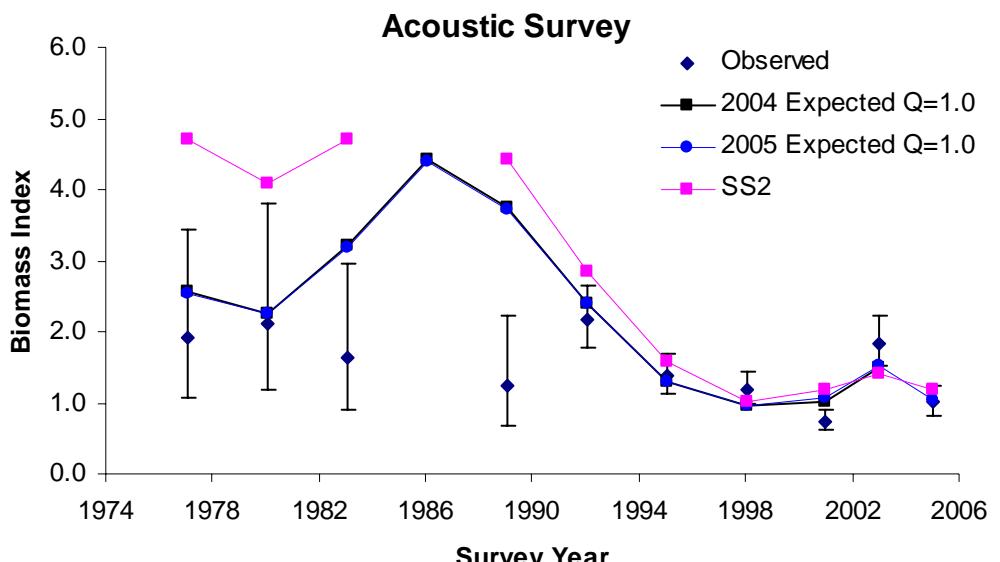


Figure 26. Predicted acoustic and juvenile survey fits from comparative assessment model results; old hake model (Helser et. al. 2004) vs. SS2 (Methot 2005).

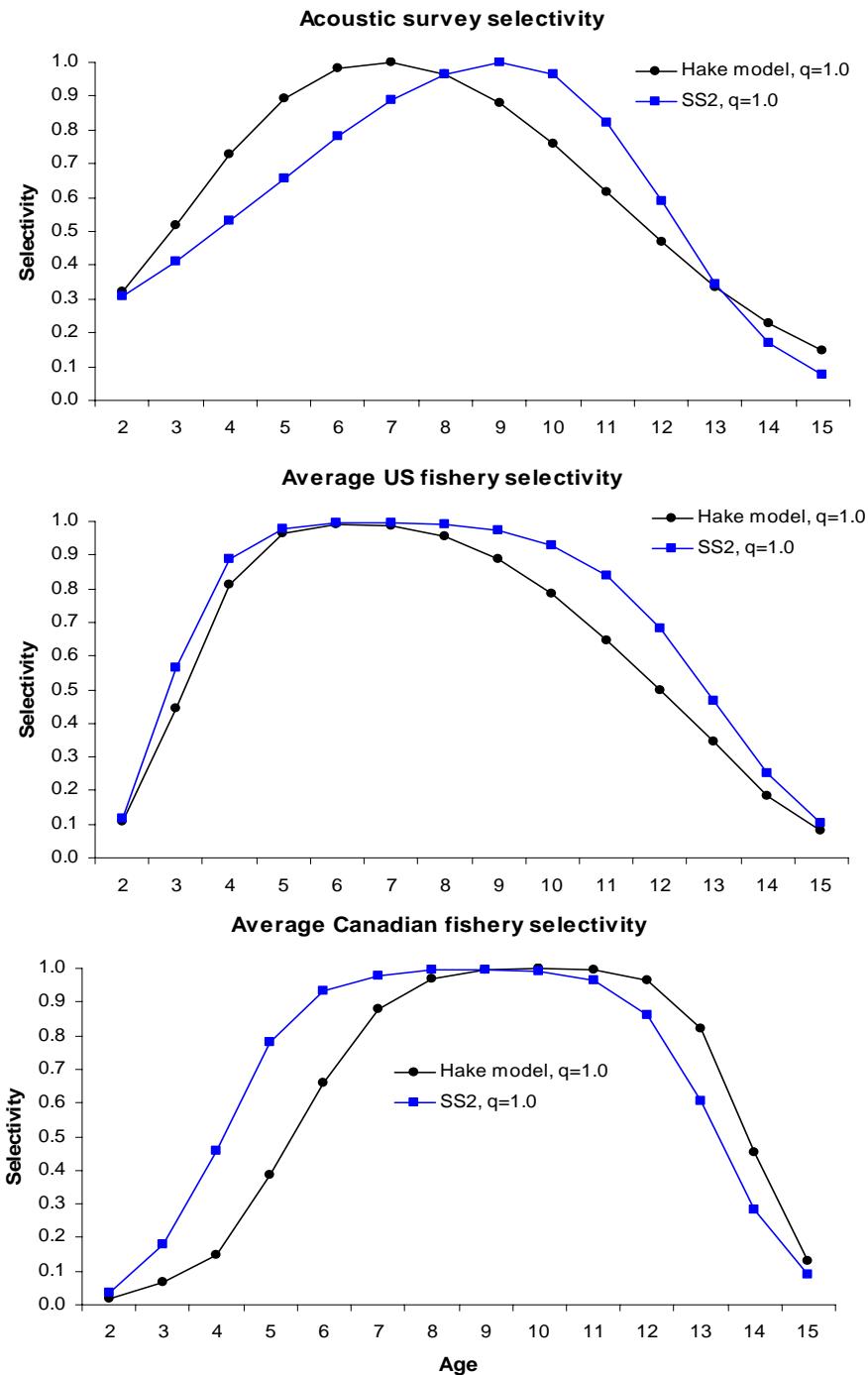


Figure 27. Estimated selectivity curves from comparative assessment model results; old hake model (Helser et. al. 2004) vs. SS2 (Methot 2005).

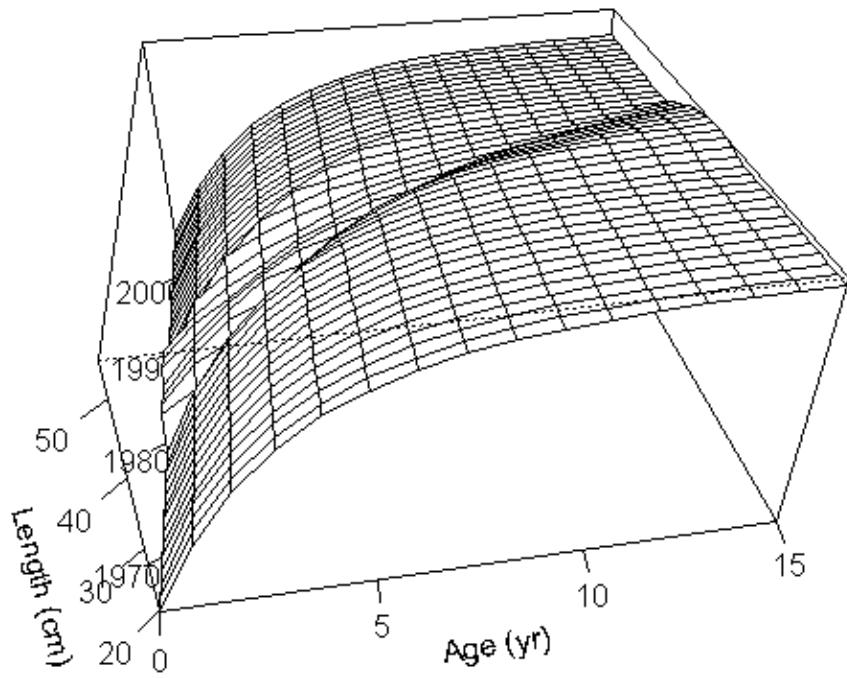
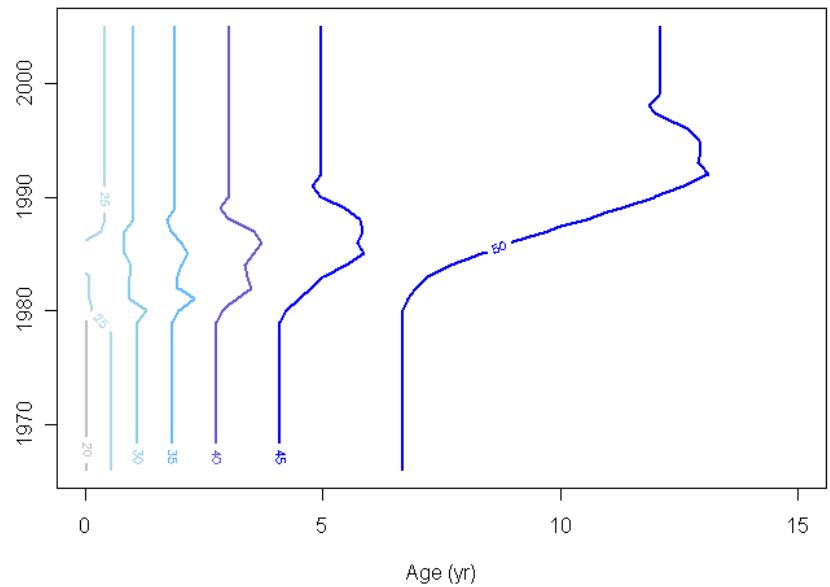


Figure 28. Time varying trajectory of growth in size at age assumed for Pacific Hake. Parameters were initially estimated but then fixed in the model.

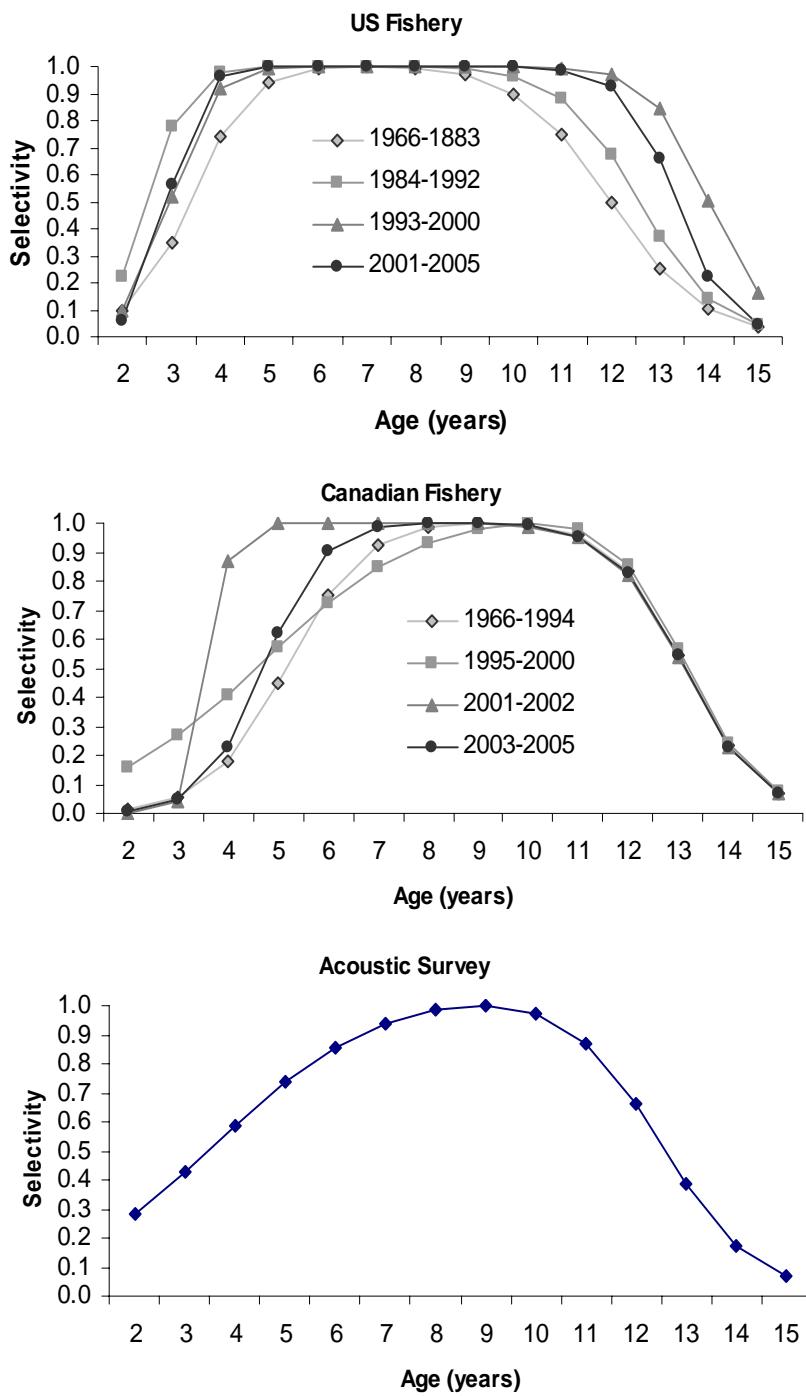


Figure 29. Estimated selectivity curves for different time blocks in the U.S. fishery, the Canadian fishery and acoustic survey. Selectivity in the acoustic survey was Assumed to be time-invariant.

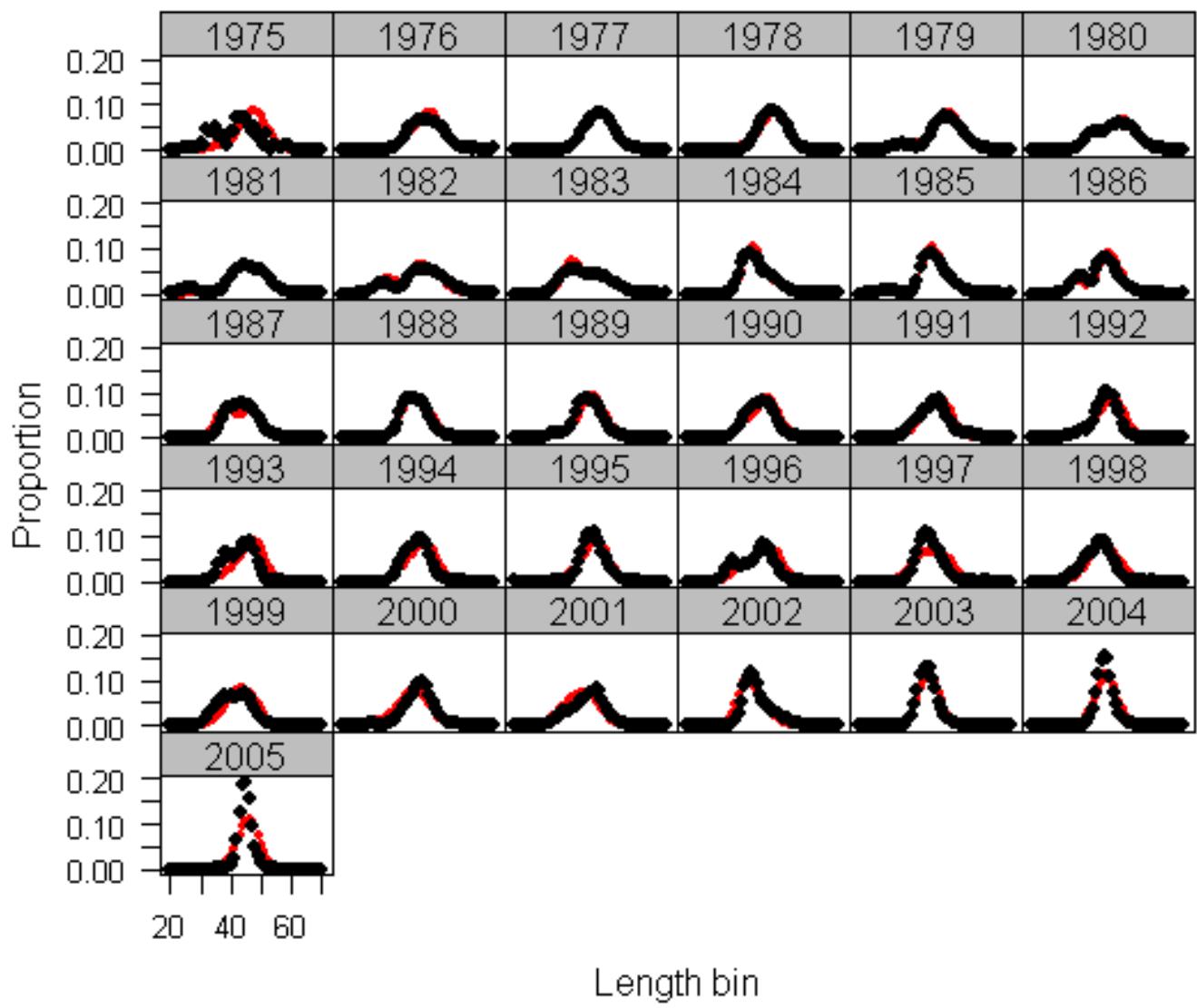


Figure 30. Predicted fits to the observed U.S. fishery length composition data.

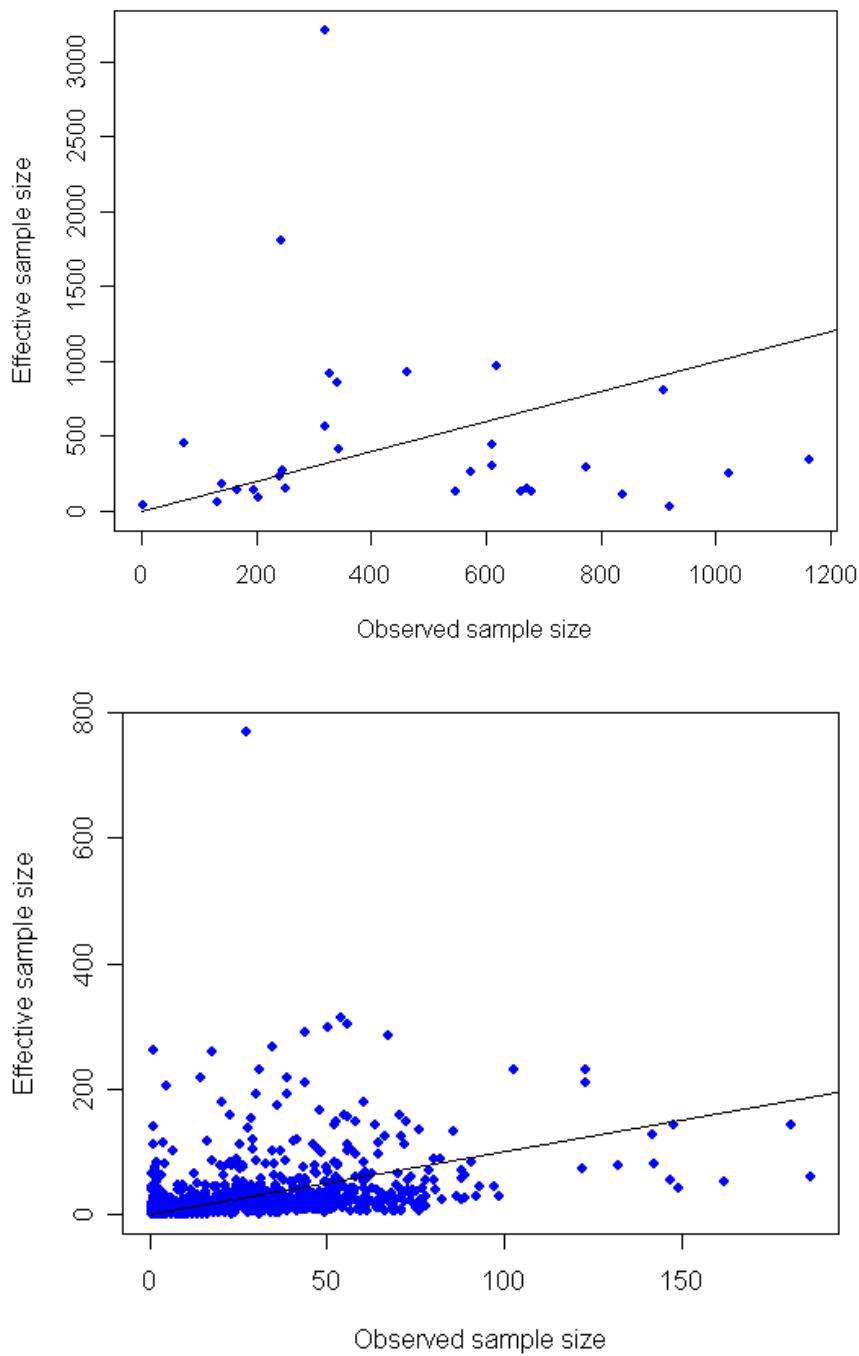


Figure 31. Effective vs. input sample sizes for the U.S. fishery length compositions (top panel) and conditional age at length compositions (bottom panel).

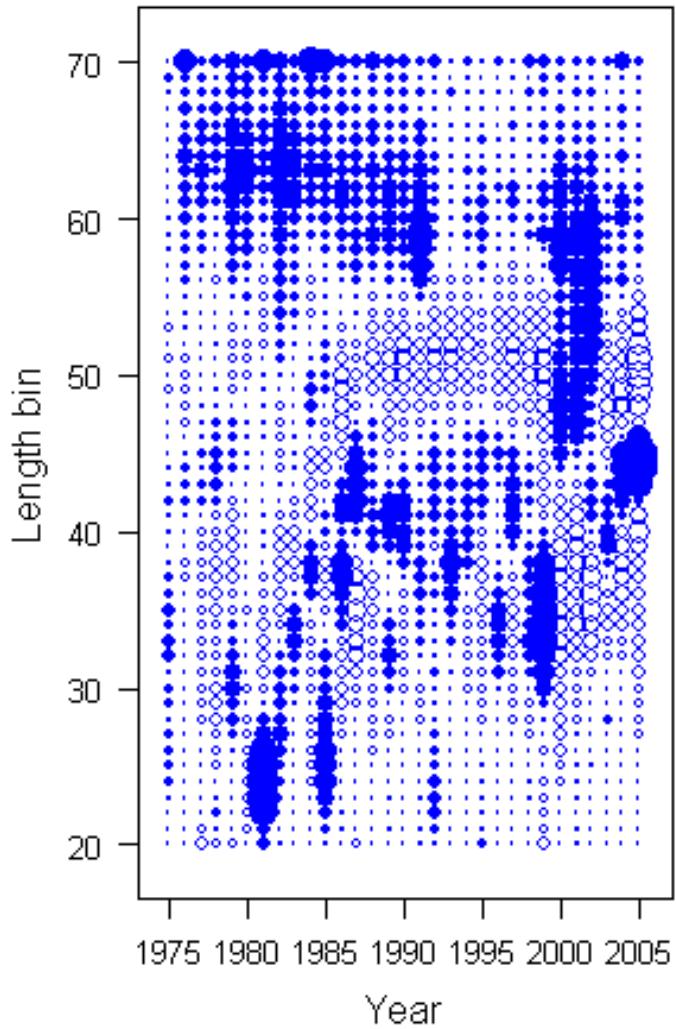


Figure 32. Pearson residuals of model fits to the U.S. fishery length composition data.

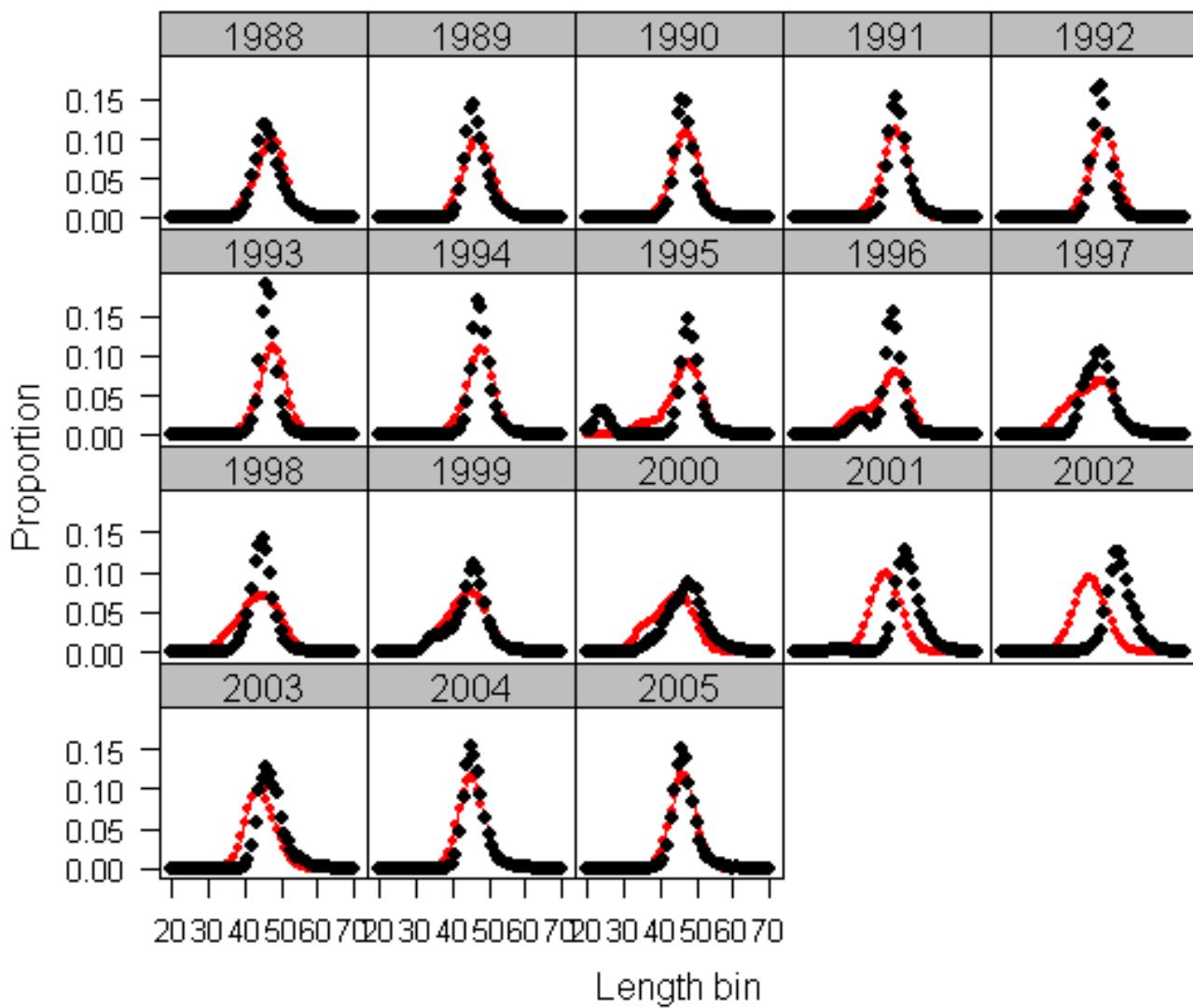


Figure 33. Predicted fits to the observed Canadian fishery length composition data.

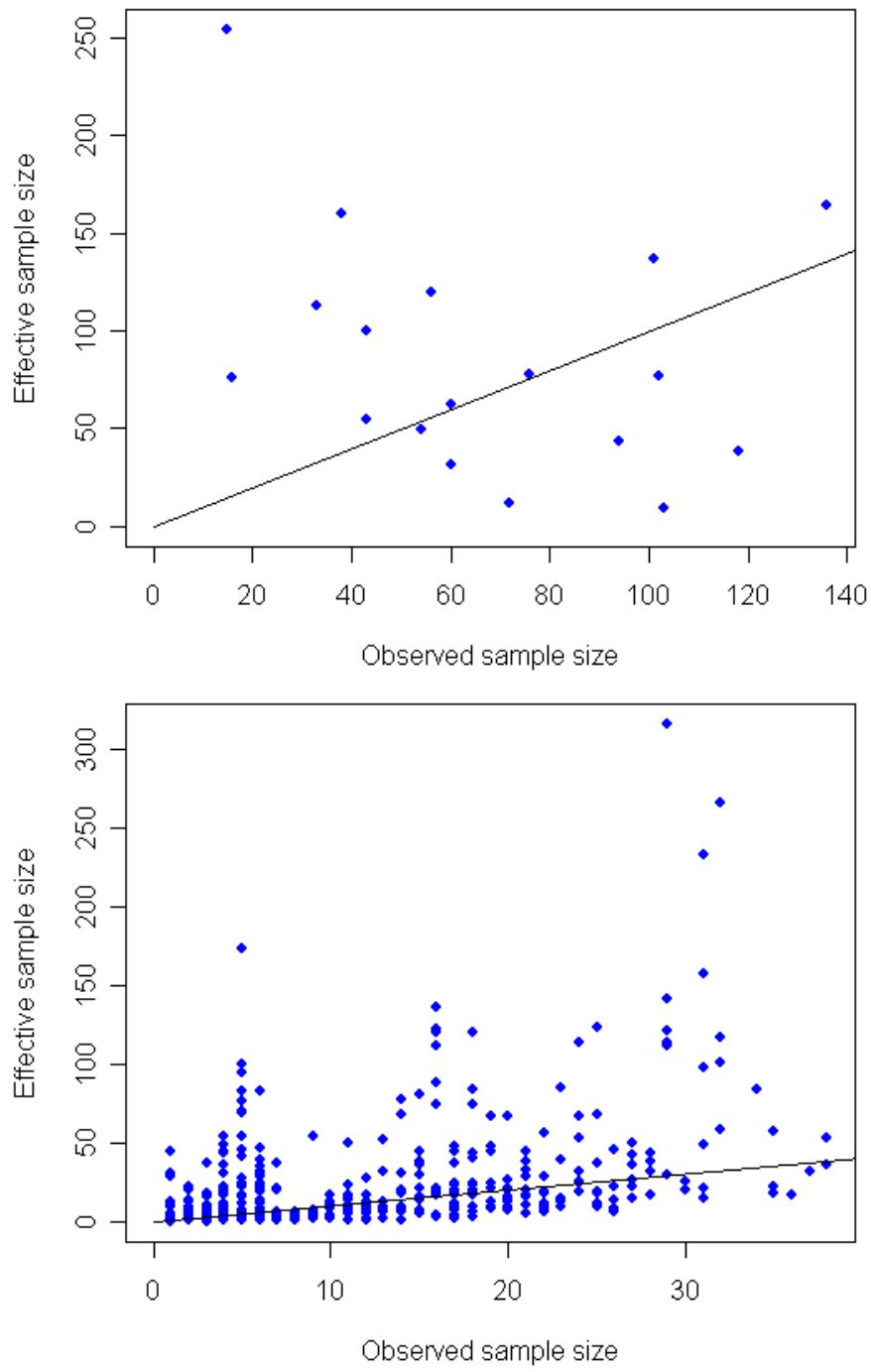


Figure 34. Effective vs. input sample sizes for the Canadian fishery length compositions (top panel) and conditional age at length compositions (bottom panel).

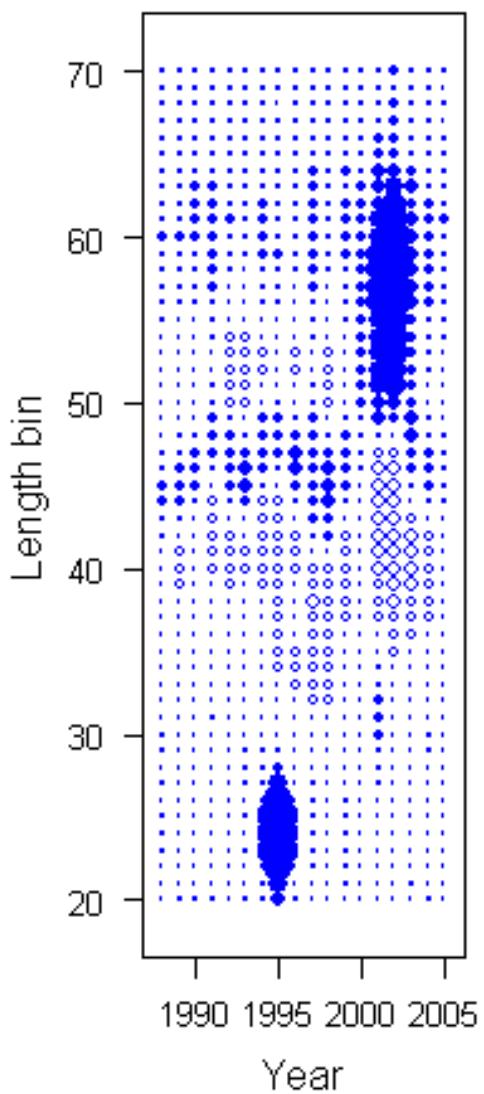


Figure 35. Pearson residuals of model fits to the Canadian length composition data.

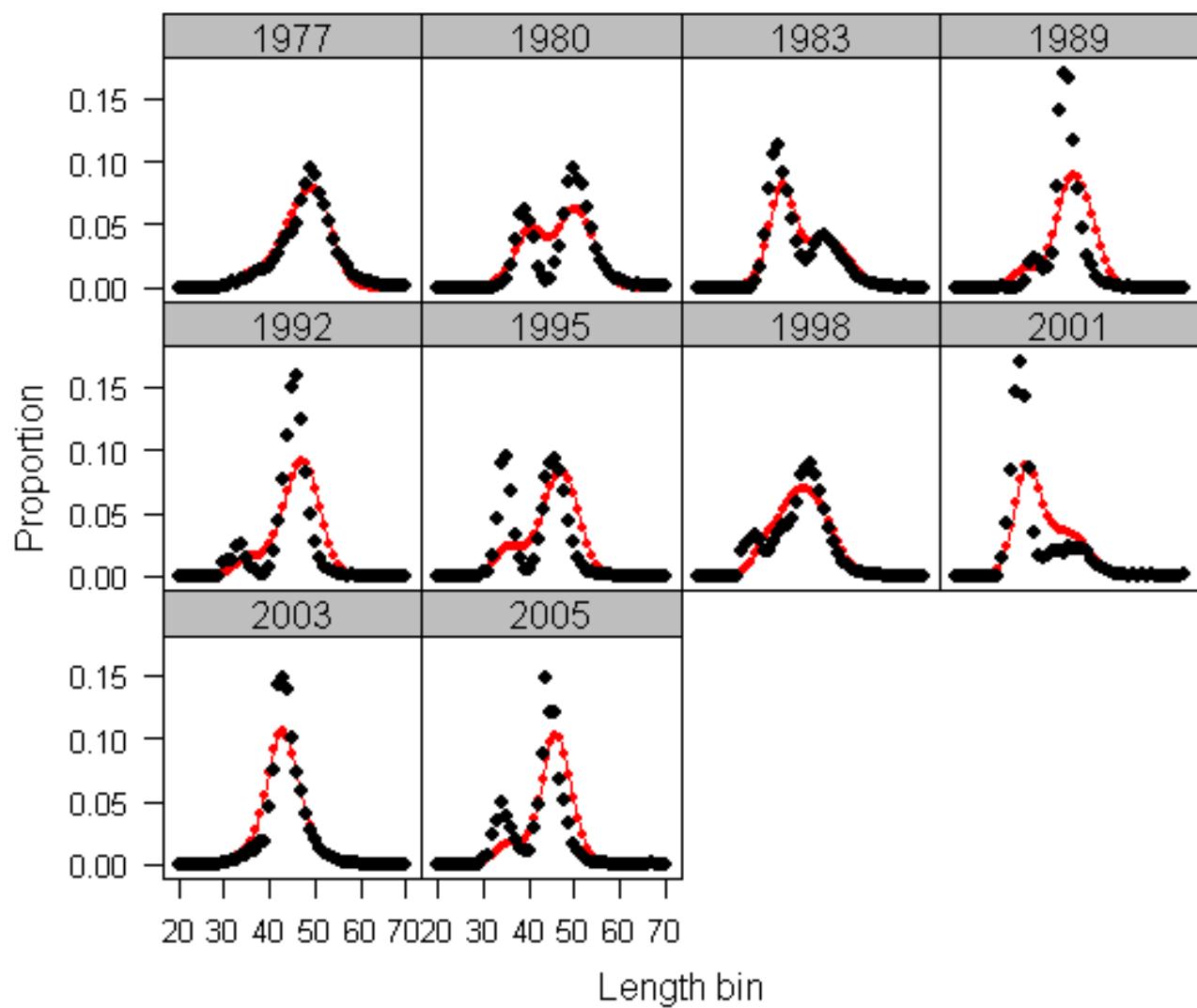


Figure 36. Predicted fits to the observed acoustic survey length composition data.

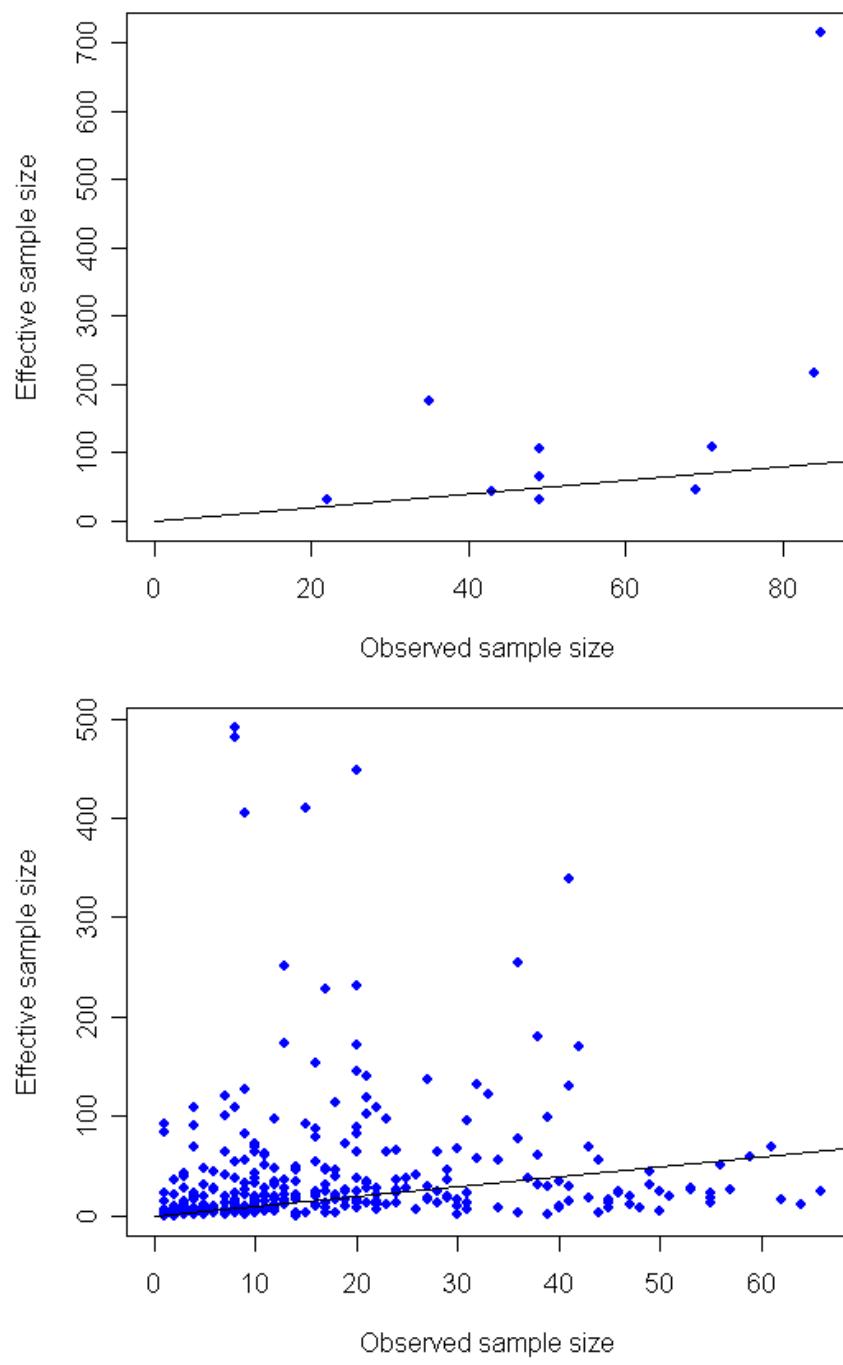


Figure 37. Effective vs. input sample sizes for the acoustic survey length compositions (top panel) and conditional age at length compositions (bottom panel).

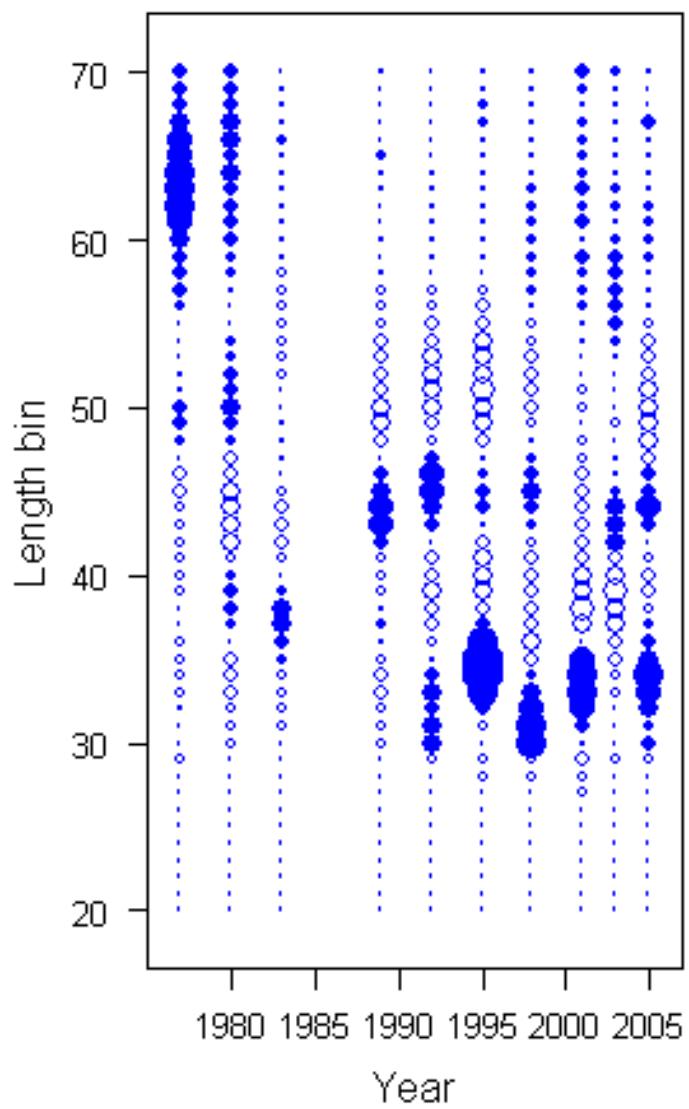


Figure 38. Pearson residuals of model fits to the acoustic survey length composition data.

1988 Age at length bin for females, fleet 1

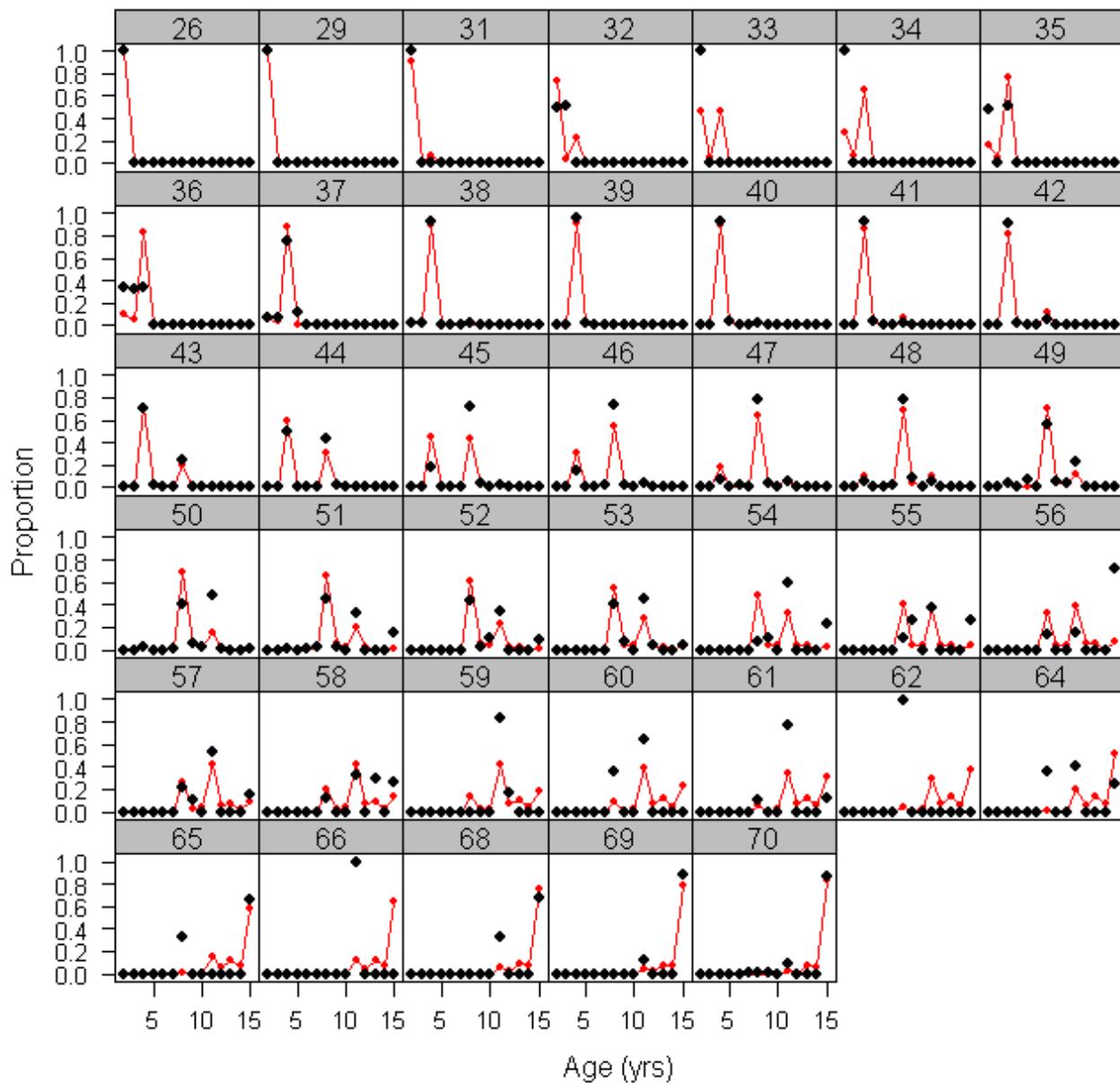


Figure 39. Model fits to the observed 1988 U.S. fishery conditional age at length data .

1988 Age at length bin for females, fleet 2

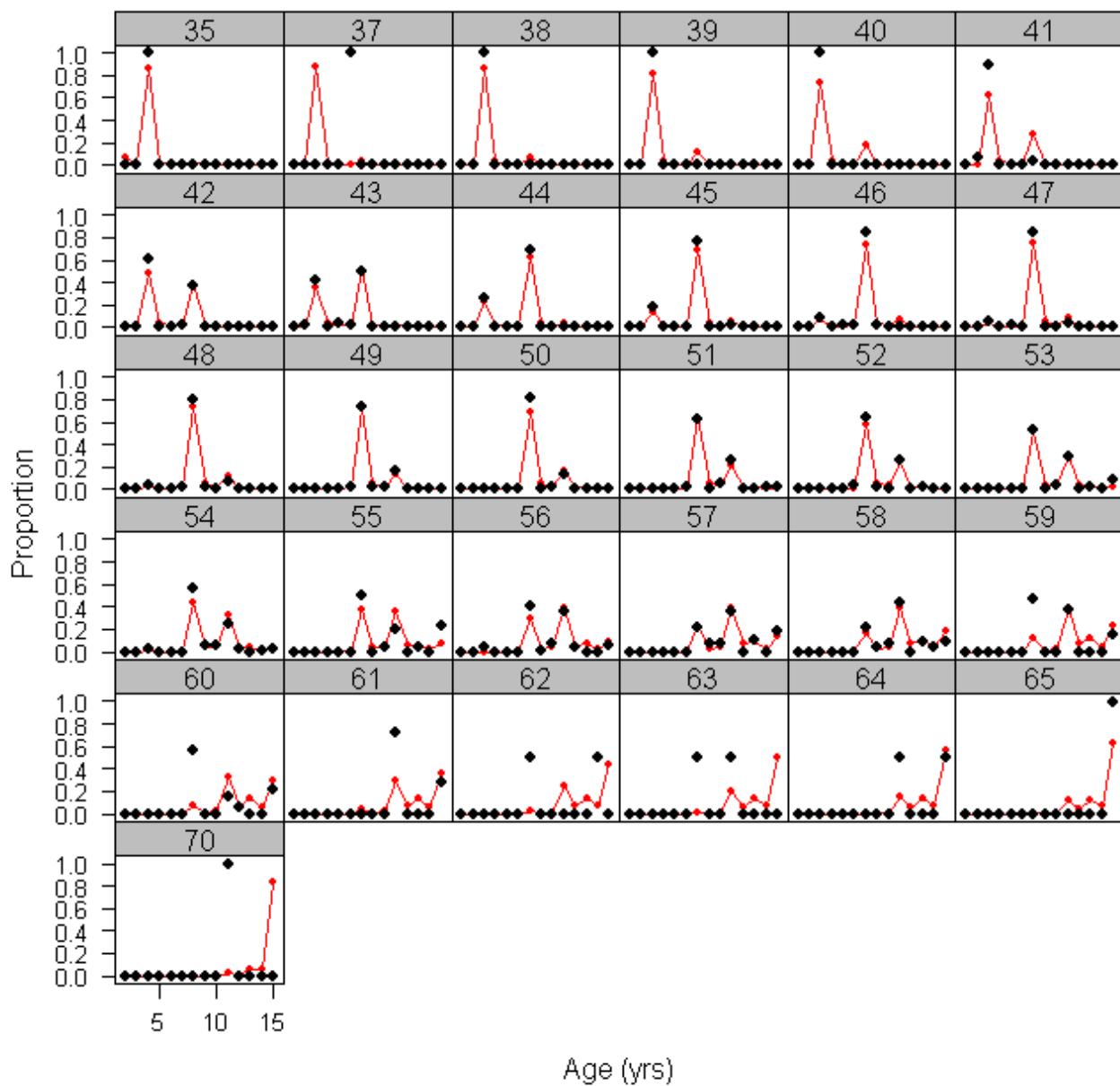


Figure 40. Model fits to the observed 1988 Canadian fishery conditional age at length data .

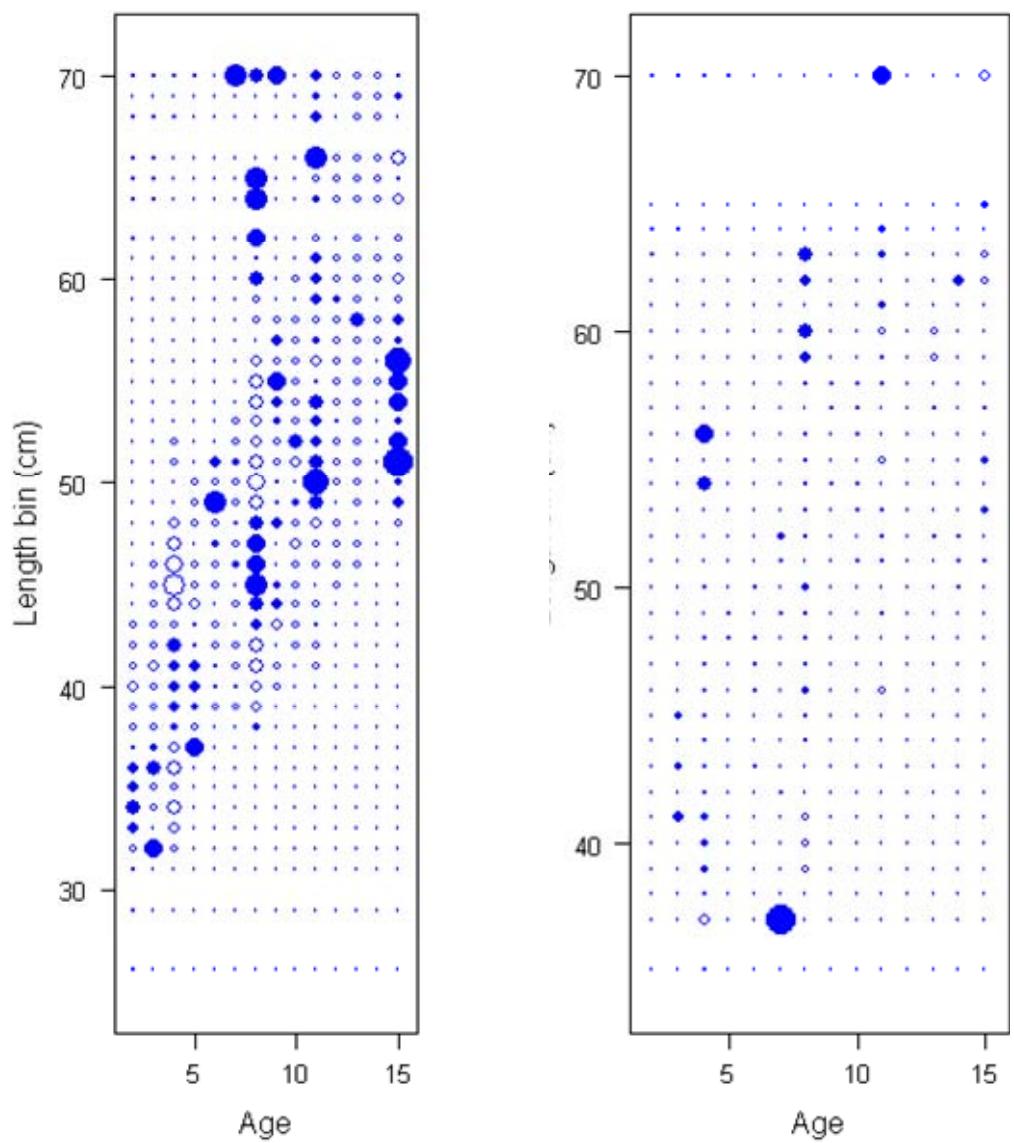


Figure 41. Pearson residuals of model fits to the 1988 U.S. fishery (left) and Canadian (right) conditional age at length data .

2005 Age at length bin for females, fleet 1

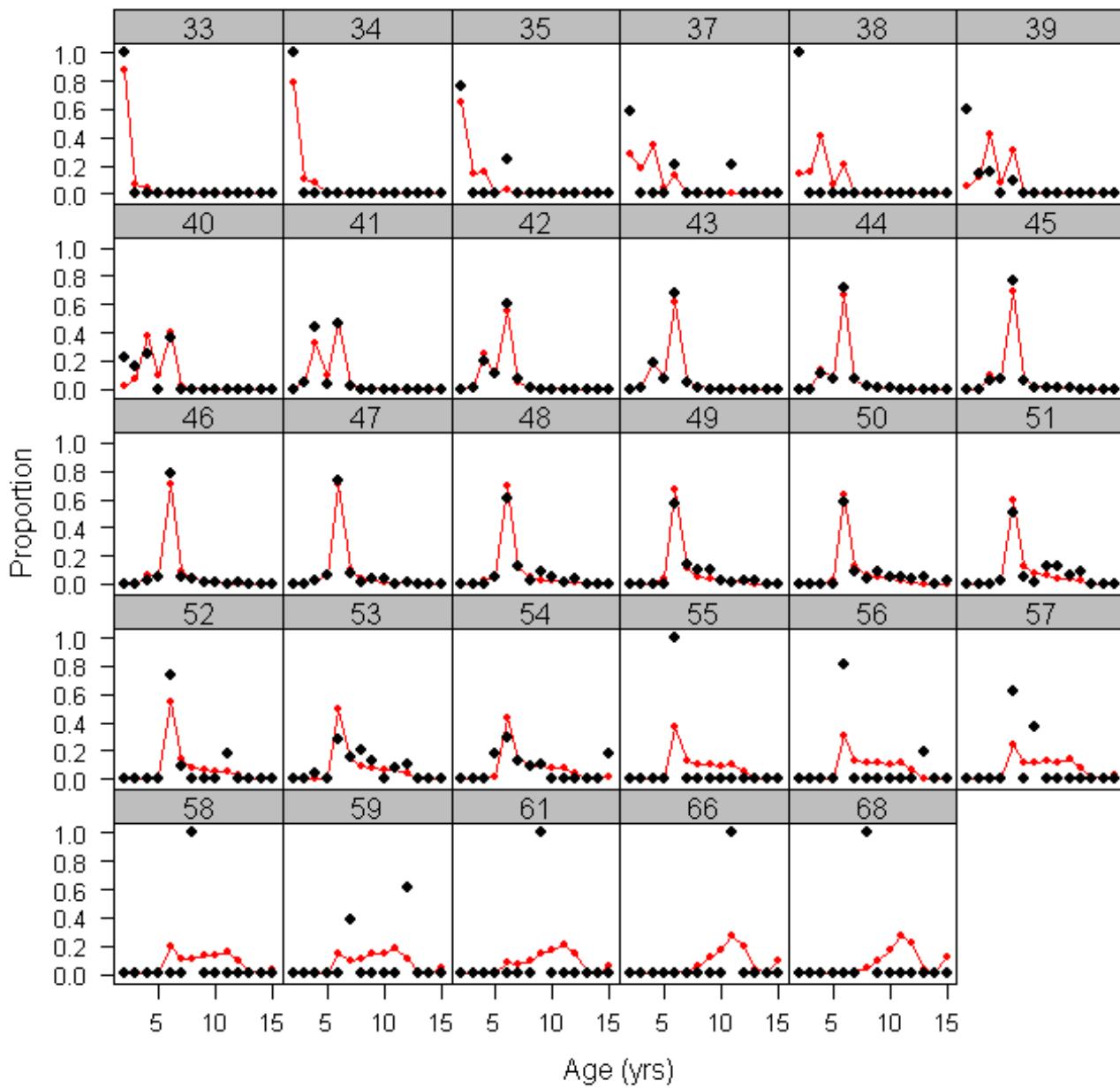


Figure 42. Model fits to the observed 2005 U.S. fishery conditional age at length data .

2005 Age at length bin for females, fleet 2

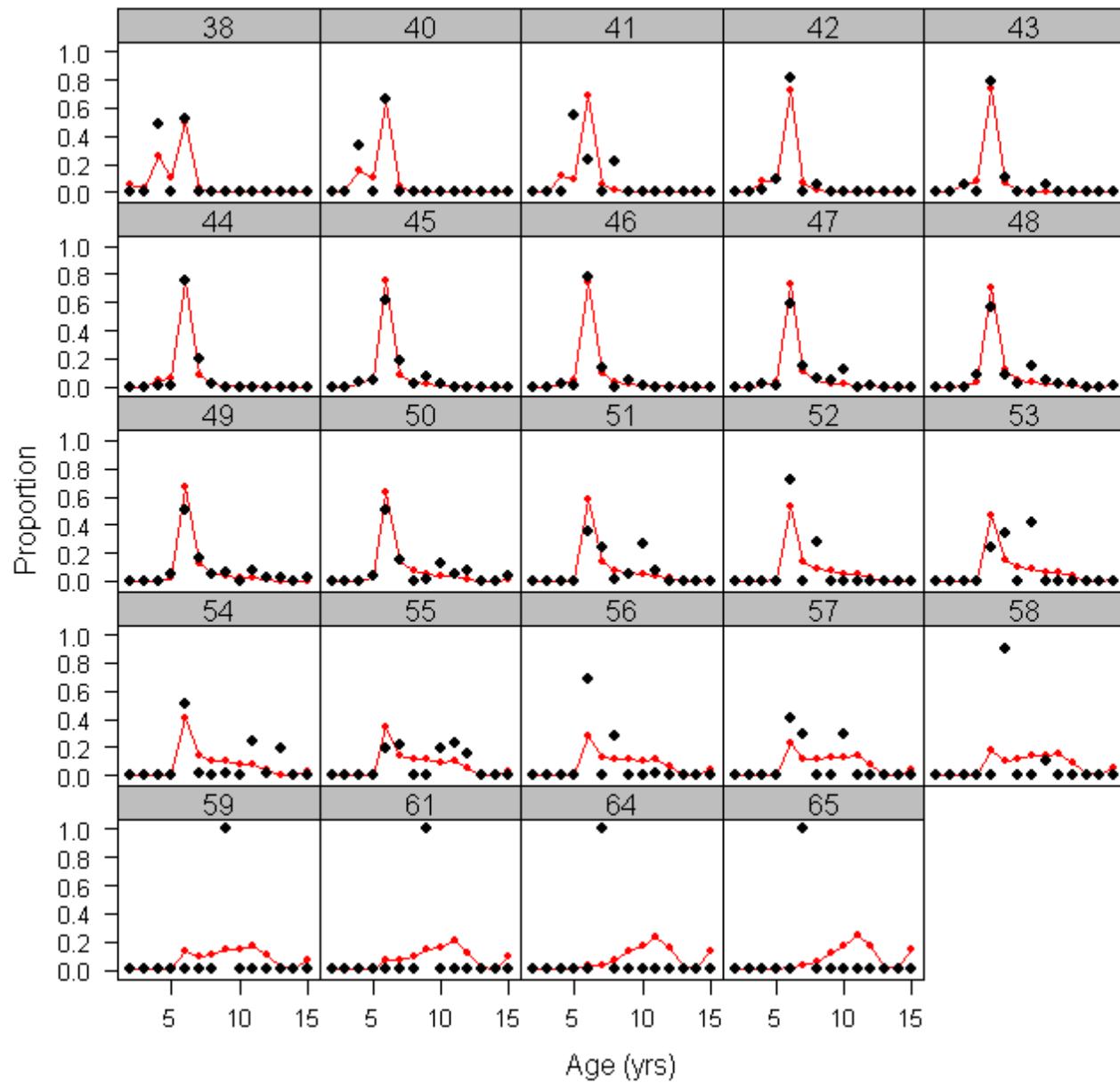


Figure 43. Model fits to the observed 2005 Canadian fishery conditional age at length data .

2005 Age at length bin for females, fleet 3

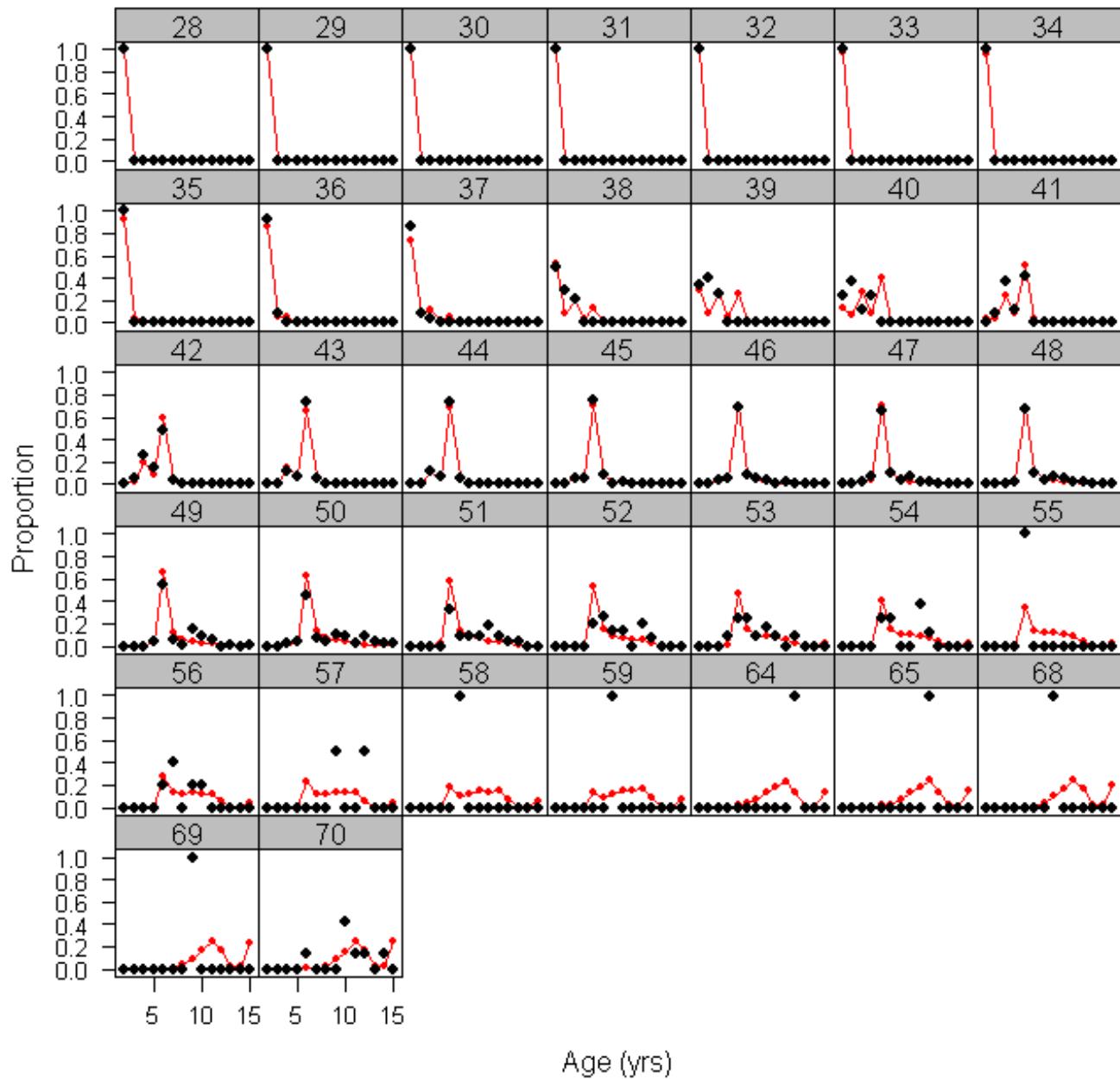


Figure 44. Model fits to the observed 2005 acoustic survey conditional age at length data .

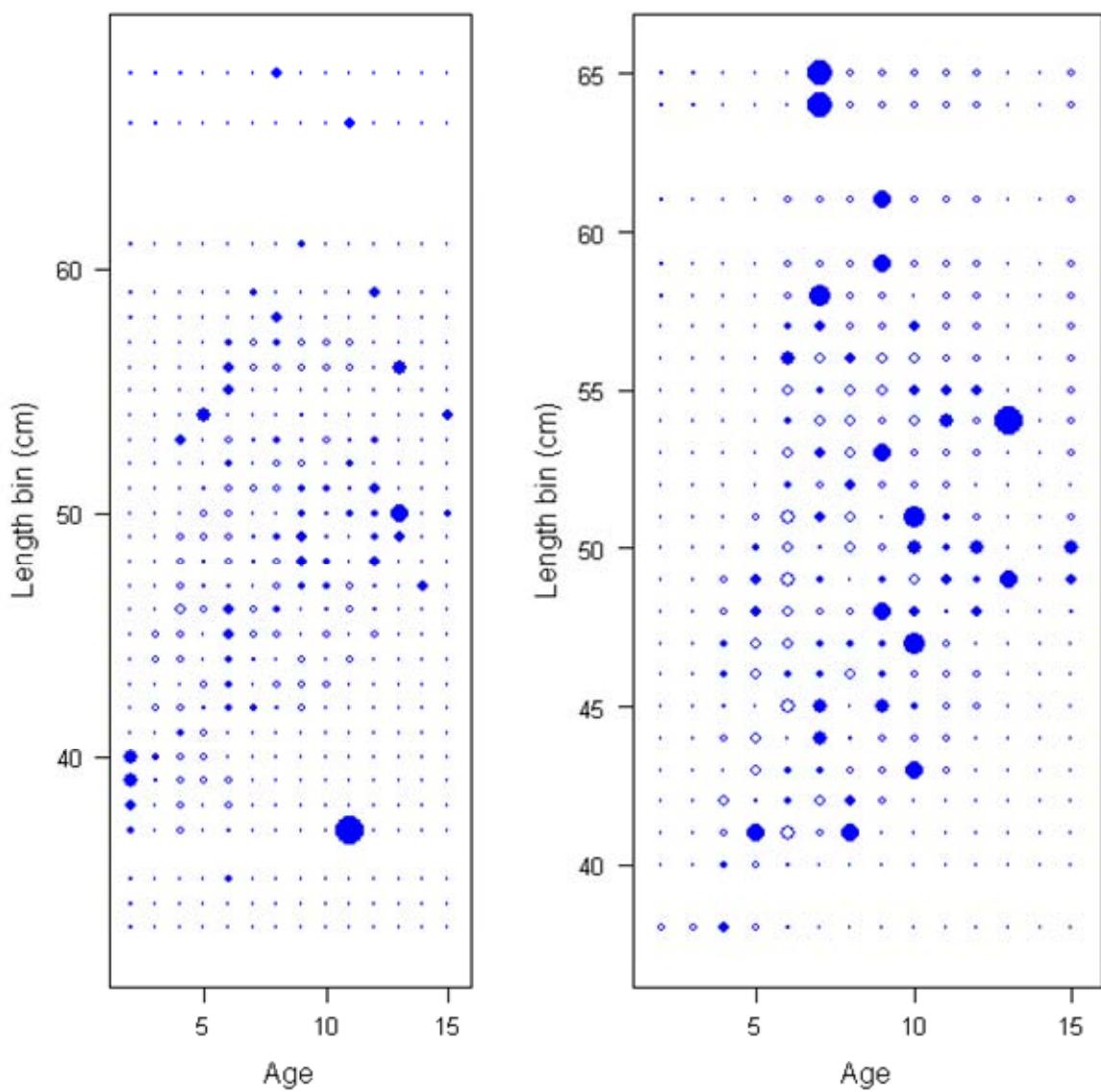


Figure 45. Pearson residuals of model fits to the 2005 U.S. fishery (left) and Canadian (right) conditional age at length data .

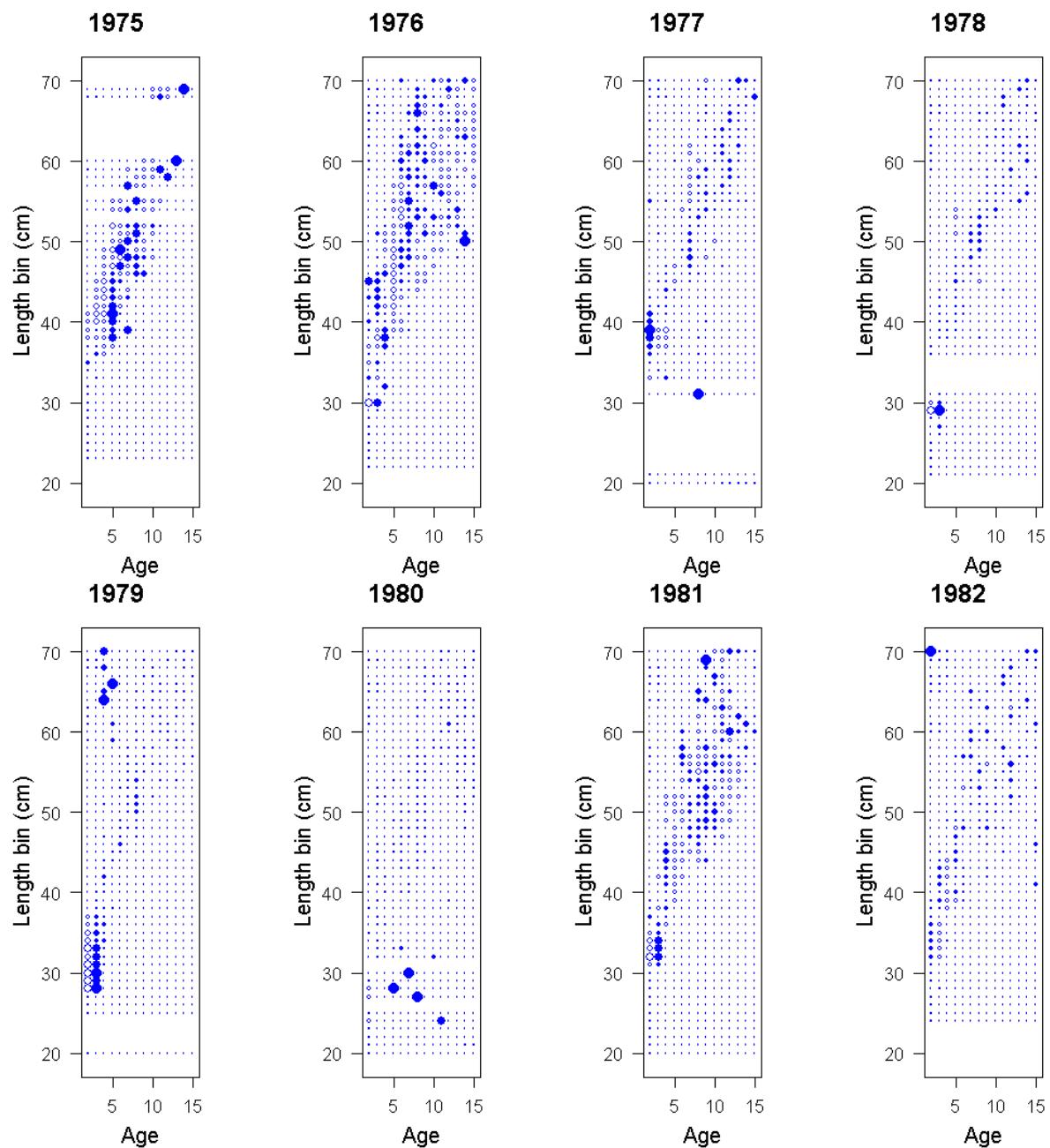


Figure 46. Standardized Pearson age at length residuals for the US fleet. Open circles indicate negative residuals, filled circles indicate positive residuals.

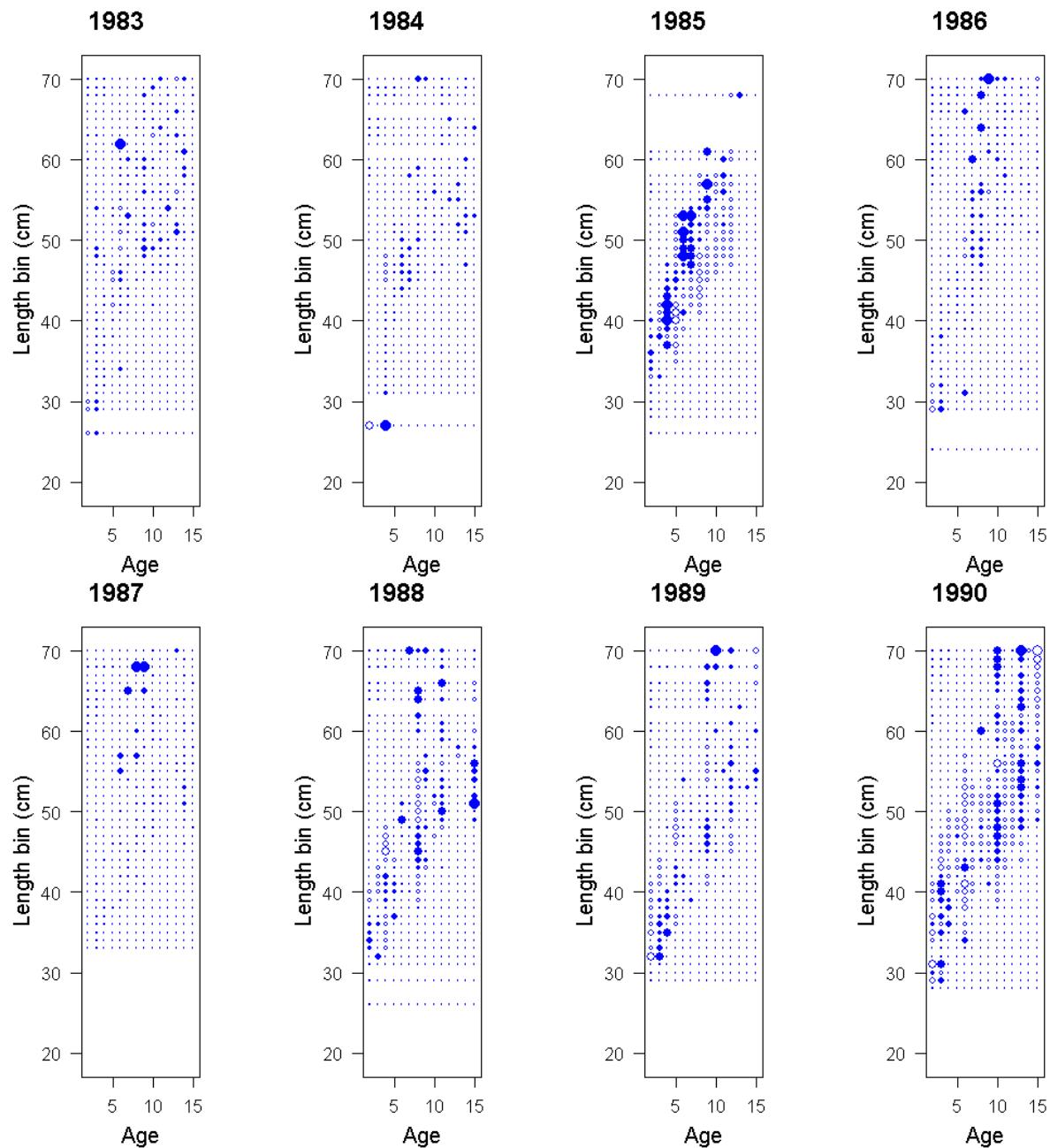


Figure 46 continued. Standardized Pearson age at length residuals for the US fleet. Open circles Indicate negative residuals, filled circles indicate positive residuals.

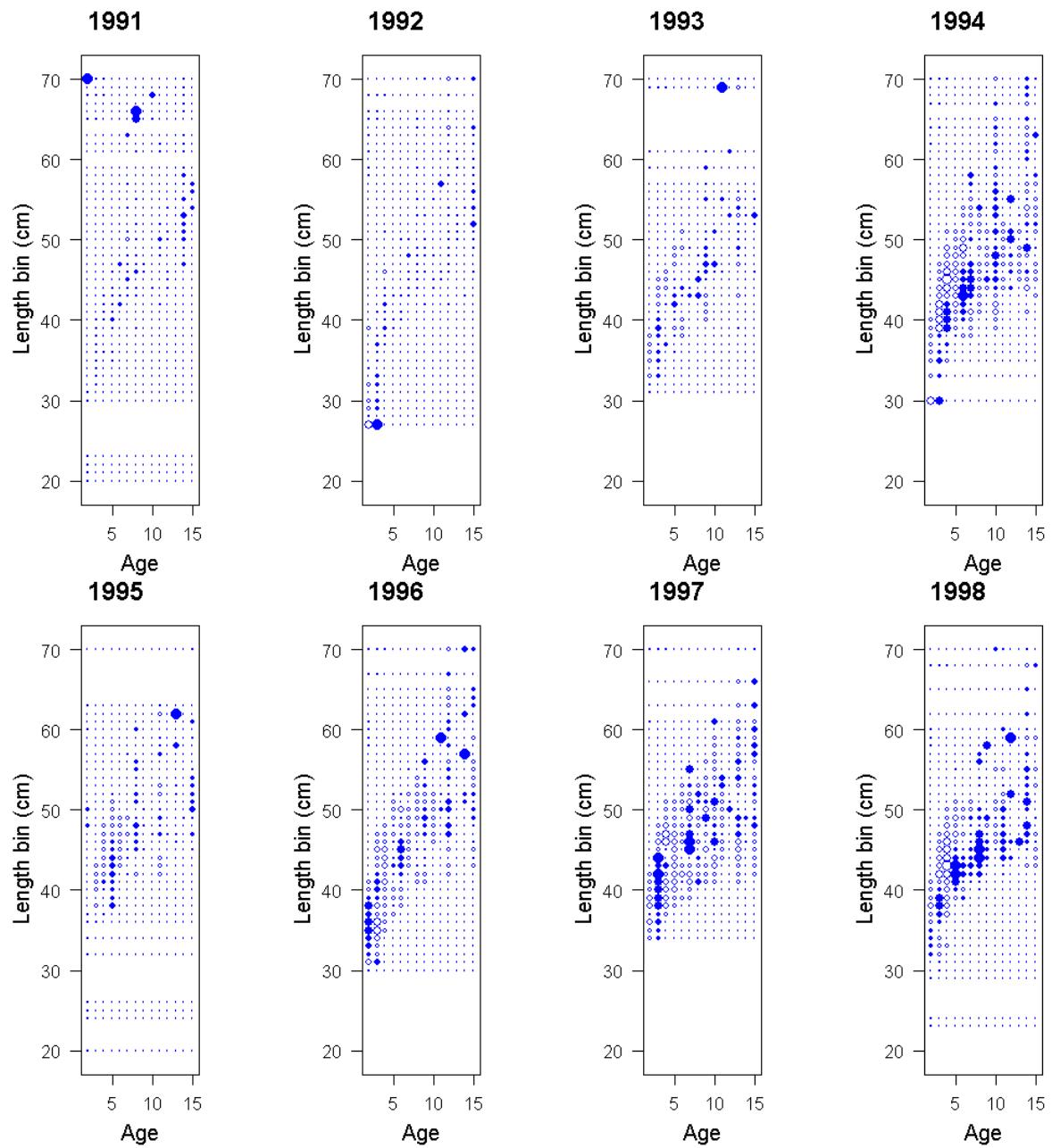


Figure 46 continued. Standardized Pearson age at length residuals for the US fleet. Open circles Indicate negative residuals, filled circles indicate positive residuals.

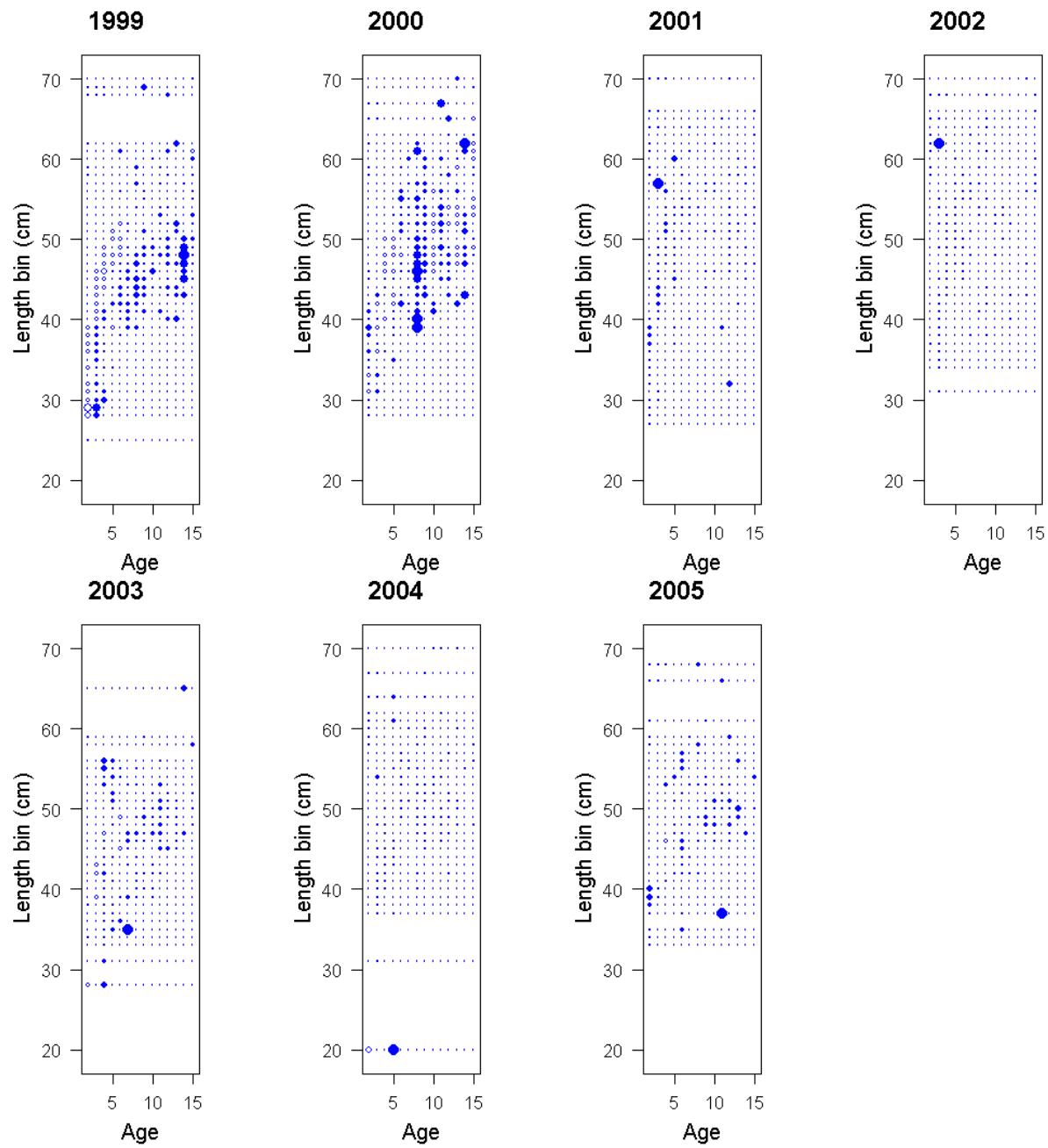


Figure 46 continued. Standardized Pearson age at length residuals for the US fleet. Open circles Indicate negative residuals, filled circles indicate positive residuals.

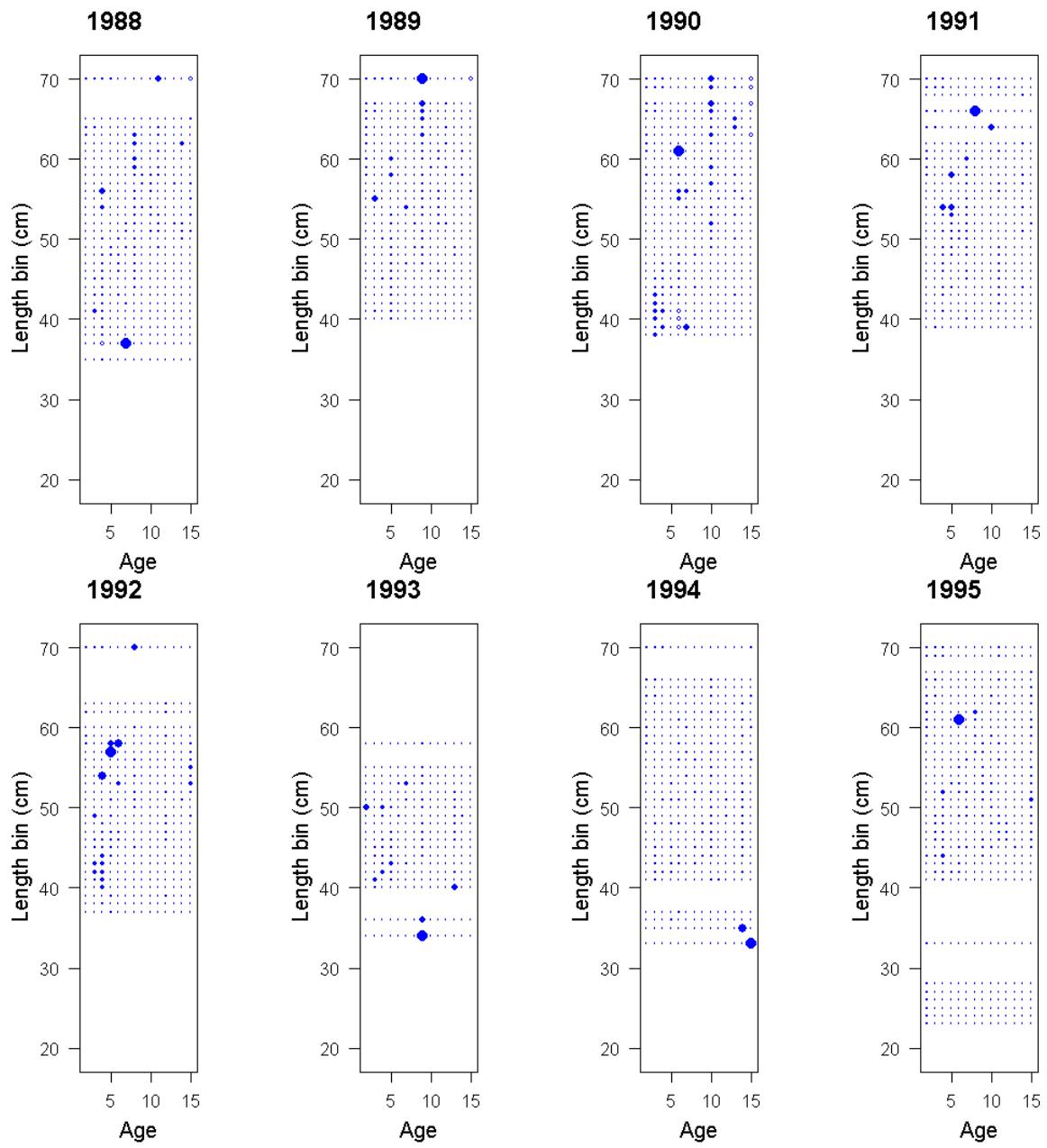


Figure 46 continued. Standardized Pearson age at length residuals for the Canadian fleet. Open circles Indicate negative residuals, filled circles indicate positive residuals.

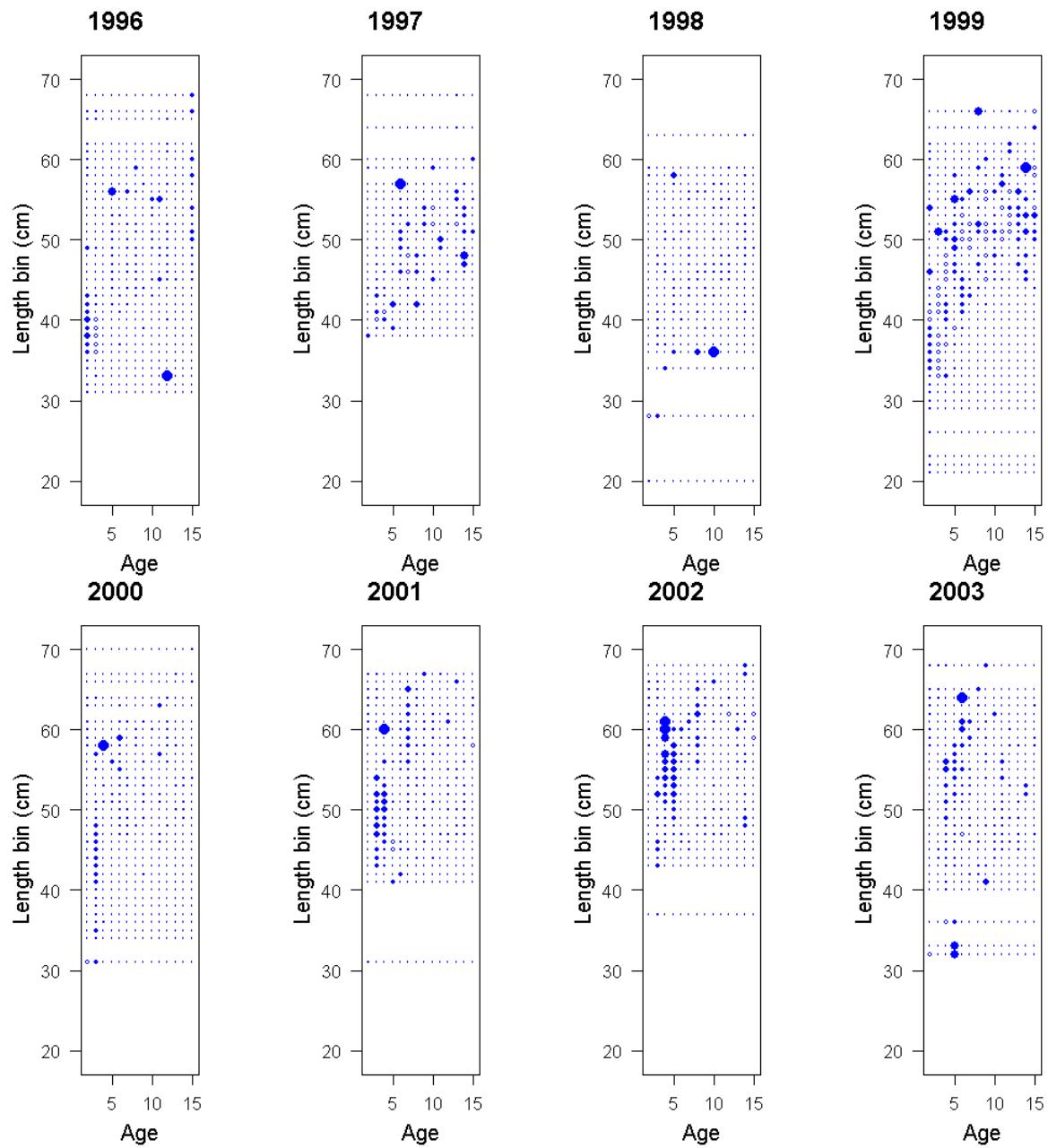


Figure 46 continued. Standardized Pearson age at length residuals for the Canadian fleet. Open circles Indicate negative residuals, filled circles indicate positive residuals.

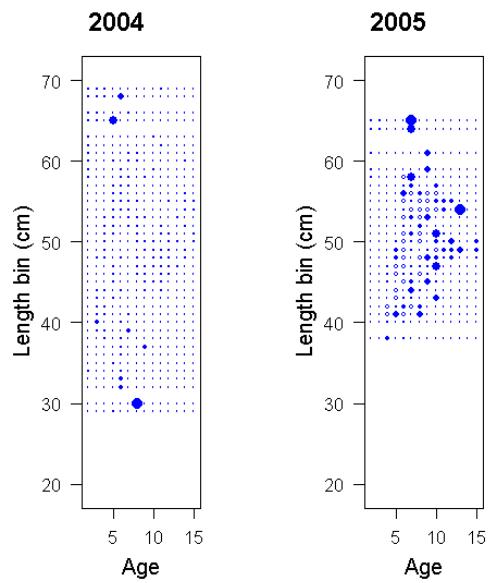


Figure 46 continued. Standardized Pearson age at length residuals for the Canadian fleet. Open circles Indicate negative residuals, filled circles indicate positive residuals.

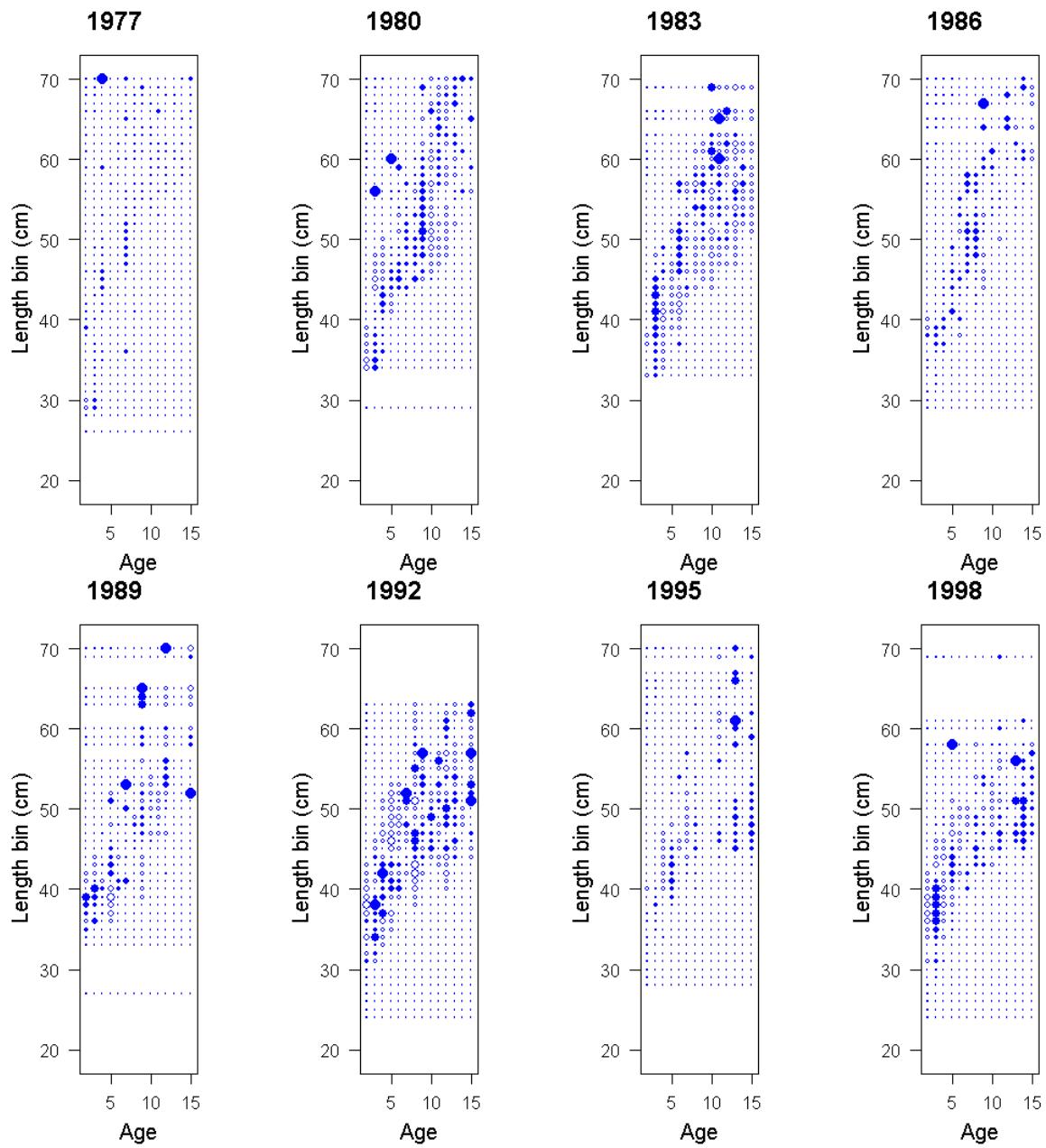


Figure 46 continued. Standardized Pearson age at length residuals for the acoustic survey. Open circles indicate negative residuals, filled circles indicate positive residuals.

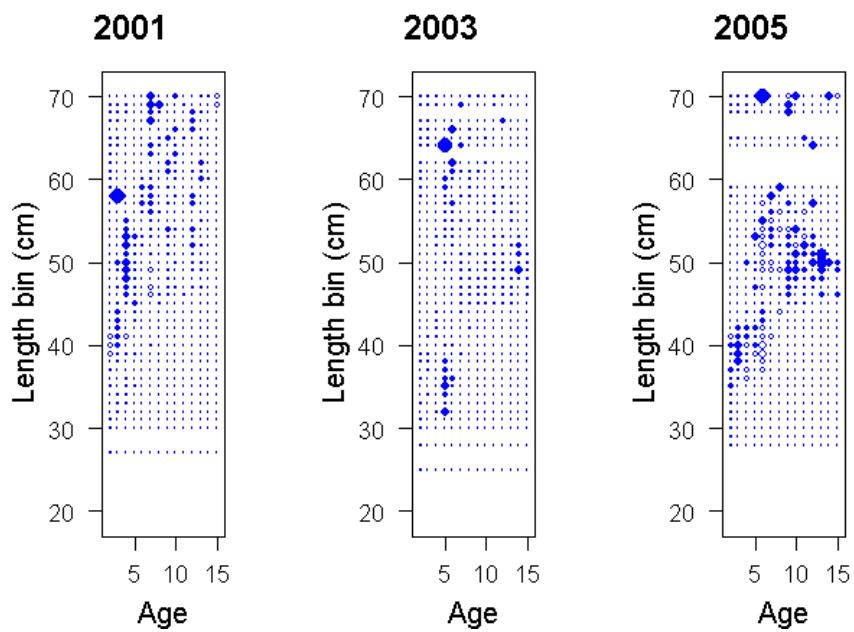


Figure 46 continued. Standardized Pearson age at length residuals for the acoustic survey. Open circles Indicate negative residuals, filled circles indicate positive residuals.

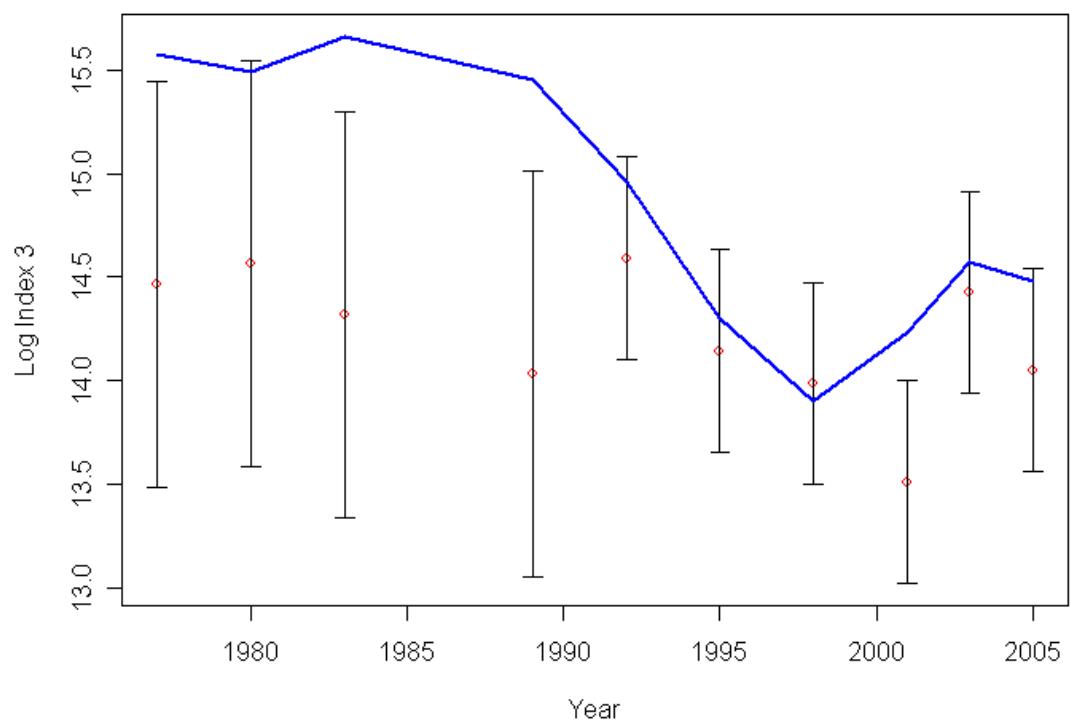


Figure 47. Predicted fit of acoustic survey biomass to the observed time series. Value are shown on a logarithmic scale.

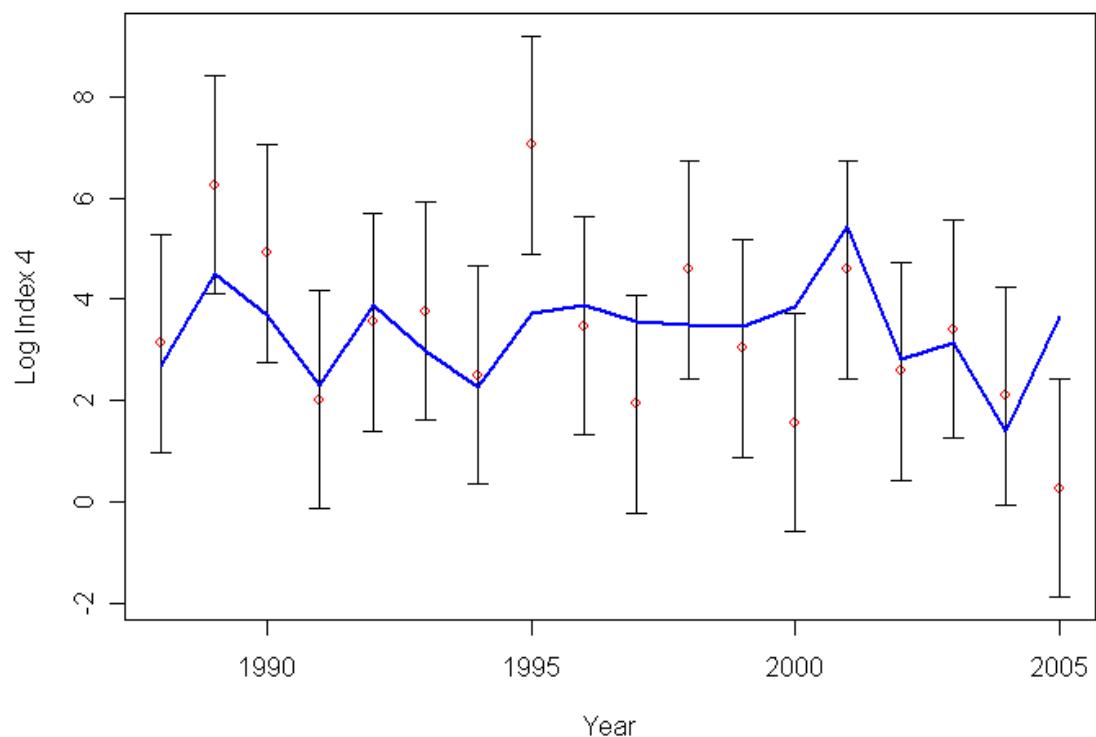


Figure 48. Predicted fit of the Santa Cruz pre-recruit hake survey of the observed time series. Value are shown on a logarithmic scale.

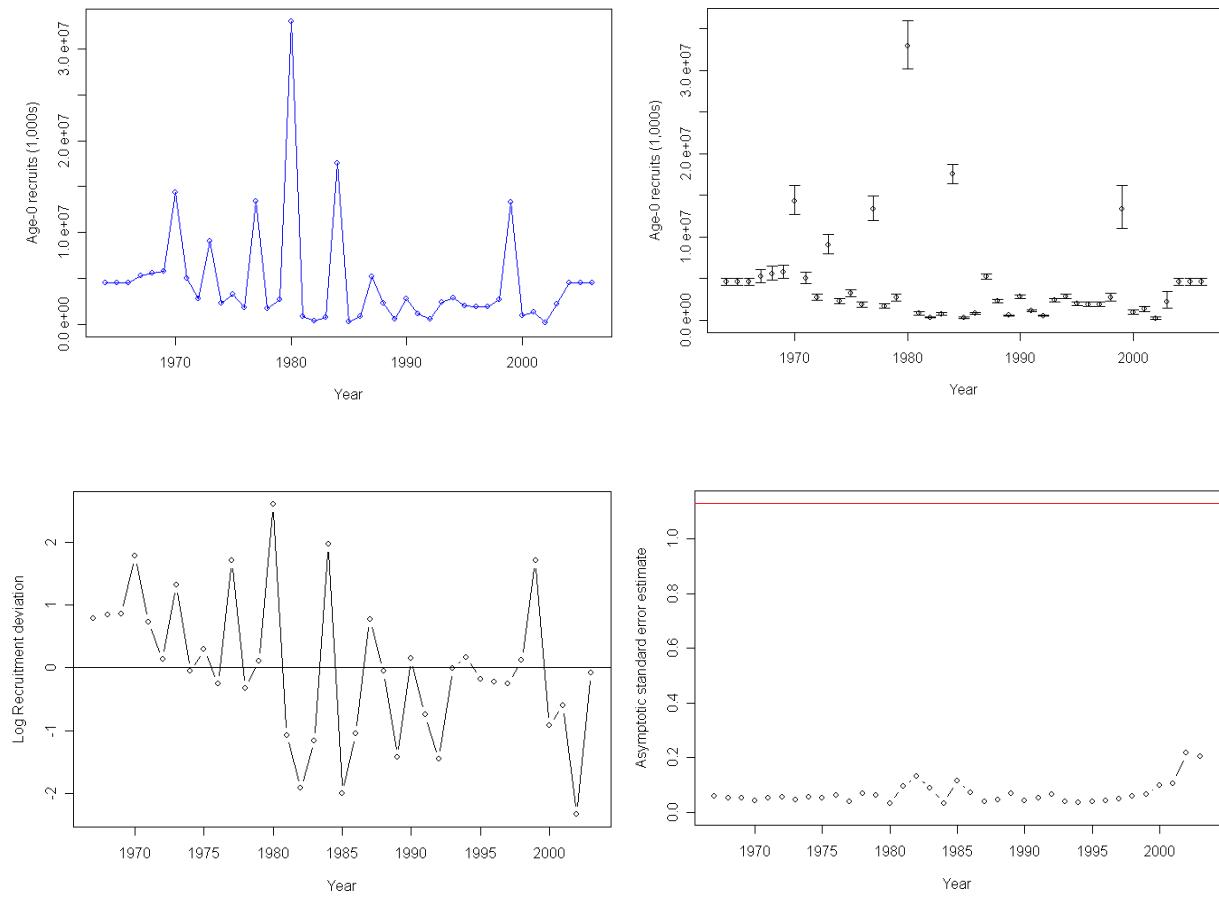


Figure 49. Estimates of Pacific hake recruitment, recruitment uncertainty, recruitment deviations and asymptotic standard errors from base SS2 model results. Recruitments were estimated from 1967-2003, but otherwise taken as mean recruitment.

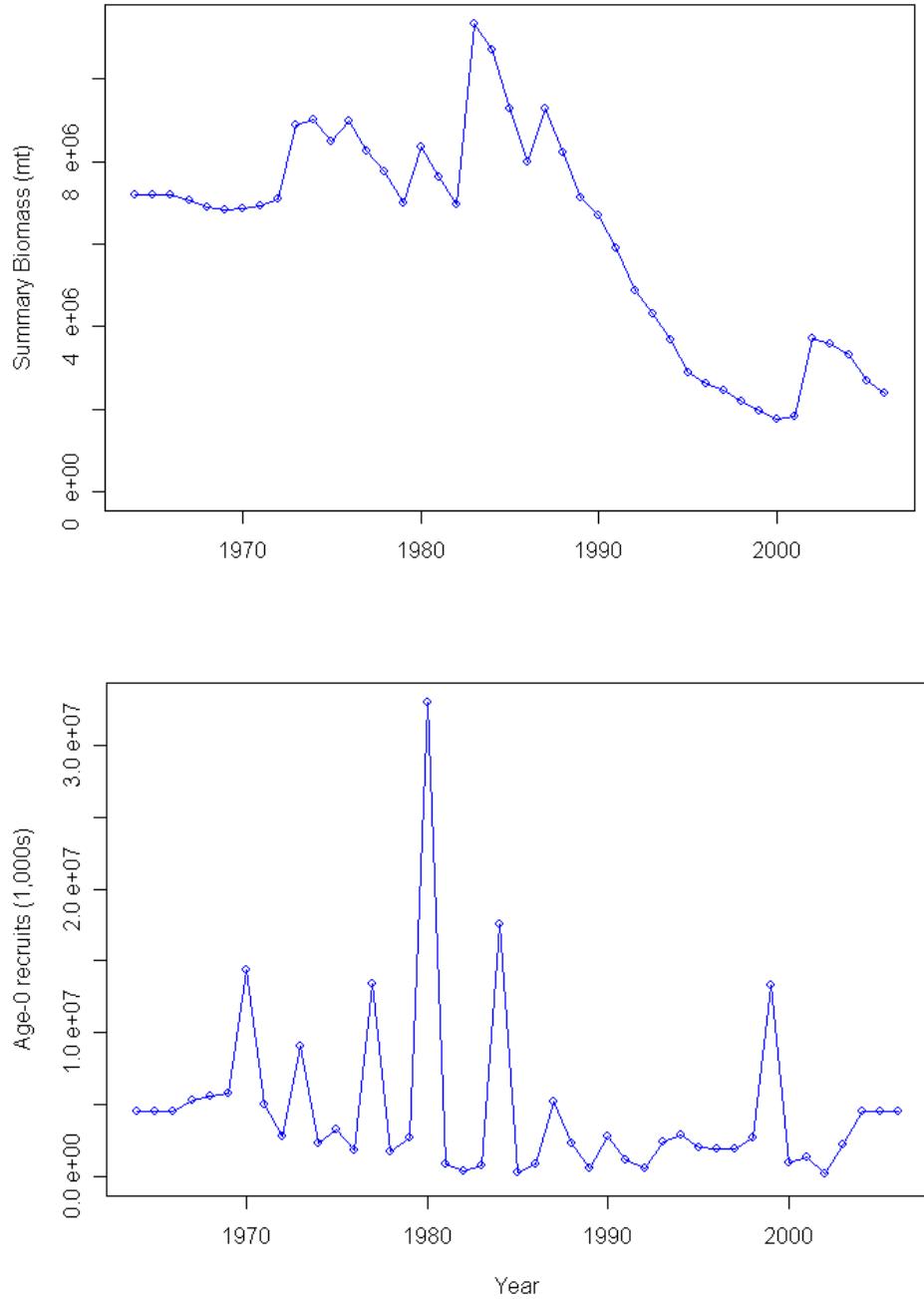


Figure 50. Estimated time series of Pacific hake summary biomass (age 3+) and recruitment from the base SS2 model.

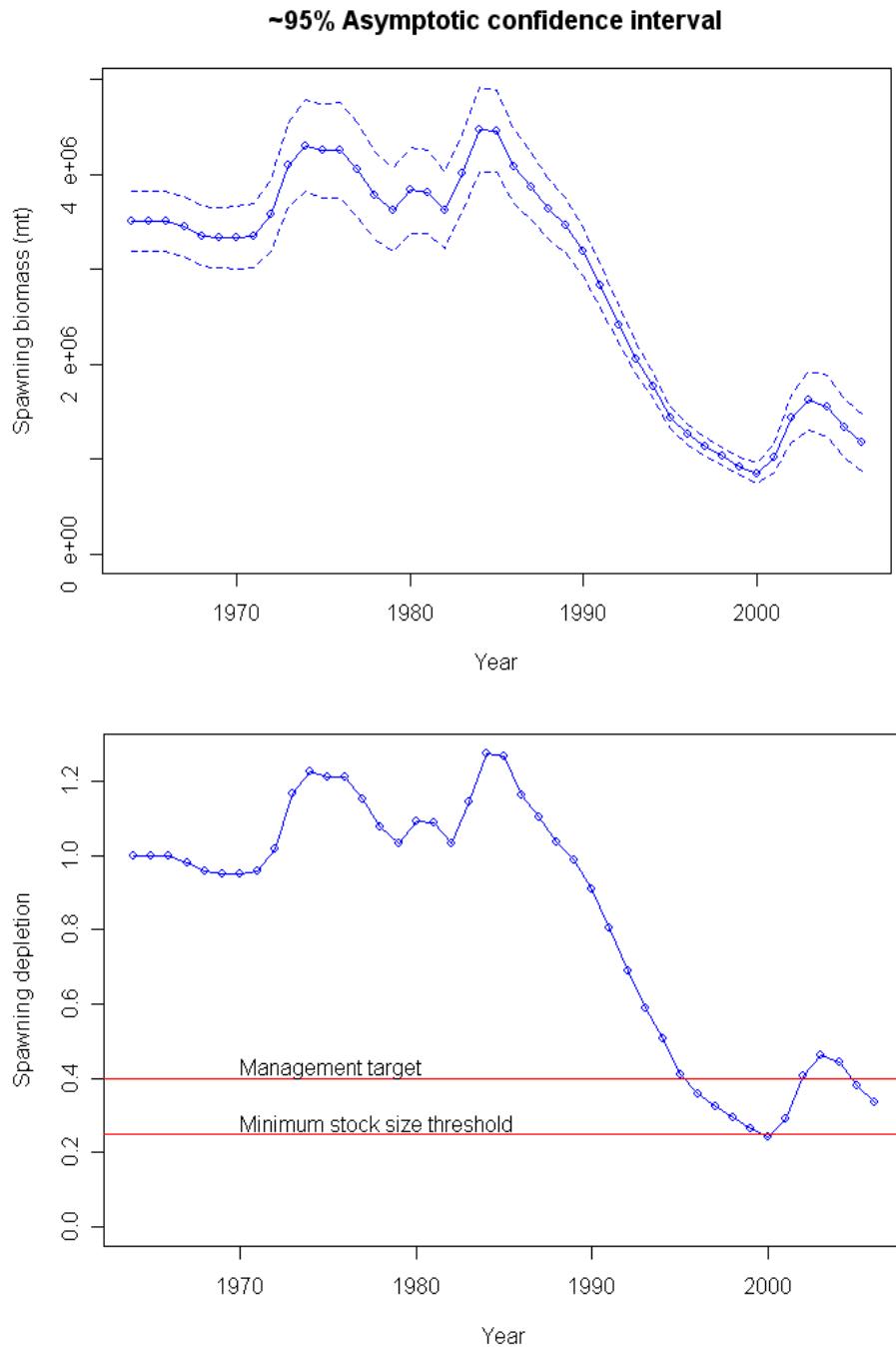


Figure 51. Estimated time series of Pacific hake spawning biomass and spawning depletion (fraction of unfished biomass) from the base SS2 model.

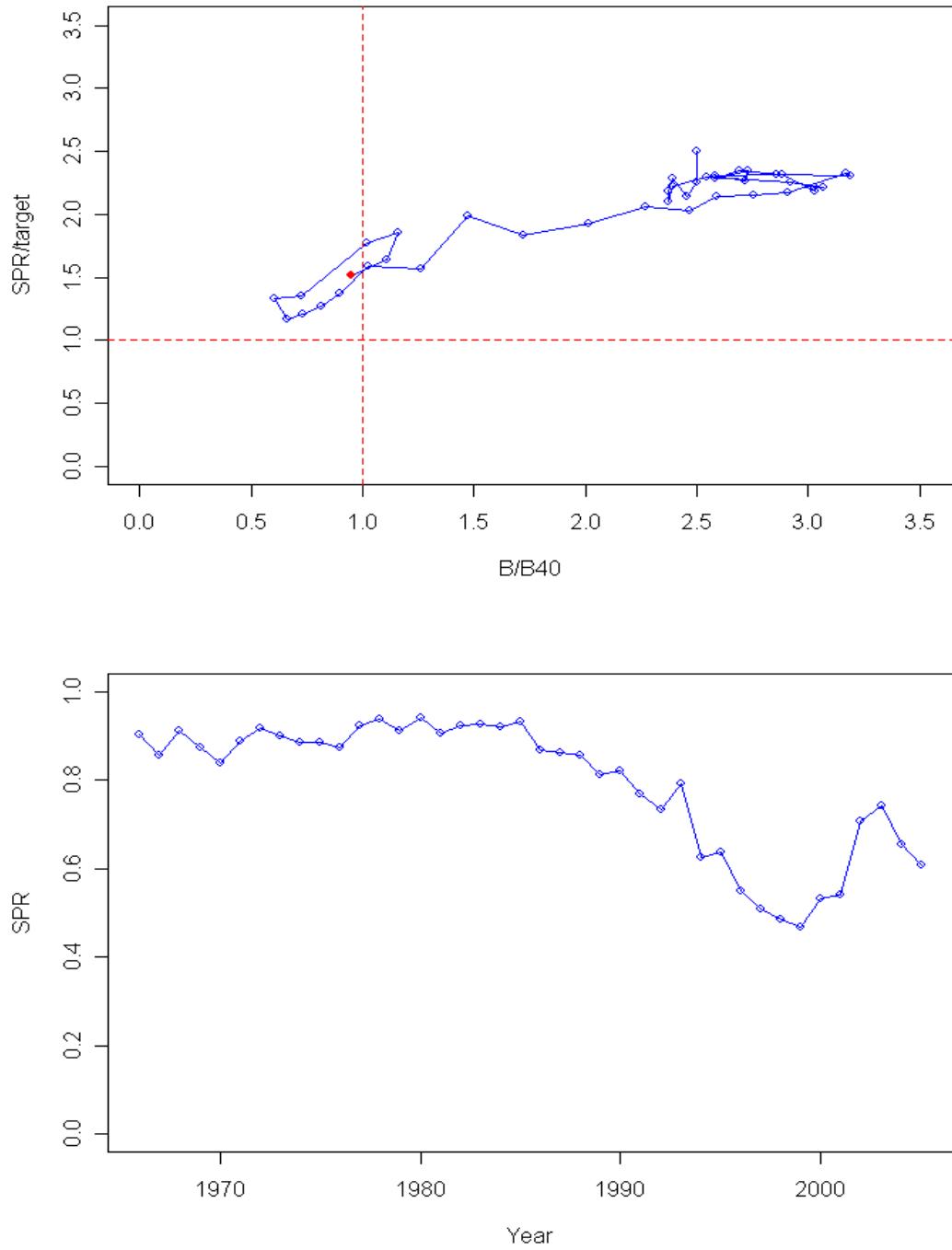


Figure 52. Estimated time series of Pacific hake spawning potential ratio (SPR) and fishery performance relative to reference point targets from the base SS2 model.

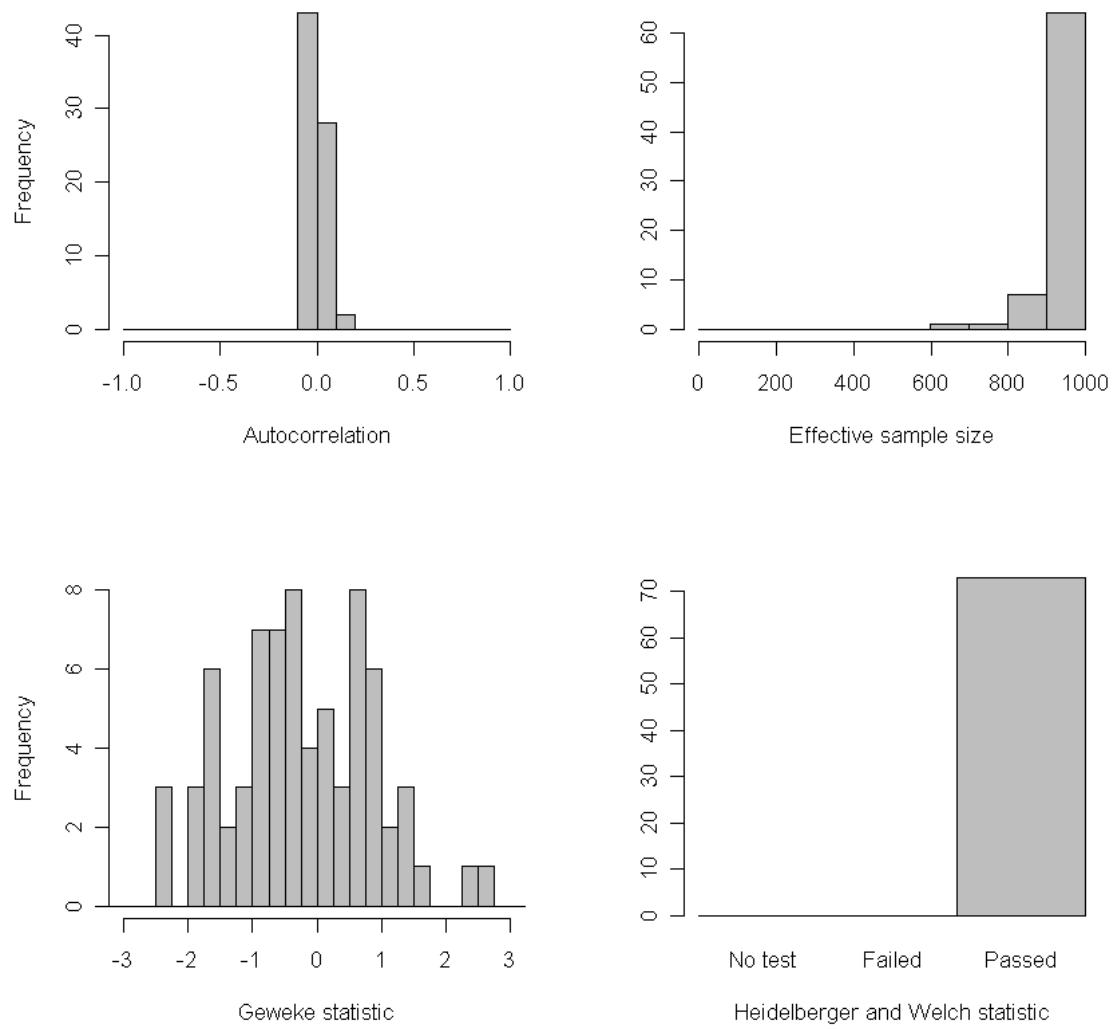


Figure 53. Summary of convergence criteria for all estimated model parameters.

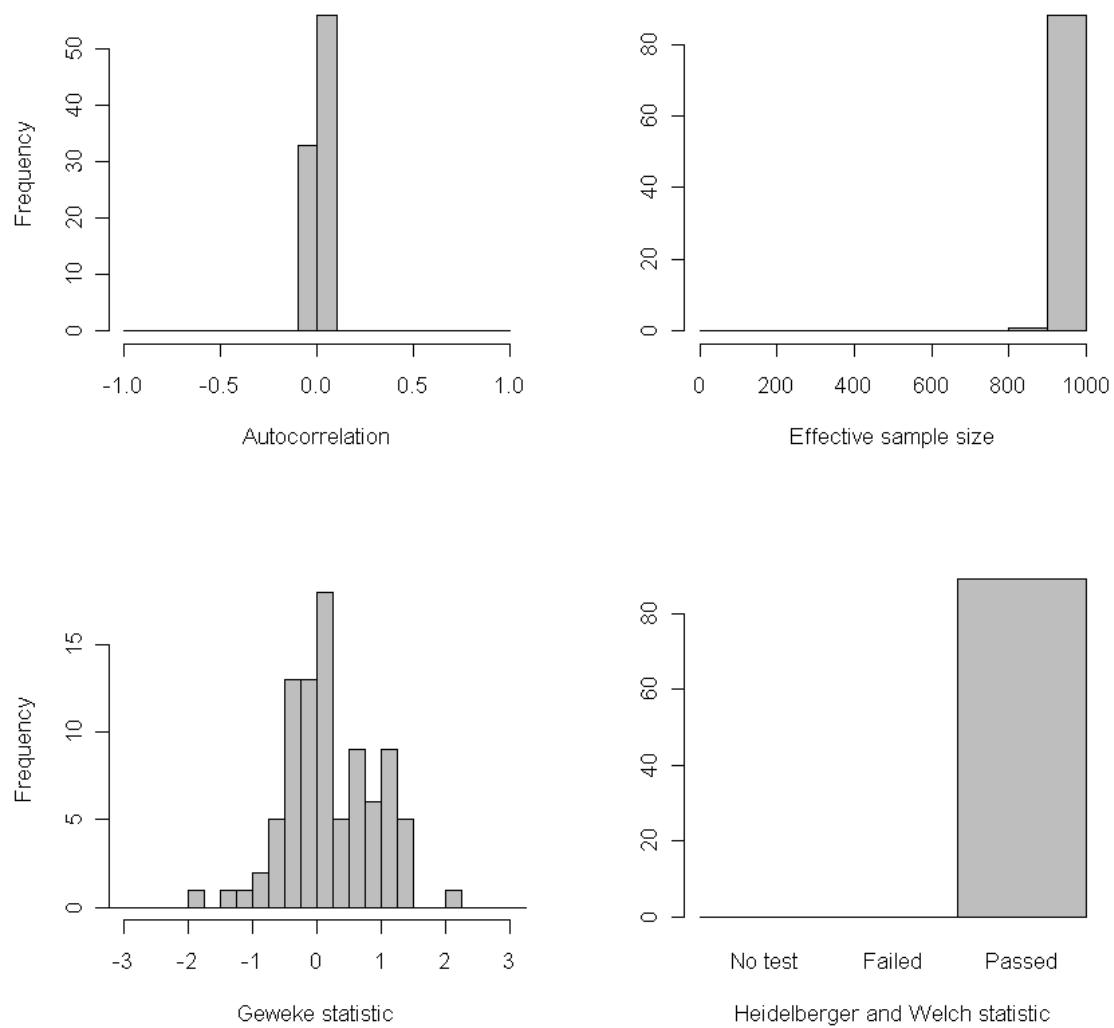


Figure 54. Summary of convergence criteria for the derived variables such as spawning biomass and recruitment time-series'.

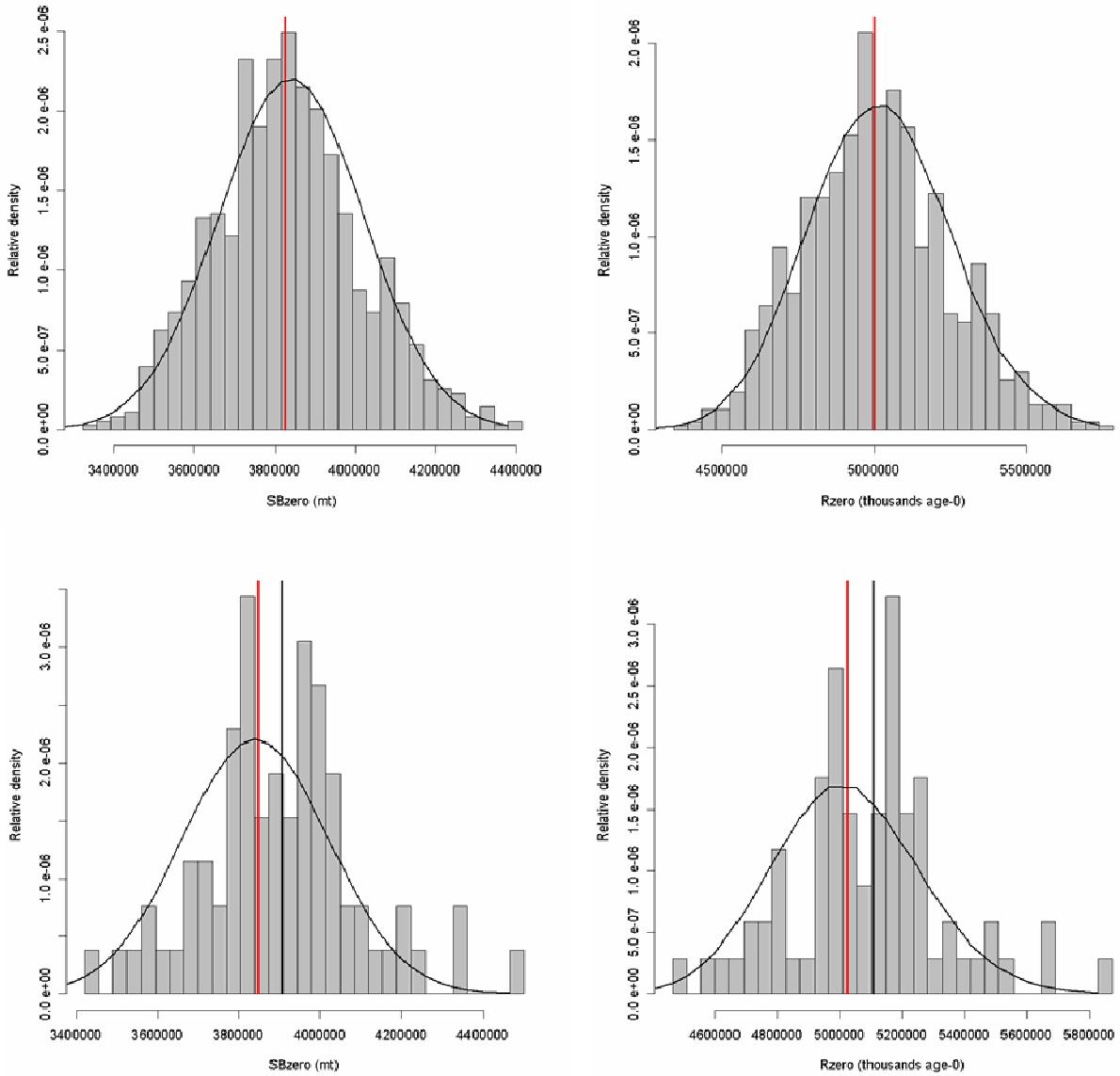


Figure 55. Top) Comparison of the posterior distributions of unfished biomass (Bzero, left column) and recruitment (Rzero, right column) from MCMC integration (bars, median shown as vertical line) to asymptotic variance estimates from maximum likelihood estimates of the Hessian (solid line). Bottom) Comparison of distribution of unfished biomass (SBzero) and recruitment (Rzero) from model fit to 75 parametric bootstraps of the data (red line is the “true value”; black line is the median) to asymptotic variance estimates from maximum likelihood estimates of the Hessian (solid line).

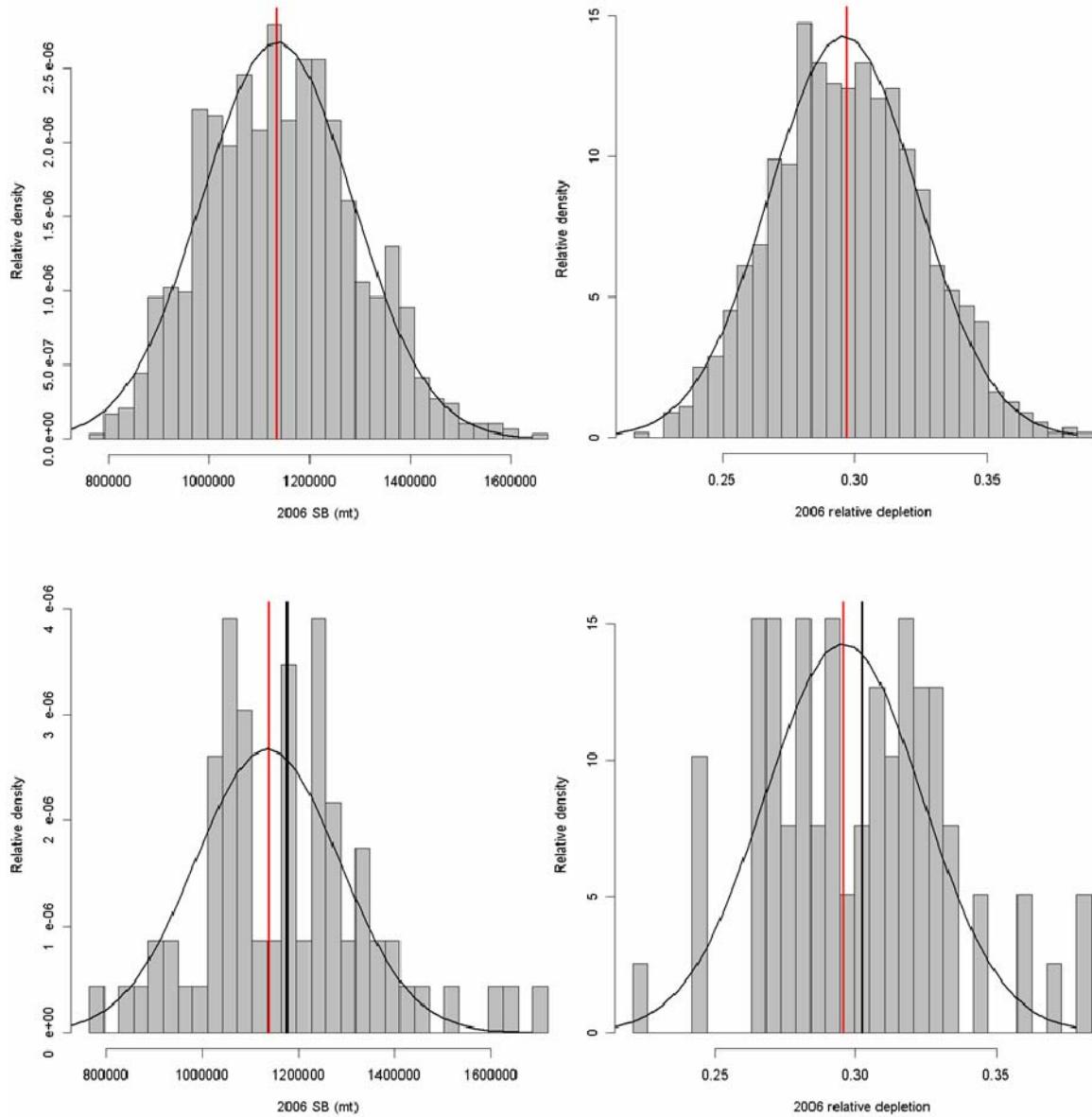


Figure 56. Top) Comparison of the posterior distributions of 2006 spawning biomass (2006 SB, left column) and 2006 relative depletion (right column) from MCMC integration (bars, median shown as vertical line) to asymptotic variance estimates from maximum likelihood estimates of the Hessian (solid line). Bottom) Comparison of distribution of 2006 spawning biomass and 2006 relative depletion from model fit to 75 parametric bootstraps of the data (red line is the “true value”; black line is the median) to asymptotic variance estimates from maximum likelihood estimates of the Hessian (solid line).

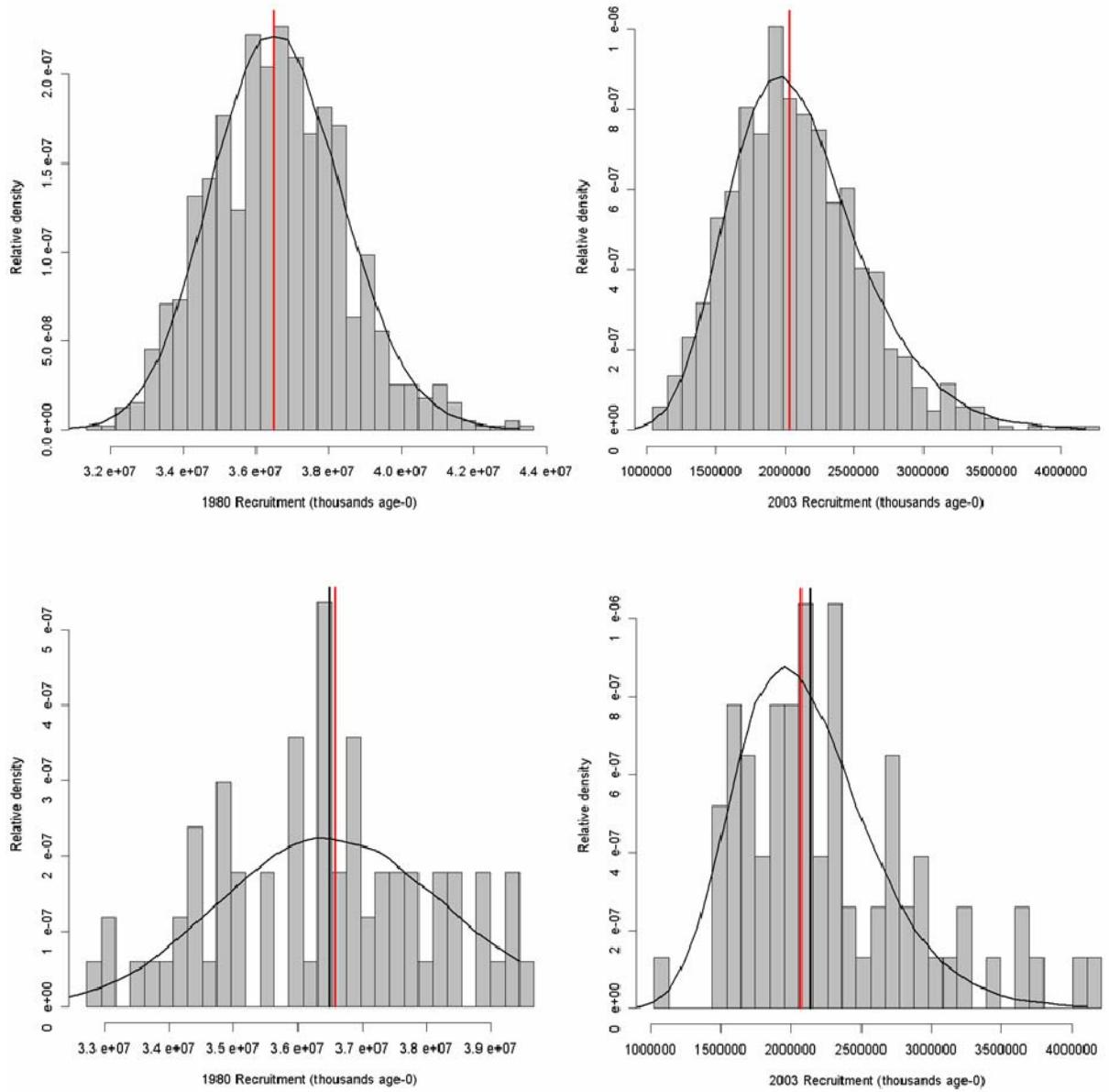


Figure 57. Top) Comparison of the posterior distributions of 1980 age-0 recruitment (left column) and 2003 age-0 recruitment (right column) from MCMC integration (bars, median shown as vertical line) to asymptotic variance estimates from maximum likelihood estimates of the Hessian (solid line). Bottom) Comparison of distribution of 1980 age-0 recruitment (left column) and 2003 age-0 recruitment (right column) from model fit to 75 parametric bootstraps of the data (red line is the “true value”; black line is the median) to asymptotic variance estimates from maximum likelihood estimates of the Hessian (solid line).

Appendix A: Growth Analysis

Pacific Hake Growth

There is a considerable amount of variability in the length-at-age data collected during the acoustic surveys since 1977. There are a number of ways to interpret this variability including: effects from size-selective fishing, changes in size selectivity over time, and variation in growth rates over time. Here we explore alternative explanations in hake growth by fitting alternative growth models to the length-at-age data collected in the acoustic surveys (assuming size-selectivity in the acoustic surveys has been constant over time).

The first of these models is a simple time-varying growth model, where the growth coefficient (k) is allowed to vary over time. This assumes that all extant cohorts are subject to time varying changes in the metabolic rates (presumably associated with changes in available food). This is the version of the growth model that is presently implemented in Stock Synthesis 2 (SS2). The second growth model assumes that growth is density-dependent. That is, the density of each cohort determines the overall growth rate and each cohort has its own asymptotic length. The third model is similar to the second model; however, in this case we assume the growth coefficient (k) is cohort specific.

Growth Model

We assume that hake growth follows the von Bertalanffy growth equation, which is given by:

$$(1) \quad L_a = L_1 + (L_2 - L_1) \left[\frac{1 - \rho^{a-2}}{1 - \rho^{A-2}} \right]$$

where L_a is the mean length at age a (a is an index for age and A corresponds to age 15), L_1 and L_2 are the mean lengths of age 2 and age 15, respectively, and ρ is the Brody growth coefficient ($\rho = \exp(-k)$, where k is the standard von Bertalanffy growth coefficient). Mean variation in length-at-age is assumed not to vary over time and the estimates of standard deviation in length-at-age is assumed to be a function of 2 unknown parameters and the growth coefficient (k) only:

$$(2) \quad S_a = \lambda_1 \exp \left[\lambda_2 \left(-1 + 2 \frac{1 - \rho^{a-2}}{1 - \rho^{A-2}} \right) \right]$$

where λ_1 and λ_2 are unknown parameters to be estimated. Using equation 2 to describe variation in length-at-age is more desirable than estimating a fixed coefficient of variation in length-at-age as it is less confounded with the growth parameters (Fournier et al. 1991).

The following growth models assume that fish samples for size-age composition information were drawn from a multinomial distribution that includes the joint probability of sampling a fish of a given age and length. The negative log likelihood kernel for estimating growth parameters is given by:

$$(3) \quad L = - \sum_l \sum_a n_{l,a} \ln(p_{l,a})$$

where $n_{l,a}$ is the observed sample numbers of length l and age a fish and $p_{l,a}$ are the predicted proportions. The predicted proportions sampled is the product of size selectivity (v_l), then numbers at age and the probability of being in length interval l for a given age.

$$(4) \quad p_{l,a} = \frac{v_l N_a P(l|a)}{\sum_l \sum_a v_l N_a P(l|a)}$$

Variation in length at age was assumed to be normally distributed and we used the normal distribution to compute the probability of sampling a fish of a certain length l for a given age ($P(l|a)$). In the acoustic survey samples, we assume that size selectivity follows a simple logistic function where the length at 50% vulnerability is 35cm and the standard deviation in size selectivity is 2cm. It is possible to estimate the selectivity parameters simultaneously, but for comparative reasons we fixed these parameters at these arbitrary values. We used the conditional maximum likelihood estimate for the numbers-at-age (N_a) in the population (Taylor et al. 2005). To obtain the MLE for N_a we differentiate equation (3) with respect to N_a , set the derivative to 0 and solve for N_a , which is given by:

$$(5) \quad N'_a = \left(\frac{n_a}{n_T} \right) \left(\frac{V_T}{\bar{v}_a} \right),$$

where $\bar{v}_a \sum_l v_l P(l|a)$ is the sum vulnerabilities-at-length in each age class weighted by $P(l|a)$, n_a and n_T are the observed sample numbers at age a and total number sampled.

Substituting equation (5) into equations (4) and (3), and noting that the n_a/n_T do not change with respect to parameter values, the likelihood kernel for the conditional MLE estimates of N_a is given by:

$$(6) \quad L = - \sum_l \sum_a n_{l,a} \ln \left(\frac{v_l P(l|a)}{\bar{v}_a} \right)$$

The parameter vector to estimate for a single length-age matrix consists of the growth parameters for estimating the mean length-at-age (l_1, l_2, k) and the parameters that describe the variation in length at age (λ_1, λ_2).

Time varying k

In the case of adding time varying effects on the growth coefficient k , we estimated vector of growth coefficients k_t (one for each survey year and 15 parameters in total were estimated). In this case, the l_1 and l_2 parameters of the growth model were assumed to be time invariant and inter annual variation in mean length-at-age was assumed to arise through inter annual variability in metabolic rates (k_t).

Cohort effects

In the case of assuming cohort density determines the overall growth rate, we estimated a vector of $l_{2,g}$ parameters or a vector of growth coefficients k_g , where the g subscript denotes a specific cohort. In the acoustic survey data, spanning 1977 to 2005, there are

42 cohorts between the ages of 2 and 15 (a total of 46 parameters were estimated). Not all cohorts are sampled with the same frequency during each survey year. For example, in 1977, the 1963-1965 cohorts (representing the age 13-15 age classes in 1977) are only represented once in the length-age data. Similarly, the age 2 and 3 year classes sampled in 2005 are only represented once in the data. We used a weak informative normal prior on the cohort specific parameters in the form of:

$$(7) \quad P(\theta_g) = \ln(\sigma) + \frac{\sum (\theta_g - \bar{\theta})^2}{2\sigma^2}$$

where θ_g represents the cohort specific parameter being estimated. In the case of estimating $l_{2,g}$ parameters, the standard deviation for the prior distribution was set to 25cm, and in the case of estimating k_g parameters the standard deviation for the prior distribution was set to 0.25. The effect of this prior is minimal for cohorts that are represented more than once in the data.

Results

The motivation for using the cohort based model is apparent in the observed length-age data (Figure 1) whereby some of the cohorts appear to grow at different rates than other cohorts sampled in the same year. For example, the age-5 and age-6 cohorts sampled in 1980 appear to have the same mean length indicating that the age-5 cohort is growing faster than the age-6 cohort. Similarly, the age-4 cohort appears to be growing faster than the age-5 cohort in 2001. Of the 3 alternative growth models, the model with cohort specific l_2 values explains more of the variation in the length-age data versus the time varying k model and cohort k model (Table 1).

Table 1. Parameter estimates and corresponding fits and AICs for the 3 alternative growth models. For the time varying k model the mean estimate of k is presented and for the cohort models the mean estimate of l2 and k are presented.

Growth Model	ln(L)	n	AIC	L1	L2	k	λ_1	λ_2
Time Varying k	32701.2	15	65372.4	31.99	55.42	0.25	3.93	0.34
Cohort l2	32572.5	46	65053.0	31.48	55.80	0.29	3.88	0.24
Cohort k	32738.1	46	65384.2	31.77	55.57	0.30	3.98	0.30

Comments on Growth Analysis

Note that these cohort based models do not assume the cumulative affects of size selective fisheries. To properly represent the cumulative affects of size selective fisheries in this approach, the cohort based growth model should be integrated into the assessment model itself. In this case it would not be necessary to use the conditional MLE for the numbers-at-age; this information could be provided from the stock assessment model itself.

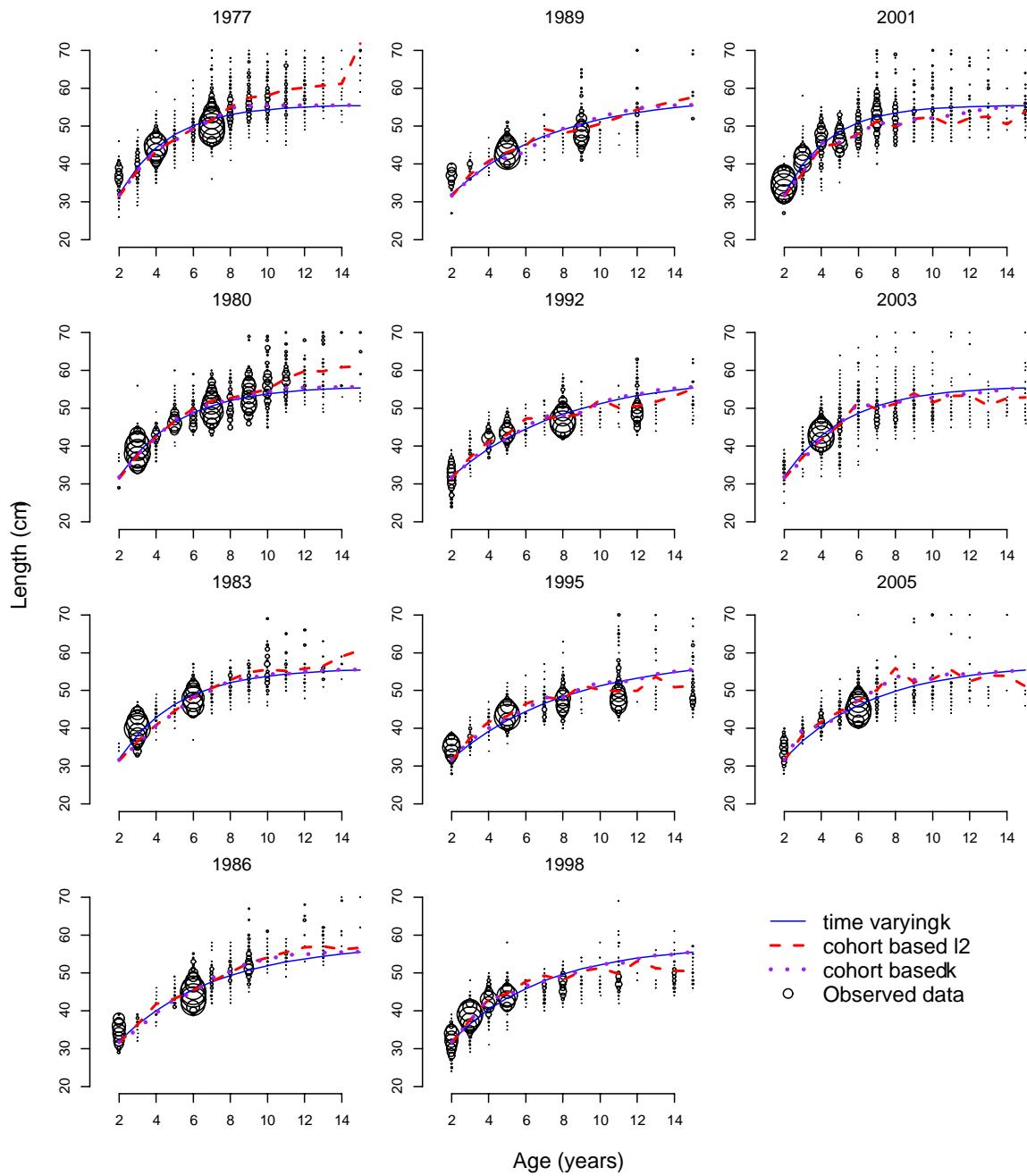


Figure 1. Length-at-age data collected from the acoustic surveys where the diameter of the circle is proportional to the sample size collected. Three separate growth models were fit to the data using a multinomial likelihood criterion. In the first model it was assumed that the growth coefficient (k) varies over time (time varying k), the second model assumes that the asymptotic length of each cohort varies (cohort based I_2) and the third model assumes that the growth coefficient for each cohort varies over time (cohort based k).

It is probably not necessary to estimate growth parameters for each cohort in the model, rather to use a functional relationship that relates the effect of cohort density on the mean

asymptotic size attained by each cohort. Based on the acoustic survey data alone and an arbitrary selectivity curve for the acoustic survey, there is a weak relationship between the 3+ biomass and the asymptotic length (Figure 2). We also examined the relationship between age-2 recruits and l_2 , but found no significant relationship. Integrating the cohort based growth model into the assessment model would allow for additional data sources from the commercial length-age sampling to provide more information about growth parameters for more of the cohorts; however, we suspect that this would create additional confounding with time varying selectivity parameters already in use in the assessment model. Alternatively, an explicit density-dependent growth model could easily be integrated into the assessment frame work, where the l_2 parameter varies

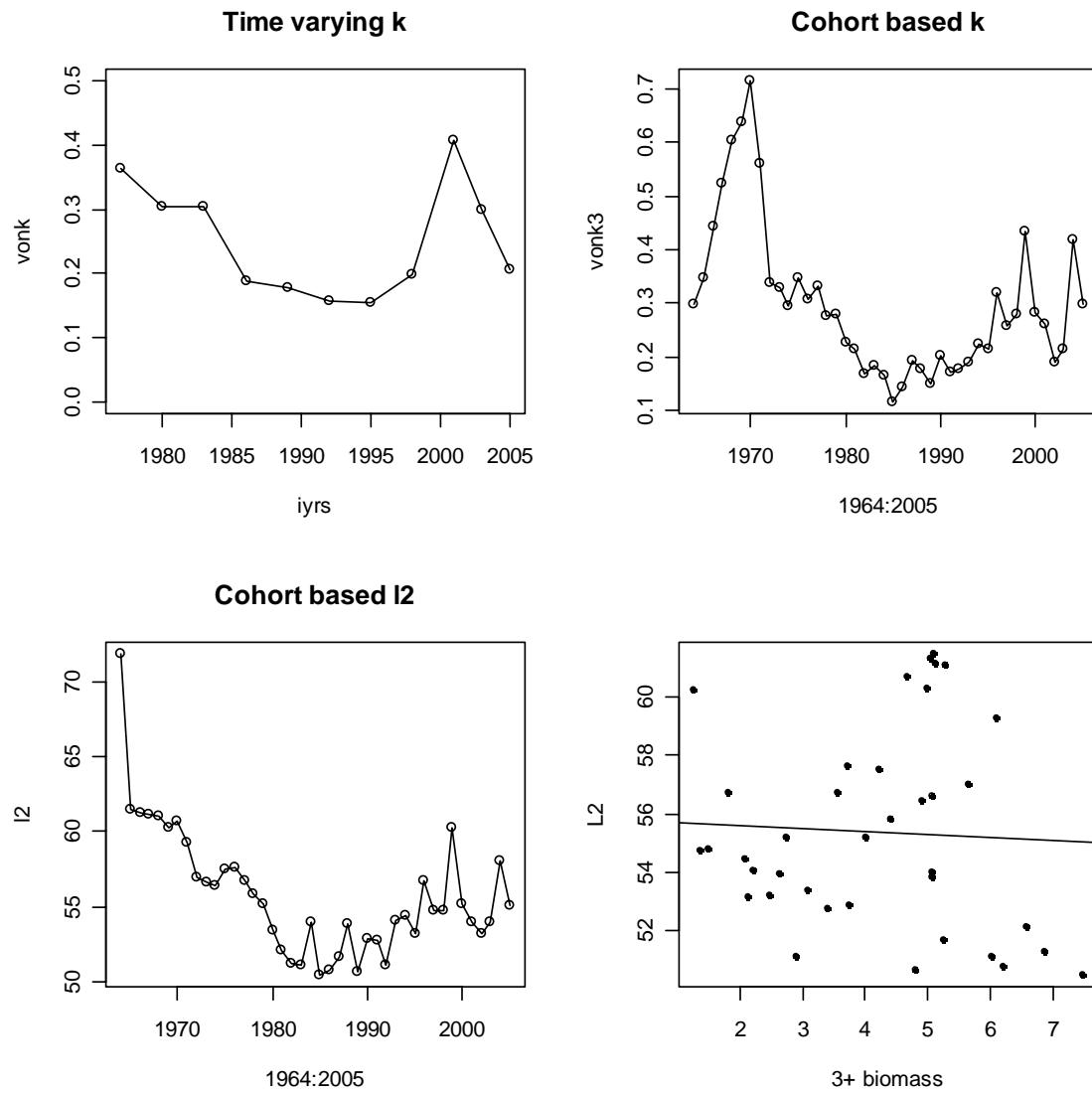


Figure 2. Estimates of time varying k and cohort based k and l_2 parameters obtained from fitting the growth models to acoustic survey length-age data. Also, the relationship between estimates of l_2 and 3+ biomass from the 2004 assessment is shown in the lower right panel.

according to stock density. Based on historical observations of changes in mean weight at age over time, incorporating the effects of overall stock density into growth may be the most parsimonious explanation of changes in hake growth.

Fournier, D., J. Sibert, and M. Terceiro. 1991. Analysis of Length Frequency Samples with Relative Abundance Data for the Gulf of Maine Northern Shrimp (*Pandalus borealis*) by MULTIFAN Method. *Can. J. Fish. Aquat. Sci.* **48**:591-598.

Taylor, N. G., C. J. Walters, and S. J. D. Martell. 2005. A new likelihood for simultaneously estimating von Bertalanffy growth parameters, gear selectivity, and natural and fishing mortality. *Can. J. Fish. Aquat. Sci.* **62**:215-223.

APPENDIX B: SS2 Control and Data files

```

# hake ss2 version 1.ctl
# datafile:_hake ss2.dat
1 #_N_growthmorphs

#_assign_sex_to      each_morph_(1=female;_2=male)
1

1 #_N_Areas_(populations)

#_each_fleet/survey_operates_in_just_one_area
#_but_different_fleets/surveys_can be assigned_to_share_same_selex
1 1      1           #area_for_each_fleet/survey

0 #do_migration_(0/1)

6 #_N_Block_Designs
4
1
1
3
3
2
# Lmin
1982      1987
1988      1999
2000      2002
2003      2005
#K blocks
1980      1986
#1988      1993
#1994      1997
#1998      1999
#2000      2002
#2003      2005
# Lmax blocks
1984      2005
#1994      1997
#1998      2002
#2003      2005
# US Fish sel blocks
1984      1992
1993      2000
2001      2005
# Can sel blocks
1995      2000
2001      2002
2003      2005
# US inf1 blocks
1984      2000
2001      2005

#Natural_mortality_and_growth_parameters_for_each_morph
4 #_Last_age_for_natmort_young
15#_First_age_for_natmort_old
2 #_age_for_growth_Lmin
12#_age_for_growth_Lmax
-3 #_MGparm_dev_phase
#LO      HI      INIT      PRIOR      PR_type      SD      PHASE      env-variable      use_dev      dev_minyr      dev_maxyr      dev_stddev
0.05    0.6     0.23     0.23      0          0.8      -3         0          0          0          0          0.5        0          0
      #M1_natM_young
-3 3     0       0       0       0.8      -3         0         0         0         0         0.5        0          0
      #M1_natM_old_as_exponential_offset(rel_young)
1040   33     33     0       99       3         0         0         0         0         0.5        0          0
      #M1_Lmin
3070   50     50     0       99       3         0         0         0         0         0.5        3          2
      #M1_Lmax
0.1     0.7     0.30    0.40      0          99       3         0         0         0         0.5        2          2
      #M1_VBK
0.01   0.35    0.10    0.10      0          99       4         0         0         0         0.5        0          0
      #M1_CV-young

```

```

-3 3      0.32    0      0      0.8     -4      0      0      0      0      0.5     0      0      0      #M1_CV-
old_as_exponential_offset(rel_young)
#-3      3        0      0      0      0.8     -3      0      0      0      0      0.5     0      0      0
  #M2_natM_young_as_exponential_offset(rel_morph_1)
#-3      3        0      0      0      0.8     -3      0      0      0      0      0.5     0      0      0
  #M2_natM_old_as_exponential_offset(rel_young)
#-3      3        0      0      0      0.8     -3      0      0      0      0      0.5     0      0      0
  #M2_Lmin_as_exponential_offset
#-3      3        0      0      0      0.8     -2      0      0      0      0      0.5     0      0      0
  #M2_Lmax_as_exponential_offset
#-3      3        0      0      0      0.8     -3      0      0      0      0      0.5     0      0      0
  #M2_VBK_as_exponential_offset
#-3      3        0      0.0    0      0.8     -3      0      0      0      0      0.5     0      0      0
  #M2_CV-young_as_exponential_offset(rel_CV-young_for_morph_1)
#-3      3        0      0.0    0      0.8     -3      0      0      0      0      0.5     0      0      0
  #M2_CV-old_as_exponential_offset(rel_CV-young)
# Add 2+2*gender lines to read the wt-Len and mat-Len parameters
-3 3      7.0E-06  7.0E-06  0      0.8     -3      0      0      0      0      0.5     0      0      0      #Female
wt-len-1
-3 3      2.9624   2.9624   0      0.8     -3      0      0      0      0      0.5     0      0      0      #Female
wt-len-2
-3 3      36.89    36.89    0      0.8     -3      0      0      0      0      0.5     0      0      0      #Female
mat-len-1
-3 3      -0.48    -0.48    0      0.8     -3      0      0      0      0      0.5     0      0      0      #Female
mat-len-2
-3 3      1.0      1.0      0      0.8     -3      0      0      0      0      0.5     0      0      0      #Female
eggs/gm intercept
-3 3      0.0      0.0      0      0.8     -3      0      0      0      0      0.5     0      0      0      #Female
eggs/gm slope
#-3      3        0      0      0      0.8     -3      0      0      0      0      0.5     0      0      0
  #Male wt-len-1

# pop*gmorph lines For the proportion of each morph in each area
0 1      1        1        0      0.8     -3      0      0      0      0      0.5     0      0      0      #frac to
morph 6 in area 1

# pop lines For the proportion assigned to each area
0 1      1        1        0      0.8     -3      0      0      0      0      0.5     0      0      0      #frac to
area 1

# Enter maturity at age (multiplied by 0.5 for female mature biomass)
#00      0.088    0.3305   0.445    0.4845   0.493    0.498    0.5      0.5      0.5      0.5      0.5      0.5      0.5
  0.5

#_custom-env_read
0 #_      0=read_one_setup_and_apply_to_all_env_fxns; l=read_a_setup_line_for_each_MGparm_with_Env-var>0

#_custom-block_read
1 #_      0=read_one_setup_and_apply_to_all_MG-blocks;      1=read_a_setup_line_for_each_block x MGparm_with_block>0
#LMIN
#10      40      30      33      0      99      3
#10      40      30      33      0      99      3
#10      40      30      33      0      99      3
#10      40      30      33      0      99      3
# Lmax
3070    50      50      0       99      3
#30      70      50      50      0       99      3
#30      70      50      50      0       99      3
# K
0.1      0.7     0.30     0.40     0       99      3
#0.1     0.7     0.30     0.40     0       99      3
#0.1     0.7     0.32     0.40     0       99      3
#0.1     0.7     0.35     0.40     0       99      3
#0.1     0.7     0.30     0.40     0       99      3
#0.1     0.7     0.30     0.40     0       99      3

# LO      HI      INIT     PRIOR   Pr_type   SD      PHASE

#_Spawner-Recruitment_parameters

```

```

1 # SR_fxn: 1=Beverton-Holt
#LO HI INIT PRIOR Pr_type SD PHASE
1131 14.2 15 0 99 2 #Ln(R0)
0.2 1 0.75 1 2 0.2 -4 #steepness
0 2 1.139 1.2 0 0.8 -3 #SD_recruitments
-5 5 0 0 0 1 -3 #Env_link
-5 5 0 0 0 1 -4 #init_eq
0 #env-var_for_link
# recruitment_residuals
# start_rec_year end_rec_year Lower_limit Upper_limit phase
1967 2003 -15 15 2

#init_F_setupforeachfleet
#LO HI INIT PRIOR PR_type SD PHASE
0 1 0.0 0.01 0 99 -1
0 1 0.0 0.01 0 99 -1

#_Qsetup
#_add_parm_row_for_each_positive_entry_below(row_then_column)
#-Float(0/1) #Do-power(0/1) #Do-env(0/1) #Do-dev(0/1) #env-Var #Num/Bio(0/1) for each fleet and
survey
0 0 0 0 1
0 0 0 0 1
1 0 0 0 1
1 0 0 0 0

#LO HI INIT PRIOR PR_type SD PHASE
-5 .5 0 0 99 -1 # Acoustic survey
-15 10 7 4 0 99 1 # recruit survey

#_SELEX_&_RETENTION_PARAMETERS
#Pattern Retention(0/1) Male(0/1) Special
# Size_selex
0 0 0 #_fleet_1
0 0 0 #_fleet_2
0 0 0 #_acoustic
0 0 0 #_recruit

#_Age_selex
#13 0 0 0 #_fleet_1
#13 0 0 0 #_fleet_2
#13 0 0 0 #_acoustic

190 0 0 #_fleet_1
190 0 0 #_fleet_2
190 0 0 #_acoustic
110 0 0 #_recruit

#LO HI INIT PRIOR PR_type SD PHASE env-variable use_dev dev_minyr dev_maxyr dev_stddev
Block_Pattern

#2 60 45 10 0 99 -4 0 0 0 0 0 0.5 0 0 #peak
#0.0000 0.1 0.0 0 0 99 -2 0 0 0 0 0 0.5 0 0 #init
#-5 5 0.0 0.3 0 99 2 0 1 1975 2004 0.1 0 0 0 #infl
#0.0000 10 0.3 0.3 0 99 2 0 1 1975 2004 0.1 0 0 0 #slope1
#-10 100 -4 -4 0 99 -2 0 0 0 0 0 0.5 0 0 #final
#-5 5 0.0 0.5 0 99 2 0 1 1975 2004 0.1 0 0 0 #infl2
#0.0001 10 0.3 .3 0 99 2 0 1 1975 2004 0.1 0 0 0 #slope2
#0. 25 1 0.2 0 99 -2 0 0 0 0 0.5 0 0 0 #width of top

#2 60 50 8 0 99 -3 0 0 0 0 0 0.5 0 0 #peak
#0.0000 0.1 0.0 0 0 99 -2 0 0 0 0 0 0.5 0 0 #init
#-5 5 0.0 1.7 0 99 2 0 1 1988 2004 0.1 0 0 0 #infl
#0.0001 10 0.3 1.0 0 99 2 0 1 1988 2004 0.1 0 0 0 #slope1
#-10 10 -2 -2 0 99 2 0 0 0 0 0 0.5 0 0 #final
#-5 5 0.0 0.1 0 99 2 0 0 0 0 0 0.5 0 0 #infl2
#0.0001 10 0.3 0.1 0 99 2 0 0 0 0 0 0.5 0 0 #slope2
#0. 25 2 2 0 99 -4 0 0 0 0 0.5 0 0 0 #width of top

1 20 3.2 3 0 99 5 0 0 1975 2004 0.005 4 2 #inf_1

```

0.00001	10	2.5	2.5	0	99	5	0	0	1975	2004	0.005	4	2	#slp_1
1 40	11.8	12	0	99	5	0	0	1975	2004	0.005	4	2	#inf_2	
0.00001	10	1.0	1.0	0	99	5	0	0	1975	2004	0.005	4	2	#slp_2
2 2	1	2	0	99	-2	0	0	0	0	0.5	0	0	#min_age	
2 2	0	2	0	99	-2	0	0	0	0	0.5	0	0	#	
1 20	4.0	3	0	99	5	0	0	1988	2004	0.05	5	2	#inf_1	
0.00001	10	1.5	0.9	0	99	5	0	0	1988	2004	0.05	5	2	#slp_1
1 40	13.8	7	0	99	5	0	0	0	0	0.5	0	0	#inf_2	
0.00001	10	1.0	0.5	0	99	5	0	0	0	0.5	0	0	#slp_2	
2 2	2	2	0	99	-2	0	0	0	0	0.5	0	0	#min_age	
2 2	0	2	0	99	-2	0	0	0	0	0.5	0	0	#	
1 20	3.3	3	0	99	5	0	0	0	0	0.5	0	0	#inf_1	
0.00001	10	0.775	0.9	0	99	5	0	0	0	0.5	0	0	#slp_1	
1 40	7.84	7	0	99	5	0	0	0	0	0.5	0	0	#inf_2	
0.00001	10	0.507	0.5	0	99	5	0	0	0	0.5	0	0	#slp_2	
2 2	2	2	0	99	-2	0	0	0	0	0.5	0	0	#min_age	
2 2	0	2	0	99	-2	0	0	0	0	0.5	0	0	#	
0 40	0	0	0	99	-1	0	0	0	0	0.5	0	0	#min_age	
0 40	0	0	0	99	-1	0	0	0	0	0.5	0	0	#min_age	

#_custom-env_read
0 #_=0=read_one_setup_and_apply_to_all;_1=Custom_so_read_1_each;

#_custom-block_read
1 #_=0=read_one_setup_and_apply_to_all;_1=Custom_so_see_detailed_instructions_for_N_rows_in_Custom_setup

US inf1 blocks

1 20	3.2	3	0	99	5
1 20	3.2	3	0	99	5
1 20	3.2	3	0	99	5

US slp1 blocks

0.00001	10	2.5	0.9	0	99	5
0.00001	10	2.5	0.9	0	99	5
0.00001	10	2.5	0.9	0	99	5

US inf2 blocks

1 40	11.8	7	0	99	5
1 40	11.8	7	0	99	5
1 40	11.8	7	0	99	5

US slp2 blocks

0.00001	10	1.0	0.5	0	99	5
0.00001	10	1.0	0.5	0	99	5
0.00001	10	1.0	0.5	0	99	5

Can inf1 blocks

1 20	5.5	3	0	99	5
1 20	5.5	3	0	99	5
1 20	5.5	3	0	99	5

Can slp1 blocks

0.00001	10	1.5	0.9	0	99	5
0.00001	10	1.5	0.9	0	99	5
0.00001	10	1.5	0.9	0	99	5

LO HI INIT PRIOR PR_type SD PHASE
-6 #_phase_for_selex_parm_devs

0 0 0 0
0 0 0 0
0 0 0 0
.3 1 1 1
.5 1 1 1
1 1 1 1

1 #_max_lambda_phases:_read_this_Number_of_values_for_each_componentxtypelow

```
1 #_include (1) or not (0) the constant offset For Log(s) in the Log(like) calculation
#_survey_lambdas
0 0          1          1
#_discard_lambdas
0 0          0          0
#_meanbodywt
0
#_lenfreq_lambdas
1 1          1          0
#_age_freq_lambdas
1 1          1          0
#_size@age_lambdas
0 0          0          0
#_initial_equil_catch
1
#_recruitment_lambda
1
#_parm_prior_lambda
1
#_parm_dev_timeseries_lambda
1
# crashpen lambda
100
#max F
0.9

999      #_end-of-file
```

```

1966 #_styr
2005 #_endyr
1 #_nseas
12 #_months/season
1 #_spawn_seas
2 #_Nfleet
2 #_Nsurv
fishery1%fishery2%survey1%survey2
0.5 0.5 0.5 0.0001      #_surveytiming_in_season
1 #_Ngenders
15 #_Nages
0 0 #_init_equil_catch_for_each_fishery
#_catch_biomass(mtons):_columns_are_fisheries,_rows_are_year*season
137000    700    #    1966
177662    36713   #    1967
60819     61361   #    1968
86280     93851   #    1969
159575    75009   #    1970
127913    26699   #    1971
74133     43413   #    1972
147513    15126   #    1973
194109    17150   #    1974
205656    15704   #    1975
231549    5972    #    1976
127502    5191    #    1977
98372     5267    #    1978
124680    12435   #    1979
72352     17584   #    1980
114760    24361   #    1981
75577     32157   #    1982
73150     40774   #    1983
96332     42109   #    1984
85439     24962   #    1985
154964    55653   #    1986
160448    73699   #    1987
160698    88106   #    1988
210996    94920   #    1989
183800    75992   #    1990
217505    89753   #    1991
208576    88334   #    1992
141222    58213   #    1993
252729    108800  #    1994
177589    72181   #    1995
212901    93174   #    1996
233423    91792   #    1997
232817    87802   #    1998
224522    87333   #    1999
208418    22402   #    2000
182377    53585   #    2001
132115    50796   #    2002
143492    62090   #    2003
210487    124185  #    2004
249109    100462  #    2005

30 #_N_cpue_and_surveyabundance_observations
#_year seas index obs se(log)
1977 1 3 1915000 0.5
1980 1 3 2115000 0.5
1983 1 3 1647000 0.5
1989 1 3 1238000 0.5
1992 1 3 2169000 0.25
1995 1 3 1385000 0.25
1998 1 3 1185000 0.25
2001 1 3 737000 0.25
2003 1 3 1840000 0.25
#2005 1 3 1073563 0.25
2005 1     3 1265000 0.25
1986 1     4 22.90  1.1
1987 1     4 522.17 1.1
1988 1     4 137.14 1.1

```

1989	1	4	7.45	1.1										
1990	1	4	34.92	1.1										
1991	1	4	43.34	1.1										
1992	1	4	12.27	1.1										
1993	1	4	1150.56	1.1										
1994	1	4	32.14	1.1										
1995	1	4	6.96	1.1										
1996	1	4	98.89	1.1										
1997	1	4	20.78	1.1										
1998	1	4	4.74	1.1										
1999	1	4	98.40	1.1										
2000	1	4	13.25	1.1										
2001	1	4	30.42	1.1										
2002	1	4	8.08	1.1										
2003	1	4	1.66	1.1										
2004	1	4	94.31	1.1										
2005	1	4	1.31	1.1										
2 #_discard_type														
0 #_N_discard_obs														
0 #_N_meanbodywt_obs														
-1 #_comp_tail_compression														
0.0001 #_add_to_comp														
51 #_N_LengthBins														
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70														
59 #_N_Length_obs														
#Yr Seas Flt/Svy Gender Part Nsamp datavector(female-male)														
1975	1	1	0	0	13	0.0000	0.0000	0.0000	0.1310	0.4138	0.4138	0.6101	0.6101	
0.3291	0.7411	1.5447	0.9566	4.6455	4.0107	4.1898	5.3717	3.0869	2.8926	2.0167	1.0373	4.3164	4.0849	
7.0859	7.4219	7.1653	7.1658	4.9095	4.0224	5.0698	2.3889	3.2625	1.2916	3.4063	0.0000	1.1843	1.0342	
0.3465	0.4138	0.8734	0.9032	0.3465	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1310	0.1742	
0.0000														
1976	1	1	0	0	249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
0.0056	0.0033	0.0383	0.0461	0.0619	0.0983	0.2605	0.2710	0.4635	0.5851	0.9688	1.7104	2.6494	3.7108	
5.1325	5.6852	6.3574	6.5997	6.6614	6.7014	6.7809	6.7467	6.3412	6.0203	5.7434	5.0318	4.0850	2.9869	
2.1415	1.3175	1.1743	0.7971	0.5916	0.4178	0.3714	0.2021	0.3217	0.1198	0.0626	0.1229	0.0766	0.0428	
0.4921														
1977	1	1	0	0	1071	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0018	0.0134	0.0376	0.0706	0.1661	0.4152	0.6903	1.1624	1.8450	2.7529	
4.3062	5.5899	5.8003	7.0414	7.6587	8.0144	8.2014	8.0120	7.8118	7.2003	6.2315	4.7967	3.7873	2.7235	
1.7045	1.2366	0.8199	0.5163	0.3222	0.2985	0.1799	0.1885	0.1195	0.0886	0.0573	0.0324	0.0296	0.0462	
0.0296														
1978	1	1	0	0	1135	0.0000	0.0137	0.0335	0.0204	0.0187	0.0129	0.0269	0.0195	
0.0268	0.0177	0.0119	0.0196	0.0000	0.0052	0.0068	0.0000	0.0232	0.0374	0.1341	0.4019	1.1005	1.8736	
3.2463	4.8921	6.2182	7.2486	8.1810	8.5122	8.8032	8.7842	8.3771	7.6130	6.8721	5.5053	3.9908	2.9505	
1.7999	1.1040	0.6053	0.4234	0.2603	0.2115	0.1333	0.0826	0.1005	0.0837	0.0252	0.0539	0.0204	0.0118	
0.0858														
1979	1	1	0	0	1539	0.0037	0.0097	0.0000	0.0000	0.0045	0.0116	0.0377	0.1272	
0.2419	0.3627	0.6064	0.9330	1.0785	1.2116	1.3609	1.1767	1.0738	0.9737	0.8697	0.7638	1.0134	1.2884	
2.1901	3.1243	4.4482	5.5505	6.5905	7.3083	7.4803	7.3508	7.1915	6.8207	6.1776	5.2697	4.4570	3.4610	
2.5085	1.9857	1.3847	1.0024	0.6851	0.4921	0.3971	0.2037	0.1600	0.1547	0.1172	0.0869	0.0479	0.0772	
0.1275														
1980	1	1	0	0	811	0.0091	0.0023	0.0015	0.0000	0.0073	0.0000	0.0000	0.0087	
0.0126	0.0458	0.0204	0.0433	0.1149	0.2228	0.5250	0.7315	1.2779	2.1458	3.0350	3.7493	4.1531	4.0760	
4.3104	4.0557	4.3473	4.6273	5.0774	5.6263	5.8858	6.0686	5.8665	5.5856	5.4307	5.0389	4.3970	3.5729	
2.4554	2.0179	1.4813	1.1084	0.7881	0.5016	0.3861	0.4173	0.1653	0.1672	0.1005	0.0862	0.0783	0.0779	
0.0960														
1981	1	1	0	0	1093	0.0800	0.1084	0.3599	0.7080	0.9938	1.3236	1.4714	1.4205	
1.1953	0.9210	0.5505	0.3604	0.3151	0.1801	0.1889	0.2756	0.5729	0.9527	1.7359	2.9281	4.0255	5.0184	
5.6197	6.0028	6.2402	6.2228	6.0960	5.8936	5.4876	5.3678	5.1780	4.8316	4.1992	3.4228	2.5465	1.9163	
1.4854	1.0655	0.5759	0.4974	0.3794	0.2661	0.1841	0.1667	0.1191	0.0804	0.0909	0.0528	0.0518	0.0368	
0.2368														
1982	1	1	0	0	1142	0.0012	0.0006	0.0006	0.0069	0.0278	0.0623	0.1581	0.3195	
0.4785	0.7517	1.1521	1.7236	2.2861	2.4465	2.4854	2.2689	2.0172	1.5572	1.1535	1.1139	1.6668	2.6606	
3.7590	4.8387	5.2255	5.3355	5.4254	5.3001	5.2641	5.1765	5.0040	4.8301	4.5324	4.1043	3.5769	3.1039	
2.2985	1.8991	1.4468	1.2094	0.8385	0.6099	0.4744	0.3877	0.2877	0.1802	0.1433	0.1309	0.0730	0.0768	
0.1282														

1983	1	1	0	0	1069	0.0000	0.0000	0.0000	0.0000	0.0000	0.0019	0.0039	0.0049
0.0079	0.0489	0.1747	0.4093	0.9641	1.9860	3.0671	3.7988	4.5641	5.0988	5.4378	5.5811	5.4899	5.2058
4.8753	4.4715	4.3545	4.5081	4.6308	4.5736	4.3279	4.1003	3.7933	3.3540	3.0048	2.5516	2.1759	1.7089
1.3795	0.9958	0.7211	0.5140	0.4447	0.4355	0.3254	0.2806	0.1772	0.1214	0.0937	0.0720	0.0499	0.0400
0.0738													
1984	1	1	0	0	2035	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0105	0.0637	0.2676	0.8974	2.4412	4.6053	7.0343	8.2610	8.8066	8.8926
8.7328	8.0202	6.4816	5.1629	4.8620	4.4832	4.1105	3.7143	3.0779	2.4524	1.9414	1.4921	1.0246	0.7090
0.4861	0.3571	0.2395	0.2084	0.1822	0.1480	0.1098	0.1142	0.0654	0.0783	0.0392	0.0748	0.0613	0.0518
0.2390													
1985	1	1	0	0	2061	0.0087	0.0274	0.0648	0.1319	0.2167	0.3147	0.4723	0.5712
0.7749	0.8416	0.8311	0.7368	0.6614	0.4257	0.2871	0.2003	0.2466	0.5571	1.2729	2.9829	5.8356	7.8579
8.7403	9.0648	8.9656	8.5779	7.5892	6.4114	5.4273	4.5509	3.8589	2.9729	2.3139	1.7167	1.2206	0.8974
0.6230	0.3798	0.2779	0.1994	0.1635	0.1281	0.0756	0.1044	0.0668	0.0528	0.0551	0.0356	0.0388	0.0281
0.1439													
1986	1	1	0	0	3878	0.0000	0.0016	0.0013	0.0000	0.0013	0.0028	0.0096	0.0200
0.0693	0.1515	0.3138	0.5911	1.1404	2.1111	3.2822	3.7332	3.8731	3.7860	3.3537	2.7946	3.0905	5.3259
7.2056	8.0638	8.2040	8.0180	7.5393	6.3690	4.9986	3.8386	3.0525	2.3423	1.8172	1.3727	1.0227	0.6270
0.4857	0.3479	0.2423	0.1877	0.1401	0.1158	0.0973	0.0599	0.0422	0.0187	0.0227	0.0287	0.0125	0.0215
0.0526													
1987	1	1	0	0	3406	0.0007	0.0003	0.0003	0.0034	0.0017	0.0011	0.0010	0.0046
0.0057	0.0063	0.0188	0.0204	0.0694	0.2387	0.6284	1.1515	2.2635	4.1013	5.6298	6.4771	6.8780	6.9840
7.1824	7.5291	7.5888	7.4579	7.1477	6.4886	5.4910	4.4749	3.4480	2.5218	1.8452	1.3414	0.9380	0.5999
0.3987	0.3065	0.1802	0.1242	0.0990	0.0605	0.0629	0.0346	0.0404	0.0319	0.0267	0.0229	0.0186	0.0088
0.0434													
1988	1	1	0	0	3035	0.0007	0.0000	0.0000	0.0000	0.0017	0.0093	0.0120	0.0258
0.0340	0.0449	0.0486	0.0299	0.0550	0.0644	0.1627	0.3887	0.8553	1.5375	3.2362	5.6799	7.6535	8.5678
8.8030	8.8150	8.6617	8.3324	8.0693	7.2917	6.1416	4.5565	3.2785	2.2118	1.6226	1.0448	0.8112	0.4643
0.3538	0.2647	0.2094	0.1601	0.0876	0.0695	0.0400	0.0650	0.0289	0.0369	0.0335	0.0233	0.0179	0.0229
0.0740													
1989	1	1	0	0	2581	0.0005	0.0067	0.0011	0.0040	0.0045	0.0000	0.0043	0.0110
0.0275	0.1121	0.3024	0.6741	1.0166	1.2433	1.2873	1.1719	1.1842	1.3513	1.8609	3.2026	5.4862	7.6096
8.4166	8.5480	8.5158	8.3558	8.1199	7.4837	6.5009	5.1206	3.5657	2.4235	1.8394	1.2021	0.9268	0.6719
0.4551	0.2600	0.2193	0.2046	0.1429	0.0997	0.0843	0.0574	0.0486	0.0286	0.0164	0.0259	0.0302	0.0163
0.0577													
1990	1	1	0	0	2039	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0011
0.0165	0.0335	0.0560	0.1147	0.2150	0.3131	0.6847	1.0370	1.6040	2.5415	3.9025	5.3464	6.1623	6.6671
7.1218	7.7462	7.9435	8.0196	7.9224	7.6186	6.9470	5.6783	3.7969	2.7834	1.6893	1.1798	0.7962	0.5256
0.3690	0.2677	0.2133	0.1416	0.0824	0.0778	0.0709	0.0621	0.0564	0.0224	0.0350	0.0320	0.0178	0.0174
0.0702													
1991	1	1	0	0	817	0.0253	0.0066	0.0046	0.0095	0.0000	0.0000	0.0037	0.0188
0.0188	0.0064	0.0447	0.1253	0.2715	0.4231	0.8148	1.2033	2.0136	2.9728	3.5959	4.2063	4.7795	5.9500
6.1653	6.8269	8.1632	8.4062	8.7522	7.8287	6.3656	4.8131	3.4933	2.4196	1.6501	1.3979	1.2589	1.1846
1.1067	0.9981	0.8329	0.6915	0.3356	0.2210	0.1430	0.1272	0.0789	0.0680	0.0615	0.0107	0.0326	0.0170
0.0554													
1992	1	1	0	0	836	0.0281	0.0667	0.0757	0.0833	0.0847	0.0681	0.0818	0.0962
0.1170	0.1903	0.2537	0.4457	0.6030	0.7764	1.1068	1.3336	1.8384	2.0298	1.6095	1.8875	3.7787	5.8426
7.3393	8.9692	10.0915	10.2542	9.9512	9.4832	7.3533	5.4802	3.2085	1.8284	1.2047	0.7084	0.4253	0.3018
0.2260	0.1613	0.1262	0.0848	0.0840	0.0563	0.0546	0.0267	0.0317	0.0166	0.0102	0.0082	0.0162	0.0065
0.0938													
1993	1	1	0	0	442	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0070
0.0000	0.0000	0.0082	0.1118	0.0949	0.4661	1.0299	1.9220	3.7253	4.5722	6.2424	6.2361	5.8973	5.3501
5.8937	7.2187	8.3169	8.6226	8.8043	7.5067	7.1225	4.6537	2.7273	1.3580	0.5706	0.4606	0.3049	0.2458
0.1720	0.1125	0.0270	0.0518	0.0266	0.0349	0.0235	0.0061	0.0025	0.0047	0.0000	0.0076	0.0000	
0.0085													
1994	1	1	0	0	649	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0015	0.0141	0.0015	0.0170	0.0052	0.0191	0.0819	0.1821	0.6538	1.5734	3.1216	4.4610	5.8132	6.9431
7.4792	8.1627	8.4792	9.3948	9.4855	8.9230	7.8291	5.9172	4.1409	2.6141	1.4632	1.0154	0.6571	0.4624
0.2675	0.1930	0.1728	0.1298	0.1028	0.0608	0.0196	0.0257	0.0226	0.0176	0.0132	0.0044	0.0019	0.0104
0.0457													
1995	1	1	0	0	470	0.1038	0.0228	0.0198	0.0284	0.0357	0.0357	0.0357	0.0198
0.0000	0.0000	0.0091	0.0078	0.0571	0.0912	0.1238	0.1013	0.2443	0.2585	0.5044	1.1955	2.3724	4.4641
6.6707	9.0914	10.4171	10.4798	10.8746	9.6864	8.4629	6.6830	5.2642	3.6818	2.8972	1.8339	1.2249	0.8681
0.5701	0.5399	0.2679	0.2461	0.1648	0.1209	0.0787	0.0556	0.0218	0.0338	0.0073	0.0208	0.0036	0.0000
0.0018													
1996	1	1	0	0	557	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0148
0.0575	0.0624	0.3453	0.9726	1.5831	3.0203	3.8219	4.7231	4.1074	3.4972	3.3323	3.8879	4.0162	4.3223
4.5049	5.8851	7.4956	8.5752	8.2382	7.4850	6.1778	4.4124	3.4555	2.1185	1.4007	0.7752	0.5304	0.3100
0.2074	0.2374	0.1246	0.0495	0.0525	0.0369	0.0385	0.0192	0.0183	0.0234	0.0000	0.0000	0.0104	0.0000
0.0381													

1997	1	1	0	0	681	0.0000	0.0000	0.0000	0.0000	0.0000	0.0054	0.0000	0.0000	0.0000	
0.0000	0.0000	0.0004	0.0129	0.0242	0.0621	0.1670	0.5697	1.1618	2.5034	4.2684	6.5930	9.1337	10.3301		
10.9611	10.6951	9.1385	8.2452	6.7816	5.6553	4.4197	3.4122	2.0201	1.2148	0.7188	0.4538	0.3833	0.2249		
0.2018	0.0783	0.1077	0.0375	0.0815	0.0931	0.1300	0.0086	0.0097	0.0081	0.0552	0.0051	0.0000	0.0129		
0.0138															
1998	1	1	0	0	803	0.0000	0.0019	0.0000	0.0356	0.0312	0.0000	0.0000	0.0000	0.0018	
0.0050	0.0307	0.1578	0.5719	1.1926	1.8658	1.8962	2.1940	3.1873	4.9169	5.9828	6.3878	6.7259	7.5506		
8.9308	9.1918	8.9787	7.9720	6.5252	5.1066	3.8389	2.3801	1.5499	0.8679	0.5270	0.3689	0.2026	0.1499		
0.1612	0.1050	0.0570	0.0861	0.0879	0.0039	0.0120	0.0034	0.0132	0.0171	0.0161	0.0014	0.0454	0.0000		
0.0642															
1999	1	1	0	0	2268	0.0028	0.0000	0.0000	0.0030	0.0088	0.0298	0.0088	0.0088	0.0562	
0.1532	0.3180	0.7684	1.1024	1.6890	2.4598	3.4549	4.0658	5.0615	5.8249	6.6752	6.3233	6.6134	6.1512		
6.1289	6.7057	6.9914	7.0649	6.3137	4.8892	3.6905	2.3132	1.5526	1.0083	0.7842	0.4498	0.3077	0.1635		
0.1629	0.1472	0.0544	0.1511	0.0529	0.0800	0.0497	0.0106	0.0125	0.0187	0.0165	0.0089	0.0198	0.0152		
0.0657															
2000	1	1	0	0	2199	0.0008	0.0000	0.0000	0.0000	0.0000	0.0049	0.0230	0.0779		
0.1520	0.3576	0.3585	0.3253	0.2198	0.2314	0.2139	0.3953	0.6127	1.1692	1.9467	2.6461	4.1004	4.7630		
5.8897	6.8340	8.3000	9.5471	9.8429	9.2381	8.5885	6.6670	5.2995	3.7409	2.5171	1.7399	1.2479	0.7236		
0.4943	0.5228	0.3619	0.2084	0.1557	0.1254	0.0844	0.0832	0.0432	0.0291	0.0261	0.0251	0.0104	0.0289		
0.0260															
2001	1	1	0	0	2239	0.0040	0.0047	0.0000	0.0142	0.0049	0.0144	0.0049	0.0450		
0.0368	0.1065	0.2524	0.5181	0.7379	1.0920	1.5401	2.4071	3.1572	3.3718	3.3389	3.6980	4.1295	4.9045		
5.9444	6.3796	6.9969	7.3855	8.0234	8.2212	7.5621	5.8676	4.3308	3.3034	2.0719	1.5149	0.9362	0.6821		
0.4124	0.2491	0.1603	0.1745	0.1023	0.0504	0.0731	0.0517	0.0206	0.0268	0.0330	0.0073	0.0166	0.0030		
0.0161															
2002	1	1	0	0	1821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0153	0.0000	0.0005		
0.0005	0.0009	0.0349	0.0455	0.0237	0.0205	0.1192	0.3983	0.9800	2.6734	5.4078	8.8163	10.7909	12.1021		
11.2284	9.1867	6.7869	5.1606	4.4545	3.5139	3.1230	2.9931	2.6154	2.2683	1.8634	1.5485	1.1389	0.7967		
0.4894	0.3872	0.2213	0.1985	0.1627	0.1216	0.0636	0.0584	0.0544	0.0301	0.0271	0.0061	0.0231	0.0117		
0.0366															
2003	1	1	0	0	1915	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
0.0300	0.0000	0.0000	0.0387	0.0022	0.0769	0.0808	0.1733	0.9888	2.3873	4.6812	8.0242	11.1703	11.9985		
12.9450	12.6406	10.5481	8.0278	5.3379	3.5339	2.3350	1.6809	1.1599	0.7129	0.4354	0.2866	0.2158	0.1281		
0.1050	0.0474	0.0597	0.0310	0.0171	0.0142	0.0162	0.0138	0.0066	0.0076	0.0093	0.0099	0.0000	0.0080		
0.0143															
2004	1	1	0	0	2797	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
0.0007	0.0016	0.0038	0.0089	0.0000	0.0000	0.0081	0.0131	0.0296	0.1831	0.6135	1.4590	3.7500	7.0232		
11.1220	14.3372	15.4579	14.7871	10.8375	7.4020	4.8577	2.7464	1.7989	1.2653	0.6564	0.3878	0.2692	0.2233		
0.2484	0.0934	0.0338	0.0283	0.0757	0.0703	0.0158	0.0102	0.0581	0.0045	0.0151	0.0173	0.0045	0.0044		
0.0767															
2005	1	1	0	0	3064	0.0039	0.0031	0.0026	0.0020	0.0000	0.0023	0.0000	0.0000		
0.0000	0.0030	0.0024	0.0063	0.0239	0.0509	0.0915	0.1204	0.1841	0.4387	0.5751	0.6107	1.1091	2.4939		
6.2652	12.8750	18.8037	19.4426	15.5383	9.6723	5.1798	2.7770	1.4521	0.8477	0.4493	0.3130	0.1687	0.1364		
0.0896	0.0711	0.0473	0.0281	0.0267	0.0180	0.0129	0.0096	0.0076	0.0067	0.0072	0.0038	0.0045	0.0044		
0.0175															
1988	1	2	0	0	38	0.0000	0.0000	0.0000	0.0015	0.0042	0.0013	0.0000	0.0012		
0.0000	0.0026	0.0047	0.0016	0.0109	0.0287	0.0347	0.1011	0.1622	0.2725	0.4999	0.8217	1.6591	3.0254		
5.2973	7.5743	9.8487	11.8018	11.9507	10.6459	8.8695	6.9198	5.2416	4.0676	3.0620	2.1469	1.6566	1.2806		
0.8882	0.6213	0.4338	0.3289	0.2480	0.1422	0.0926	0.0926	0.0635	0.0281	0.0175	0.0131	0.0143	0.0048		
0.0143															
1989	1	2	0	0	43	0.0040	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0008		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0079	0.0039	0.0013	0.0116	0.0234	0.0729	0.1029	0.3302	1.1841		
3.6208	7.3076	11.0626	13.9101	14.3775	12.2475	10.0729	7.4976	5.3460	3.8031	2.5146	1.9580	1.3638	0.8697		
0.6090	0.4848	0.2969	0.2583	0.2076	0.1215	0.0985	0.0644	0.0415	0.0313	0.0347	0.0133	0.0026	0.0093		
0.0314															
1990	1	2	0	0	33	0.0025	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	0.0146	0.0089	0.0665	0.0878	0.1169	0.2445	0.6916	0.8924		
1.9520	4.6396	8.2469	13.1450	15.1195	14.6946	12.1628	8.7682	6.0184	3.8082	2.6119	1.7409	1.1643	0.8935		
0.7293	0.4191	0.3702	0.2793	0.2472	0.1841	0.1927	0.1571	0.0847	0.0648	0.0653	0.0228	0.0194	0.0370		
0.0351															
1991	1	2	0	0	56	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0031	0.0100	0.0000	0.0033	0.0073	0.0033	0.0288	0.0615	0.1335	0.1961	0.2554	0.5079		
0.7854	1.3650	3.2862	6.6629	11.0345	14.2636	15.4089	13.1927	9.9821	7.0393	4.8797	3.3430	2.1798	1.4970		
1.0171	0.7579	0.5609	0.3871	0.3152	0.2666	0.1598	0.1119	0.0769	0.0668	0.0524	0.0185	0.0272	0.0168		
0.0327															
1992	1	2	0	0	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0017	0.0070	0.0113	0.0113	0.0170	0.1428	0.4641		
1.4115	3.5680	7.2311	11.7795	16.0994	16.7776	14.5902	10.6207	6.6180	3.9245	2.3324	1.3938	0.8834	0.5575		
0.3640	0.2610	0.2263	0.1462	0.1277	0.1166	0.0871	0.0495	0.0532	0.0353	0.0125	0.0261	0.0057	0.0117		
0.0424															

1993	1	2	0	0	60	0.0102	0.0000	0.0000	0.0017	0.0000	0.0014	0.0000	0.0014
0.0103	0.0061	0.0079	0.0053	0.0019	0.0014	0.0039	0.0054	0.0045	0.0070	0.0187	0.0581	0.2378	0.6761
1.7934	4.2474	9.5096	15.5218	19.1337	17.8105	12.9661	7.8210	4.2887	2.2775	1.3447	0.7572	0.4675	0.3220
0.2047	0.1464	0.1057	0.0596	0.0460	0.0213	0.0202	0.0200	0.0028	0.0151	0.0076	0.0100	0.0072	0.0031
0.0103	0.0378												
1994	1	2	0	0	76	0.0391	0.0037	0.0033	0.0034	0.0025	0.0051	0.0019	0.0009
0.0027	0.0026	0.0015	0.0000	0.0017	0.0023	0.0013	0.0090	0.0121	0.0202	0.0211	0.0403	0.1377	0.3263
0.7286	1.8425	4.1592	8.2000	13.3817	16.8869	16.0807	12.8616	9.0190	5.6153	3.4957	2.2325	1.5106	0.9776
0.6701	0.4595	0.3314	0.2424	0.1778	0.1279	0.0899	0.0687	0.0405	0.0392	0.0236	0.0318	0.0200	0.0084
0.0378													
1995	1	2	0	0	43	0.5433	0.5663	1.5444	2.8853	2.8406	3.0367	2.0194	1.2639
0.6258	0.1966	0.0873	0.0440	0.0292	0.0483	0.0254	0.0278	0.0167	0.0000	0.0000	0.0034	0.0068	0.0722
0.2495	0.9728	2.6665	5.3574	9.1578	12.8613	14.7039	12.3917	9.3775	5.8628	3.5750	2.4331	1.2689	0.9287
0.6043	0.4867	0.3577	0.3214	0.1383	0.1170	0.0715	0.0482	0.0518	0.0412	0.0355	0.0100	0.0000	0.0113
0.0151													
1996	1	2	0	0	54	0.0024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0069	0.0168	0.0622	0.1235	0.2794	0.4614	0.8566	1.3516	1.9391	2.2300	2.0055	1.5635	1.2560
1.4221	2.7105	5.4517	10.2072	14.0882	15.4694	13.5617	9.5714	6.3589	3.5570	2.0126	1.1256	0.7121	0.4531
0.2665	0.2264	0.1552	0.0981	0.0831	0.0799	0.0618	0.0397	0.0297	0.0245	0.0246	0.0090	0.0115	0.0090
0.0244													
1997	1	2	0	0	102	0.0000	0.0000	0.0045	0.0045	0.0175	0.0095	0.0180	0.0283
0.0240	0.0361	0.0300	0.0346	0.0303	0.0320	0.0191	0.0136	0.0307	0.1000	0.2532	0.9009	2.1714	3.9752
6.0868	7.3180	8.2774	8.8846	10.3676	10.7128	10.2442	8.6087	6.4056	4.5583	3.0897	2.2322	1.5336	1.0943
0.7586	0.6056	0.3728	0.2314	0.2456	0.1737	0.1118	0.0810	0.0760	0.0483	0.0550	0.0183	0.0299	0.0052
0.0394													
1998	1	2	0	0	94	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0291	0.0055	0.0152	0.0201	0.0309	0.0786	0.2148	0.4806	0.9896	1.9114	3.1067	4.6458
7.7507	10.9445	13.0675	13.7215	12.3742	9.4706	6.3908	4.2349	2.5262	1.4915	0.9287	0.5946	0.3971	0.2716
0.2143	0.1214	0.1003	0.0878	0.0475	0.0406	0.0232	0.0258	0.0235	0.0122	0.0057	0.0036	0.0029	0.0049
0.0093													
1999	1	2	0	0	136	0.0000	0.0140	0.0037	0.0090	0.0010	0.0034	0.0066	0.0057
0.0316	0.0521	0.1189	0.3614	0.7028	1.1060	1.7214	1.9452	2.0639	2.0924	2.2368	2.8403	3.0093	3.6328
4.6785	6.2507	8.1427	10.3291	10.9685	10.3095	8.5619	6.2326	3.9248	2.8442	1.7230	1.1824	0.7861	0.5753
0.4115	0.2814	0.1936	0.1657	0.0846	0.1275	0.0871	0.0396	0.0642	0.0204	0.0157	0.0201	0.0028	0.0078
0.0104													
2000	1	2	0	0	16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0002	0.0115	0.0269	0.0783	0.2229	0.5715	0.8796	1.3716	1.4679	1.9613	2.4665	3.4212
4.4835	5.4263	6.1167	6.3849	7.2244	8.1919	8.6751	8.1729	7.9389	6.0299	4.6940	3.5788	2.7613	1.9144
1.6095	1.1091	0.8607	0.6031	0.4619	0.4388	0.2513	0.2007	0.1381	0.0794	0.0489	0.0472	0.0230	0.0196
0.0364													
2001	1	2	0	0	72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0095
0.0067	0.0587	0.2057	0.2672	0.2541	0.2360	0.2768	0.1680	0.1071	0.0729	0.0268	0.0359	0.0413	0.0228
0.1328	0.3029	0.7079	1.4757	3.0338	5.7325	8.9079	11.2086	12.8480	11.8996	10.4744	8.4391	6.5580	4.7269
3.5529	2.5374	1.8422	1.1844	0.7793	0.5817	0.3953	0.2782	0.2220	0.1321	0.1047	0.0273	0.0319	0.0287
0.0642													
2002	1	2	0	0	103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0116	0.0168	0.0046	0.0046	0.0049	0.0295	0.0076	0.0620	0.0081	0.0366	
0.1599	0.2942	0.4882	1.1396	1.3920	2.5956	4.8810	7.4663	10.1087	12.5335	12.7077	11.0521	8.9671	6.8943
5.5104	4.3519	2.7694	1.8741	1.5376	1.1212	0.6999	0.4071	0.2684	0.1780	0.1428	0.0868	0.0675	0.0483
0.0700													
2003	1	2	0	0	118	0.0000	0.0078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0091	0.0000	0.0376	0.0168	0.0530	0.0391	0.0327	0.0427	0.0346	0.0000	0.2505	1.1718
2.9946	5.7363	9.9890	11.3838	12.8838	11.9749	10.6071	9.6759	6.2904	4.3829	3.3957	2.1501	1.5351	1.2581
1.0889	0.6767	0.5597	0.3709	0.3422	0.3288	0.1696	0.2269	0.0750	0.0465	0.0194	0.0403	0.0334	0.0069
0.0614													
2004	1	2	0	0	101	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0023	0.0064	0.0000	0.0070	0.0080	0.0116	0.0067	0.0323	0.0295	0.0828	0.1954	0.6188	1.7741
4.5173	8.9999	13.0525	15.3074	14.1836	12.1532	9.2861	6.4924	4.2643	2.8084	1.8428	1.1967	0.7829	0.6262
0.4351	0.3246	0.2555	0.1571	0.1370	0.0928	0.0753	0.0591	0.0316	0.0263	0.0152	0.0227	0.0202	0.0102
0.0464													
2005	1	2	0	0	15	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	0.0725	0.1077	0.1977	0.6648	0.9805	
2.9974	6.5045	9.9976	13.1943	15.2801	13.8470	10.8480	8.5224	5.6856	3.3915	2.2879	1.4004	1.1228	0.7615
0.6550	0.4855	0.3073	0.1842	0.0406	0.2334	0.0693	0.0561	0.0344	0.0426	0.0048	0.0000	0.0066	0.0000
0.0161													
1977	1	3	0	0	85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0762	0.1870	0.4156	0.4018	0.6304	0.6719	0.8313	1.2122	1.3716	1.3716	1.5932	2.1543
2.7847	3.6021	4.1009	4.3918	5.1676	6.9825	8.2433	9.4417	8.9983	7.4397	6.5738	5.2092	3.8930	2.7847
2.2582	1.7872	1.1153	0.8728	0.7551	0.5819	0.5611	0.3671	0.3117	0.1940	0.2078	0.1316	0.0485	0.0554
0.0554													

1980	1	3	0	0	49	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0241	0.0000	0.0241	0.0723	0.3135	0.6872	1.7483	3.7618	5.6909	6.1249	5.2689	3.8582
1.5192	0.8922	0.5426	0.7596	1.9050	3.2433	5.8235	8.3193	9.2838	8.5483	8.1022	6.2937	4.7263	3.0625
2.0979	1.5915	1.0851	0.6872	0.6028	0.4943	0.2773	0.1688	0.2411	0.1206	0.1326	0.1206	0.1085	0.0603
0.0603													
1983	1	3	0	0	35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0232	0.0116	0.0348	0.4295	1.6369	4.1560	7.8941	10.5410	11.4465	9.2408	7.7084	5.4678
3.6568	2.4611	2.1477	2.4611	3.3666	4.0051	4.2141	3.8542	3.5407	2.8326	2.2638	1.8923	1.4511	0.8591
0.7198	0.4644	0.2786	0.3367	0.1741	0.1393	0.0929	0.0580	0.0116	0.0116	0.0580	0.0116	0.0116	0.0232
0.0000													
1989	1	3	0	0	22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0534	0.0356	0.0000	0.0356	0.1956	0.5513	1.9029	2.2230	2.1697	1.3694	1.5472	2.6143
7.9673	13.8182	16.6993	16.3258	11.4885	7.7361	4.6239	2.4898	1.6895	0.9248	0.5513	0.3557	0.2668	0.1601
0.1067	0.0178	0.1423	0.0000	0.0178	0.0000	0.0178	0.0178	0.0178	0.0356	0.0000	0.0000	0.0000	0.0000
0.0178													
1992	1	3	0	0	43	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.9966	1.0747	1.1451	2.0523	2.2678	1.3747	0.7046	0.4705	0.1384	0.2064	0.5554	1.7227
3.9070	6.9265	10.1668	13.5941	14.4537	11.2977	7.4794	4.4176	2.5313	1.2286	0.5984	0.4789	0.2226	0.1257
0.1510	0.0318	0.0608	0.0354	0.0260	0.0126	0.0029	0.0043	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000													
1995	1	3	0	0	69	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.2414	0.3534	1.4379	4.0874	8.1213	8.5327	6.1473	2.9749	1.2684	0.5451	0.5222	1.2059
2.6843	4.8278	6.9954	8.0774	8.3294	7.4855	6.1477	3.8777	2.5148	1.2530	0.8335	0.3644	0.2652	0.1357
0.0966	0.0656	0.0532	0.0414	0.0348	0.0181	0.0073	0.0056	0.0032	0.0024	0.0091	0.0226	0.0176	0.0037
0.0037													
1998	1	3	0	0	84	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	1.9111	2.3583	2.7987	2.9771	2.6344	1.9192	1.7780	2.5431	3.2512	3.6925	3.7927	4.3047
5.4560	7.6075	8.0688	8.4396	7.5478	6.2551	4.9928	3.5322	2.5057	1.6519	1.0415	0.7464	0.4515	0.3132
0.2538	0.1641	0.1156	0.0562	0.0557	0.0423	0.0236	0.0210	0.0125	0.0035	0.0053	0.0059	0.0084	0.0061
0.0135													
2001	1	3	0	0	49	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	1.3525	4.1216	8.3658	14.6019	16.9774	14.2018	8.5876	3.5231	1.6717	1.4485	1.5298	1.9460
1.9285	1.9610	1.8787	2.2680	2.1509	2.2040	2.1926	1.9429	1.1800	0.8779	0.6301	0.4768	0.3006	0.2136
0.1543	0.1206	0.0551	0.0789	0.0185	0.0621	0.0381	0.0841	0.0565	0.0314	0.0243	0.0261	0.0014	0.0354
0.0687													
2003	1	3	0	0	71	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0944	0.1537	0.3314	0.4047	0.7614	0.6356	1.1926	1.0760	1.7630	1.7640	4.4833	7.5862
14.3289	14.8713	13.9081	10.0821	7.4014	5.8903	3.9399	2.7178	1.9627	1.3133	0.9244	0.6519	0.4871	0.3781
0.2422	0.1693	0.1103	0.1016	0.0309	0.0101	0.0184	0.0231	0.0085	0.0160	0.0057	0.0028	0.0046	0.0249
0.0249													
2005	1	3	0	0	49	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.5764	0.6518	2.2930	3.3930	4.9816	3.7852	2.8587	2.0472	1.2751	1.0973	1.1591	2.8742
4.7100	8.8084	14.7650	12.1110	12.1030	6.6716	5.1654	3.3105	1.6901	1.0512	0.6182	0.3690	0.1856	0.1908
0.1801	0.0734	0.0314	0.0457	0.0478	0.0314	0.0335	0.0175	0.0161	0.0124	0.0118	0.0879	0.0000	0.0000
0.0131													

14 #_N_age_bins
2 3 4 5 6 7 8 9 10 11 12 13 14 15

1 #_N_ageerror_definitions

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												
0.000001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0001												
#.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001
	0.00000001	0.00000001											

2212 #_N_Agecomp_obs

# Yr	Seas	Flt/Svy	Gender	Part	Ageerr	Lbin_lo	Lbin_hi	Nsamp	datavector(female-male)				
1973	1	1	0	0	1	1	51	60	0.00000	0.25999	0.04498	0.10099	0.18700
0.11699	0.10699	0.10001	0.04801	0.02098	0.00903	0.00502	0.00000	0.00000					
1974	1	1	0	0	1	1	51	60	0.00439	0.00331	0.50658	0.06924	0.11978
0.14944	0.08681	0.03846	0.01208	0.00550	0.00331	0.00111	0.00000	0.00000					
1975	1	1	0	0	1	4	4	1	100.0000	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					
1975	1	1	0	0	1	5	5	1	100.0000	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					
1975	1	1	0	0	1	6	6	1	100.0000	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					
1975	1	1	0	0	1	7	7	2	100.0000	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					

1975	1	1	0	0	1	8	8	2	100.0000	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					
1975	1	1	0	0	1	9	9	1	100.0000	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					
1975	1	1	0	0	1	10	10	3	100.0000	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					
1975	1	1	0	0	1	11	11	5	100.0000	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					
1975	1	1	0	0	1	12	12	3	100.0000	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					
1975	1	1	0	0	1	13	13	5	100.0000	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					
1975	1	1	0	0	1	14	14	2	94.0517	5.9483	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	15	15	4	95.9144	4.0856	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	16	16	4	93.3344	6.6656	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	17	17	5	70.3671	29.6329	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	18	18	5	68.2976	31.7024	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	19	19	3	28.0522	15.6902	0.0000	56.2576	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	20	20	2	0.0000	37.1985	0.0000	50.0000	0.0000
12.8015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	21	21	6	0.0000	0.0000	23.8065	74.4685	1.7249
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	22	22	10	0.0000	0.0000	0.0000	94.6658	5.3342
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	23	23	9	0.0000	0.0000	19.3168	80.6832	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	24	24	9	0.0000	0.0000	9.2807	85.5284	0.0000
5.1909	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	25	25	10	0.0000	0.0000	7.0029	84.8703	7.0029
0.0000	1.1240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	26	26	8	0.0000	0.0000	0.0000	77.8311	16.8185
2.6752	2.6752	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	27	27	9	0.0000	0.0000	7.0051	72.2056	0.0000
2.8446	2.8446	10.9396	7.0051	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	28	28	7	0.0000	0.0000	0.0000	28.1288	53.1793
2.5515	2.5515	16.1404	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	29	29	10	0.0000	0.0000	0.0000	31.0378	0.0000
41.6159	41.6159	21.4534	5.8928	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	30	30	8	0.0000	0.0000	0.0000	4.8178	78.2151
13.3559	13.3559	0.0000	0.0000	3.6112	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	31	31	4	0.0000	0.0000	0.0000	9.9887	0.0000
70.1459	70.1459	19.8654	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	32	32	5	0.0000	0.0000	0.0000	28.7065	0.0000
5.3602	5.3602	58.2321	7.7012	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	33	33	6	0.0000	0.0000	0.0000	0.0000	0.0000
27.6850	27.6850	46.4223	4.2596	16.0317	5.6014	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	35	35	2	0.0000	0.0000	0.0000	0.0000	0.0000
73.5368	73.5368	26.4632	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	36	36	4	0.0000	0.0000	0.0000	0.0000	0.0000
10.7028	10.7028	89.2972	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	38	38	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	39	39	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	40	40	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	21.4858	0.0000	0.0000	78.5142	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1975	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1976	1	1	0	0	1	3	3	1	100.0000	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					

1976	1	1	0	0	1	4	4	1	100.0000	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	100.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	5	5	1	100.0000	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	100.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	6	6	3	100.0000	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	100.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	7	7	1	100.0000	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	100.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	8	8	4	100.0000	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	100.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	9	9	5	100.0000	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	100.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	10	10	4	97.7960	2.2040	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	97.7960	2.2040	0.0000	0.0000	0.0000
1976	1	1	0	0	1	11	11	4	43.8099	56.1901	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	43.8099	56.1901	0.0000	0.0000	0.0000
1976	1	1	0	0	1	12	12	6	95.5825	4.4175	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	95.5825	4.4175	0.0000	0.0000	0.0000
1976	1	1	0	0	1	13	13	8	76.7567	18.4825	4.7609	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	76.7567	18.4825	4.7609	0.0000	0.0000
1976	1	1	0	0	1	14	14	9	83.9321	16.0679	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	83.9321	16.0679	0.0000	0.0000	0.0000
1976	1	1	0	0	1	15	15	10	46.8326	53.1674	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	46.8326	53.1674	0.0000	0.0000	0.0000
1976	1	1	0	0	1	16	16	7	21.1327	78.8673	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	21.1327	78.8673	0.0000	0.0000	0.0000
1976	1	1	0	0	1	17	17	13	28.6504	71.3496	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	28.6504	71.3496	0.0000	0.0000	0.0000
1976	1	1	0	0	1	18	18	23	7.3862	67.0779	24.4526	1.0833	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.3862	67.0779	24.4526	1.0833	0.0000
1976	1	1	0	0	1	19	19	26	4.3779	63.4472	31.9532	0.0000	0.2217
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.3779	63.4472	31.9532	0.0000	0.2217
1976	1	1	0	0	1	20	20	45	6.0606	70.0659	22.3420	1.0983	0.1712
0.2619	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.0606	70.0659	22.3420	1.0983	0.1712
1976	1	1	0	0	1	21	21	58	5.7384	73.4517	16.4006	2.2534	2.0180
0.1380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.7384	73.4517	16.4006	2.2534	2.0180
1976	1	1	0	0	1	22	22	53	0.2413	68.3268	20.0115	4.7414	5.5814
1.0976	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2413	68.3268	20.0115	4.7414	5.5814
1976	1	1	0	0	1	23	23	55	0.3227	71.2757	13.9827	1.3467	10.8578
2.2144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3227	71.2757	13.9827	1.3467	10.8578
1976	1	1	0	0	1	24	24	56	0.5693	55.2655	22.0991	4.6384	14.5621
2.1280	0.7376	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5693	55.2655	22.0991	4.6384	14.5621
1976	1	1	0	0	1	25	25	54	0.0000	39.2864	16.6332	7.8940	29.4872
6.6992	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	39.2864	16.6332	7.8940	29.4872
1976	1	1	0	0	1	26	26	47	0.9784	26.3184	12.2003	5.6000	46.3883
8.5146	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9784	26.3184	12.2003	5.6000	46.3883
1976	1	1	0	0	1	27	27	47	0.0000	10.9275	29.5591	5.3167	41.7652
11.3236	1.1080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10.9275	29.5591	5.3167	41.7652
1976	1	1	0	0	1	28	28	39	0.0000	2.1858	1.9251	5.1130	73.7158
11.4959	4.1530	1.4115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.1858	1.9251	5.1130	73.7158
1976	1	1	0	0	1	29	29	42	0.0000	2.0295	3.1365	4.8578	58.6207
25.8779	3.4834	0.8045	0.6164	0.0000	0.2866	0.2866	0.0000	0.0000	0.0000	3.1365	4.8578	58.6207	58.6207
1976	1	1	0	0	1	30	30	44	0.0000	1.0698	1.1458	63.8017	63.8017
23.0548	6.9754	3.6944	0.2582	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0698	1.1458	63.8017	63.8017
1976	1	1	0	0	1	31	31	57	0.0000	0.0000	0.0000	3.3948	56.7487
21.7595	2.2945	5.9717	3.1858	1.4822	0.6462	0.0000	4.5167	0.0000	0.0000	0.0000	0.0000	3.3948	56.7487
1976	1	1	0	0	1	32	32	62	0.0000	0.3791	0.0000	2.0588	37.3613
27.6379	11.1598	17.0640	1.4028	0.0077	0.8297	0.2036	1.8954	0.0000	0.0000	0.0000	0.0000	2.0588	37.3613
1976	1	1	0	0	1	33	33	60	0.0000	0.0000	0.7657	0.9368	26.2805
38.6238	10.8890	5.4954	8.2739	5.5776	0.2439	2.9134	0.0000	0.0000	0.0000	0.0000	0.7657	0.9368	26.2805
1976	1	1	0	0	1	34	34	69	0.0000	0.0000	0.0000	3.3871	14.7311
19.6219	29.8552	10.3788	16.4266	0.1283	5.4709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.3871	14.7311
1976	1	1	0	0	1	35	35	64	0.0000	0.0000	0.3421	0.0000	11.0217
21.8405	26.2875	17.6601	7.6358	4.2391	4.1915	6.4957	0.2861	0.0000	0.0000	0.0000	0.3421	0.0000	11.0217
1976	1	1	0	0	1	36	36	58	0.0000	0.0000	0.0000	0.2708	13.0015
39.1557	17.7728	14.3922	8.3931	5.1437	1.5169	0.3533	0.0000	0.0000	0.0000	0.0000	0.0000	0.6980	10.6328
1976	1	1	0	0	1	37	37	67	0.0000	0.0000	0.0000	0.0000	0.0000
18.9382	17.5666	17.2477	12.6425	20.0793	1.2431	0.4759	0.0000	0.4759	0.0000	0.0000	0.0000	0.6980	10.6328
1976	1	1	0	0	1	38	38	65	0.0000	0.0000	0.0000	0.0000	5.3902
15.4987	25.0662	12.3064	32.5292	3.8356	3.0498	2.3239	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.3902

1976	1	1	0	0	1	39	39	62	0.0000	0.0000	0.0000	0.0000	7.9191
24.4537	21.6249	24.2027	12.1828	3.7566	0.7874	4.2232	0.8497	0.0000	0.0000	0.0000	0.0000	0.0000	14.5499
1976	1	1	0	0	1	40	40	57	0.0000	0.0000	0.0000	0.0000	14.7860
16.1500	24.2507	17.2322	15.1879	5.6006	2.4368	2.7291	0.0000	1.8627	0.0000	0.0000	0.0000	0.0000	14.5499
1976	1	1	0	0	1	41	41	56	0.0000	0.0000	0.0000	0.0000	3.698
11.5339	15.1401	33.5873	7.2072	9.6345	7.0728	0.0000	0.6684	0.0000	0.0000	0.0000	0.0000	0.0000	1.8084
1976	1	1	0	0	1	42	42	48	0.0000	0.0000	0.0000	0.0000	0.0000
16.6353	25.7895	26.2363	12.6774	8.0682	5.7936	0.2729	2.7183	0.0000	0.0000	0.0000	0.0000	0.0000	5.8540
1976	1	1	0	0	1	43	43	45	0.0000	0.0000	0.0000	0.0000	0.0000
1.2137	34.6234	20.3965	5.2532	15.8921	11.0806	4.4300	1.2565	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	44	44	30	0.0000	0.0000	0.0000	0.0000	4.6786
3.9711	15.3690	25.3344	15.7209	8.2153	7.5612	10.1405	9.0090	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	45	45	36	0.0000	0.0000	0.0000	0.0000	0.0000
5.9087	28.1231	20.8982	24.0840	10.9702	8.1064	1.7668	0.1426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	46	46	33	0.0000	0.0000	0.0000	0.0000	0.0000
3.7865	6.7746	16.2949	21.6834	23.2934	16.2259	11.0570	0.8844	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	47	47	33	0.0000	0.0000	0.0000	0.0000	0.0000
4.9150	31.3628	9.8847	17.9954	13.4229	18.5724	3.8469	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	48	48	33	0.0000	0.0000	0.0000	0.0000	0.0000
2.0002	20.7350	8.4514	24.7553	27.2844	11.0622	4.2534	0.8532	0.6049	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	49	49	28	0.0000	0.0000	0.0000	0.0000	0.0000
1.3655	13.8929	27.3256	20.1634	16.1174	1.6081	11.2454	3.2539	5.0279	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	50	50	25	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	12.2001	10.0776	15.2984	18.0650	38.0500	2.9465	3.3623	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1976	1	1	0	0	1	51	51	71	0.0000	0.0000	0.0000	0.0000	0.6090
0.1009	3.0129	10.8672	22.9649	17.3907	21.8658	7.5526	13.3343	2.3018	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	1	1	1	100.0000	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
1977	1	1	0	0	1	2	2	1	100.0000	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
1977	1	1	0	0	1	12	12	2	82.9880	0.0000	0.0000	0.0000	0.0000
0.0000	17.0120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	14	14	4	45.3659	6.9065	47.7276	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
1977	1	1	0	0	1	15	15	5	56.6159	43.3841	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
1977	1	1	0	0	1	16	16	12	92.2371	7.7629	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
1977	1	1	0	0	1	17	17	28	81.2489	11.9260	6.5982	0.0000	0.0000
0.0000	0.2270	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	18	18	56	77.7231	12.8647	9.4122	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
1977	1	1	0	0	1	19	19	71	81.4173	5.6653	12.4739	0.0000	0.0000
0.1492	0.2943	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	20	20	99	73.3349	10.3069	16.1720	0.1117	0.0744
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
1977	1	1	0	0	1	21	21	114	16.4360	22.1488	59.3424	1.7339	0.0000
0.1569	0.0000	0.1819	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	22	22	146	9.2255	15.9035	69.4831	2.6438	0.7687
1.9086	0.0668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	23	23	141	0.6195	14.7629	72.1790	5.7738	3.1643
3.5005	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
1977	1	1	0	0	1	24	24	160	0.3242	7.1591	72.5376	9.4246	4.8971
5.0064	0.5703	0.0000	0.0000	0.0806	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	25	25	160	0.0000	3.2658	68.7676	12.5367	5.4345
9.1482	0.8472	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	26	26	147	0.0000	4.8424	54.7204	5.9414	11.5271
21.7455	0.8584	0.3648	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	27	27	142	0.0000	0.2494	44.3487	10.9689	11.0646
25.7662	6.1457	0.8211	0.6354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	28	28	132	0.0000	0.6012	31.3953	6.1256	10.9794
44.1143	4.7314	0.5953	0.3177	1.1399	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	29	29	128	0.0000	0.2299	14.2010	5.4263	15.2649
59.9647	3.9293	0.4268	0.3848	0.1724	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	30	30	136	0.0000	0.0000	7.9310	5.9277	21.5934
49.9216	7.7696	3.5785	2.7260	0.5523	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	31	31	123	0.0000	0.0000	4.1411	3.9877	15.8156
59.9814	9.5119	4.8576	0.1438	0.8082	0.5893	0.1635	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	32	32	135	0.0000	0.1234	2.8113	1.4858	13.2941
58.7713	10.1174	6.5536	6.0846	0.3534	0.0721	0.3331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1977	1	1	0	0	1	33	33	140	0.0000	0.0000	0.2559	2.7541	10.8073
49.4598	18.4086	10.2561	6.2171	1.5742	0.1149	0.1520	0.0000	0.0000	0.0000	0.0000	0.9874	0.4331	7.0031
1977	1	1	0	0	1	34	34	146	0.0000	0.0000	0.0000	0.0000	0.0000
47.7984	24.5164	9.7240	6.9744	1.8871	0.4628	0.2133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	35	35	147	0.0000	0.0000	0.0000	0.0000	0.0000
38.3218	17.8767	22.0905	10.3715	5.5349	3.2546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	36	36	161	0.1913	0.0000	0.3858	0.2173	4.2066
23.4200	19.2493	20.4471	13.7526	10.0091	4.6525	2.4618	1.0066	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	37	37	139	0.0000	0.0000	0.0000	0.0000	0.0000
22.1477	19.4925	22.8892	13.6802	10.8272	6.6941	1.2439	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	38	38	131	0.0000	0.0000	0.0000	0.0000	0.0000
16.7450	20.9951	19.1942	12.0354	20.6506	8.1388	1.0497	0.0000	0.1421	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	39	39	94	0.0000	0.0000	0.0000	0.0000	0.0000
5.7308	33.7677	19.5312	11.2809	11.8543	11.6093	4.3514	0.2984	0.3065	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	40	40	95	0.0000	0.0000	0.0000	0.0000	0.0000
12.8299	11.4637	29.8325	13.8010	13.1680	14.8108	2.8738	0.6274	0.3266	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	41	41	73	0.0000	0.0000	0.0000	0.5475	0.5475
17.7256	2.3572	14.0544	19.7261	20.1293	19.8637	4.1806	0.8680	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	42	42	60	0.0000	0.0000	0.0000	0.0000	0.0000
4.9916	5.9445	15.8735	26.9359	36.4313	2.2429	4.9156	1.0530	1.0649	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	43	43	52	0.0000	0.0000	0.0000	0.0000	0.0000
2.4184	5.1171	14.1831	25.5692	32.0752	7.2869	12.4864	0.8638	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	44	44	46	0.0000	0.0000	0.0000	0.0000	0.7250
5.3723	8.2086	24.4120	21.1603	20.3670	12.8727	6.1472	0.0000	0.7348	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	45	45	42	0.0000	0.0000	0.0000	0.0000	0.0000
8.2443	2.2163	7.6727	22.6185	30.3151	19.2876	6.0596	3.5858	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	46	46	23	0.0000	0.0000	0.0000	0.0000	0.0000
1.0454	15.0771	12.1072	8.4822	15.6341	36.6320	11.0221	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	47	47	17	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	1.1405	23.7013	9.6254	10.3692	37.4895	17.6742	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	48	48	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	3.6467	25.3825	7.7141	13.9808	19.2942	21.8805	8.1011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	49	49	18	0.0000	0.0000	0.2475	0.0000	0.0000
0.0000	0.0000	11.5687	20.6759	2.3019	0.0000	7.8811	10.4428	46.8821	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	50	50	17	0.0000	0.0000	0.0000	0.0000	0.0000
1.5902	8.2386	28.4288	15.8384	1.9813	34.2432	9.6795	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	1	0	0	1	51	51	62	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.1002	12.1790	10.3335	19.0401	38.5546	12.1864	7.6061	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	2	2	2	100.0000	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
1978	1	1	0	0	1	3	3	2	100.0000	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
1978	1	1	0	0	1	4	4	4	100.0000	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
1978	1	1	0	0	1	5	5	4	100.0000	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
1978	1	1	0	0	1	6	6	10	100.0000	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
1978	1	1	0	0	1	7	7	10	98.9750	1.0250	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
1978	1	1	0	0	1	8	8	9	98.3490	1.6510	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
1978	1	1	0	0	1	9	9	14	100.0000	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
1978	1	1	0	0	1	10	10	7	58.8246	41.1754	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
1978	1	1	0	0	1	11	11	4	86.2655	13.7345	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
1978	1	1	0	0	1	12	12	2	97.5982	2.4018	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
1978	1	1	0	0	1	13	13	3	70.5236	29.4764	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
1978	1	1	0	0	1	14	14	7	46.1926	53.8074	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
1978	1	1	0	0	1	15	15	2	74.2069	23.0689	1.9590	0.0000	0.0000
0.0000	0.7652	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	16	16	1	60.8946	20.3482	18.5923	0.1649	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
1978	1	1	0	0	1	17	17	3	51.2769	24.2535	23.6698	0.7998	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

1978	1	1	0	0	1	22	22	129	0.0000	41.0592	19.3237	34.1030	5.5142
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	34.2083	20.1949	41.1195	4.2760
1978	1	1	0	0	1	23	23	176	0.0000	20.0304	22.6900	51.0418	4.5108
0.2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	34.2083	20.1949	41.1195	4.2760
1978	1	1	0	0	1	24	24	171	0.0000	20.0304	22.6900	51.0418	4.5108
0.6021	1.1249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20.0304	22.6900	51.0418	4.5108
1978	1	1	0	0	1	25	25	158	0.0000	14.3774	19.2885	56.4600	6.1994
2.3597	0.7128	0.0000	0.0000	0.6022	0.0000	0.0000	0.0000	0.0000	0.0000	14.3774	19.2885	56.4600	6.1994
1978	1	1	0	0	1	26	26	165	0.0000	4.2908	12.5674	66.1397	12.2751
2.8114	1.9156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2908	12.5674	66.1397	12.2751
1978	1	1	0	0	1	27	27	148	0.0000	1.3330	8.5730	62.2963	8.2001
9.3331	8.8240	0.4230	1.0176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3330	8.5730	62.2963	8.2001
1978	1	1	0	0	1	28	28	144	0.0000	0.6368	5.9131	51.7811	10.4093
12.2047	18.3740	0.6809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6368	5.9131	51.7811	10.4093
1978	1	1	0	0	1	29	29	154	0.0000	0.0000	1.4291	42.1601	8.1269
21.5714	26.3262	0.0320	0.1693	0.1850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4291	42.1601	8.1269
1978	1	1	0	0	1	30	30	143	0.0000	0.0000	0.7408	30.0068	6.6298
20.6821	37.8254	3.4003	0.7147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7408	30.0068	6.6298
1978	1	1	0	0	1	31	31	147	0.0000	0.0000	0.0210	17.7822	5.1822
24.6946	43.1725	6.1325	3.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0210	17.7822	5.1822
1978	1	1	0	0	1	32	32	156	0.0000	0.0000	0.5226	6.7014	4.9582
26.0819	50.1408	8.5370	1.4712	1.0363	0.4169	0.1337	0.0000	0.0000	0.0000	0.0000	0.5226	6.7014	4.9582
1978	1	1	0	0	1	33	33	184	0.0000	0.0000	0.0000	8.4375	3.7199
19.4815	49.2595	13.1139	2.6051	2.7507	0.6320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.4375	3.7199
1978	1	1	0	0	1	34	34	178	0.0000	0.0000	0.0000	2.1094	1.2381
14.2679	53.1940	12.7013	9.7158	5.5027	1.0466	0.2242	0.0000	0.0000	0.0000	0.0000	0.0000	2.1094	1.2381
1978	1	1	0	0	1	35	35	186	0.0000	0.0000	0.0000	0.6479	1.2373
10.6758	42.2168	19.2058	19.6519	5.0413	1.2176	0.1056	0.0000	0.0000	0.0000	0.0000	0.0000	0.6479	1.2373
1978	1	1	0	0	1	36	36	176	0.0000	0.0000	0.0000	0.0000	0.4133
5.8335	44.4928	15.1620	17.4728	7.7444	4.2682	4.6131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4133
1978	1	1	0	0	1	37	37	156	0.0000	0.0000	0.0000	0.0985	0.7436
3.4055	37.8339	21.0622	18.3756	11.9138	2.2365	1.2134	3.1171	0.0000	0.0000	0.0000	0.0000	0.0000	0.7436
1978	1	1	0	0	1	38	38	115	0.0000	0.0000	0.0000	0.2417	0.7999
5.7688	27.2762	22.7972	17.3709	17.1460	7.3108	0.1622	1.1262	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	39	39	103	0.0000	0.0000	0.0000	0.0000	0.0000
1.3067	29.2208	25.3050	11.5186	18.2952	5.8494	6.6573	0.2396	1.6075	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	40	40	60	0.0000	0.0000	0.0000	0.0000	0.0000
11.8699	29.6259	21.7768	13.5358	5.1605	16.8897	0.8441	0.2973	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	41	41	60	0.0000	0.0000	0.0000	0.0000	0.0000
1.1535	19.9717	16.4503	26.9830	24.9810	2.6530	0.5189	6.7660	0.5225	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	42	42	45	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	31.9748	15.2065	14.0015	18.2134	12.7340	6.0837	1.7861	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	43	43	41	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	17.1970	22.0545	17.6622	18.2999	2.4744	18.9506	3.3614	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	44	44	27	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	16.2285	21.2574	28.3578	17.7912	3.1864	8.3541	4.8246	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	45	45	26	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	21.4406	5.9732	38.6484	18.1391	11.3181	4.4806	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	46	46	18	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	38.5317	3.0573	6.0480	29.0638	12.0131	1.7471	0.7029	8.8361	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	47	47	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	27.5601	21.9506	2.0744	11.6092	12.8396	9.5603	0.0000	14.4059	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	48	48	18	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	12.0434	5.9918	15.8819	52.8239	10.2369	0.0000	3.0222	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	49	49	13	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	13.2756	0.0000	0.0000	76.7316	0.9819	1.8313	3.1307	4.0489	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	50	50	10	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	2.4655	11.2512	9.2090	1.0001	56.8408	16.2329	3.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1978	1	1	0	0	1	51	51	60	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	1.0959	3.3073	11.7625	32.7537	12.1348	16.0179	15.9347	6.9931	0.0000	0.0000	0.0000	0.0000	0.0000
1979	1	1	0	0	1	51	51	1	1	100.0000	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
1979	1	1	0	0	1	6	6	1	1	100.0000	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
1979	1	1	0	0	1	7	7	2	2	100.0000	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
1979	1	1	0	0	1	8	8	2	2	100.0000	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
1979	1	1	0	0	1	9	9	4	4	37.4549	62.5451	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

1979	1	1	0	0	1	10	10	10	56.4297	43.5703	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	11	11	21	37.7220	62.2780	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	12	12	27	50.9072	48.0541	1.0387	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	13	13	30	48.6310	50.3018	1.0672	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	14	14	46	43.1019	56.3326	0.5654	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	15	15	33	50.6294	41.7595	7.6111	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	16	16	24	22.0489	74.5477	3.4035	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	17	17	17	1.7270	66.9432	31.3299	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	18	18	19	9.8575	77.9602	12.1823	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	19	19	12	22.6630	49.7456	26.0477	1.5437	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	20	20	11	3.6569	85.8906	10.4524	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	21	21	17	4.5028	54.0578	41.0475	0.3919	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	22	22	25	0.0000	15.2136	84.1714	0.0000	0.6149
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	23	23	36	0.0000	6.8053	81.8263	4.8729	6.4955
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	24	24	44	0.0000	3.8878	69.5035	8.4962	18.1126
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	25	25	65	0.0000	5.5350	38.5584	28.4802	24.0820
1.3265	1.8331	0.0000	0.0000	0.1849	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	26	26	72	0.0000	0.0000	26.3971	20.3836	47.2403
2.0032	3.9758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	27	27	74	0.0000	0.0000	14.6988	11.3878	63.7733
3.7284	5.3364	1.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	28	28	84	0.0000	0.0000	19.1513	13.8647	51.5776
2.5131	9.6805	3.2129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	29	29	83	0.0000	0.0000	4.4667	10.5735	52.4512
10.4265	15.9740	5.9515	0.1566	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	30	30	76	0.0000	0.0000	4.0555	7.3365	50.8283
7.5392	23.4677	6.4728	0.2999	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	31	31	83	0.0000	0.0000	1.8055	0.4565	31.9742
20.9162	28.9325	13.4488	2.4662	0.0000	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	32	32	89	0.0000	0.0000	1.7266	0.0370	25.2759
17.1383	38.8252	15.4785	1.0318	0.4868	0.0000	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	33	33	85	0.0000	0.0000	0.0000	1.4664	19.2499
12.1375	31.3405	24.2688	9.7544	0.3681	1.4144	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	34	34	86	0.0000	0.0000	1.8524	24.5045	
14.2241	29.3112	23.1349	5.3064	1.5195	0.1469	0.0000	0.0000	0.0000					
1979	1	1	0	0	1	35	35	78	0.0000	0.0000	0.0000	0.0462	5.5764
10.5366	38.2895	32.8987	3.7230	7.4132	0.1555	1.3609	0.0000	0.0000					
1979	1	1	0	0	1	36	36	70	0.0000	0.0000	0.0000	0.0000	6.4035
11.7156	29.4469	41.2412	6.2188	4.3501	0.0000	0.6240	0.0000	0.0000					
1979	1	1	0	0	1	37	37	66	0.0000	0.0000	0.0000	0.0000	7.4133
8.3199	24.8693	28.7462	13.9441	11.4646	3.0692	0.0394	2.1338	0.0000					
1979	1	1	0	0	1	38	38	58	0.0000	0.0000	0.0000	0.0000	2.6318
11.5198	10.7464	48.4410	12.6860	9.3651	2.1449	0.1687	0.0000	2.2964					
1979	1	1	0	0	1	39	39	41	0.0000	0.0000	0.0000	0.0000	2.9299
6.3921	9.4858	49.0281	21.0317	2.8837	2.0813	6.1674	0.0000	0.0000					
1979	1	1	0	0	1	40	40	47	0.0000	0.0000	0.0000	3.3877	3.7358
2.1002	21.4652	18.3884	10.2626	6.6324	22.4429	4.6302	6.9545	0.0000					
1979	1	1	0	0	1	41	41	22	0.0000	0.0000	0.0000	0.0000	1.2984
0.0000	12.0910	26.7106	17.3922	27.6139	12.3790	2.5149	0.0000	0.0000					
1979	1	1	0	0	1	42	42	26	0.0000	0.0000	0.0000	2.6431	0.0000
4.0869	32.1972	14.7386	31.3907	8.8480	0.3074	0.0000	5.7881	0.0000					
1979	1	1	0	0	1	43	43	16	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	7.7284	17.7831	45.4167	16.5623	0.3584	12.1511	0.0000	0.0000					
1979	1	1	0	0	1	44	44	12	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	16.2501	40.0104	12.0289	19.8775	0.0000	11.8331	0.0000	0.0000					

1979	1	1	0	0	1	45	45	8	0.0000	0.0000	17.0985	0.0000	0.0000
0.0000	0.0000	19.6632	41.1278	0.0000	5.3357	0.0000	16.5493	0.2255					
1979	1	1	0	0	1	46	46	13	0.0000	0.0000	5.3702	0.0000	0.0000
0.0000	9.5997	13.4674	25.6850	18.4811	11.4694	10.4535	5.4737	0.0000					
1979	1	1	0	0	1	47	47	11	0.0000	0.0000	0.0000	13.6427	0.0000
0.0000	0.0000	2.2006	2.4067	59.3447	9.4986	12.9067	0.0000	0.0000					
1979	1	1	0	0	1	48	48	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	67.0219	19.3341	0.0000	0.0000	0.0000	0.0000	13.6441					
1979	1	1	0	0	1	49	49	8	0.0000	0.0000	7.9528	0.0000	0.0000
0.0000	0.0000	5.6338	65.6897	14.5545	0.0000	0.0000	4.3762	1.7930					
1979	1	1	0	0	1	50	50	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	37.7964	0.0000	12.2037	0.0000					
1979	1	1	0	0	1	51	51	16	0.0000	0.0000	6.4763	0.0000	0.0000
0.0000	0.1076	0.0000	8.1230	20.5851	4.0649	16.5860	15.5592	28.4979					
1980	1	1	0	0	1	1	1	1	100.0000	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					
1980	1	1	0	0	1	2	2	3	100.0000	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					
1980	1	1	0	0	1	3	3	2	100.0000	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					
1980	1	1	0	0	1	4	4	1	100.0000	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					
1980	1	1	0	0	1	5	5	2	48.6287	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	51.3713	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	6	6	1	100.0000	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					
1980	1	1	0	0	1	8	8	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	9	9	1	0.0000	0.0000	0.0000	100.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	10	10	1	100.0000	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					
1980	1	1	0	0	1	11	11	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	13	13	3	0.0000	90.9031	0.0000	0.0000	0.0000
0.0000	0.0000	9.0969	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	14	14	4	0.0000	85.2727	0.0000	3.1730	11.5543
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	15	15	9	5.0945	94.6274	0.2781	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	16	16	19	42.2098	57.5786	0.2116	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	17	17	38	0.2384	91.9161	7.8455	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	18	18	66	0.0000	98.6346	1.3654	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	19	19	74	7.4359	89.6295	2.9346	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	20	20	84	0.0000	94.7616	4.4731	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.7654	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	21	21	89	0.0000	81.5264	13.9646	0.4763	1.1188
2.9139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	22	22	83	0.0000	88.8257	7.2840	2.1929	0.2252
1.4722	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	23	23	93	0.4081	57.6571	37.5236	3.1275	0.1565
1.1272	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	24	24	88	0.0000	55.4872	16.0974	8.1475	8.8696
7.5864	2.7762	0.0000	1.0356	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	25	25	100	0.0000	44.4977	12.9589	18.9812	8.0987
9.9118	4.9173	0.3506	0.2839	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	26	26	111	0.0000	27.9088	5.2943	33.8362	13.7390
12.3223	3.3534	3.1531	0.2043	0.1815	0.0071	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	27	27	114	0.0000	12.5535	8.8142	30.6808	21.2714
17.9931	5.4085	3.2786	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	28	28	96	0.0000	1.8410	4.4095	22.7725	22.2881
36.4027	3.6013	6.2571	2.3669	0.0610	0.0000	0.0000	0.0000	0.0000					
1980	1	1	0	0	1	29	29	90	0.0000	3.4369	9.6124	18.4343	
39.2499	12.4947	10.5384	4.9934	0.9822	0.0000	0.0000	0.2578	0.0000					
1980	1	1	0	0	1	30	30	85	0.0000	0.4576	1.3147	17.1273	20.3037
24.6464	10.8454	18.1444	5.8858	1.2514	0.0000	0.0233	0.0000	0.0000					

1980	1	1	0	0	1	31	31	90	0.0000	0.0000	0.0000	5.9136	13.3633
39.8685	12.2295	17.2727	8.9396	1.0726	0.2696	0.6777	0.3928	0.0000					
1980	1	1	0	0	1	32	32	87	0.0000	1.3266	0.0000	2.8802	11.0404
28.3622	11.8162	29.0913	11.7644	0.6189	1.8765	0.8707	0.3525	0.0000					
1980	1	1	0	0	1	33	33	92	0.0000	1.2676	1.4202	1.7054	4.8358
21.0876	21.3745	26.6807	12.4655	5.1797	1.4843	2.0392	0.0048	0.4548					
1980	1	1	0	0	1	34	34	94	0.0000	0.8256	0.0000	0.0399	3.7952
47.7201	13.6294	11.5466	15.1674	3.5725	0.9214	1.4817	0.0000	1.3002					
1980	1	1	0	0	1	35	35	105	0.0000	0.0000	0.0000	2.6990	1.7207
21.2313	19.8732	20.3707	22.5670	5.8453	3.1737	1.0615	0.4979	0.9596					
1980	1	1	0	0	1	36	36	102	0.0000	0.0000	0.0000	1.2687	2.3019
27.4757	9.1708	23.8392	21.2979	8.1179	3.1566	2.9142	0.1166	0.3405					
1980	1	1	0	0	1	37	37	102	0.0000	0.0000	0.0000	0.0000	1.2532
7.5417	9.7044	34.6656	21.0506	13.1736	2.8780	3.7439	2.3504	3.6386					
1980	1	1	0	0	1	38	38	102	0.0000	0.0000	0.0000	0.0000	0.7164
35.0095	16.3949	19.7012	16.9026	1.2360	3.2035	4.4931	1.0150	1.3278					
1980	1	1	0	0	1	39	39	88	0.0000	0.0000	0.0000	0.0000	0.0000
5.4797	13.8540	7.9478	39.6788	16.8573	7.3679	4.1428	2.0821	2.5895					
1980	1	1	0	0	1	40	40	52	0.0000	0.0000	0.0000	0.0000	0.0000
9.3405	6.9539	12.3348	56.8865	5.0456	2.8647	1.8415	2.2197	2.5128					
1980	1	1	0	0	1	41	41	60	0.0000	0.0000	0.0000	0.0000	0.1554
0.8296	1.4621	6.7293	34.6049	26.5221	19.9466	8.1721	0.0000	1.5779					
1980	1	1	0	0	1	42	42	39	0.0000	0.0000	0.0000	0.0000	0.0000
0.0121	2.1368	1.8770	22.7806	7.6152	57.2506	8.1670	0.0000	0.1606					
1980	1	1	0	0	1	43	43	27	0.0000	0.0000	0.0000	0.0000	0.0000
1.4970	5.8963	2.8093	27.9958	8.0111	2.7548	18.6132	13.5920	18.8305					
1980	1	1	0	0	1	44	44	25	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	28.9487	6.4452	17.0357	20.9010	12.2106	3.8174	9.6419	0.9994					
1980	1	1	0	0	1	45	45	26	0.0000	0.0000	0.0000	0.0000	0.0000
2.3335	2.6961	18.9152	19.0996	20.5074	12.5063	10.5755	10.1536	3.2130					
1980	1	1	0	0	1	46	46	19	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	40.7660	16.5690	3.0644	14.2193	25.3813	0.0000	0.0000					
1980	1	1	0	0	1	47	47	12	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	2.3972	58.0744	0.0000	15.6373	23.8911	0.0000	0.0000					
1980	1	1	0	0	1	48	48	11	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	16.1640	50.9516	6.8931	22.0555	0.0000	3.9061	0.0297					
1980	1	1	0	0	1	49	49	9	0.0000	0.0000	0.0000	0.0000	0.0000
5.0794	0.0000	18.1303	18.1080	0.0000	12.4880	3.0087	43.1856	0.0000					
1980	1	1	0	0	1	50	50	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	1.0735	23.6016	35.1162	0.0000	0.0000	0.0000	40.2087					
1980	1	1	0	0	1	51	51	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.4581	0.0000	28.1292	56.5101	0.0000	2.7448	12.1578					
1981	1	1	0	0	1	51	1	5	100.0000	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					
1981	1	1	0	0	1	52	2	9	100.0000	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					
1981	1	1	0	0	1	53	3	13	100.0000	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					
1981	1	1	0	0	1	54	4	23	100.0000	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					
1981	1	1	0	0	1	55	5	25	100.0000	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					
1981	1	1	0	0	1	56	6	29	100.0000	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					
1981	1	1	0	0	1	57	7	40	100.0000	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					
1981	1	1	0	0	1	58	8	34	100.0000	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					
1981	1	1	0	0	1	59	9	22	100.0000	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					
1981	1	1	0	0	1	60	10	21	100.0000	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					
1981	1	1	0	0	1	61	11	16	100.0000	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					
1981	1	1	0	0	1	62	12	12	94.1489	5.8511	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	63	13	13	38.2230	61.7770	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	64	14	14	33.8614	66.1386	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1981	1	1	0	0	1	15	15	12	1.7329	97.2736	0.9935	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	16	16	16	27.5861	46.9726	25.4413	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	17	17	28	12.8881	55.6901	31.0864	0.3355	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	18	18	49	10.8798	24.9356	64.1845	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	19	19	59	3.4170	15.8602	80.7228	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	20	20	78	0.8869	15.5085	83.6046	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	21	21	94	0.1186	9.8116	89.3495	0.7203	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	22	22	84	0.0000	3.6354	95.9503	0.4143	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	23	23	85	0.0000	1.0779	98.1307	0.6339	0.1575
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	24	24	88	0.0000	0.6993	95.0383	1.9293	2.3330
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	25	25	101	0.0000	0.9004	91.4056	2.9971	1.4665
1.2684	0.1582	1.8036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	26	26	101	0.0000	0.0000	83.8204	4.6664	9.6795
0.1385	1.6952	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	27	27	107	0.0000	0.0000	61.6047	8.1335	7.9404
3.2465	15.6315	0.2699	2.6072	0.5663	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	28	28	114	0.0000	0.0000	39.2556	4.4370	14.5936
11.5599	23.8495	3.1361	2.4981	0.6702	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	29	29	122	0.0000	0.0000	22.0472	6.5778	14.8068
13.2376	26.7541	6.0124	6.1018	4.1646	0.0000	0.2978	0.0000	0.0000					
1981	1	1	0	0	1	30	30	122	0.0000	0.0000	10.1189	6.3685	8.0832
12.6932	34.4634	12.6683	10.4075	5.1971	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	31	31	105	0.0000	0.0000	6.1426	0.3342	9.6340
15.2238	27.9564	13.6163	16.3522	10.7404	0.0000	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	32	32	113	0.0000	0.0000	0.1919	0.1387	10.4877
14.8255	44.5625	10.1516	13.1920	5.0023	1.3708	0.0769	0.0000	0.0000					
1981	1	1	0	0	1	33	33	107	0.0000	0.0000	0.0000	0.5156	4.4997
11.5439	42.7883	21.0876	7.9721	10.7050	0.8501	0.0377	0.0000	0.0000					
1981	1	1	0	0	1	34	34	116	0.0000	0.0000	0.0000	0.5355	6.2752
7.8308	35.2225	17.6969	6.9920	23.7630	0.4386	0.7099	0.5356	0.0000					
1981	1	1	0	0	1	35	35	96	0.0000	0.0000	0.0000	0.0000	1.0550
11.4248	44.3976	9.8853	13.9048	16.7798	1.6998	0.0000	0.1198	0.7332					
1981	1	1	0	0	1	36	36	80	0.0000	0.0000	0.0000	0.0000	3.1439
13.3813	12.2466	15.5499	17.0550	36.6969	0.7187	0.1860	1.0217	0.0000					
1981	1	1	0	0	1	37	37	65	0.0000	0.0000	0.0000	0.0000	9.1529
1.1279	21.0040	18.0610	31.0203	15.6254	2.2255	0.2188	0.0000	1.5641					
1981	1	1	0	0	1	38	38	56	0.0000	0.0000	0.0000	0.0000	12.1190
0.0000	6.2235	1.8690	7.0319	48.9987	18.3078	4.3469	1.0865	0.0167					
1981	1	1	0	0	1	39	39	39	0.0000	0.0000	0.0000	0.0000	11.6065
0.0000	10.1695	33.9137	4.1554	26.8407	2.9517	6.5072	3.5984	0.2569					
1981	1	1	0	0	1	40	40	34	0.0000	0.0000	0.0000	0.0000	1.0849
0.6052	20.5654	9.7394	9.0427	53.8155	1.7940	2.9225	0.0000	0.4303					
1981	1	1	0	0	1	41	41	36	0.0000	0.0000	0.0000	0.0000	2.5406
0.0000	4.7108	6.0604	2.5295	13.4537	54.2586	8.9983	2.5648	4.8834					
1981	1	1	0	0	1	42	42	30	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	13.4455	5.6128	8.8575	51.5736	6.7607	2.4209	11.1768	0.1522					
1981	1	1	0	0	1	43	43	20	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	1.3812	3.7989	19.0748	21.1406	15.3170	36.3729	0.0000	2.9145					
1981	1	1	0	0	1	44	44	20	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	2.9910	0.1495	0.0000	90.5396	0.7718	2.4062	2.5088	0.6332					
1981	1	1	0	0	1	45	45	16	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	24.6494	37.0664	9.9647	19.0099	7.7834	0.9554	0.0000	0.5707					
1981	1	1	0	0	1	46	46	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	64.5473	0.0000	0.6646	2.6846	31.7632	0.0190	0.3213	0.0000					
1981	1	1	0	0	1	47	47	10	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	1.4485	1.3736	41.1394	49.6614	5.7853	0.5919	0.0000	0.0000					
1981	1	1	0	0	1	48	48	10	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	70.2031	22.9640	3.1021	3.7308	0.0000	0.0000	0.0000					
1981	1	1	0	0	1	49	49	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	29.3855	0.0000	59.6623	0.0000	0.0000	0.0000	10.9522						

1981	1	1	0	0	1	50	50	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	97.2362	0.0000	0.4102	0.0000	1.2558	1.0977	0.0000					
1981	1	1	0	0	1	51	51	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	12.0478	52.5152	20.6271	5.3696	9.4404					
1982	1	1	0	0	1	5	5	2	100.0000	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					
1982	1	1	0	0	1	6	6	5	100.0000	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					
1982	1	1	0	0	1	7	7	11	100.0000	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					
1982	1	1	0	0	1	8	8	9	100.0000	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					
1982	1	1	0	0	1	9	9	12	97.9904	2.0096	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	10	10	18	100.0000	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					
1982	1	1	0	0	1	11	11	37	100.0000	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					
1982	1	1	0	0	1	12	12	38	98.9879	1.0121	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	13	13	52	100.0000	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					
1982	1	1	0	0	1	14	14	62	100.0000	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					
1982	1	1	0	0	1	15	15	66	98.5704	0.6063	0.8233	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	16	16	62	98.4006	0.4470	1.1525	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	17	17	55	94.3115	5.6885	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	18	18	59	78.4510	18.0130	0.0000	3.5359	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	19	19	48	62.3397	31.7648	2.0087	3.8868	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	20	20	50	46.9875	37.3804	5.9354	8.0123	1.6844
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	21	21	62	9.9694	23.7130	6.2402	58.7764	1.3010
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	22	22	66	2.2336	20.2780	17.4804	55.6042	3.7715
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6322					
1982	1	1	0	0	1	23	23	86	0.5766	9.5805	5.5073	78.7020	4.9504
0.0000	0.6831	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	24	24	94	0.0000	5.2427	3.3467	85.2920	3.9317
0.5515	0.0000	1.6355	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	25	25	99	0.0000	0.7352	2.1970	92.6498	3.8144
0.6036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	26	26	100	0.0000	0.6469	3.2197	89.4656	3.8542
0.8166	0.6410	0.6986	0.0000	0.3787	0.0000	0.0000	0.0000	0.2786					
1982	1	1	0	0	1	27	27	99	0.0000	0.0000	0.7499	82.0131	6.9586
2.5486	1.4822	4.5580	0.6270	0.0000	0.3946	0.0000	0.0000	0.6680					
1982	1	1	0	0	1	28	28	103	0.0000	0.0000	0.3788	77.9100	7.9181
3.6832	3.5066	6.6033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	29	29	111	0.0000	0.0000	0.0000	46.9972	16.5576
8.2504	6.2780	16.8904	2.4074	2.6189	0.0000	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	30	30	116	0.0000	0.0000	1.3613	47.8803	10.2615
9.9402	9.5507	17.5775	0.3960	1.4957	0.9236	0.0000	0.0000	0.6133					
1982	1	1	0	0	1	31	31	101	0.0000	0.0000	0.0000	34.7691	7.4641
13.8050	7.6648	23.3964	5.5656	1.2368	6.0981	0.0000	0.0000	0.0000					
1982	1	1	0	0	1	32	32	112	0.0000	0.0000	0.0000	16.5933	3.5340
15.2245	11.8911	27.6656	7.5737	5.4478	11.6595	0.4107	0.0000	0.0000					
1982	1	1	0	0	1	33	33	100	0.0000	0.0000	0.0000	11.5466	3.8546
10.6115	13.6971	29.2288	6.0096	4.8190	18.4538	1.7790	0.0000	0.0000					
1982	1	1	0	0	1	34	34	106	0.0000	0.0000	0.0000	4.4072	0.5484
13.8186	17.3717	32.8207	10.7374	6.9145	10.5590	0.6058	0.5274	1.6894					
1982	1	1	0	0	1	35	35	104	0.0000	0.0000	0.0000	3.7007	2.0055
11.5943	5.7285	34.3375	10.2167	8.0253	23.8216	0.0000	0.0000	0.5700					
1982	1	1	0	0	1	36	36	86	0.0000	0.0000	0.0000	0.7740	0.6679
5.0666	23.4578	29.0983	5.1988	14.0409	19.5953	1.6955	0.0000	0.4049					
1982	1	1	0	0	1	37	37	85	0.0000	0.0000	0.0000	0.6837	1.3018
5.5782	8.0935	24.7073	3.6967	5.7182	48.3121	0.8577	0.5244	0.5265					

1982	1	1	0	0	1	38	38	81	0.0000	0.0000	0.0000	0.5976	3.5871
13.0628	4.2651	28.0879	4.7963	20.3296	18.5667	5.0823	1.6247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	39	39	48	0.0000	0.0000	0.0000	0.0000	0.0000
4.1946	5.3389	25.7048	8.2842	26.3270	20.5459	5.2781	0.0000	4.3264	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	40	40	53	0.0000	0.0000	0.0000	0.0000	0.0000
8.1501	8.7201	36.1601	12.1317	9.8521	21.8858	0.3130	1.6155	1.1717	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	41	41	37	0.0000	0.0000	0.0000	0.0000	0.0000
9.9974	0.2466	44.1838	7.6383	4.9558	25.8561	0.0000	4.5958	2.5263	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	42	42	28	0.0000	0.0000	0.0000	0.0000	0.0000
1.5550	7.1392	24.9344	0.0000	14.6880	41.7864	0.0000	0.0000	9.8970	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	43	43	17	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	17.0232	1.3540	2.9755	68.8525	9.7948	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	44	44	21	0.0000	0.0000	0.0000	0.0000	0.0000
1.5939	2.2983	61.0117	3.1181	5.4055	7.5778	15.7641	3.2306	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	45	45	21	0.0000	0.0000	0.0000	0.0000	0.0000
1.7819	7.1157	9.2623	0.0000	4.3341	52.9252	4.5995	16.1694	3.8119	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	46	46	18	0.0000	0.0000	0.0000	0.0000	0.0000
6.6512	0.0000	32.6097	0.0000	4.5417	48.9098	7.2876	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	47	47	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	2.2843	7.9569	50.3492	30.1938	9.2158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	48	48	10	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	6.2427	0.0000	43.7270	50.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	49	49	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	1.6185	0.0000	0.0000	87.4692	0.0000	0.0000	10.9124	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	50	50	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	25.8082	50.7283	0.0000	16.3325	7.1310	0.0000	0.0000	0.0000	0.0000	0.0000
1982	1	1	0	0	1	51	51	14	5.6776	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	1.2189	9.8107	39.2829	6.0371	17.4085	20.5644	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	1	0	0	1	7	7	1	0.0000	100.0000	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
1983	1	1	0	0	1	10	10	6	0.0000	100.0000	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
1983	1	1	0	0	1	11	11	10	0.0000	100.0000	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
1983	1	1	0	0	1	12	12	11	0.0000	100.0000	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
1983	1	1	0	0	1	13	13	23	0.0000	97.5478	2.4522	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	95.9864	4.0136	0.0000	0.0000
1983	1	1	0	0	1	14	14	23	0.0000	94.8162	4.0641	0.0000	1.1197
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
1983	1	1	0	0	1	15	15	35	0.0000	99.2795	0.7205	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	95.7910	4.2090	0.0000	0.0000
1983	1	1	0	0	1	16	16	39	0.0000	90.7181	8.4097	0.8722	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	92.6787	7.3213	1.2873	0.0000
1983	1	1	0	0	1	17	17	51	0.0000	84.7834	9.7092	2.8952	2.6122
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	76.4043	12.0019	2.2435	9.3503
1983	1	1	0	0	1	20	20	58	0.0000	90.5170	8.1957	1.2873	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	60.1477	17.2718	1.2158	19.3830
1983	1	1	0	0	1	21	21	62	0.0000	41.0145	14.5683	10.5069	32.3868
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	23.2105	9.9221	10.6123	50.9668
1983	1	1	0	0	1	24	24	72	0.0000	2.5471	2.7064	4.1431	72.1073
5.1893	0.0000	0.0361	0.0630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5639	3.2155	4.1992	9.7005
1983	1	1	0	0	1	26	26	69	0.0000	11.0450	2.3200	4.6987	73.7100
3.2607	4.3030	0.5759	0.0315	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	1.5234	0.0000	0.0000	0.0000
1983	1	1	0	0	1	27	27	75	0.0000	1.5427	0.7439	3.3269	79.0185
4.7000	2.3639	3.2155	4.1992	0.8893	0.0000	0.0000	0.0000	0.0000	0.0000	10.5212	3.7663	6.9575	3.7893
1983	1	1	0	0	1	28	28	74	0.0000	1.5427	0.7439	3.3269	79.0185
9.7005	2.3012	0.3373	4.1848	0.7059	0.7256	0.5408	0.0000	0.0000	0.0000	1983	1	1	0
1983	1	1	0	0	1	29	29	70	0.0000	2.7818	1.5088	3.5878	64.3051

1983	1	1	0	0	1	30	30	69	0.0000	1.6271	0.0000	1.8599	41.6911
6.8924	5.8083	16.0416	16.3715	3.7918	2.8433	3.0731	0.0000	0.0000					
1983	1	1	0	0	1	31	31	71	0.0000	0.0000	0.0000	1.1830	45.9298
8.1839	11.4912	11.9391	9.8159	7.6836	3.5098	0.0000	0.2638	0.0000					
1983	1	1	0	0	1	32	32	59	0.0000	0.0000	0.0000	0.3797	25.3145
10.8359	11.5253	10.7074	23.0377	0.6550	0.8205	14.8267	0.4741	1.4231					
1983	1	1	0	0	1	33	33	66	0.0000	0.0000	0.0000	0.6805	36.1631
11.5615	7.3976	15.6277	11.3089	5.5881	1.2734	10.3993	0.0000	0.0000					
1983	1	1	0	0	1	34	34	66	0.0000	0.0000	0.0000	0.8689	16.8735
25.4494	13.9941	11.4711	18.7969	7.4435	0.6932	4.4094	0.0000	0.0000					
1983	1	1	0	0	1	35	35	61	0.0000	0.4272	0.0000	0.5981	5.8048
5.7328	10.1190	10.4327	35.1549	3.8242	22.2095	3.6126	2.0840	0.0000					
1983	1	1	0	0	1	36	36	57	0.0000	0.0000	0.0000	0.0000	12.7828
1.8710	15.0597	9.4654	30.2074	8.1324	11.3522	9.0331	0.0000	2.0960					
1983	1	1	0	0	1	37	37	44	0.0000	0.0000	0.0000	0.0000	6.7639
1.3306	11.6097	22.8571	38.6396	12.6023	5.4708	0.7258	0.0000	0.0000					
1983	1	1	0	0	1	38	38	32	0.0000	0.0000	0.0000	0.0000	5.2981
6.5382	4.4551	11.4930	35.6330	15.4808	10.4283	4.0303	4.3750	2.2682					
1983	1	1	0	0	1	39	39	32	0.0000	0.0000	0.0000	0.0000	2.5859
3.5385	13.8379	17.5078	25.5945	7.1871	8.4378	12.9156	8.3949	0.0000					
1983	1	1	0	0	1	40	40	17	0.0000	0.0000	0.0000	0.0000	3.1067
0.0000	8.6783	22.4567	40.0804	6.4602	3.0897	3.1106	13.0174	0.0000					
1983	1	1	0	0	1	41	41	22	0.0000	0.0000	0.0000	0.0000	1.8142
6.4691	8.7743	21.8172	45.5021	4.7278	0.9261	9.8811	0.0000	0.0881					
1983	1	1	0	0	1	42	42	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	7.3012	0.0000	19.8526	11.5785	1.5874	34.2770	23.9713	1.4318					
1983	1	1	0	0	1	43	43	9	0.0000	0.0000	0.0000	0.0000	27.8276
0.0000	0.0000	3.9966	25.9397	21.8071	10.0854	10.3435	0.0000	0.0000					
1983	1	1	0	0	1	44	44	12	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	7.6942	8.6178	30.1768	45.6177	7.8935	0.0000					
1983	1	1	0	0	1	45	45	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	10.9423	0.0000	32.8370	49.9380	0.0000	6.2828	0.0000	0.0000					
1983	1	1	0	0	1	46	46	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	7.2145	61.4945	0.0000	31.2910	0.0000	0.0000	0.0000					
1983	1	1	0	0	1	47	47	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	5.6758	0.0000	6.6186	0.0000	78.4857	0.0000	9.2200						
1983	1	1	0	0	1	48	48	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	54.9134	23.8862	10.5067	10.6937	0.0000	0.0000						
1983	1	1	0	0	1	49	49	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	17.4201	15.2732	0.0000	35.0731	19.2894	0.0000	12.9441					
1983	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1983	1	1	0	0	1	51	51	12	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	1.9721	9.9753	31.8084	3.9705	8.5778	36.5148	7.1812					
1984	1	1	0	0	1	8	8	1	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	12	12	3	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	13	13	1	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	14	14	2	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	15	15	6	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	16	16	12	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	17	17	25	0.0000	3.2983	96.7017	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	18	18	41	0.0000	1.9622	98.0378	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	19	19	72	0.0000	1.6140	97.3894	0.8964	0.1001
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	20	20	112	0.0000	2.1496	95.6482	2.2021	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	21	21	121	0.0000	0.9496	94.7333	4.3171	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	22	22	135	0.0000	1.2447	93.6581	4.8753	0.0000
0.2220	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1984	1	1	0	0	1	23	23	125	0.0000	0.0000	94.6344	3.5122	0.8290
1.0244	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1984	1	1	0	0	1	24	24	112	0.0000	0.0000	85.8425	8.8225	2.1728
3.1623	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	76.1002	7.5489	8.0232
1984	1	1	0	0	1	25	25	93	0.0000	0.0000	58.8511	5.9328	8.2557
8.3276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	64.3301	35.6699	0.0000
1984	1	1	0	0	1	26	26	82	0.0000	0.0000	28.5562	10.3480	17.0380
24.7285	2.2319	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13.9624	9.7794	21.4070
1984	1	1	0	0	1	27	27	83	0.0000	0.0000	4.8885	2.4817	22.9699
39.9494	3.0863	0.0000	1.0221	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.1288	0.0000	0.0000
1984	1	1	0	0	1	28	28	74	0.0000	0.0000	3.9832	0.1415	10.2103
46.5562	2.8905	1.1703	0.0000	2.4039	0.0000	0.0000	1.8303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	29	29	67	0.0000	0.0000	2.1882	1.1627	13.7039
57.3095	7.2801	1.3959	1.5691	2.1053	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	30	30	66	0.0000	0.0000	0.0000	0.0000	0.0000
71.3292	6.4062	4.5686	1.1362	2.2247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	31	31	50	0.0000	0.0000	0.0000	0.0000	0.0000
45.9393	15.9119	3.8382	6.2286	7.5442	0.0000	3.4830	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	32	32	49	0.0000	0.0000	0.0000	0.0000	0.0000
41.9724	9.3841	7.3439	9.8482	11.9281	0.8791	1.9444	7.1288	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	33	33	43	0.0000	0.0000	0.0000	0.0000	0.0000
40.3123	9.1091	5.9564	4.9541	19.4442	0.0000	9.8918	5.6096	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	34	34	28	0.0000	0.0000	0.0000	0.0000	0.0000
22.4547	17.0781	11.6577	12.6528	15.4162	0.0000	0.0000	11.3360	9.4044	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	35	35	20	0.0000	0.0000	0.0000	0.0000	0.0000
17.2943	5.3151	25.9165	3.1594	41.7931	0.0000	0.0000	6.5216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	36	36	11	0.0000	0.0000	0.0000	0.0000	0.0000
5.8098	17.5670	26.2206	1.0763	0.0000	24.9662	24.3602	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	8.6490	9.5849	50.6884	8.5495	22.5282	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	38	38	5	0.0000	0.0000	0.0000	0.0000	0.0000
7.2878	0.0000	9.5434	29.5302	0.0000	0.0000	50.1773	3.4613	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	39	39	4	0.0000	0.0000	0.0000	0.0000	0.0000
70.6928	13.1832	0.0000	11.0028	0.0000	5.1212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	40	40	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	25.6315	0.0000	6.7051	35.8468	12.3954	0.0000	19.4211	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	41	41	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	15.4736	15.4736	0.0000	0.0000	69.0528	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	43	43	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	96.4659	0.0000	3.5341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	44	44	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	59.5023	28.9483	0.0000	11.5494	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	45	45	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	44.8431	55.1569	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	49	49	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	47.1264	52.8736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	50	50	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	71.7554	0.0000	0.0000	28.2446	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1984	1	1	0	0	1	51	51	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	7.3897	13.0868	0.0000	29.3454	2.7410	3.4597	36.8766	7.1008	0.0000	0.0000	0.0000	0.0000	0.0000
1985	1	1	0	0	1	7	7	1	100.0000	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
1985	1	1	0	0	1	9	9	1	100.0000	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
1985	1	1	0	0	1	10	10	2	100.0000	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
1985	1	1	0	0	1	11	11	1	100.0000	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
1985	1	1	0	0	1	12	12	3	100.0000	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
1985	1	1	0	0	1	13	13	3	100.0000	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
1985	1	1	0	0	1	14	14	3	64.3301	35.6699	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
1985	1	1	0	0	1	15	15	2	100.0000	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
1985	1	1	0	0	1	16	16	1	100.0000	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

1985	1	1	0	0	1	17	17	1	100.0000	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					
1985	1	1	0	0	1	18	18	2	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	19	19	7	4.9113	33.6362	0.0000	61.4525	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	20	20	16	0.0000	0.0000	21.2589	78.7411	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	21	21	43	0.6274	0.1817	27.1075	69.0188	3.0646
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	22	22	78	0.0000	0.0000	14.4384	76.7545	8.8071
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	23	23	107	0.0000	0.0000	12.9545	83.5932	3.4523
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	24	24	121	0.0000	0.0000	8.5546	88.6021	2.5742
0.2690	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	25	25	124	0.0000	0.0000	3.9961	89.7364	6.2003
0.0672	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	26	26	115	0.0000	0.0000	2.3387	88.6879	6.4600
0.9930	1.5205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	27	27	101	0.0000	0.0000	1.0296	80.0792	9.9326
4.9880	3.9706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	28	28	79	0.0000	0.0000	0.9827	61.6474	10.3871
15.2938	11.6891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	29	29	63	0.0000	0.0000	0.0000	41.5022	24.1526
17.8557	16.1533	0.3363	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	30	30	58	0.0000	0.0000	0.0000	29.5440	16.5183
17.8796	34.1454	1.9127	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	31	31	52	0.0000	0.0000	0.0000	15.1122	13.5739
15.4814	50.7642	4.7016	0.0084	0.0000	0.3583	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	32	32	25	0.0000	0.0000	0.0000	4.4790	24.6862
8.7998	54.3793	0.0000	5.1079	0.0000	2.5479	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	33	33	24	0.0000	0.0000	0.0000	0.0000	0.0000
15.8630	66.9781	1.3128	4.1447	11.7015	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	34	34	17	0.0000	0.0000	0.0000	0.0000	16.1168
29.9989	38.7397	0.0000	5.4183	9.7263	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	35	35	15	0.0000	0.0000	0.0000	0.0000	0.0000
9.0182	50.5774	20.5277	11.5148	0.0000	8.3619	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	36	36	11	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	39.8294	35.8073	18.3288	4.8177	1.2168	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	37	37	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	14.0538	0.0000	0.0000	67.0945	18.8517	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	6.6840	93.3160	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	10.4694	0.0000	51.1219	38.4087	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1985	1	1	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000					
1986	1	1	0	0	1	5	5	1	100.0000	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					
1986	1	1	0	0	1	10	10	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	11	11	5	79.8566	20.1434	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	12	12	8	83.6901	9.8684	0.0000	0.0000	6.4415
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	13	13	19	74.7533	25.2467	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	14	14	22	89.5239	10.4761	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	15	15	49	89.2371	10.3292	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.4337	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	16	16	41	93.1547	6.8453	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	17	17	42	89.9281	10.0719	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1986	1	1	0	0	1	18	18	40	76.5963	20.2151	2.2675	0.0000	0.9210
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	19	19	39	53.4605	36.1108	4.3440	2.3386	3.7462
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	20	20	36	21.6803	20.6794	7.9408	0.0000	48.1011
1.5984	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	21	21	51	9.6723	12.4527	0.0000	4.1529	71.8026
1.9195	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	22	22	85	1.4255	5.6884	4.2855	9.6279	74.6979
4.0753	0.1994	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	23	23	114	0.0000	1.6172	1.3752	6.3261	82.6503
7.4612	0.5700	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	24	24	119	0.0000	0.0000	0.0000	1.3223	7.5530
7.3691	0.2965	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	25	25	110	0.0000	0.7320	0.0000	3.8499	86.8785
6.1391	2.0014	0.3991	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	26	26	113	0.0000	0.0000	0.6440	3.8806	79.3400
9.9877	4.3877	1.7600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	27	27	105	0.0000	0.0000	0.0000	0.0000	3.9243
9.6030	4.6696	4.8636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	28	28	100	0.0000	0.0000	0.0000	0.4966	68.6065
11.7330	8.6686	10.4954	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	29	29	83	0.0000	0.0000	0.8714	0.5444	51.1067
17.3212	13.1685	15.3556	0.7044	0.9279	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	30	30	67	0.0000	0.0000	0.0000	0.0000	41.5502
14.6979	17.0642	23.4513	1.8469	1.3895	0.0000	0.0000	0.0000	0.0000					
1986	1	1	0	0	1	31	31	77	0.0000	0.0000	0.0000	0.0000	24.5191
12.6599	19.1573	38.1992	3.4464	1.2981	0.0000	0.7199	0.0000	0.0000					
1986	1	1	0	0	1	32	32	59	0.0000	0.0000	0.0000	0.0000	21.6392
15.0053	8.9895	41.7254	3.7693	3.6423	1.4189	2.4577	0.5267	0.8258					
1986	1	1	0	0	1	33	33	51	0.0000	0.0000	0.0000	0.0000	8.6797
6.4045	11.4791	42.7597	13.7679	8.0785	5.6347	3.1959	0.0000	0.0000					
1986	1	1	0	0	1	34	34	52	0.0000	0.0000	0.0000	0.0000	13.1925
13.7496	14.7707	29.9679	7.4141	3.7755	7.6056	9.5241	0.0000	0.0000					
1986	1	1	0	0	1	35	35	44	0.0000	0.0000	0.0000	0.0000	5.6336
3.2021	3.6180	41.1576	13.4444	20.5030	3.5862	7.2464	0.0000	1.6086					
1986	1	1	0	0	1	36	36	27	0.0000	0.0000	0.0000	0.0000	7.1960
9.6880	10.1454	28.8542	18.6082	7.9177	4.3929	13.1976	0.0000	0.0000					
1986	1	1	0	0	1	37	37	31	0.0000	0.0000	0.0000	0.0000	0.0000
4.8734	26.4515	8.0357	8.0385	21.7640	19.9697	6.1252	4.7419	0.0000					
1986	1	1	0	0	1	38	38	24	0.0000	0.0000	0.0000	0.0000	3.3165
0.0000	10.9305	23.5946	10.3422	15.5300	0.6608	32.6068	3.0187	0.0000					
1986	1	1	0	0	1	39	39	11	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	13.1401	10.2176	54.2485	4.4825	17.9113	0.0000	0.0000					
1986	1	1	0	0	1	40	40	11	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	13.3719	6.7462	24.4385	0.0000	36.7310	0.0000	18.7125					
1986	1	1	0	0	1	41	41	7	0.0000	0.0000	0.0000	0.0000	0.0000
19.1540	0.0000	45.0539	33.5117	0.0000	0.0000	2.2805	0.0000						
1986	1	1	0	0	1	42	42	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	59.7499	8.1390	0.0000	0.0000	9.8383	0.0000	22.2728						
1986	1	1	0	0	1	43	43	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	13.0566	28.4455	0.0000	28.3271	30.1708	0.0000	0.0000					
1986	1	1	0	0	1	44	44	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	14.4723	33.0795	0.0000	52.4482	0.0000	0.0000						
1986	1	1	0	0	1	45	45	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	28.2930	17.9409	14.1465	26.8878	0.0000	12.7319	0.0000	0.0000					
1986	1	1	0	0	1	46	46	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	38.4089	5.6215	25.3539	0.0000	30.6157						
1986	1	1	0	0	1	47	47	6	0.0000	0.0000	0.0000	0.0000	5.2497
0.0000	0.0000	5.2497	10.3457	15.6332	51.8557	0.0000	11.6660						
1986	1	1	0	0	1	48	48	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	6.0976	34.7513	0.0000	16.6121	42.5390	0.0000						
1986	1	1	0	0	1	49	49	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	14.2360	0.0000	0.0000	14.2360	0.0000	71.5281	0.0000	0.0000					
1986	1	1	0	0	1	50	50	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	54.2903	0.0000	45.7097						
1986	1	1	0	0	1	51	51	25	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.7402	40.4089	6.7456	14.1188	14.9227	13.2540	3.9421	5.8676					
1987	1	1	0	0	1	14	14	3	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1987	1	1	0	0	1	15	15	6	0.0000	100.0000	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	100.0000	0.0000	0.0000	0.0000	
1987	1	1	0	0	1	16	16	16	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	98.1283	1.8717	0.0000	0.0000	
1987	1	1	0	0	1	17	17	29	0.0000	0.0000	96.1174	3.8826	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	90.0349	7.3710	1.1767	0.0000	
1987	1	1	0	0	1	18	18	60	0.0000	0.0000	91.1857	4.7598	0.0000	1.7440
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	82.5668	2.0659	0.9359	0.0000	
1987	1	1	0	0	1	19	19	79	0.0000	0.0000	76.0266	3.8518	0.0000	0.4346
1.4175	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	27.4293	2.0092	1.2266	0.7679	
1987	1	1	0	0	1	20	20	88	0.0000	0.0000	50.4828	1.4985	0.8185	3.1888
2.3105	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.1609	4.1659	0.4112	0.4397	
1987	1	1	0	0	1	21	21	97	0.0000	0.0000	85.7803	4.1394	2.4675	18.2850
14.4314	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.0191	1.7214	1.2915	78.1265	
1987	1	1	0	0	1	22	22	104	0.0000	0.0000	31.5537	3.3686	3.5945	3.5132
65.5771	2.4130	0.0000	0.5769	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.5132	1.6336	0.0000	82.6755	
1987	1	1	0	0	1	23	23	112	0.0000	0.0000	1.1395	21.0149	0.0000	66.7604
41.6599	2.3515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.0191	1.7214	1.2915	7.1840	
1987	1	1	0	0	1	24	24	121	0.0000	0.0000	34.9739	7.7517	6.6204	36.6074
73.5867	12.0191	0.0000	12.0043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.6128	0.9142	50.5027	4.0300	
1987	1	1	0	0	1	25	25	117	0.0000	0.0000	4.2715	2.6351	31.1788	0.9282
73.5537	3.3686	0.0000	18.2291	0.4786	0.0000	0.0000	0.0000	0.0000	0.0000	31.1788	0.9282	0.0000	3.5058	
1987	1	1	0	0	1	26	26	113	0.0000	0.0000	3.5058	0.0000	57.7202	0.0000
66.7604	8.2347	0.0000	21.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	27	27	106	0.0000	0.0000	3.5058	0.0000	1.1395	21.0149
56.5002	4.2715	0.0000	31.1788	0.9282	0.0000	0.0000	0.0000	0.0000	0.0000	31.1788	0.9282	0.0000	3.5058	
1987	1	1	0	0	1	28	28	102	0.0000	0.0000	3.5058	0.0000	12.0191	1.7214
34.9739	7.7517	0.0000	6.6204	3.5650	1.6169	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	29	29	92	0.0000	0.0000	3.5058	0.0000	1.2915	7.1840
36.4833	2.6128	0.9142	50.5027	4.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	30	30	83	0.0000	0.0000	7.7880	3.8474	1.6867	62.3238
7.7880	3.8474	1.6867	62.3238	0.0000	4.5389	0.0000	19.8152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	31	31	59	0.0000	0.0000	34.1487	0.0000	45.5263	0.0000
0.0000	9.1305	0.0000	30.2598	14.3467	0.0000	13.7319	16.6179	15.9132	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	32	32	40	0.0000	0.0000	61.9778	0.0000	17.2858	0.0000
0.0000	20.7264	0.0000	20.2344	0.0000	0.0000	0.0000	29.5196	29.5196	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	33	33	31	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	77.9273	0.0000	22.0727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	34	34	18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	14.0328	0.0000	67.1183	0.0000	0.0000	0.0000	18.8489	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	35	35	14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	43.3014	35.4391	0.0000	3.5748	8.6902	8.9945	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1987	1	1	0	0	1	36	36	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	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
1987	1	1	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	24.0588	43.1656	0.0000	0.0000	0.0000	0.0000	32.7756	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1987	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000					
1987	1	1	0	0	1	51	51	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	16.3926	0.0000	0.0000	59.9522	23.6551	0.0000					
1988	1	1	0	0	1	7	7	1	100.0000	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					
1988	1	1	0	0	1	10	10	1	100.0000	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					
1988	1	1	0	0	1	12	12	1	100.0000	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					
1988	1	1	0	0	1	13	13	2	49.3047	50.6953	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	14	14	2	100.0000	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					
1988	1	1	0	0	1	15	15	3	100.0000	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					
1988	1	1	0	0	1	16	16	3	47.9261	0.0000	52.0739	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	17	17	3	33.9806	31.9165	34.1030	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	18	18	15	6.7925	6.8787	75.3061	11.0228	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	19	19	56	2.1723	2.3924	93.1697	0.0000	0.0000
0.0000	2.2656	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	20	20	101	0.4201	1.3656	95.2958	2.3197	0.0000
0.0000	0.5988	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	21	21	129	0.0000	0.7022	93.0741	3.5850	0.3544
0.4435	1.8408	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	22	22	141	0.0000	0.3767	92.5575	4.1854	0.6426
0.0000	2.2378	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	23	23	141	0.0000	0.1720	90.5202	2.8664	0.1871
0.0000	5.6962	0.5579	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	24	24	145	0.0000	0.0000	70.4158	3.0278	0.4007
0.7600	24.4605	0.0000	0.0000	0.9351	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	25	25	153	0.0000	0.0000	50.6472	1.0389	0.9212
0.8442	42.7893	2.6975	0.0000	1.0616	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	26	26	152	0.0000	0.0000	18.5628	1.2500	0.4121
1.5135	71.7940	3.3787	0.3518	2.7371	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	27	27	150	0.0000	0.0000	14.3538	1.0310	0.2501
2.7423	74.2662	3.0107	0.4768	3.8692	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	28	28	137	0.0000	0.0000	7.4801	1.3008	1.6306
1.3168	78.7411	3.4739	0.0000	6.0568	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	29	29	123	0.0000	0.0000	4.7561	0.3408	0.0000
2.1412	77.9720	7.9713	1.1722	5.2384	0.0000	0.4080	0.0000	0.0000					
1988	1	1	0	0	1	30	30	81	0.0000	0.0000	4.2479	0.0000	6.4888
0.3770	55.5970	4.8394	3.9969	22.3469	0.6900	0.0000	0.0000	1.4160					
1988	1	1	0	0	1	31	31	68	0.0000	0.0000	2.1362	0.0000	0.0000
0.7831	40.0842	5.1174	2.4358	47.6989	0.7359	0.0000	0.0000	1.0086					
1988	1	1	0	0	1	32	32	45	0.0000	0.0000	0.5088	0.0000	1.3222
2.3418	45.5029	2.4559	0.0000	32.6000	0.0000	0.0000	0.0000	15.2684					
1988	1	1	0	0	1	33	33	34	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	43.6072	2.8107	10.7474	34.4103	0.0000	0.0000	0.0000	8.4243					
1988	1	1	0	0	1	34	34	22	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	41.2632	6.4782	0.0000	44.9041	3.3008	0.0000	0.0000	4.0536					
1988	1	1	0	0	1	35	35	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	7.1332	10.5395	0.0000	58.7733	0.0000	0.0000	0.0000	23.5540					
1988	1	1	0	0	1	36	36	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	9.7454	26.5794	0.0000	37.3254	0.0000	0.0000	0.0000	26.3498					
1988	1	1	0	0	1	37	37	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	12.9109	0.0000	0.0000	14.3157	0.0000	0.0000	0.0000	72.7733					
1988	1	1	0	0	1	38	38	13	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	21.7848	9.6980	0.0000	52.8390	0.0000	0.0000	0.0000	15.6781					
1988	1	1	0	0	1	39	39	11	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	12.7818	0.0000	0.0000	32.3356	0.0000	28.6812	0.0000	26.2013					
1988	1	1	0	0	1	40	40	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	83.0147	16.9853	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	41	41	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	36.0329	0.0000	0.0000	63.9671	0.0000	0.0000	0.0000	0.0000					
1988	1	1	0	0	1	42	42	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	9.7067	0.0000	0.0000	77.6329	0.0000	0.0000	0.0000	12.6604					

1988	1	1	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1988	1	1	0	0	1	45	45	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	35.8339	0.0000	0.0000	39.8693	0.0000	0.0000	0.0000	24.2968					
1988	1	1	0	0	1	46	46	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	33.1898	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	66.8102					
1988	1	1	0	0	1	47	47	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1988	1	1	0	0	1	49	49	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	32.2114	0.0000	0.0000	0.0000	67.7886					
1988	1	1	0	0	1	50	50	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	11.8259	0.0000	0.0000	0.0000	88.1741					
1988	1	1	0	0	1	51	51	12	0.0000	0.0000	0.0000	0.0000	0.0000
1.6938	1.2287	1.6696	0.0000	9.2723	0.0000	0.0000	0.0000	86.1356					
1989	1	1	0	0	1	10	10	2	100.0000	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
1989	1	1	0	0	1	11	11	3	100.0000	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
1989	1	1	0	0	1	12	12	9	97.4174	2.5826	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
1989	1	1	0	0	1	13	13	15	64.1043	35.8957	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
1989	1	1	0	0	1	14	14	15	81.1424	18.8576	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
1989	1	1	0	0	1	15	15	8	82.7925	17.2075	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
1989	1	1	0	0	1	16	16	10	38.2796	33.1207	28.5997	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
1989	1	1	0	0	1	17	17	13	35.5929	64.4071	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
1989	1	1	0	0	1	18	18	9	17.5138	48.8306	27.9583	5.6973	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
1989	1	1	0	0	1	19	19	17	0.0000	24.1292	16.9542	58.9166	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
1989	1	1	0	0	1	20	20	40	0.0000	26.8243	7.8609	62.4183	1.1333
1.7632	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
1989	1	1	0	0	1	21	21	79	0.0000	9.7324	6.0560	79.2379	3.0442
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
1989	1	1	0	0	1	22	22	120	0.0000	3.3641	2.4961	89.6237	2.6904
0.3961	0.1649	1.0535	0.2113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	23	23	129	0.0000	0.6006	0.7049	89.4514	3.8274
0.0000	0.0000	5.2295	0.0000	0.1861	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	24	24	125	0.0000	0.5319	1.0709	88.7400	0.3393
0.0000	0.0000	9.3179	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	25	25	127	0.0000	0.0000	0.2422	74.4399	0.6471
0.7907	0.0000	22.3372	1.3118	0.0000	0.2310	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	26	26	125	0.0000	0.0000	0.0000	57.8548	0.6671
0.8998	1.8530	35.7317	2.6476	0.3460	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	27	27	130	0.0000	0.0000	0.0000	37.5479	1.5665
1.2881	1.1599	54.2024	3.5063	0.2963	0.4328	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	28	28	133	0.0000	0.0000	0.0000	20.7381	2.3105
0.2847	1.0646	72.9754	2.5274	0.0000	0.0994	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	29	29	118	0.0000	0.0000	0.3832	11.4689	2.1330
0.3524	2.0825	74.0360	2.7625	1.7191	5.0624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	30	30	98	0.0000	0.0000	0.0000	11.9400	0.0000
1.1722	1.2339	77.8667	3.9550	0.0000	3.5785	0.0000	0.2538	0.0000	0.0000	0.0000	0.0000	5.1102	2.4776
1989	1	1	0	0	1	31	31	74	0.0000	0.0000	0.0000	0.0000	0.0000
1.6346	2.4771	67.8919	4.1948	1.5683	14.6456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	32	32	49	0.0000	0.0000	0.0000	0.0000	0.0000
0.9520	0.0000	68.7447	5.3707	1.1655	21.1990	0.0000	0.0000	2.5680					
1989	1	1	0	0	1	33	33	40	0.0000	0.0000	0.0000	5.9379	0.0000
0.0000	2.2853	70.3585	1.4401	0.0000	19.9782	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	34	34	35	0.0000	0.0000	0.0000	2.1892	0.0000
0.0000	0.0000	54.2439	6.6813	0.0000	28.2517	1.6134	3.1183	3.9022					
1989	1	1	0	0	1	35	35	27	0.0000	0.0000	0.0000	1.7801	3.0672
0.0000	0.0000	40.3566	2.0244	1.7097	39.3937	0.0000	0.0000	11.6682					
1989	1	1	0	0	1	36	36	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	38.5749	11.0301	12.2927	7.6330	0.0000	0.0000	30.4693					
1989	1	1	0	0	1	37	37	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	17.1644	4.8358	3.3034	71.9674	0.0000	0.0000	2.7291					

1989	1	1	0	0	1	38	38	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.7933	0.0000	0.0000	49.2067	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	39	39	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	12.6550	0.0000	0.0000	84.1191	0.0000	3.2259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	40	40	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	57.5048	0.0000	0.0000	33.9821	0.0000	8.5131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	41	41	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	27.9965	0.0000	17.1511	0.0000	0.0000	54.8524	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	42	42	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	26.8743	0.0000	0.0000	73.1257	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	44	44	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	61.4582	38.5418	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	81.0710	0.0000	0.0000	18.9290	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	49	49	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	35.4854	15.1459	0.0000	49.3687	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	1	0	0	1	51	51	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	23.6416	0.0000	76.3584	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	9	9	2	100.0000	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
1990	1	1	0	0	1	10	10	6	74.4498	25.5502	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
1990	1	1	0	0	1	11	11	5	100.0000	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
1990	1	1	0	0	1	12	12	15	39.7679	60.2321	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
1990	1	1	0	0	1	13	13	22	69.8663	30.1337	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
1990	1	1	0	0	1	14	14	24	58.5052	41.2060	0.0000	0.0000	0.2888
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
1990	1	1	0	0	1	15	15	45	42.5282	54.2964	0.4260	0.0000	2.7494
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
1990	1	1	0	0	1	16	16	51	22.8499	75.6424	1.5078	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
1990	1	1	0	0	1	17	17	76	28.5334	66.0324	4.9863	0.0000	0.4479
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
1990	1	1	0	0	1	18	18	84	6.6429	87.6006	2.0306	0.0000	3.6343
0.0000	0.0000	0.0915	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	19	19	94	8.1240	80.6478	8.5557	0.0000	2.2535
0.0000	0.0000	0.4189	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	20	20	98	1.7418	89.1505	5.8769	0.1818	2.8646
0.0000	0.0000	0.1844	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	21	21	104	0.7436	83.9361	5.3355	0.0000	9.3772
0.0000	0.0000	0.6076	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	22	22	95	0.0000	70.9688	8.4012	0.9682	17.5767
0.0000	0.4891	1.5961	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	23	23	96	0.0000	40.4456	5.0713	2.1224	47.3206
0.5266	0.0000	4.5134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	24	24	93	0.0000	10.5464	4.0038	0.0000	76.3268
0.5549	0.0000	8.1939	0.0000	0.0000	0.3742	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	25	25	91	0.0000	2.6623	4.3916	0.0000	67.5856
0.0000	1.1065	24.2539	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	26	26	82	0.0000	1.2109	1.3166	1.1638	60.1754
0.5417	1.2363	30.8318	0.5411	0.0000	0.3323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	27	27	88	0.0000	0.0000	0.5037	0.9924	55.9146
0.6217	0.0000	41.9676	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	28	28	82	0.0000	0.0000	0.0000	0.0000	2.0396
1.1237	0.0000	50.8622	0.0000	0.0000	1.7384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	29	29	84	0.0000	0.0000	0.0000	0.0000	30.3357
1.2149	1.3454	61.2557	0.0000	0.0000	5.8483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	30	30	73	0.0000	0.0000	0.0000	0.0000	27.4868
1.2105	0.0000	1.6292	58.6335	1.1079	0.0000	8.9645	0.0000	0.9676	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	1	0	0	1	31	31	72	0.0000	0.0000	0.0000	0.0000	26.3777
1.0060	0.0000	62.4260	2.2647	0.0000	7.9257	0.0000	0.0000	0.7675	0.0000	0.0000	0.0000	0.0000	11.7882
1990	1	1	0	0	1	32	32	74	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	78.3868	0.0000	0.0000	9.0574	0.0000	0.7675	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1990	1	1	0	0	1	33	33	58	0.0000	0.0000	0.0000	0.0000	3.3758
0.0000	0.0000	0.0000	79.7810	1.4183	0.0000	15.4249	0.0000	0.0000					
1990	1	1	0	0	1	34	34	43	0.0000	0.0000	0.0000	0.0000	0.7269
0.0000	0.0000	0.0000	65.7163	0.0000	0.0000	29.3400	0.0000	4.2168					
1990	1	1	0	0	1	35	35	34	0.0000	0.0000	0.0000	0.0000	2.7457
0.0000	0.0000	0.0000	67.7015	0.0000	0.0000	26.9935	0.0000	2.5592					
1990	1	1	0	0	1	36	36	20	0.0000	0.0000	0.0000	0.0000	0.9625
0.0000	0.0000	0.0000	74.0819	0.0000	0.0000	24.9557	0.0000	0.0000					
1990	1	1	0	0	1	37	37	15	0.0000	0.0000	0.0000	0.0000	2.8944
0.0000	0.0000	0.0000	26.0940	0.0000	0.0000	58.0994	0.0000	12.9122					
1990	1	1	0	0	1	38	38	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	61.7954	5.4345	0.0000	29.5756	0.0000	3.1946					
1990	1	1	0	0	1	39	39	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	69.4089	4.8251	0.0000	4.4069	0.0000	21.3591					
1990	1	1	0	0	1	40	40	11	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	77.0070	0.0000	0.0000	22.9930	0.0000	0.0000					
1990	1	1	0	0	1	41	41	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	4.5790	0.0000	39.9597	0.0000	0.0000	42.4391	0.0000	13.0222					
1990	1	1	0	0	1	42	42	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	59.6779	0.0000	0.0000	38.6645	0.0000	1.6576					
1990	1	1	0	0	1	43	43	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	84.5512	0.0000	0.0000	3.3079	0.0000	12.1409					
1990	1	1	0	0	1	44	44	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	15.7061	0.0000	0.0000	78.2723	0.0000	6.0216					
1990	1	1	0	0	1	45	45	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	32.2182	0.0000	0.0000	67.7818	0.0000	0.0000					
1990	1	1	0	0	1	46	46	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	39.7351	0.0000	0.0000	60.2649	0.0000	0.0000					
1990	1	1	0	0	1	47	47	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	32.1412	0.0000	0.0000	37.9510	0.0000	29.9079					
1990	1	1	0	0	1	48	48	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	50.0050	0.0000	0.0000	49.9950	0.0000	0.0000					
1990	1	1	0	0	1	49	49	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	72.8901	0.0000	0.0000	25.1520	0.0000	1.9580					
1990	1	1	0	0	1	50	50	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	53.9747	0.0000	0.0000	46.0253	0.0000	0.0000					
1990	1	1	0	0	1	51	51	20	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	35.1996	0.0000	1.3861	56.8876	0.0000	6.5267					
1991	1	1	0	0	1	1	1	2	100.0000	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					
1991	1	1	0	0	1	2	2	2	100.0000	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					
1991	1	1	0	0	1	3	3	1	100.0000	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					
1991	1	1	0	0	1	4	4	1	100.0000	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					
1991	1	1	0	0	1	11	11	1	100.0000	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					
1991	1	1	0	0	1	12	12	2	100.0000	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					
1991	1	1	0	0	1	13	13	5	45.8755	54.1245	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	14	14	13	22.7079	77.2921	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	15	15	23	23.8547	64.1375	12.0078	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	16	16	32	14.8478	70.4181	13.3928	1.3413	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	17	17	33	0.0000	71.3779	28.0055	0.6166	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	18	18	39	0.0000	77.4678	22.5322	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	19	19	38	0.0000	70.0557	29.9443	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	20	20	47	0.0000	53.7325	43.4672	2.6014	0.0000
0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	21	21	54	0.1995	34.9188	54.7285	10.1531	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1991	1	1	0	0	1	22	22	63	0.0000	23.3704	63.2448	3.1263	0.0000
9.4313	0.0000	0.0000	0.0000	0.8272	0.0000	0.0000	0.0000	0.0000					

1991	1	1	0	0	1	23	23	66	0.0000	7.0144	60.1485	7.1450	7.0200
12.2489	0.0000	0.0000	0.0000	6.4231	0.0000	0.0000	0.0000	0.0000	0.0000	4.3115	47.7741	9.1369	2.4553
1991	1	1	0	0	1	24	24	66	0.0000	4.3115	47.7741	9.1369	2.4553
32.9924	1.3137	0.0000	0.0000	2.0161	0.0000	0.0000	0.0000	0.0000	0.0000	32.6432	6.8459	0.1775	
1991	1	1	0	0	1	25	25	62	0.0000	0.5577	32.6432	6.8459	0.1775
49.6695	1.6136	0.2331	0.7777	6.5496	0.8283	0.0000	0.1039	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	26	26	61	0.0000	0.1792	14.2372	3.6810	0.0000
67.8558	0.1048	0.0000	0.1960	12.5834	1.1624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	27	27	61	0.0000	0.0000	8.0402	6.4853	0.3773
61.8957	7.0249	1.0051	0.0000	14.2529	0.9186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	28	28	55	0.0000	0.0000	0.8436	2.3421	6.8502
58.6250	1.9811	0.6212	0.8350	23.3137	0.6376	0.0000	3.9505	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	29	29	56	0.0000	0.0000	0.3924	0.0000	0.0000
53.2805	2.0030	0.1970	0.0000	42.8077	0.0000	0.0000	1.3194	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	30	30	49	0.0000	0.0000	0.0000	1.8393	0.3186
46.3029	1.7313	0.0000	0.0000	46.0219	0.4904	0.0000	3.2957	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	31	31	40	0.0000	0.0000	0.0000	0.0000	0.0000
18.3955	5.1803	0.0000	0.0000	66.0616	2.4929	0.0000	7.8697	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	32	32	20	0.0000	0.0000	0.0000	0.0000	0.0000
41.6237	0.0000	0.0000	0.0000	39.0709	2.9095	0.0000	16.3958	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	33	33	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	8.0788	0.0000	0.0000	59.7357	0.0000	0.0000	32.1856	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	34	34	6	0.0000	0.0000	0.0000	0.0000	0.0000
12.5354	0.0000	0.0000	0.0000	18.5285	0.0000	0.0000	68.9361	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	35	35	6	0.0000	0.0000	0.0000	0.0000	0.0000
48.0201	0.0000	0.0000	0.0000	19.4043	11.9351	0.0000	0.0000	20.6406	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	36	36	7	0.0000	0.0000	0.0000	0.0000	0.0000
21.4936	10.4409	0.0000	0.0000	11.7785	0.0000	0.0000	56.2870	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	37	37	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	18.0284	0.0000	0.0000	0.0000	81.9716	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	38	38	3	0.0000	0.0000	0.0000	0.0000	0.0000
40.7365	0.0000	0.0000	0.0000	4.0266	0.0000	0.0000	14.5005	40.7365	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	39	39	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	22.2049	0.0000	0.0000	77.7951	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	40	40	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	56.5367	0.0000	0.0000	43.4633	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	42	42	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	7.4359	0.0000	0.0000	80.6159	0.0000	0.0000	11.9482	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	43	43	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	73.2835	0.0000	0.0000	26.7165	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	44	44	3	0.0000	0.0000	0.0000	0.0000	0.0000
35.4399	0.0000	0.0000	0.0000	37.6933	0.0000	0.0000	26.8668	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	56.8152	0.0000	14.3949	14.3949	0.0000	0.0000	0.0000	14.3949	0.0000	0.0000	0.0000	0.0000	0.0000
1991	1	1	0	0	1	47	47	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	45.8863	0.0000	0.0000	5.5641	0.0000	0.0000	48.5497	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	22.7312	0.0000	0.0000	77.2688	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	49	49	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	63.5060	0.0000	0.0000	0.0000	0.0000	36.4940	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
1991	1	1	0	0	1	51	51	9	10.6243	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	32.9633	0.0000	0.0000	38.2138	18.1986	0.0000	0.0000	0.0000	0.0000	
1992	1	1	0	0	1	8	8	1	0.0000	100.0000	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	
1992	1	1	0	0	1	9	9	2	100.0000	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	
1992	1	1	0	0	1	10	10	5	80.0526	19.9474	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	
1992	1	1	0	0	1	11	11	6	78.0717	21.9283	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	
1992	1	1	0	0	1	12	12	8	87.4689	12.5311	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	
1992	1	1	0	0	1	13	13	6	65.8829	34.1171	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	
1992	1	1	0	0	1	14	14	6	65.8412	34.1588	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	
1992	1	1	0	0	1	15	15	7	92.0365	7.9635	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	

1992	1	1	0	0	1	16	16	7	77.4341	22.5659	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	17	17	11	64.4254	33.8068	1.7677	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	18	18	28	21.9802	47.4372	22.2656	8.3170	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	19	19	26	12.6466	34.5625	47.3775	5.4134	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	20	20	61	0.1913	16.8893	55.7853	27.1341	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	21	21	75	0.4866	12.9790	41.2705	42.0436	2.9303
0.0000	0.0000	0.0000	0.0000	0.0000	0.2900	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	22	22	89	0.0000	14.4253	45.5749	33.9861	2.2032
0.0000	3.8105	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	23	23	105	0.0000	3.4905	47.8637	37.7496	0.9869
0.0000	6.6756	0.4863	0.0000	0.0000	2.7473	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	24	24	108	0.0000	0.7646	28.7053	49.5784	3.8657
1.2981	14.1082	0.0000	0.0000	0.0000	1.5073	0.0000	0.1724	0.0000					
1992	1	1	0	0	1	25	25	108	0.0000	1.0271	23.7073	38.8246	3.2166
1.6224	27.1034	0.5531	0.3934	0.0000	3.5520	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	26	26	107	0.0000	0.3178	8.0179	33.9183	2.2067
3.1949	43.4160	0.7735	0.3446	0.5874	7.2229	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	27	27	107	0.0000	0.2152	1.8064	22.4610	3.9025
3.6665	46.9674	2.4033	0.3595	1.4145	16.1193	0.0000	0.0000	0.6844	0.0000				
1992	1	1	0	0	1	28	28	111	0.0000	0.0000	2.0973	16.8221	3.1321
0.7458	54.3894	1.2622	0.0000	0.0000	21.2140	0.0000	0.0000	0.3370	0.0000				
1992	1	1	0	0	1	29	29	103	0.0000	0.0000	1.6810	8.8064	3.2057
4.3395	52.3270	2.0593	0.5850	0.0000	26.9962	0.0000	0.0000	0.0000					
1992	1	1	0	0	1	30	30	93	0.0000	0.0000	0.0000	10.3069	0.4116
1.0332	58.4063	2.1180	0.3432	0.0000	25.4214	0.4159	0.0000	1.5435	0.0000				
1992	1	1	0	0	1	31	31	78	0.0000	0.0000	0.0000	6.3232	3.1591
1.7658	49.1488	2.3060	0.0000	0.0000	32.3243	1.3580	0.0000	3.6147	0.0000				
1992	1	1	0	0	1	32	32	61	0.0000	0.0000	0.7884	0.9574	1.0303
0.0000	43.2842	0.3321	0.0000	0.0000	48.6143	1.9869	0.0000	3.0062	0.0000				
1992	1	1	0	0	1	33	33	41	0.0000	0.0000	0.0000	1.1235	0.6339
0.0000	34.0394	0.0000	0.0000	0.0000	32.7681	6.0185	0.0000	25.4166	0.0000				
1992	1	1	0	0	1	34	34	35	0.0000	0.0000	0.0000	0.0000	0.8325
0.0000	48.1492	2.8822	0.0000	0.4464	42.3703	3.0855	0.0000	2.2339	0.0000				
1992	1	1	0	0	1	35	35	28	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	30.8000	0.0000	0.0000	0.0000	47.4970	0.6879	0.9017	20.1133	0.0000				
1992	1	1	0	0	1	36	36	20	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	57.1955	0.0000	2.0268	0.0000	30.1436	0.0000	0.0000	10.6341	0.0000				
1992	1	1	0	0	1	37	37	16	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	27.4367	0.0000	0.0000	0.9081	49.5406	0.0000	0.0000	22.1146	0.0000				
1992	1	1	0	0	1	38	38	15	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	24.8579	0.0000	0.0000	27.6942	43.2585	0.0000	0.0000	4.1893	0.0000				
1992	1	1	0	0	1	39	39	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	9.0576	0.0000	0.0000	0.0000	79.8329	0.0000	0.0000	11.1095	0.0000				
1992	1	1	0	0	1	40	40	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	36.4391	0.0000	0.0000	0.0000	42.8326	6.6770	0.0000	14.0513	0.0000				
1992	1	1	0	0	1	41	41	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	15.5506	0.0000	0.0000	0.0000	55.9180	14.4791	0.0000	14.0522	0.0000				
1992	1	1	0	0	1	42	42	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000				
1992	1	1	0	0	1	43	43	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	66.2050	0.0000	0.0000	33.7950	0.0000				
1992	1	1	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	81.3496	0.0000	0.0000	18.6504	0.0000				
1992	1	1	0	0	1	45	45	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	12.7306	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	87.2694	0.0000				
1992	1	1	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	49.2229	0.0000	0.0000	0.0000	50.7771	0.0000	0.0000	0.0000	0.0000				
1992	1	1	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000				
1992	1	1	0	0	1	49	49	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	89.9515	0.0000	0.0000	10.0485	0.0000				
1992	1	1	0	0	1	51	51	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	2.2355	0.0000	0.0000	12.7720	6.4200	0.0000	78.5724	0.0000				
1993	1	1	0	0	1	12	12	5	92.6781	7.3219	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				

1993	1	1	0	0	1	13	13	1	100.0000	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					
1993	1	1	0	0	1	14	14	5	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	15	15	6	12.8531	87.1469	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	16	16	20	1.8715	95.5066	2.6219	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	17	17	39	2.3266	93.8678	0.4176	3.3880	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	18	18	50	2.0361	84.0014	13.3071	0.6554	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	19	19	59	0.0000	87.8246	3.0094	8.7276	0.0000
0.0000	0.0000	0.4384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	20	20	63	0.0000	92.0633	4.8787	2.5777	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4802	0.0000	0.0000					
1993	1	1	0	0	1	21	21	59	0.0000	73.7118	9.4365	15.8211	1.0307
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	22	22	49	0.0000	48.3175	11.0798	26.3466	14.2561
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	23	23	67	0.0000	11.2755	11.8321	49.1721	22.9876
0.0000	0.0000	3.7373	0.0000	0.0000	0.0000	0.9955	0.0000	0.0000					
1993	1	1	0	0	1	24	24	77	0.0000	3.8255	6.1879	36.8128	33.5886
6.6681	4.8501	7.7036	0.0000	0.0000	0.0000	0.3636	0.0000	0.0000					
1993	1	1	0	0	1	25	25	86	0.0000	0.5204	0.8395	27.6733	44.8379
2.5921	0.4455	17.3188	0.0000	0.0000	0.0000	5.4158	0.0000	0.3567					
1993	1	1	0	0	1	26	26	87	0.0000	0.4109	1.2636	23.8779	27.9048
1.7050	4.4013	31.7483	0.2784	0.0000	0.0947	7.6167	0.0000	0.6984					
1993	1	1	0	0	1	27	27	85	0.0000	0.0000	0.0000	11.9293	28.5800
0.5543	1.0394	44.2856	1.5045	0.5602	0.0000	9.7262	0.0000	1.8204					
1993	1	1	0	0	1	28	28	79	0.0000	0.0000	0.0000	3.8746	22.6223
0.6754	0.3759	56.2774	7.3891	0.0000	0.0000	8.7852	0.0000	0.0000					
1993	1	1	0	0	1	29	29	78	0.0000	0.0000	0.0000	1.7799	18.6776
2.2581	1.0163	53.2442	0.0000	0.0000	0.0000	21.1804	0.0000	1.8435					
1993	1	1	0	0	1	30	30	59	0.0000	0.0000	0.0000	1.3016	2.6474
5.0208	0.0000	53.5027	1.1477	0.0000	0.0000	36.3798	0.0000	0.0000					
1993	1	1	0	0	1	31	31	37	0.0000	0.0000	0.0000	1.6181	10.3936
0.0000	0.0000	49.3519	0.0000	0.0000	0.0000	36.0297	0.0000	2.6068					
1993	1	1	0	0	1	32	32	26	0.0000	0.0000	0.0000	0.0000	0.0000
1.0356	0.0000	49.1262	8.1290	0.0000	0.0000	40.4265	0.0000	1.2827					
1993	1	1	0	0	1	33	33	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	35.7829	0.0000	0.0000	0.0000	54.4858	0.0000	9.7313					
1993	1	1	0	0	1	34	34	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	14.8681	0.0000	0.0000	10.0785	0.0000	8.1368	66.9167					
1993	1	1	0	0	1	35	35	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	30.1381	0.0000	0.0000	0.0000	69.8619	0.0000	0.0000					
1993	1	1	0	0	1	36	36	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	65.7053	0.0000	7.6896	0.0000	10.4486	0.0000	16.1565					
1993	1	1	0	0	1	37	37	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000					
1993	1	1	0	0	1	38	38	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	75.8340	0.0000	0.0000	0.0000	24.1660	0.0000	0.0000					
1993	1	1	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	38.2071	0.0000	0.0000	30.8965	30.8965	0.0000	0.0000					
1993	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	1	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000					
1994	1	1	0	0	1	11	11	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	14	14	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	16	16	3	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	17	17	9	0.0000	67.0652	32.9348	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	18	18	20	0.0000	49.0817	50.9183	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1994	1	1	0	0	1	19	19	50	1.8680	48.6707	47.0787	2.3826	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	20	20	78	0.0000	15.1851	80.2214	1.7943	2.4395
0.3597	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	21	21	92	0.0000	7.4672	81.4237	2.4783	6.7482
1.8826	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	22	22	101	0.0000	2.2666	79.6364	3.2295	12.6035
2.2640	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	23	23	110	0.0000	0.1925	67.5244	0.4179	17.5069
12.0614	0.0000	0.0000	1.1983	0.0000	0.0000	0.0000	1.0985	0.0000					
1994	1	1	0	0	1	24	24	119	0.0000	0.7053	34.7015	1.1278	33.2490
22.2028	0.0000	0.0000	6.0003	0.0000	0.0000	0.0000	2.0131	0.0000					
1994	1	1	0	0	1	25	25	137	0.0000	0.0000	17.3120	1.5657	29.6653
33.2830	0.0000	0.0000	16.9740	0.0000	0.3196	0.0000	0.4824	0.3980					
1994	1	1	0	0	1	26	26	137	0.0000	0.3011	4.5976	1.0668	23.0907
37.0423	0.1912	1.7357	28.9353	0.0000	0.0802	0.0000	2.8166	0.1426					
1994	1	1	0	0	1	27	27	137	0.0000	0.0000	1.2714	0.5974	21.1297
34.7632	0.6325	0.8620	30.5817	0.4105	0.6265	0.0000	8.9734	0.1516					
1994	1	1	0	0	1	28	28	132	0.0000	0.0000	3.1579	0.0000	11.8576
36.3994	0.6855	0.2132	38.4685	0.2357	0.0000	0.0000	8.2000	0.7822					
1994	1	1	0	0	1	29	29	129	0.0000	0.0000	0.0000	0.0000	5.7130
24.4473	2.3976	0.3604	54.2546	0.0000	1.0564	0.0000	9.6954	2.0752					
1994	1	1	0	0	1	30	30	119	0.0000	0.0000	0.0000	0.0000	0.3652
22.6783	0.9316	0.0000	45.0842	0.0000	0.2567	0.0000	27.7171	2.9669					
1994	1	1	0	0	1	31	31	81	0.0000	0.0000	0.9535	0.0000	2.6385
24.3381	4.2003	1.1585	43.4636	0.0000	3.4730	0.6564	16.6180	2.5002					
1994	1	1	0	0	1	32	32	47	0.0000	0.0000	0.0000	0.0000	1.1444
19.6826	0.0000	0.0000	56.1426	0.0000	3.6309	0.0000	19.0465	0.3531					
1994	1	1	0	0	1	33	33	30	0.0000	0.0000	0.0000	0.0000	6.8912
5.3691	0.0000	0.0000	47.7638	0.0000	0.0000	0.0000	32.3602	7.6157					
1994	1	1	0	0	1	34	34	16	0.0000	0.0000	0.0000	0.0000	0.0000
4.4743	0.0000	0.0000	80.0104	0.0000	0.0000	1.7563	13.7590	0.0000					
1994	1	1	0	0	1	35	35	14	0.0000	0.0000	0.0000	0.0000	0.0000
6.4833	16.5006	0.0000	70.7904	0.0000	0.0000	0.0000	6.2257	0.0000					
1994	1	1	0	0	1	36	36	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	57.4999	0.0000	12.5099	0.0000	29.5010	0.4892						
1994	1	1	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	0.0000
12.0634	0.0000	0.0000	87.9366	0.0000	0.0000	0.0000	0.0000	0.0000					
1994	1	1	0	0	1	38	38	7	0.0000	0.0000	0.0000	0.0000	0.0000
15.2486	0.0000	0.0000	72.0846	0.0000	0.0000	0.0000	12.6668	0.0000					
1994	1	1	0	0	1	39	39	6	0.0000	0.0000	0.0000	0.0000	0.0000
28.2282	0.0000	0.0000	14.9682	0.0000	0.0000	0.0000	41.1625	15.6411					
1994	1	1	0	0	1	40	40	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	82.0092	0.0000	0.0000	0.0000	17.9908	0.0000						
1994	1	1	0	0	1	41	41	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	40.7924	0.0000	0.0000	0.0000	59.2076	0.0000						
1994	1	1	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000						
1994	1	1	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
1994	1	1	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000					
1994	1	1	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
1994	1	1	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000						
1994	1	1	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
1994	1	1	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000						
1994	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000						
1994	1	1	0	0	1	51	51	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	81.4970	18.5030						
1995	1	1	0	0	1	51	51	1	1	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
1995	1	1	0	0	1	5	5	1	1	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
1995	1	1	0	0	1	6	6	1	1	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

1995	1	1	0	0	1	7	7	1	100.0000	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					
1995	1	1	0	0	1	13	13	1	100.0000	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					
1995	1	1	0	0	1	15	15	1	100.0000	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					
1995	1	1	0	0	1	17	17	2	63.4467	36.5533	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	18	18	2	55.3854	0.0000	44.6146	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	19	19	4	0.0000	0.0000	5.9505	94.0495	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	20	20	4	0.0000	0.0000	18.2779	81.7221	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	21	21	13	0.0000	0.0000	38.5370	61.4630	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	22	22	35	0.0000	0.0000	44.8025	52.0098	0.0000
1.7842	0.5519	0.0000	0.0000	0.8516	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	23	23	58	0.0000	0.0000	19.4350	69.7305	0.9965
7.6541	1.5933	0.0000	0.0000	0.5905	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	24	24	68	0.0000	0.0000	16.0224	68.9035	0.5806
5.9278	7.9159	0.0000	0.0000	0.6497	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	25	25	71	0.0000	0.0000	7.5018	67.0799	0.7307
10.9663	10.0582	0.3681	0.0000	2.9796	0.0000	0.0000	0.0000	0.3153					
1995	1	1	0	0	1	26	26	71	0.0000	0.0000	1.2067	44.6656	1.4078
11.8586	22.6554	1.8872	0.0000	13.5667	0.0000	0.0000	0.0000	2.7519					
1995	1	1	0	0	1	27	27	71	0.0000	0.0000	1.0630	36.5222	1.4104
8.3606	30.6926	0.8379	0.0000	17.5221	0.0000	0.2895	0.0000	3.3017					
1995	1	1	0	0	1	28	28	74	0.0000	0.0000	0.4740	12.6224	0.7088
6.9174	29.6173	0.4336	1.3302	36.2676	1.4332	0.7977	0.0000	9.3980					
1995	1	1	0	0	1	29	29	71	0.1608	0.0000	0.2887	4.4116	0.0000
10.4859	40.5144	3.5402	0.3229	34.1768	0.6239	0.0000	0.0000	5.4750					
1995	1	1	0	0	1	30	30	64	0.0000	0.0000	0.0000	5.1048	0.0000
2.5184	29.9727	0.2724	0.0000	49.7472	0.0000	0.3457	0.4954	11.5435					
1995	1	1	0	0	1	31	31	53	0.1991	0.0000	0.0000	0.3796	0.0000
8.4351	21.3321	5.8664	0.0000	39.4947	0.7770	0.0000	0.0000	23.5160					
1995	1	1	0	0	1	32	32	39	0.0000	0.0000	0.0000	0.0000	0.4012
5.3716	33.7012	2.0036	0.0000	40.2985	0.0000	0.0000	0.0000	18.2239					
1995	1	1	0	0	1	33	33	28	0.0000	0.0000	0.0000	5.7355	0.0000
2.6653	39.0255	0.0000	0.0000	23.2153	0.0000	1.9497	0.0000	27.4087					
1995	1	1	0	0	1	34	34	16	0.0000	0.0000	0.0000	0.0000	0.0000
6.8872	31.3871	0.0000	0.0000	15.7158	0.0000	2.1774	0.0000	43.8325					
1995	1	1	0	0	1	35	35	14	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	23.7286	0.0000	0.0000	33.6020	0.0000	0.0000	0.0000	42.6694					
1995	1	1	0	0	1	36	36	10	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	34.8921	0.0000	0.0000	45.3075	0.0000	0.0000	0.0000	19.8004					
1995	1	1	0	0	1	37	37	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	51.8127	0.0000	0.0000	48.1873	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	38	38	5	0.0000	0.0000	0.0000	0.0000	0.0000
5.8698	0.0000	0.0000	0.0000	88.1320	0.0000	0.0000	0.0000	5.9983					
1995	1	1	0	0	1	39	39	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	79.8987	0.0000	15.3704	0.0000	4.7309					
1995	1	1	0	0	1	40	40	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	65.3264	0.0000	0.0000	0.0000	34.6736					
1995	1	1	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	42	42	1	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	100.0000					
1995	1	1	0	0	1	43	43	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	12.4719	0.0000	80.7038	0.0000	6.8243					
1995	1	1	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	1	0	0	1	51	51	1	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	100.0000					
1996	1	1	0	0	1	11	11	3	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					
1996	1	1	0	0	1	12	12	9	59.5075	40.4925	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	13	13	17	94.6175	5.3825	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1996	1	1	0	0	1	14	14	29	92.8995	7.1005	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	15	15	39	94.3615	5.6385	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	16	16	47	92.2810	7.7190	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	17	17	48	77.9551	21.4170	0.6279	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	18	18	40	45.3134	54.6866	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	19	19	43	42.8753	52.6382	0.7963	3.6902	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	20	20	51	15.4939	79.3988	3.9402	1.1672	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	21	21	55	1.2540	86.8111	3.2412	5.0875	3.6062
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	22	22	53	0.0000	72.9113	2.3922	10.5329	13.6076
0.0000	0.0000	0.0000	0.0000	0.0000	0.5559	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	23	23	54	0.3198	45.5507	5.7994	18.8759	26.5383
1.5425	0.3978	0.9755	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	24	24	71	0.0000	16.6965	3.3639	25.9545	40.3591
0.0000	5.1296	6.8524	0.0000	0.0000	1.6440	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	25	25	88	0.0000	6.2748	1.8776	19.7714	48.0107
0.8813	5.1621	9.5921	0.1831	0.0000	5.5863	0.0000	0.0000	2.6605					
1996	1	1	0	0	1	26	26	95	0.0000	0.0000	0.8307	16.0823	52.3339
0.3209	9.4561	13.2840	0.3481	0.0000	6.7143	0.0000	0.0000	0.6296					
1996	1	1	0	0	1	27	27	96	0.0000	0.0000	0.0000	15.4908	43.7148
0.1568	8.7846	13.2489	0.0000	0.0000	14.3619	0.0000	0.0000	4.2423					
1996	1	1	0	0	1	28	28	92	0.0000	0.0000	0.0000	7.2528	26.8480
0.0000	6.0100	22.6914	0.5921	0.0000	32.9778	0.0000	0.0000	3.6278					
1996	1	1	0	0	1	29	29	86	0.0000	0.0000	0.0000	8.3630	17.5408
0.3264	9.3016	23.4515	0.0000	0.0000	34.6009	0.0000	0.0000	6.4158					
1996	1	1	0	0	1	30	30	71	0.0000	0.0000	0.0000	0.0000	19.0078
0.0000	4.7150	34.0506	0.4689	0.0000	31.3917	0.0000	0.0000	10.3660					
1996	1	1	0	0	1	31	31	58	0.0000	0.0000	0.0000	0.9565	1.6768
0.0000	2.8421	27.7766	0.0000	1.8404	52.0107	0.0000	0.0000	12.8969					
1996	1	1	0	0	1	32	32	35	0.0000	0.0000	0.0000	0.0000	8.9818
1.0959	0.5238	14.2401	0.0000	0.0000	63.1137	0.0000	0.9989	11.0459					
1996	1	1	0	0	1	33	33	32	0.0000	0.0000	0.0000	2.3508	10.5473
0.0000	3.6420	14.4747	0.0000	1.2683	45.4643	0.0000	1.5498	20.7028					
1996	1	1	0	0	1	34	34	11	0.0000	0.0000	0.0000	0.0000	5.7731
0.0000	0.0000	45.0335	0.0000	0.0000	47.2019	0.0000	0.0000	1.9915					
1996	1	1	0	0	1	35	35	12	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	25.3341	3.1237	0.0000	71.5422	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	36	36	7	0.0000	0.0000	0.0000	0.0000	0.0000
4.8400	2.1599	22.2260	0.0000	0.0000	70.7740	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	77.5991	0.0000	0.0000	22.4009	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	38	38	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	27.3128	0.0000	0.0000	36.5820	0.0000	36.1052	0.0000					
1996	1	1	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	13.0269	0.0000	0.0000	86.9731	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	40	40	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	52.5445	47.4555	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	43	43	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	76.4494	0.0000	23.5506	0.0000	0.0000					
1996	1	1	0	0	1	44	44	1	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	100.0000					
1996	1	1	0	0	1	45	45	1	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	100.0000					
1996	1	1	0	0	1	46	46	1	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	100.0000					
1996	1	1	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	1	0	0	1	49	49	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	18.0895	0.0000	18.0895	0.0000	63.8211					

1997	1	1	0	0	1	15	15	1	0.0000	100.0000	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	100.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	16	16	1	0.0000	100.0000	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
1997	1	1	0	0	1	17	17	7	0.0000	88.7801	11.2199	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	88.7801	11.2199	0.0000	0.0000
1997	1	1	0	0	1	18	18	16	17.5711	72.8202	9.6087	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17.5711	72.8202	9.6087	0.0000
1997	1	1	0	0	1	19	19	32	0.0000	92.8366	7.1634	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	92.8366	7.1634	0.0000	0.0000
1997	1	1	0	0	1	20	20	47	0.0000	84.9676	15.0324	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	84.9676	15.0324	0.0000	0.0000
1997	1	1	0	0	1	21	21	59	0.0000	70.2052	28.3168	0.0000	1.4780
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	70.2052	28.3168	0.0000	1.4780
1997	1	1	0	0	1	22	22	77	0.0000	63.7515	31.5659	0.3123	3.1367
0.0000	1.2338	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	63.7515	31.5659	0.3123	3.1367
1997	1	1	0	0	1	23	23	83	0.0000	55.5168	41.9735	0.0000	1.4911
1.0186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	55.5168	41.9735	0.0000	1.4911
1997	1	1	0	0	1	24	24	84	0.0000	30.0626	60.6906	0.0000	3.8520
4.3311	0.0000	0.5185	0.0000	0.0000	0.0000	0.5453	0.0000	0.0000	0.0000	30.0626	60.6906	0.0000	3.8520
1997	1	1	0	0	1	25	25	70	0.0000	31.0054	42.2872	2.5359	8.4392
10.3865	2.0324	2.5830	0.3739	0.0000	0.0000	0.3565	0.0000	0.0000	0.0000	31.0054	42.2872	2.5359	8.4392
1997	1	1	0	0	1	26	26	71	0.0000	3.4994	34.6036	0.0000	11.2650
39.2701	1.5846	1.1669	7.5626	0.0000	0.0000	1.0479	0.0000	0.0000	0.0000	3.4994	34.6036	0.0000	11.2650
1997	1	1	0	0	1	27	27	57	0.0000	0.0000	6.5709	0.0000	8.9766
47.3030	1.1424	4.7584	25.1591	0.0000	0.0000	4.2457	0.3690	1.4751	0.0000	0.0000	1.3275	0.6359	7.3192
1997	1	1	0	0	1	28	28	53	0.0000	0.0000	0.0000	0.0000	0.0000
41.5941	2.5126	5.7137	14.4586	1.9847	0.3423	20.9463	0.0000	3.1652	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	29	29	41	0.0000	0.0000	0.0000	0.4867	5.2923
27.7307	1.0087	11.1256	17.9942	0.0000	0.0000	21.3837	0.0000	14.9781	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	30	30	28	0.0000	0.0000	0.0000	0.0000	9.0974
8.9385	0.0000	25.6795	9.0501	0.0000	0.0000	34.3430	1.2664	11.6250	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	31	31	27	0.0000	0.0000	0.0000	0.0000	1.2147
41.7978	2.0290	2.5952	11.8538	0.0000	4.1999	27.4161	0.0000	8.8935	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	32	32	21	0.0000	0.0000	0.0000	0.0000	0.0000
1.0886	5.4521	17.8316	44.4122	0.0000	1.4664	23.2795	0.0000	6.4696	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	33	33	11	0.0000	0.0000	0.0000	0.0000	0.0000
7.6294	13.2769	0.0000	25.5173	0.0000	0.0000	36.3945	0.0000	17.1820	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	34	34	11	0.0000	0.0000	0.0000	0.0000	0.0000
16.8148	0.0000	0.0000	25.6379	15.6480	0.0000	19.3959	0.0000	22.5035	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	35	35	5	0.0000	0.0000	0.0000	0.0000	0.0000
7.6800	0.0000	0.0000	0.0000	18.5373	0.0000	73.7827	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	36	36	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	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
1997	1	1	0	0	1	37	37	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	38	38	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	39	39	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	41	41	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	44	44	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	47	47	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	1	0	0	1	51	51	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	56.1924	0.0000	43.8076	0.0000	0.0000	0.0000	0.0000	0.0000
1998	1	1	0	0	1	4	4	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1998	1	1	0	0	1	5	5	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1998	1	1	0	0	1	10	10	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1998	1	1	0	0	1	11	11	3	84.3624	15.6376	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	84.3624	15.6376	0.0000	0.0000	0.0000	0.0000

1998	1	1	0	0	1	12	12	5	84.0573	15.9427	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	13	13	11	95.5126	4.4874	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	14	14	18	84.9865	15.0135	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	15	15	11	83.5617	14.7077	1.7306	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	16	16	15	54.0935	39.6787	6.2278	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	17	17	28	17.6011	66.7594	13.7605	1.8790	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	18	18	43	6.6987	80.3954	9.9845	2.9213	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	19	19	59	0.0299	81.3565	13.2259	5.3877	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	20	20	62	0.6575	72.1464	20.6063	4.6901	1.8998
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	21	21	75	0.0000	47.0522	32.8580	19.0700	0.0000
0.0000	1.0198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	22	22	87	0.0000	19.8186	32.6891	42.8161	1.9217
1.3278	1.4267	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	23	23	113	0.0000	3.9827	27.6299	53.4591	5.5008
3.0994	5.7184	0.0000	0.0000	0.6097	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	24	24	137	0.0000	1.6524	19.3975	55.5276	7.7690
5.5699	7.5661	0.6460	0.5905	1.2809	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	25	25	142	0.0000	0.9564	16.3507	43.8740	5.3304
5.1557	19.0669	1.7902	1.0951	4.5527	0.5967	0.0000	0.9821	0.2492					
1998	1	1	0	0	1	26	26	117	0.0000	0.0117	8.2667	37.8076	5.8029
9.1859	24.3469	2.5185	2.5248	6.6751	0.0000	0.0000	2.8599	0.0000					
1998	1	1	0	0	1	27	27	95	0.0000	0.1861	3.4308	23.4929	4.4030
8.6158	30.9296	3.2865	1.2972	13.1458	1.2393	1.9518	5.3036	2.7176					
1998	1	1	0	0	1	28	28	63	0.0000	0.0000	1.6762	15.5415	2.3650
9.0552	35.0992	2.7475	1.6307	17.9610	0.0000	0.0000	13.7705	0.1534					
1998	1	1	0	0	1	29	29	50	0.0000	0.0000	0.2502	10.3900	3.5439
9.6281	19.5470	0.5881	3.1471	18.1441	0.2985	0.0821	29.7261	4.6548					
1998	1	1	0	0	1	30	30	27	0.0000	0.0000	0.0000	1.0069	1.1001
14.1812	26.2154	9.3837	8.3685	20.6666	0.8194	0.2303	10.2679	7.7600					
1998	1	1	0	0	1	31	31	18	0.0000	0.0000	0.0000	0.0000	0.0000
0.5460	26.4319	0.4085	0.0000	44.4382	0.0000	0.0000	20.9593	7.2162					
1998	1	1	0	0	1	32	32	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	11.9887	0.0000	0.0000	0.0000	0.0000	0.0000	80.6457	7.3655					
1998	1	1	0	0	1	33	33	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	3.7431	0.0000	0.0000	0.0000	36.1151	0.0000	56.6274	3.5145					
1998	1	1	0	0	1	34	34	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	19.9088	1.6194	0.0000	28.6377	0.0000	0.0000	49.8342	0.0000					
1998	1	1	0	0	1	35	35	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	25.1189	0.0000	0.0000	12.8626	0.0000	0.0000	62.0185	0.0000					
1998	1	1	0	0	1	36	36	5	0.0000	0.0000	0.0000	2.8677	0.0000
0.0000	9.5078	0.0000	0.0000	0.0000	0.0000	0.0000	87.6245	0.0000					
1998	1	1	0	0	1	37	37	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	38	38	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	39.2386	0.0000	0.0000	0.0000	0.0000	0.0000	60.7614	0.0000					
1998	1	1	0	0	1	39	39	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	40	40	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	2.2964	0.0000	0.0000	0.0000	97.7036	0.0000	0.0000	0.0000					
1998	1	1	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	60.7614	0.0000	0.0000	39.2386	0.0000					
1998	1	1	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000					
1998	1	1	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000					
1998	1	1	0	0	1	49	49	1	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	100.0000					
1998	1	1	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	27.0847	27.0847	0.0000	0.0000	45.8305	0.0000					
1999	1	1	0	0	1	6	6	1	100.0000	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					

1999	1	1	0	0	1	9	9	1	66.6667	33.3333	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	10	10	3	16.7399	83.2601	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	11	11	10	78.7176	14.9689	6.3136	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	12	12	10	73.8249	20.2209	5.9542	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	13	13	12	52.7214	47.2786	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	14	14	25	64.8728	35.1272	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	15	15	40	43.3581	46.7861	8.2564	1.5994	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	16	16	52	34.2192	58.1022	7.6786	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	17	17	55	15.1224	66.5198	18.3579	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	18	18	59	3.0374	71.2788	22.0782	3.6056	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	19	19	80	1.4366	69.4446	23.4475	4.0797	1.5916
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	20	20	80	0.0000	58.1301	32.1410	6.2737	1.4056
1.0904	0.9593	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	21	21	73	0.0000	27.7772	47.0431	15.6080	6.2386
1.6860	0.0000	0.0000	0.0000	0.0000	0.8235	0.8235	0.0000	0.0000					
1999	1	1	0	0	1	22	22	78	0.0000	16.4514	49.8615	20.3876	7.7908
1.8806	0.8763	1.7526	0.0000	0.8763	0.1229	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	23	23	66	0.0000	5.5692	36.7598	36.6603	14.3764
3.7905	2.7360	0.1078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	24	24	94	0.0000	1.3046	33.8413	28.8908	21.3883
2.3356	5.7290	3.6238	0.0000	0.0000	0.9622	0.9622	0.9622	0.0000					
1999	1	1	0	0	1	25	25	90	0.0000	0.9476	15.7103	36.9018	20.6983
2.9795	8.6589	7.9110	0.8786	0.7824	2.6570	1.0923	0.0000	0.7824					
1999	1	1	0	0	1	26	26	99	0.0000	0.0000	10.9906	32.8741	20.6172
5.7569	13.5580	7.6005	0.0000	0.0456	3.5294	0.0000	2.0785	2.9490					
1999	1	1	0	0	1	27	27	82	0.0000	0.0000	2.3189	42.1622	21.7602
8.7589	4.2756	8.2643	4.2602	1.8286	2.5842	0.0000	1.7228	2.0640					
1999	1	1	0	0	1	28	28	74	0.0000	0.0000	2.0791	23.6331	23.7682
4.1893	14.1082	9.8305	1.5909	2.3398	7.9025	1.4892	2.9784	6.0909					
1999	1	1	0	0	1	29	29	55	0.0000	0.0000	0.0000	10.1890	9.6222
5.6381	12.5988	19.8664	2.0996	9.7728	15.0654	0.0000	7.3573	7.7903					
1999	1	1	0	0	1	30	30	36	0.0000	0.0000	0.1446	14.4151	4.4422
7.8370	4.9153	24.5844	5.1654	0.9763	19.5735	0.1035	6.5103	11.3324					
1999	1	1	0	0	1	31	31	20	0.0000	0.0000	0.0000	4.9662	0.8617
1.4556	4.9516	10.9021	4.4600	10.6214	21.3847	0.0000	4.4600	35.9366					
1999	1	1	0	0	1	32	32	16	0.0000	0.0000	0.0000	0.4612	13.1892
6.1493	6.3388	31.9878	0.5514	5.2644	10.6259	10.3805	0.0000	15.0513					
1999	1	1	0	0	1	33	33	11	0.0000	0.0000	0.0000	7.6764	0.0000
7.6764	0.0000	9.0443	0.0000	9.1392	24.2482	18.3933	0.0000	23.8221					
1999	1	1	0	0	1	34	34	7	0.0000	0.0000	0.0000	0.0000	0.8750
0.0000	1.4422	12.2047	0.0000	32.5474	1.5067	0.0000	0.0000	51.4239					
1999	1	1	0	0	1	35	35	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	16.5898	16.5898	0.0000	27.9354	36.3964	0.0000	0.0000	2.4885					
1999	1	1	0	0	1	36	36	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000					
1999	1	1	0	0	1	37	37	1	0.0000	0.0000	0.0000	0.0000	21.4280
0.0000	0.0000	42.8561	0.0000	0.0000	0.0000	0.0000	0.0000	35.7159					
1999	1	1	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	20.8992	0.0000	0.0000	26.4777	20.8992	0.0000	4.9298	26.7941					
1999	1	1	0	0	1	39	39	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	41.1149	0.0000	0.0000	58.8851					
1999	1	1	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	0.0000	0.0000	20.8674	0.0000	0.0000	0.0000	29.1326					
1999	1	1	0	0	1	41	41	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	6.3173	0.0000	0.0000	0.0000	0.0000	0.0000	93.6827					
1999	1	1	0	0	1	42	42	3	0.0000	0.0000	0.0000	0.0000	9.7276
0.0000	0.0000	2.9210	0.0000	0.0000	87.3514	0.0000	0.0000	0.0000					
1999	1	1	0	0	1	43	43	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	6.0903	0.0000	0.0000	93.9097	0.0000	0.0000	0.0000					

1999	1	1	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1999	1	1	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1999	1	1	0	0	1	51	51	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	9	9	3	100.0000	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
2000	1	1	0	0	1	10	10	3	100.0000	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
2000	1	1	0	0	1	11	11	4	100.0000	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
2000	1	1	0	0	1	12	12	4	73.7213	26.2787	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
2000	1	1	0	0	1	13	13	3	100.0000	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
2000	1	1	0	0	1	14	14	2	38.0530	61.9470	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
2000	1	1	0	0	1	15	15	3	89.2710	7.2036	3.5255	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
2000	1	1	0	0	1	16	16	4	63.2030	28.7504	0.0000	8.0466	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
2000	1	1	0	0	1	17	17	7	64.7649	21.0059	14.2291	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
2000	1	1	0	0	1	18	18	19	22.1827	64.3980	13.4193	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
2000	1	1	0	0	1	19	19	18	26.3559	43.4415	21.3910	8.8115	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
2000	1	1	0	0	1	20	20	28	30.9143	30.0144	23.3670	9.8605	0.5524
0.0000	5.2914	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	21	21	43	6.2583	44.8951	21.3236	15.6613	2.9654
2.9654	5.9308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	22	22	53	3.5119	25.8254	37.6828	20.9613	4.5247
2.4980	2.4980	0.0000	2.4980	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	23	23	66	0.9163	7.8170	39.7616	14.7483	25.0143
4.7273	2.4119	0.0000	2.3016	0.0000	0.0000	2.3016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	24	24	99	0.0839	20.6140	32.9012	16.0794	15.7941
4.3825	2.1116	4.6634	0.0000	0.0000	1.6850	0.0000	1.6850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	25	25	105	0.0433	6.9693	36.7134	22.8851	16.7679
9.6636	2.9646	3.0896	0.8899	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	26	26	116	0.0427	3.0924	26.7106	27.9124	19.2771
7.4489	8.3718	1.6807	0.6731	1.5336	2.2538	0.1010	0.0000	0.9019	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	27	27	137	0.0431	1.8367	12.1784	18.7690	29.0003
15.5817	13.5194	4.1899	0.6785	0.3589	1.6578	0.5622	0.0000	1.6242	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	28	28	147	0.0000	0.9625	5.4100	20.2993	27.8947
13.4626	12.8963	8.5213	0.0959	2.1515	3.1566	0.0340	2.0460	3.0695	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	29	29	128	0.0000	0.0305	5.2480	15.9985	22.2338
15.7844	13.0451	6.7125	3.4663	1.4761	5.9539	1.1765	1.7143	7.1601	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	30	30	115	0.0000	0.0000	3.8856	10.3964	25.6470
17.3660	13.0379	9.8670	4.5372	4.3572	3.1664	1.6298	1.9240	4.1854	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	31	31	88	0.0000	0.0000	0.0000	0.0000	5.8523
22.7566	9.9678	11.5889	6.5938	1.7424	2.7764	4.8148	0.0000	10.3794	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	32	32	66	0.0000	0.0000	0.0000	5.1463	32.5426
16.2887	3.8644	9.3523	1.9830	4.7794	4.9797	4.4849	6.7005	9.8782	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	33	33	40	0.0000	0.0000	0.0540	5.6925	24.9033
19.1026	11.5565	12.2908	0.4610	10.3941	0.1645	0.5259	2.4664	12.3884	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	34	34	23	0.0000	0.0000	0.0000	5.2270	21.1771
19.7987	6.1267	15.3353	5.7971	7.4912	5.5258	0.0000	6.0298	7.4912	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	35	35	20	0.0000	0.0000	0.0000	0.0000	18.7127
20.8065	11.0158	18.2115	8.2830	15.0189	0.0000	0.0000	0.0000	7.9516	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	36	36	12	0.0000	0.0000	0.0000	0.0000	35.2334
17.5224	24.0535	6.3134	5.5777	5.6757	0.0231	5.5777	0.0231	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	37	37	13	0.0000	0.0000	0.0000	0.0000	17.5409
1.2538	0.0000	23.2508	0.0000	11.4287	3.0309	28.8278	0.0000	14.6671	0.0000	0.0000	0.0000	0.0000	0.0000
2000	1	1	0	0	1	38	38	5	0.0000	0.0000	0.0000	0.0000	0.0000
19.4205	13.8887	33.0222	11.0599	0.6225	0.0000	8.3846	0.0000	13.6017	0.0000	0.0000	0.0000	0.0000	0.7385
2000	1	1	0	0	1	39	39	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	1.4820	0.0000	0.0000	10.7186	28.3164	10.7186	0.0000	48.0260	0.0000	0.0000	0.0000	0.0000	7.6149
2000	1	1	0	0	1	40	40	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	32.2634	0.0000	1.8841	0.0000	0.0000	1.2920	56.9457	0.0000	0.0000	0.0000	0.0000	0.0000

2000	1	1	0	0	1	41	41	5	0.0000	0.0000	0.0000	0.0000	0.0000
14.1219	0.0000	33.1925	2.3169	17.5258	0.0000	31.6478	0.0000	1.1951					
2000	1	1	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	65.0793	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	34.9207	0.0000				
2000	1	1	0	0	1	43	43	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	10.7871	0.0000	0.0000	0.0000	8.3187	0.0000	80.8942	0.0000					
2000	1	1	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	2.4409	29.4190	0.0000	0.0000	68.1401					
2000	1	1	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
2000	1	1	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	1	0	0	1	50	50	1	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	100.0000					
2000	1	1	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	8	8	2	100.0000	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					
2001	1	1	0	0	1	9	9	1	100.0000	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					
2001	1	1	0	0	1	10	10	1	100.0000	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					
2001	1	1	0	0	1	11	11	10	95.9778	4.0222	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	12	12	9	93.5221	6.4779	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	13	13	21	92.9413	1.9074	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	5.1512	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	14	14	24	95.7760	4.2240	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	15	15	31	90.9084	7.8572	1.2344	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	16	16	36	85.1036	14.5686	0.3278	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	17	17	56	88.2366	8.9047	2.8587	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	18	18	62	77.4209	20.2324	0.0000	2.3467	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	19	19	68	74.0227	23.5341	2.4432	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	20	20	65	46.3746	42.9605	2.4435	6.2020	0.0000
0.0000	0.0000	0.0000	0.0000	2.0195	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	21	21	70	13.1090	56.0554	23.3298	6.1027	0.2711
1.1320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	22	22	109	2.7292	65.0400	24.6454	5.9101	0.0000
1.6753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	23	23	119	1.2550	69.4917	17.6483	8.6518	2.8703
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0829	0.0000	0.0000					
2001	1	1	0	0	1	24	24	123	0.0695	61.7720	16.0545	18.0592	1.9308
2.1141	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	25	25	142	0.0000	35.8368	13.9841	30.9442	11.2071
3.5005	3.2523	1.2750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	26	26	151	0.0938	17.6416	14.1810	48.6099	11.5474
5.1088	1.9449	0.4494	0.0000	0.0000	0.0000	0.4233	0.0000						
2001	1	1	0	0	1	27	27	173	0.0000	10.6480	20.5747	37.2092	16.2353
6.7042	2.4634	2.2876	2.3526	1.1703	0.3547	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	28	28	178	0.0000	5.1329	18.2448	31.1757	15.5091
14.5847	9.0923	0.6600	1.2589	0.9425	1.5540	0.0000	0.6466	1.1984					
2001	1	1	0	0	1	29	29	194	0.0155	2.2958	15.1515	30.5911	18.9474
15.4137	10.3707	1.8362	1.2104	0.6287	1.2201	0.6147	0.6665	1.0375					
2001	1	1	0	0	1	30	30	144	0.0000	0.5489	13.6924	29.8718	9.3637
23.9768	8.6189	1.7795	3.1621	2.0730	2.5536	0.8860	2.2639	1.2094					
2001	1	1	0	0	1	31	31	106	0.0000	1.1652	7.4980	20.2722	14.1639
38.0681	8.3872	2.0978	0.3794	4.5652	1.9881	1.2505	0.0701	0.0942					
2001	1	1	0	0	1	32	32	76	0.0000	0.0000	15.5843	8.4208	21.9056
13.8447	10.8587	7.8062	9.5847	5.9296	1.2831	3.5411	0.1503	1.0910					
2001	1	1	0	0	1	33	33	60	0.0000	0.0000	13.5650	13.5613	7.0499
30.2319	12.6362	2.1519	5.1264	2.2545	4.6611	4.3295	0.0936	4.3386					
2001	1	1	0	0	1	34	34	42	0.0000	0.0000	6.0734	7.4456	13.3753
31.9560	19.9101	4.0477	4.3653	0.9251	3.7582	0.0000	7.6722	0.4710					

2001	1	1	0	0	1	35	35	37	0.0000	0.0000	0.7205	4.8680	15.9894
24.4527	32.5706	0.3114	0.5910	7.0157	6.1728	0.1484	0.0930	7.0664					
2001	1	1	0	0	1	36	36	12	0.0000	0.0000	0.0000	0.0000	13.4074
49.9664	13.7161	0.0000	0.3940	7.9921	9.0519	5.4722	0.0000	0.0000					
2001	1	1	0	0	1	37	37	9	0.0000	0.0000	8.8044	0.0000	4.1820
12.8278	14.9037	43.0546	16.2276	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	38	38	12	0.0000	19.3100	0.0000	0.0000	1.3829
21.8286	1.0864	22.1189	19.3100	0.5865	0.0000	1.4751	12.2246	0.6770					
2001	1	1	0	0	1	39	39	2	0.0000	0.0000	0.0000	0.0000	27.0015
1.8995	0.0000	0.0000	0.0000	0.0000	27.0015	44.0975	0.0000	0.0000					
2001	1	1	0	0	1	40	40	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	2.9322	0.0000	0.0000	0.0000	0.0000	48.0951	48.9728						
2001	1	1	0	0	1	41	41	5	0.0000	0.0000	0.0000	44.7025	0.0000
7.4542	1.6916	0.0000	0.0000	0.0000	1.4491	44.7025	0.0000	0.0000					
2001	1	1	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	44	44	1	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	100.0000					
2001	1	1	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	1	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	95.3846	0.0000	0.0000	0.0000	0.0000	4.6154					
2001	1	1	0	0	1	47	47	1	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	100.0000					
2001	1	1	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	12	12	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	15	15	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	16	16	3	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	17	17	13	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	18	18	27	2.1247	95.7506	2.1247	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	19	19	64	0.0000	95.3590	2.6181	0.8727	0.1388
0.1388	0.0000	0.8727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	20	20	113	0.0000	95.1641	4.7887	0.0000	0.0472
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	21	21	153	0.0000	91.9980	6.8703	1.0339	0.0000
0.0000	0.0000	0.0363	0.0000	0.0000	0.0615	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	22	22	176	0.0000	85.3873	13.5144	0.0935	0.6986
0.0000	0.3063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	23	23	156	0.0000	76.9563	18.7587	3.8293	0.0000
0.0000	0.4558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	24	24	131	0.0000	61.9711	31.2492	1.5222	3.2625
1.3795	0.0000	0.0000	0.0000	0.0000	0.5376	0.0000	0.0778	0.0000					
2002	1	1	0	0	1	25	25	105	0.0000	39.0308	45.9714	5.7554	4.7361
2.4839	0.6742	1.3483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	26	26	78	0.0000	27.8686	42.5815	7.9604	14.4468
6.0645	0.1414	0.9367	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	27	27	66	0.0000	8.3326	39.6765	13.2185	27.6347
3.7522	5.7478	1.4087	0.2290	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	28	28	67	0.0000	2.7011	26.9102	33.6869	20.8813
6.9134	1.3533	3.9401	0.4590	0.0000	0.3573	0.1180	2.1619	0.5174					
2002	1	1	0	0	1	29	29	72	0.0000	3.7211	29.3903	16.6517	11.7773
24.6006	3.8595	6.0239	1.8356	0.1292	1.6634	0.0000	0.1200	0.2275					
2002	1	1	0	0	1	30	30	79	0.0000	2.8874	27.1716	21.5811	29.1158
4.5262	6.4876	6.8730	0.7104	0.1656	0.1582	0.0000	0.1286	0.1944					
2002	1	1	0	0	1	31	31	82	0.0000	0.6613	19.9942	13.9671	30.3310
8.3989	12.7945	6.5990	0.4834	2.8304	3.4525	0.2257	0.0000	0.2621					
2002	1	1	0	0	1	32	32	72	0.0000	0.3070	8.2051	23.8282	13.9686
27.3380	11.9489	12.6803	0.6145	0.5761	0.5333	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	33	33	58	0.0000	0.3672	6.2893	16.7879	9.8708
17.8136	12.8968	9.5981	16.4217	0.0000	8.6194	0.6374	0.0000	0.6977					
2002	1	1	0	0	1	34	34	50	0.0000	0.0000	14.7230	9.9641	2.2431
11.0384	33.0824	9.0271	7.5940	7.3923	4.9357	0.0000	0.0000	0.0000					

2002	1	1	0	0	1	35	35	41	0.0000	0.2562	0.0000	18.6323	1.4458
7.5585	47.3363	10.7860	3.2565	7.2374	3.2565	0.0000	0.0000	0.2345					
2002	1	1	0	0	1	36	36	28	0.0000	0.7756	0.0000	14.8504	13.6231
28.6137	11.3758	25.9824	0.8431	1.9463	0.0000	0.9820	1.0077	0.0000					
2002	1	1	0	0	1	37	37	18	0.0000	0.0000	0.0000	0.0000	32.7828
35.6290	4.5513	2.2117	0.0000	0.0000	1.1863	0.0000	5.3638	18.2751					
2002	1	1	0	0	1	38	38	14	0.0000	0.0000	0.0000	18.8628	0.0000
19.3713	37.8863	0.8121	1.2883	1.4147	0.0000	0.7682	0.0000	19.5962					
2002	1	1	0	0	1	39	39	8	0.0000	0.0000	0.0000	0.0000	4.1331
4.8763	2.1347	10.9486	3.5786	0.0000	4.6230	0.0000	0.0000	69.7056					
2002	1	1	0	0	1	40	40	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	93.8252	6.1748	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	41	41	5	0.0000	0.0000	0.0000	2.1014	0.0000
0.0000	3.6248	0.0000	0.0000	3.5704	0.0000	0.0000	0.0000	90.7035					
2002	1	1	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	43	43	3	0.0000	71.2562	0.0000	0.0000	0.0000
0.0000	25.3191	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.4247					
2002	1	1	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
96.2401	3.7599	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	45	45	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	2.6431	94.2989	0.0000	0.0000	0.0000	0.0000	3.0580	0.0000					
2002	1	1	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2002	1	1	0	0	1	47	47	1	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	100.0000					
2002	1	1	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000					
2002	1	1	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000					
2003	1	1	0	0	1	9	9	1	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	12	12	2	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	14	14	3	25.2301	0.0000	74.7699	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	15	15	2	34.9659	0.0000	65.0341	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	16	16	6	0.0000	0.0000	67.0445	14.1793	0.0000
18.7762	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	17	17	29	0.0000	12.2885	83.2166	1.9813	2.5135
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	18	18	42	1.1988	12.8783	83.0554	2.8676	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	19	19	60	2.2291	7.6961	85.4308	4.1879	0.4560
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	20	20	92	0.0000	2.3275	89.5888	3.2734	2.3196
1.8821	0.2846	0.0000	0.3239	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	21	21	133	0.0000	4.0689	89.5841	5.2243	0.5236
0.0000	0.2340	0.2564	0.1086	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	22	22	205	0.0000	2.8459	88.3861	6.9350	0.5548
0.4165	0.8618	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	23	23	264	0.0000	0.4083	89.4417	6.6850	1.4535
0.6877	0.6883	0.4073	0.1332	0.0951	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	24	24	283	0.0000	0.1593	86.0198	10.2672	1.1032
1.3384	0.5554	0.3432	0.2136	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	25	25	246	0.0000	0.2776	79.7670	14.2516	1.7941
2.0656	1.5960	0.1232	0.1249	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	1	0	0	1	26	26	181	0.0000	0.1333	77.5086	13.0956	1.8959
3.6664	0.9438	1.0921	0.0000	0.5915	0.7648	0.3079	0.0000	0.0000					
2003	1	1	0	0	1	27	27	121	0.0000	0.2067	65.4895	12.0669	3.3837
9.3931	2.9650	4.2310	0.8764	0.5092	0.0000	0.8786	0.0000	0.0000					
2003	1	1	0	0	1	28	28	77	0.0000	0.0000	33.6670	11.6543	6.0799
20.3503	14.1684	4.8268	5.4192	1.5674	0.0510	1.0221	1.1935	0.0000					
2003	1	1	0	0	1	29	29	57	0.0000	0.0000	35.1596	19.7946	5.2402
9.1708	5.5373	9.7924	7.4154	3.0304	0.0000	2.6344	0.0000	2.2249					
2003	1	1	0	0	1	30	30	39	0.0000	0.0000	19.4786	16.4214	1.5509
7.1147	18.0604	23.1486	9.4697	2.0218	1.0150	1.7189	0.0000	0.0000					
2003	1	1	0	0	1	31	31	38	0.0000	0.0000	15.8513	16.4441	10.9165
9.2181	7.0915	16.1898	6.8618	10.0104	2.4671	2.2992	0.0000	2.6502					

2003	1	1	0	0	1	32	32	20	0.0000	0.0000	4.2346	32.6408	6.4441
9.0262	11.9501	16.3696	0.0000	9.1170	4.1168	6.1008	0.0000	0.0000	0.0000	0.0000	6.4424	34.3507	5.4137
2003	1	1	0	0	1	33	33	16	0.0000	0.0000	13.4015	51.3801	14.1402
6.0061	11.0266	5.7823	20.1238	0.0000	5.2997	0.0000	0.0000	5.5546	0.0000	0.0000	33.2167	0.0000	0.0000
2003	1	1	0	0	1	34	34	5	0.0000	0.0000	38.2433	16.4437	24.2959
25.1978	21.7596	0.0000	0.0000	19.8259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	32.2822	42.7351	0.0000
2003	1	1	0	0	1	35	35	7	0.0000	0.0000	100.0000	0.0000	0.0000
10.1843	10.8940	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1	1	0.0000
2003	1	1	0	0	1	36	36	4	0.0000	0.0000	2.2	2	0.0000
0.0000	21.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.2	3	0.0000
2003	1	1	0	0	1	37	37	3	0.0000	0.0000	4.2	4	0.0000
0.0000	0.0000	0.0000	0.0000	24.9826	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	32.2822	42.7351	0.0000
2003	1	1	0	0	1	39	39	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2003	1	1	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2003	1	1	0	0	1	46	46	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	1	1	1	0.0000	0.0000	0.0000	0.0000	100.0000
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
2004	1	1	0	0	1	12	12	1	0.0000	100.0000	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
2004	1	1	0	0	1	18	18	3	0.0000	63.2642	0.0000	36.7358	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
2004	1	1	0	0	1	19	19	11	0.0000	77.3693	0.0000	22.6307	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
2004	1	1	0	0	1	20	20	29	0.0000	92.6811	2.2532	5.0657	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
2004	1	1	0	0	1	21	21	73	0.0000	50.0519	17.6992	31.7298	0.0000
0.0000	0.5191	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	22	22	138	0.0000	32.4013	25.3699	39.9976	2.2312
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
2004	1	1	0	0	1	23	23	197	0.0000	13.8919	16.5786	67.2869	1.1605
0.0000	0.7766	0.0000	0.0000	0.3055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	24	24	284	0.0000	3.0144	12.0693	80.7552	3.4935
0.4686	0.1991	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	25	25	298	0.0000	2.5257	9.1366	84.1121	2.6172
0.2573	0.9314	0.3394	0.0803	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	26	26	294	0.0000	1.4280	5.8292	83.5539	5.5435
0.8517	1.5154	1.0835	0.1948	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	27	27	244	0.0000	0.1267	2.9676	80.2288	7.6396
2.4816	2.0360	3.7034	0.2372	0.5790	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	28	28	152	0.0000	0.0000	4.0231	69.4477	10.0168
2.8533	7.5588	2.6439	0.3267	2.2272	0.9026	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	29	29	119	0.0000	0.5749	2.6379	53.2718	9.7971
3.9583	15.6514	7.3959	1.7396	1.6748	0.0000	1.8014	0.0000	1.4968	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	30	30	60	0.0000	0.0000	0.6451	41.3696	19.0949
2.8149	19.2128	9.5931	4.0456	2.4869	0.7371	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	31	31	42	0.0000	0.0000	1.2560	31.0031	25.6111
5.6608	16.3221	4.2278	4.7061	8.0432	0.0000	3.1697	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	32	32	25	0.0000	0.0000	0.0000	0.0000	24.0461
15.8494	8.6043	18.9752	3.4351	0.0000	3.4351	3.5486	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	33	33	19	0.0000	0.0000	0.0000	0.0000	16.4877
9.7346	17.6822	20.8506	18.3691	0.0000	4.9987	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	34	34	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	35.8547	15.7928	33.1203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	35	35	7	0.0000	5.5496	0.0000	0.0000	34.0364
0.0000	10.2865	10.2865	20.4223	19.4187	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	36	36	6	0.0000	0.0000	0.0000	0.0000	30.9837
30.3672	21.1318	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17.5173	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	20.8897
41.7794	12.4672	0.0000	2.0014	14.6808	0.0000	0.0000	0.0000	0.0000	8.1814	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	38	38	2	0.0000	0.0000	0.0000	0.0000	53.2028
0.0000	0.0000	0.0000	0.0000	0.0000	46.7972	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	39	39	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	46.0878	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	53.9122	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	41	41	3	0.0000	0.0000	0.0000	0.0000	0.0000
31.1297	0.0000	33.4506	0.0000	0.0000	0.0000	35.4197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2004	1	1	0	0	1	42	42	2	0.0000	0.0000	0.0000	100.0000	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
2004	1	1	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	45	45	2	0.0000	0.0000	0.0000	62.4946	0.0000
0.0000	0.0000	37.5054	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2004	1	1	0	0	1	51	51	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	31.8608	36.2785	0.0000	31.8608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	14	14	1	100.0000	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
2005	1	1	0	0	1	15	15	2	100.0000	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
2005	1	1	0	0	1	16	16	4	75.9636	0.0000	0.0000	0.0000	24.0364
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
2005	1	1	0	0	1	18	18	4	59.1465	0.0000	0.0000	0.0000	20.4268
0.0000	0.0000	0.0000	0.0000	20.4268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	19	19	4	100.0000	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
2005	1	1	0	0	1	20	20	12	60.4380	14.8376	15.4973	0.0000	9.2271
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
2005	1	1	0	0	1	21	21	34	22.8172	15.4977	25.4324	0.0000	36.2527
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
2005	1	1	0	0	1	22	22	74	0.0000	4.1547	43.8205	3.7988	45.9248
2.3011	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
2005	1	1	0	0	1	23	23	164	0.0000	1.0947	19.4241	10.5147	60.8563
6.8488	1.2613	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	24	24	295	0.0000	1.1515	18.5480	7.4110	67.5427
4.5849	0.7619	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	25	25	362	0.0000	0.1610	11.0382	7.7153	71.3990
7.2409	1.5930	0.3777	0.4749	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	26	26	373	0.0000	0.0000	6.2876	7.1447	77.4137
6.2128	1.2949	0.8957	0.2733	0.4774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	27	27	324	0.0000	0.0000	2.7079	4.8809	78.6475
5.4771	4.1960	1.6608	1.4938	0.1942	0.7419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	28	28	246	0.0000	0.0000	2.4570	5.9689	73.1165
8.1584	1.6351	3.5234	3.3170	0.4923	0.8471	0.0000	0.4844	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	29	29	150	0.0000	0.0000	0.0000	5.4446	60.8193
12.2810	2.4857	9.1187	4.7743	1.2780	3.7983	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	30	30	98	0.0000	0.0000	0.0000	0.0000	57.4716
13.7951	9.7457	10.4795	3.1058	1.0874	2.4240	1.8909	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	31	31	63	0.0000	0.0000	0.0000	0.0000	57.7884
9.1190	3.9215	8.5727	4.4900	5.0715	3.4948	5.2985	0.0000	2.2436	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	32	32	42	0.0000	0.0000	0.0000	2.4743	50.2460
5.5151	1.3506	12.9541	12.1306	6.4064	8.9231	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	33	33	16	0.0000	0.0000	0.0000	0.0000	73.4832
8.8881	0.0000	0.0000	0.0000	17.6287	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	34	34	19	0.0000	0.0000	4.2726	0.0000	28.2234
15.9563	20.3060	12.4316	0.0000	8.1613	10.6489	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	35	35	9	0.0000	0.0000	0.0000	18.2674	29.8330
13.0949	9.7737	10.9861	0.0000	0.0000	0.0000	0.0000	0.0000	18.0449	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	36	36	5	0.0000	0.0000	0.0000	0.0000	100.0000
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
2005	1	1	0	0	1	37	37	8	0.0000	0.0000	0.0000	0.0000	80.6927
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
2005	1	1	0	0	1	38	38	8	0.0000	0.0000	0.0000	0.0000	62.5334
0.0000	37.4666	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	39	39	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	40	40	4	0.0000	0.0000	0.0000	0.0000	0.0000
38.7649	0.0000	0.0000	0.0000	0.0000	61.2351	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	47	47	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	1	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1977	1	2	0	0	1	51	60	0.0021	0.0021	0.0516	0.0186	0.0619	
0.3773	0.1093	0.1031	0.0866	0.0825	0.0722	0.0330	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1978	1	2	0	0	1	1	51	60	0.0000	0.0000	0.0339	0.0593	0.0475
0.1797	0.2220	0.1898	0.1051	0.0814	0.0356	0.0305	0.0153	0.0000					
1979	1	2	0	0	1	1	51	60	0.0000	0.0000	0.0188	0.0554	0.1162
0.1019	0.1877	0.2699	0.0983	0.0706	0.0331	0.0223	0.0152	0.0107					
1980	1	2	0	0	1	1	51	60	0.0000	0.0000	0.0000	0.0311	0.0411
0.1629	0.0609	0.0782	0.4464	0.0841	0.0411	0.0411	0.0133	0.0000					
1981	1	2	0	0	1	1	51	60	0.0000	0.0000	0.0488	0.0131	0.0682
0.0667	0.2070	0.0411	0.1141	0.2988	0.0721	0.0290	0.0411	0.0000					
1982	1	2	0	0	1	1	51	60	0.0000	0.0000	0.0221	0.4268	0.0352
0.0460	0.0451	0.1410	0.0320	0.0249	0.1931	0.0189	0.0150	0.0000					
1983	1	2	0	0	1	1	51	60	0.0009	0.2180	0.0160	0.0280	0.4999
0.0201	0.0291	0.0260	0.0869	0.0120	0.0040	0.0530	0.0040	0.0020					
1984	1	2	0	0	1	1	51	60	0.0000	0.0180	0.2150	0.0280	0.1500
0.3380	0.0331	0.0381	0.0250	0.0779	0.0151	0.0130	0.0429	0.0060					
1985	1	2	0	0	1	1	51	60	0.0020	0.0020	0.0808	0.2648	0.0544
0.1072	0.3173	0.0162	0.0181	0.0181	0.0544	0.0122	0.0000	0.0524					
1986	1	2	0	0	1	1	51	60	0.0021	0.0021	0.0043	0.0608	0.5878
0.0369	0.0369	0.1757	0.0196	0.0087	0.0152	0.0217	0.0066	0.0217					
1987	1	2	0	0	1	1	51	60	0.0000	0.0094	0.0063	0.0016	0.0268
0.7414	0.0300	0.0300	0.1088	0.0063	0.0047	0.0126	0.0094	0.0126					
1988	1	2	0	0	1	16	16	1	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	18	18	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	19	19	1	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	20	20	3	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	21	21	4	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	22	22	4	0.0000	6.3044	89.6250	0.0000	0.0000
0.0000	4.0706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	23	23	4	0.0000	0.0000	60.7560	0.0000	0.0000
2.3914	36.8526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	24	24	5	0.0000	1.5729	41.7798	0.0000	3.5574
1.5437	50.2753	0.0000	0.0000	1.2709	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	25	25	5	0.0000	0.0000	26.6184	1.2935	0.9831
1.0017	68.4734	0.0000	0.6468	0.9831	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	26	26	5	0.0000	1.1629	17.6282	0.9447	0.9447
0.4196	76.1232	1.2997	0.0000	1.4770	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	27	27	5	0.0000	0.0000	9.1513	0.0000	1.5958
2.1765	85.4805	1.5958	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	28	28	5	0.0000	0.0000	5.6998	0.3985	1.7216
1.2115	85.2983	1.1044	0.3985	3.6688	0.4987	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	29	29	5	0.0000	0.0000	4.3091	0.7201	1.1850
1.9050	79.8803	2.7018	1.4401	7.8586	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	30	30	5	0.0000	0.0000	0.8354	0.8354	0.0000
2.7857	74.1439	2.3901	1.6865	17.3232	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	31	31	5	0.0000	1.3332	0.0000	0.5231	
0.7951	81.1743	1.3332	1.5663	12.7516	0.0000	0.0000	0.5231	0.0000					
1988	1	2	0	0	1	32	32	5	0.0000	0.0000	0.0000	0.0000	
2.2722	62.0348	1.2485	5.5389	25.5848	0.0000	0.0000	1.6604	1.6604					
1988	1	2	0	0	1	33	33	5	0.0000	0.0000	0.0000	0.0000	
3.8442	64.7440	1.5798	0.0000	25.4487	0.0000	2.9553	0.6382	0.7899					
1988	1	2	0	0	1	34	34	5	0.0000	0.0000	0.0000	0.0000	
0.0000	52.9545	1.0714	4.2796	29.8044	0.0000	2.6815	0.0000	9.2085					
1988	1	2	0	0	1	35	35	5	0.0000	0.0000	2.5509	0.0000	0.0000
0.0000	55.9367	6.0172	5.1019	24.0494	2.6389	0.0000	1.0661	2.6389					
1988	1	2	0	0	1	36	36	4	0.0000	0.0000	0.0000	0.0000	
0.0000	49.7658	0.0000	3.8324	19.9592	0.0000	4.0981	0.0000	22.3446					
1988	1	2	0	0	1	37	37	4	0.0000	0.0000	3.9552	0.0000	0.0000
0.0000	40.6330	1.3209	7.9104	36.3443	4.0916	0.0000	0.0000	5.7446					
1988	1	2	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	
0.0000	20.8516	6.9982	7.4834	35.7035	0.0000	10.1257	0.0000	18.8376					
1988	1	2	0	0	1	39	39	4	0.0000	0.0000	0.0000	0.0000	
0.0000	21.9616	4.6980	7.7314	43.6475	0.0000	9.0828	3.7959	9.0828					
1988	1	2	0	0	1	40	40	3	0.0000	0.0000	15.7404	0.0000	0.0000
0.0000	46.2006	0.0000	0.0000	38.0590	0.0000	0.0000	0.0000	21.7317					
1988	1	2	0	0	1	41	41	3	0.0000	0.0000	0.0000	0.0000	
0.0000	56.5366	0.0000	0.0000	15.9231	5.8085	0.0000	0.0000						

1988	1	2	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	71.5686	0.0000	0.0000	0.0000	28.4314					
1988	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000	0.0000					
1988	1	2	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000					
1988	1	2	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	50.0000					
1988	1	2	0	0	1	46	46	1	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	100.0000					
1988	1	2	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	21	21	2	0.0000	0.0000	0.0000	0.0000	100.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	22	22	5	0.0000	5.8167	0.0000	84.1468	0.0000
0.0000	0.0000	10.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	23	23	6	0.0000	0.0000	0.0000	92.2612	0.0000
0.0000	0.0000	7.7388	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	24	24	6	0.0000	0.0000	0.0000	75.6758	0.0000
0.0000	0.0000	24.1465	0.0000	0.0000	0.1777	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	25	25	6	0.0000	0.0000	0.0000	69.7277	0.0000
0.0000	0.0000	30.2723	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	26	26	6	0.0000	0.0000	1.1227	56.4107	0.0000
0.0000	0.0000	41.8502	0.0000	0.6165	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	27	27	6	0.0000	0.0000	0.0955	47.7346	0.0000
0.0000	0.7973	49.2166	0.0000	1.5975	0.5584	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	28	28	6	0.0000	0.0000	0.0000	34.2849	0.7332
1.0387	0.0000	61.6335	0.0000	0.0000	2.3097	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	29	29	6	0.0000	0.0000	0.0000	23.6464	0.0000
0.0000	1.0067	65.7410	3.0201	1.4234	3.7389	1.4234	0.0000	0.0000					
1989	1	2	0	0	1	30	30	6	0.0000	0.0000	0.0000	20.8079	0.0000
0.0000	1.9676	71.4979	2.7752	0.0000	1.9676	0.9838	0.0000	0.0000					
1989	1	2	0	0	1	31	31	6	0.0000	0.0000	1.5321	15.1694	0.0000
0.0000	0.0000	74.8774	0.0000	1.7324	6.6887	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	32	32	6	0.0000	0.0000	0.0000	1.6671	0.0000
0.0000	0.0000	86.8619	0.0000	0.0000	11.4709	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	33	33	6	0.0000	0.0000	0.0000	11.1103	0.0000
0.0000	2.2426	53.1446	4.0837	5.7126	23.7062	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	34	34	6	0.0000	0.0000	0.0000	4.0316	0.0000
0.0000	0.0000	73.0170	3.8792	9.7322	9.3399	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	35	35	4	0.0000	0.0000	0.0000	0.0000	0.0000
8.5068	0.0000	67.4896	2.8932	7.0481	13.4653	0.0000	0.0000	0.5969					
1989	1	2	0	0	1	36	36	5	0.0000	3.0608	0.0000	0.0000	0.0000
0.0000	0.0000	71.0214	0.0000	4.2157	17.9739	0.0000	0.0000	3.7283					
1989	1	2	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	59.3457	0.0000	3.9483	27.9484	0.0000	0.0000	8.7576					
1989	1	2	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	65.6347	0.0000	0.0000	30.0995	0.0000	0.0000	4.2659					
1989	1	2	0	0	1	39	39	3	0.0000	0.0000	0.0000	6.8382	0.0000
0.0000	0.0000	71.0408	0.0000	0.0000	12.4522	0.0000	9.6688	0.0000					
1989	1	2	0	0	1	40	40	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	26.7426	8.9142	0.0000	64.3432	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	41	41	2	0.0000	0.0000	0.0000	4.0625	0.0000
0.0000	0.0000	47.9688	0.0000	23.9844	23.9844	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	0.0000	33.3333	0.0000	0.0000	33.3333	0.0000					
1989	1	2	0	0	1	43	43	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	49.3889	0.0000	0.0000	50.6111	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	44	44	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	51.7326	0.0000	0.0000	21.7610	0.0000	0.0000	26.5064					
1989	1	2	0	0	1	45	45	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	41.4164	0.0000	0.0000	29.2918	0.0000	0.0000	29.2918					
1989	1	2	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000					
1989	1	2	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	64.5512	0.0000	0.0000	35.4488	0.0000	0.0000	0.0000					
1989	1	2	0	0	1	49	49	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	71.9844	0.0000	0.0000	4.7915	0.0000	0.0000	23.2241					

1990	1	2	0	0	1	19	19	2	0.0000	100.0000	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	35.7231	24.4672	0.0000	15.3425
1990	1	2	0	0	1	20	20	3	0.0000	85.7913	0.0000	0.0000	14.2087
24.4672	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
1990	1	2	0	0	1	21	21	3	0.0000	85.7913	0.0000	0.0000	14.2087
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
1990	1	2	0	0	1	22	22	4	0.0000	60.5645	15.5811	0.0000	18.6213
1.1096	0.0000	0.0000	4.1235	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	23	23	5	0.0000	33.2665	3.2314	0.0000	63.5021
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
1990	1	2	0	0	1	24	24	6	0.0000	11.8141	6.7755	0.0000	75.6215
0.9087	0.0000	0.0000	3.1622	0.0000	0.0000	1.7180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	25	25	4	0.0000	5.6135	5.1876	1.5057	76.2552
0.0000	1.4233	0.0000	10.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	26	26	4	0.0000	1.1787	1.4615	0.0000	76.2210
0.0000	0.0000	0.0000	20.1135	1.0254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	27	27	4	0.0000	0.0000	2.3674	0.0000	69.7542
2.0254	0.0000	0.0000	24.6559	0.0000	0.0000	1.1971	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	28	28	4	0.0000	0.0000	1.9858	0.0000	58.6654
0.0000	0.0000	0.0000	39.3488	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	29	29	4	0.0000	0.0000	0.0000	0.0000	51.0920
1.2324	1.2324	0.0000	44.0766	1.8843	0.0000	0.4823	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	30	30	4	0.0000	0.0000	0.0000	0.0000	30.1584
1.1719	0.0000	0.0000	67.4978	1.1719	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	31	31	5	0.0000	0.0000	0.0000	0.0000	19.8203
0.0000	0.0000	0.0000	63.7319	0.0000	0.0000	16.4478	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	32	32	5	0.0000	0.0000	0.0000	0.0000	16.3544
0.0000	0.0000	0.0000	77.5344	1.5708	0.0000	4.5404	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	33	33	6	0.0000	0.0000	0.0000	0.0000	7.4256
0.0000	0.0000	0.0000	89.1205	0.0000	0.0000	3.4539	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	34	34	4	0.0000	0.0000	0.0000	0.0000	8.0127
0.0000	0.0000	0.0000	66.4542	0.0000	0.0000	25.5331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	35	35	5	0.0000	0.0000	0.0000	0.0000	4.9469
1.8055	0.0000	0.0000	89.6365	0.0000	0.0000	3.6110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	36	36	3	0.0000	0.0000	0.0000	0.0000	36.4109
0.0000	0.0000	0.0000	37.7752	18.2054	0.0000	5.0723	2.5362	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	20.3994
10.1997	1.4209	0.0000	46.6066	0.0000	0.0000	19.9526	0.0000	1.4209	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	98.2304	0.0000	0.0000	1.7696	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	4.4949
0.0000	0.0000	0.0000	45.7511	0.0000	0.0000	41.2561	0.0000	8.4979	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	40	40	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	91.5065	0.0000	0.0000	5.5551	0.0000	2.9384	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	41	41	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	81.1256	0.0000	0.0000	18.8744	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	67.1548
0.0000	0.0000	0.0000	32.8452	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	43	43	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	51.4269	0.0000	0.0000	24.6790	0.0000	23.8942	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	44	44	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	97.0837	0.0000	0.0000	2.9163	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	45	45	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	26.8376	0.0000	0.0000	73.1624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	21.7905	0.0000	0.0000	78.2095	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1990	1	2	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1991	1	2	0	0	1	20	20	1	0.0000	100.0000	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
1991	1	2	0	0	1	21	21	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	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
1991	1	2	0	0	1	22	22	1	0.0000	0.0000	100.0000	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

1991	1	2	0	0	1	23	23	3	0.0000	0.0000	19.2376	0.0000	0.0000				
33.3563	0.0000	0.0000	0.0000	47.4061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.8965	0.0000	0.0000				
1991	1	2	0	0	1	24	24	6	0.0000	0.0000	19.6483	6.6233	0.0000				
14.7887	0.0000	0.0000	0.0000	34.3148	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	40.4406	0.0000	0.0000				
1991	1	2	0	0	1	25	25	14	0.0000	0.0000	19.6483	6.6233	0.0000				
40.4406	0.0000	0.0000	0.0000	29.4001	0.0000	0.0000	3.8877	0.0000	0.0000	0.0000	63.9009	0.0000	0.0000				
1991	1	2	0	0	1	26	26	16	0.0000	0.0000	5.6833	2.6161	0.0000				
63.9009	0.0000	0.0000	0.0000	27.7997	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	59.7111	0.6366	0.0000				
1991	1	2	0	0	1	27	27	16	0.0000	0.0000	7.6819	1.0123	0.0000				
59.7111	0.6366	0.0000	0.0000	30.9581	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	52.9652	0.3267	0.0000				
1991	1	2	0	0	1	28	28	16	0.0000	0.0000	7.6250	1.0092	0.5664				
52.9652	0.3267	0.0000	0.0000	36.9122	0.3267	0.0000	0.2687	0.0000	0.0000	0.0000	57.4609	0.0000	0.0000				
1991	1	2	0	0	1	29	29	16	0.0000	0.0000	2.4189	2.1439	0.0000				
57.4609	0.0000	0.0000	0.0000	37.9763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	30	30	16	0.0000	0.0000	3.7635	1.0953	0.0000	52.7777	1.0522	0.0000		
52.7777	1.0522	0.0000	0.0000	40.9601	0.0000	0.0000	0.3512	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	31	31	16	0.0000	0.0000	0.0000	0.0000	0.9689	0.6273	58.5972	0.0000	0.0000	
58.5972	0.0000	0.0000	0.0000	37.9596	0.0000	0.0000	1.8470	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	32	32	16	0.0000	0.0000	1.4660	0.9599	1.2436	51.7808	0.4454	0.0000		
51.7808	0.4454	0.0000	0.0000	38.9176	0.0000	0.0000	5.1868	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	33	33	13	0.0000	0.0000	0.0000	5.2182	0.0000	56.6579	0.0000	0.0000		
56.6579	0.0000	0.0000	0.0000	33.5796	0.0000	0.0000	2.7799	1.7645	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	34	34	13	0.0000	0.0000	1.2305	4.8022	0.0000	47.0160	0.0000	0.0000		
47.0160	0.0000	0.0000	0.0000	43.9191	3.0322	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	35	35	8	0.0000	0.0000	5.3333	19.6523	0.0000	38.1907	0.0000	0.0000		
38.1907	0.0000	0.0000	0.0000	24.3468	0.0000	0.0000	12.4769	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	36	36	4	0.0000	0.0000	0.0000	0.0000	0.0000	39.9216	0.0000	0.0000		
39.9216	0.0000	0.0000	0.0000	60.0784	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	37	37	8	0.0000	0.0000	0.0000	0.0000	0.0000	5.4106	0.0000	0.0000		
5.4106	0.0000	0.0000	0.0000	94.5894	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	38	38	3	0.0000	0.0000	0.0000	0.0000	0.0000	15.5855	0.0000	0.0000		
15.5855	0.0000	0.0000	0.0000	68.8290	0.0000	0.0000	15.5855	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	39	39	5	0.0000	0.0000	0.0000	13.5111	0.0000	33.1684	0.0000	0.0000		
33.1684	0.0000	0.0000	0.0000	43.6433	0.0000	0.0000	9.6772	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	40	40	3	0.0000	0.0000	0.0000	0.0000	0.0000	48.1802	0.0000	0.0000		
48.1802	0.0000	0.0000	0.0000	51.8198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	41	41	2	0.0000	0.0000	0.0000	0.0000	0.0000	61.4689	0.0000	0.0000		
61.4689	0.0000	0.0000	0.0000	38.5311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	2	0				
0.0000	1	2	0	1	43	43	2	0.0000	0.0000	0.0000	0.0000	0.0000	34.7238	0.0000	0.0000		
34.7238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	65.2762	0.0000	0.0000	0.0000	1991	1	2				
1991	2	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
0.0000	1	2	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
0.0000	1	2	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
0.0000	1	2	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1991	1	2				
0.0000	1	2	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	1	2	0	1	18	18	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	1	2	0	1	19	19	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	1	2	0	1	20	20	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	85.6597	0.0000	
0.0000	85.6597	0.0000	0.0000	14.3403	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	1	2	0	1	21	21	3	0.0000	0.0000	0.0000	80.3424	19.6576	0.0000	0.0000	100.0000	0.0000	
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	1	2	0	1	22	22	9	0.0000	0.0000	6.2879	44.7363	38.3101	0.0000	10.6657	0.0000	0.0000	
10.6657	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	10.6657	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	28.4396	0.0000	0.0000	0.0000	28.4396	0.0000	0.0000
0.0000	28.4396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
0.0000	1	2	0	1	24	24	22	0.0000	0.0000	4.5658	31.6650	32.4590	3.7538	26.8091	0.0000	0.0000	
26.8091	0.0000	0.0000	0.0000	0.7472	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1992	1	2				
1.0983	26.8091	0.0000	0.0000	8.0568	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15.5741	31.8231	3.3404	40.1073	0.0000	0.0000	
40.1073	0.0000	0.0000	0.0000	12.0784	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2162	25.8570	3.1171	51.5449	0.0000	0.0000	

1992	1	2	0	0	1	27	27	29	0.0000	0.3284	4.5688	22.1408	5.4517
0.3489	46.2755	0.3702	0.0000	0.3489	20.1668	0.0000	0.0000	0.0000					
1992	1	2	0	0	1	28	28	29	0.0000	0.0000	2.5722	14.1088	3.9159
0.2611	51.3812	0.2278	0.0000	0.0000	26.7931	0.0000	0.0000	0.7399					
1992	1	2	0	0	1	29	29	29	0.0000	0.0000	0.8081	7.8786	2.9477
0.5650	52.0025	0.8084	0.0000	0.0000	34.6561	0.0000	0.0000	0.3337					
1992	1	2	0	0	1	30	30	29	0.0000	0.4800	0.0000	6.5071	1.1843
0.7626	49.9765	0.5615	0.0000	0.0000	37.5026	1.2594	0.0000	1.7659					
1992	1	2	0	0	1	31	31	27	0.0000	0.0000	0.0000	1.7841	0.6335
0.0000	61.2641	0.0000	0.0000	0.5236	35.3381	0.0000	0.0000	0.4566					
1992	1	2	0	0	1	32	32	28	0.0000	0.0000	0.0000	4.5975	1.0209
0.0000	58.5140	0.0000	0.0000	0.0000	32.1291	0.0000	2.2907	1.4478					
1992	1	2	0	0	1	33	33	16	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.8801	0.0000	0.0000	0.0000	46.3370	0.0000	0.0000	2.7828					
1992	1	2	0	0	1	34	34	15	0.0000	0.0000	0.0000	0.0000	6.1009
0.0000	35.9426	0.0000	0.0000	0.0000	38.1745	0.0000	0.0000	19.7821					
1992	1	2	0	0	1	35	35	12	0.0000	0.0000	6.3754	0.0000	0.0000
0.0000	56.9667	0.0000	0.0000	0.0000	25.5639	0.0000	0.0000	11.0940					
1992	1	2	0	0	1	36	36	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	28.6995	0.0000	0.0000	0.0000	51.8697	0.0000	0.0000	19.4308					
1992	1	2	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	66.8232	0.0000	0.0000	0.0000	17.0368	0.0000	0.0000	16.1400					
1992	1	2	0	0	1	38	38	4	0.0000	0.0000	0.0000	39.7366	0.0000
0.0000	20.5850	0.0000	0.0000	0.0000	21.7288	0.0000	0.0000	17.9496					
1992	1	2	0	0	1	39	39	4	0.0000	0.0000	0.0000	13.4411	29.3404
0.0000	19.8597	0.0000	0.0000	0.0000	23.9177	0.0000	0.0000	13.4411					
1992	1	2	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1992	1	2	0	0	1	41	41	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	49.1174	0.0000	0.0000	0.0000	50.8826	0.0000	0.0000	0.0000					
1992	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1992	1	2	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1992	1	2	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	2	0	0	1	15	15	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	2	0	0	1	17	17	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	2	0	0	1	21	21	5	0.0000	26.6898	0.0000	0.0000	18.3235
0.0000	0.0000	10.3733	0.0000	0.0000	0.0000	44.6133	0.0000	0.0000					
1993	1	2	0	0	1	22	22	10	0.0000	37.8464	0.0000	47.5900	14.5636
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1993	1	2	0	0	1	23	23	14	0.0000	4.9041	22.0439	39.1695	23.9205
0.0000	0.0000	2.7889	0.0000	0.0000	0.0000	7.1732	0.0000	0.0000					
1993	1	2	0	0	1	24	24	17	0.0000	0.6494	7.0367	39.8757	33.0115
4.0036	0.0000	13.6150	0.0000	0.0000	0.0000	1.8081	0.0000	0.0000					
1993	1	2	0	0	1	25	25	17	0.0000	1.3388	4.8118	28.2022	24.9771
1.5960	0.0000	33.9739	0.8396	0.0000	0.0000	4.2605	0.0000	0.0000					
1993	1	2	0	0	1	26	26	18	0.0000	0.8310	2.3378	18.2521	26.4722
0.7770	0.1619	44.9885	0.0000	0.0000	0.0000	6.1795	0.0000	0.0000					
1993	1	2	0	0	1	27	27	18	0.0000	0.0000	2.1300	13.8090	16.3809
2.2466	0.4296	51.2941	0.0000	0.0000	0.0000	13.7098	0.0000	0.0000					
1993	1	2	0	0	1	28	28	18	0.0000	0.0000	0.1665	9.7005	20.0005
1.8943	0.9956	47.9483	0.0000	0.0000	0.0000	19.2943	0.0000	0.0000					
1993	1	2	0	0	1	29	29	18	0.0000	0.0000	0.0000	4.0128	19.1813
2.2702	0.0000	54.6354	1.4544	0.0000	0.0000	18.0235	0.0000	0.4223					
1993	1	2	0	0	1	30	30	18	0.0000	0.0000	0.4842	3.2948	19.1826
1.0716	0.0000	47.2305	0.0000	0.0000	0.0000	27.1141	1.6221	0.0000					
1993	1	2	0	0	1	31	31	17	1.4840	0.0000	2.0119	5.1462	5.9392
1.2735	0.0000	60.5888	0.0000	0.0000	0.0000	23.5563	0.0000	0.0000					
1993	1	2	0	0	1	32	32	13	0.0000	0.0000	0.0000	0.0000	6.7564
3.2026	0.0000	56.7488	0.0000	0.0000	0.0000	33.2922	0.0000	0.0000					
1993	1	2	0	0	1	33	33	12	0.0000	0.0000	0.0000	0.0000	4.4877
0.0000	0.0000	46.0230	0.0000	0.0000	0.0000	49.4894	0.0000	0.0000					
1993	1	2	0	0	1	34	34	4	0.0000	0.0000	0.0000	0.0000	10.4251
24.2361	0.0000	52.0746	0.0000	0.0000	0.0000	13.2642	0.0000	0.0000					
1993	1	2	0	0	1	35	35	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	90.2191	0.0000	0.0000	0.0000	9.7809	0.0000	0.0000					

1993	1	2	0	0	1	36	36	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1993	1	2	0	0	1	39	39	5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	84.4475	0.0000	0.0000	0.0000	15.5525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	14	14	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	16	16	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	17	17	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000
1994	1	2	0	0	1	18	18	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
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	100.0000
1994	1	2	0	0	1	22	22	6	0.0000	14.4585	31.9991	5.9410	2.6279	
14.4585	0.0000	0.0000	12.3868	18.1283	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	23	23	10	0.0000	6.0661	47.4744	8.1868	9.2152	
12.2838	0.0000	0.0000	13.2767	0.0000	0.0000	0.0000	3.4970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	24	24	20	0.0000	11.2990	12.4229	16.6869	20.5798	
20.3017	10.5249	0.0000	6.1926	0.0000	0.0000	0.0000	1.9922	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	25	25	24	0.0000	0.8490	6.3622	3.9495	20.7882	
29.5400	1.9631	1.8837	27.1227	0.0000	0.0000	0.0000	7.5416	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	26	26	28	0.0000	1.2578	3.6380	5.6402	18.2769	
22.2773	3.2224	0.4621	38.9595	0.8383	0.0000	0.0000	5.2828	0.1446	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	27	27	29	0.0000	0.0000	3.0747	2.3867	14.4386	
21.4523	1.7714	0.2478	42.5464	0.5635	0.0000	0.0000	13.3054	0.2130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	28	28	30	0.0000	0.0000	0.3694	1.0625	9.8580	
18.5671	3.1453	1.3310	50.7316	0.5218	0.0000	0.0000	13.9831	0.4302	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	29	29	31	0.0000	0.1746	0.3953	1.7092	12.9185	
19.5231	2.7557	1.4986	45.0807	0.6697	0.2670	0.0000	14.6172	0.3905	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	30	30	30	0.0000	0.0000	0.6154	0.9075	7.1674	
16.6082	2.4943	0.0000	48.5380	1.0980	1.0605	0.0000	20.9602	0.5506	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	31	31	28	0.0000	0.0000	0.0000	0.0000	0.6276	4.9702
10.5820	2.3404	0.4291	57.6936	0.1380	0.0000	0.0000	21.6141	1.6052	0.0000	0.0000	1.2824	0.4869	9.3177	
1994	1	2	0	0	1	32	32	28	0.0000	0.0000	0.0000	0.0000	0.0000	4.3780
16.0695	2.2733	0.0000	49.1590	0.0000	1.2578	0.0000	20.1535	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	33	33	27	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6.9685	6.5269	0.0000	63.4885	0.7242	0.0000	0.0000	17.2196	0.6942	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	34	34	23	0.0000	0.0000	0.0000	0.0000	2.1538	2.8669
10.8352	2.1653	1.2172	43.7358	1.2603	0.0000	0.0000	35.7654	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	35	35	18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14.6412	1.8250	0.0000	68.8108	0.0000	0.0000	0.0000	12.0511	2.6720	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	36	36	21	0.0000	0.0000	0.0000	0.0000	0.0000	1.5690
5.6967	0.0000	0.0000	77.2324	0.0000	0.0000	0.0000	13.1471	2.3548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	37	37	12	0.0000	0.0000	0.0000	0.0000	0.0000	20.1111
6.8357	6.7826	0.0000	50.7438	0.0000	0.0000	0.0000	6.1955	9.3312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	38	38	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11.1169	0.0000	0.0000	67.0520	0.0000	0.0000	0.0000	21.8311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	39	39	6	0.0000	0.0000	0.0000	0.0000	0.0000	20.5179
0.0000	0.0000	0.0000	71.0039	0.0000	0.0000	0.0000	8.4782	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	40	40	8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	31.8341	0.0000	0.0000	0.0000	68.1659	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	41	41	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17.4656	0.0000	0.0000	35.5239	0.0000	0.0000	0.0000	21.2441	25.7665	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	42	42	5	0.0000	0.0000	0.0000	0.0000	0.0000	19.2392
0.0000	0.0000	0.0000	34.7734	0.0000	0.0000	0.0000	45.9874	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	43	43	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	72.6101	0.0000	0.0000	0.0000	27.3899	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	48.5051	0.0000	0.0000	0.0000	51.4949	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	45	45	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	62.6427	0.0000	0.0000	0.0000	0.0000	37.3573	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	46	46	5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	73.9850	0.0000	0.0000	0.0000	26.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1994	1	2	0	0	1	51	51	2	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	24.8900	75.1100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1995	1	2	0	0	1	4	4	1	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
1995	1	2	0	0	1	5	5	2	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

1995	1	2	0	0	1	6	6	2	100.0000	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					
1995	1	2	0	0	1	7	7	1	100.0000	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					
1995	1	2	0	0	1	8	8	1	100.0000	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					
1995	1	2	0	0	1	9	9	1	100.0000	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					
1995	1	2	0	0	1	14	14	1	100.0000	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					
1995	1	2	0	0	1	22	22	1	0.0000	0.0000	100.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	23	23	6	0.0000	10.6538	28.3016	39.8779	17.4412
3.7255	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	24	24	11	0.0000	0.0000	46.0288	24.6433	19.3823
1.1377	3.9358	0.0000	0.0000	4.8721	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	25	25	18	2.0151	1.7489	37.7617	21.5169	3.6474
10.0192	10.2279	3.9071	0.0000	9.1559	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	26	26	21	0.0000	0.0000	21.4840	15.2299	8.2037
16.7580	12.4910	5.4090	1.8969	13.1973	0.0000	1.2699	0.0000	4.0603					
1995	1	2	0	0	1	27	27	21	0.0000	1.4621	13.1683	10.0681	4.3691
11.8982	20.2917	3.0899	0.0000	29.5313	1.8141	0.0000	0.0000	4.3072					
1995	1	2	0	0	1	28	28	21	0.0000	0.3626	7.5269	9.0344	3.7396
13.4012	17.2258	2.1148	0.0000	36.7460	1.0195	0.0000	0.0000	8.8292					
1995	1	2	0	0	1	29	29	21	0.0000	0.9273	3.3657	1.7649	1.0752
11.9957	20.7637	2.8561	1.1670	41.3078	1.5160	0.0000	0.0000	13.2606					
1995	1	2	0	0	1	30	30	21	0.0000	0.6254	1.3095	1.4513	4.4794
14.6152	17.6470	4.5295	0.0000	42.0861	0.7842	0.0000	0.0000	12.4724					
1995	1	2	0	0	1	31	31	21	0.0000	0.0000	1.9459	1.7132	0.5627
12.0681	19.1760	3.4602	1.9755	43.7541	0.3082	0.0000	0.0000	15.0361					
1995	1	2	0	0	1	32	32	21	0.0000	0.0000	1.2182	2.6063	0.9849
7.0741	18.5017	7.9863	1.1466	38.1765	0.0000	0.0000	0.0000	22.3055					
1995	1	2	0	0	1	33	33	17	0.0000	0.0000	2.8853	0.0000	4.8046
8.8804	9.0454	7.5949	1.9407	48.4562	0.5610	0.0000	0.0000	15.8316					
1995	1	2	0	0	1	34	34	17	0.0000	0.0000	0.0000	2.8075	4.5812
3.1857	10.2594	8.3558	2.6622	51.0211	0.6556	0.0000	0.0000	16.4716					
1995	1	2	0	0	1	35	35	14	0.0000	0.0000	0.0000	0.0000	0.0000
3.3670	9.6102	9.5458	0.0000	55.3611	0.0000	0.0000	0.0000	22.1159					
1995	1	2	0	0	1	36	36	11	0.0000	0.0000	0.0000	0.0000	3.1627
3.1627	12.7777	8.9619	0.0000	51.7997	0.0000	0.0000	0.0000	20.1352					
1995	1	2	0	0	1	37	37	7	0.0000	0.0000	0.0000	0.0000	0.0000
11.2047	5.6975	2.8488	0.0000	71.7243	0.0000	0.0000	0.0000	8.5247					
1995	1	2	0	0	1	38	38	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	17.6680	10.1958	0.0000	57.2601	0.0000	0.0000	0.0000	14.8761					
1995	1	2	0	0	1	39	39	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	4.9656	0.0000	92.3786	0.0000	0.0000	0.0000	2.6558					
1995	1	2	0	0	1	40	40	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	24.3890	0.0000	7.1372	35.3064	0.0000	0.0000	0.0000	33.1674					
1995	1	2	0	0	1	41	41	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	60.0368	0.0000	0.0000	0.0000	0.0000	39.9632					
1995	1	2	0	0	1	42	42	4	0.0000	0.0000	0.0000	0.0000	43.8814
0.0000	24.7729	0.0000	0.0000	8.1002	0.0000	0.0000	0.0000	23.2455					
1995	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	69.2498	0.0000	0.0000	0.0000	0.0000	30.7502					
1995	1	2	0	0	1	45	45	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	14.8730	52.8292	0.0000	0.0000	0.0000	0.0000	32.2978					
1995	1	2	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	100.0000					
1995	1	2	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	48	48	1	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	100.0000					
1995	1	2	0	0	1	49	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	2	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	12	12	2	100.0000	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					

1996	1	2	0	0	1	13	13	2	100.0000	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	78.0076	11.7577	0.0000	0.0000	0.0000
1996	1	2	0	0	1	14	14	3					
0.0000	0.0000	0.0000	0.0000	0.0000	10.2347	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	15	15	3	100.0000	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					
1996	1	2	0	0	1	16	16	4	100.0000	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					
1996	1	2	0	0	1	17	17	8	94.8812	5.1188	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	18	18	9	89.5886	6.7133	0.0000	0.0000	3.6981
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	19	19	12	100.0000	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					
1996	1	2	0	0	1	20	20	7	85.7299	11.7351	0.0000	0.0000	0.0000
0.0000	0.0000	2.5350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	21	21	8	72.3487	16.5795	7.2300	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	3.8418	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	22	22	6	38.8745	32.0014	0.0000	0.0000	29.1241
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	23	23	14	9.0684	33.2724	3.5870	30.8600	14.7298
2.4478	2.4478	0.0000	0.0000	0.0000	3.5870	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	24	24	15	3.9226	18.4714	6.1814	16.5173	33.7676
2.6727	13.0775	1.6947	3.6948	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	25	25	22	0.0000	3.4021	4.8187	20.9632	26.9642
3.9740	16.3547	16.1433	0.0000	0.0000	7.3798	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	26	26	24	0.0000	2.2983	2.6885	21.2818	20.5699
3.7905	12.4498	12.8256	1.8007	2.5754	15.7647	0.5282	0.0000	3.4265					
1996	1	2	0	0	1	27	27	24	0.0000	0.0000	0.2881	16.0579	20.4885
4.8585	14.5075	15.8043	0.2539	0.4841	22.3987	0.0000	0.0000	4.8586					
1996	1	2	0	0	1	28	28	24	0.0000	0.3435	0.8692	8.5083	12.3609
4.8758	12.7770	17.6452	1.2519	0.0000	34.4438	0.0000	0.0000	6.9243					
1996	1	2	0	0	1	29	29	24	0.0000	0.0000	0.0000	6.2472	8.8435
1.7685	14.1130	17.4975	2.1947	2.8530	37.8727	0.0000	0.0000	8.6100					
1996	1	2	0	0	1	30	30	23	0.4097	0.9982	0.0000	4.1682	9.3085
3.8703	13.8288	20.7596	4.5244	1.1307	32.3307	0.0000	0.0000	8.6710					
1996	1	2	0	0	1	31	31	23	0.0000	0.0000	0.0000	7.8320	2.5326
4.3156	9.3034	10.5391	6.5604	0.0000	42.3445	0.0000	0.0000	16.5724					
1996	1	2	0	0	1	32	32	22	0.0000	0.0000	0.0000	2.0489	4.9198
2.0025	12.4525	10.6265	5.8694	0.0000	46.5845	0.0000	0.0000	15.4960					
1996	1	2	0	0	1	33	33	17	0.0000	0.0000	0.0000	3.2628	4.9063
4.6609	12.3902	16.0379	1.7591	0.0000	44.9328	0.0000	0.0000	12.0500					
1996	1	2	0	0	1	34	34	11	0.0000	0.0000	0.0000	4.1464	8.1333
0.0000	0.0000	22.0496	9.3078	0.0000	38.7191	0.0000	0.0000	17.6438					
1996	1	2	0	0	1	35	35	12	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	17.5558	4.8629	0.0000	42.6823	0.0000	0.0000	34.8990					
1996	1	2	0	0	1	36	36	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	27.2358	33.8671	38.8971	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	37	37	7	0.0000	0.0000	0.0000	16.3021	0.0000
17.7081	19.0753	17.2038	0.0000	0.0000	29.7107	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	38	38	7	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	22.8103	0.0000	0.0000	61.2434	0.0000	0.0000	15.9463					
1996	1	2	0	0	1	39	39	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	6.1202	0.0000	0.0000	0.0000	53.6431	0.0000	0.0000	40.2366					
1996	1	2	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	41	41	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	39.4312	0.0000	0.0000	60.5688					
1996	1	2	0	0	1	42	42	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	74.0428	0.0000	0.0000	25.9572					
1996	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1996	1	2	0	0	1	47	47	1	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	100.0000					
1996	1	2	0	0	1	49	49	1	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	100.0000					
1997	1	2	0	0	1	19	19	1	100.0000	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					

1997	1	2	0	0	1	20	20	7	0.0000	81.0768	0.0000	18.9232	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20.1115	77.5042	0.0000	2.3844
1997	1	2	0	0	1	21	21	10	0.0000	92.9427	3.5760	0.4681	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.1862	33.5001	0.3238	0.5445
1997	1	2	0	0	1	22	22	17	0.0000	28.0504	20.1641	1.6216	0.3238
0.3847	17.0506	0.1889	0.0000	0.0000	0.0000	0.2826	0.0000	0.0000	0.0000	43.4534	20.1641	1.6216	4.6346
1997	1	2	0	0	1	23	23	21	0.3374	17.7140	37.2391	1.0979	7.2643
1.7022	0.7184	0.2724	1.2215	0.0000	0.0000	0.0000	0.0000	0.0541	0.2630	46.0588	24.6070	0.7182	28.2294
1997	1	2	0	0	1	25	25	22	0.6131	11.0178	10.9674	13.8762	0.9089
28.2294	0.4949	2.7945	2.4103	0.0000	0.0000	2.1425	0.0000	0.0000	0.0000	1.0494	1.4345	1.6216	1.20475
1997	1	2	0	0	1	26	26	23	0.0000	1.5181	24.6070	0.7182	27.2289
14.3445	3.5702	36.3197	0.7429	0.0000	5.1554	0.0000	1.0494	0.0000	0.0000	1.5768	7.2051	18.7021	1.0979
1997	1	2	0	0	1	27	27	23	0.0000	1.1386	1.5768	7.2051	32.4702
6.5875	10.7247	4.5754	15.3888	1.0711	0.4813	6.1515	0.3350	0.6125	0.0000	0.5176	0.9401	31.0157	0.0000
1997	1	2	0	0	1	28	28	23	0.0000	0.0000	0.0000	0.0000	24.5253
24.5253	7.4987	9.5959	10.3645	0.8885	0.0000	10.9969	6.8443	0.6634	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	29	29	23	0.0000	0.0000	0.0000	0.0000	5.8932
5.8932	11.7198	15.1517	16.3505	1.7849	0.2569	18.1323	11.8292	0.9459	0.0000	0.0000	0.0000	0.0000	17.1067
1997	1	2	0	0	1	30	30	22	0.0000	0.0000	0.0000	0.0000	0.0000
32.4702	0.4122	2.5547	7.7589	14.2932	0.6151	6.9604	0.2961	2.0117	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	31	31	22	0.0000	0.0000	0.0000	0.0000	0.0000
17.1067	0.8573	1.6956	19.5074	32.6800	0.0000	6.9234	1.1089	1.1146	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	2	0	0	1	32	32	18	0.0000	0.0000	0.0000	0.0000	4.9636
4.9636	6.2072	17.2204	15.7121	0.0000	0.0000	21.4871	2.8185	16.0713	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	33	33	18	0.0000	0.0000	0.0000	0.0000	39.5750
39.5750	0.1133	42.4071	4.0059	1.6902	1.6300	4.6953	0.9947	1.8828	0.0000	0.0000	0.0000	0.0000	0.0000
1997	1	2	0	0	1	34	34	14	0.0000	0.0000	0.0000	0.0000	3.2181
3.2181	0.0000	18.3153	20.7841	3.2181	0.0000	30.5483	5.7422	5.3298	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	35	35	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.4947	0.9728	0.0000	0.0000	47.4580	9.6301	0.0000	0.0000	0.0000	0.0000	0.0000	8.4445
1997	1	2	0	0	1	36	36	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	74.5960	0.0000	21.2513	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	37	37	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	8.3875	0.0000	0.0000	91.6125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	38	38	3	0.0000	0.0000	0.0000	0.0000	97.5437
0.0000	0.0000	0.0000	0.0000	0.0000	0.2854	1.8855	0.2854	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	41	41	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1997	1	2	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1998	1	2	0	0	1	1	1	1	0.0000	100.0000	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	1.0979
1998	1	2	0	0	1	9	9	1	0.0000	100.0000	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	1.0979
1998	1	2	0	0	1	15	15	1	0.0000	100.0000	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	1.0979
1998	1	2	0	0	1	17	17	4	3.4454	0.0000	1.8946	34.4925	0.0000
0.0000	25.6750	0.0000	34.4925	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1998	1	2	0	0	1	18	18	8	0.0000	59.8556	37.4926	2.6519	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	1.0979
1998	1	2	0	0	1	19	19	10	12.5619	57.8007	17.7805	11.8568	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	1.0979
1998	1	2	0	0	1	20	20	17	0.0000	85.3760	12.0469	1.7238	0.0000
0.0000	0.0000	0.8533	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1998	1	2	0	0	1	21	21	18	0.0000	51.3866	38.1005	8.9539	1.5590
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	1.0979
1998	1	2	0	0	1	22	22	19	0.0000	44.6087	22.1469	27.6094	0.6415
1.3630	3.3097	0.0000	0.0000	0.0000	0.0000	0.3208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1998	1	2	0	0	1	23	23	25	0.0000	11.6714	34.1848	46.6291	2.5282
1.7490	2.4290	0.0000	0.6648	0.1436	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1998	1	2	0	0	1	24	24	24	0.0000	3.0898	38.3291	33.5845	2.4741
13.7499	5.0000	1.0441	2.6143	0.1142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979
1998	1	2	0	0	1	25	25	25	0.0000	28.5037	47.6535	3.1239	9.2539
9.2539	6.2631	1.1773	1.7497	2.1919	0.0000	0.0000	0.0830	0.0000	0.0000	0.0000	0.0000	0.0000	1.0979

1998	1	2	0	0	1	26	26	25	0.0000	3.5922	23.1875	33.6465	2.7300
10.1321	15.0962	0.0742	2.9252	7.1627	1.2619	0.0000	0.0000	0.1915					
1998	1	2	0	0	1	27	27	25	0.0000	0.2230	28.7138	18.8379	0.2059
7.8917	18.1749	5.1758	7.7714	8.1353	1.9907	0.1274	2.2193	0.5329					
1998	1	2	0	0	1	28	28	25	0.0000	1.4067	17.1958	16.2242	2.3773
13.9308	14.2595	3.6962	9.8896	11.1114	2.2326	0.0000	5.2154	2.4605					
1998	1	2	0	0	1	29	29	23	0.0000	3.4917	5.4887	6.5722	0.7343
21.2336	16.7645	0.1795	6.4888	14.3573	2.1027	0.0000	21.1978	1.3890					
1998	1	2	0	0	1	30	30	21	0.0000	0.0000	1.9862	5.3427	2.1193
24.0337	11.7148	0.3332	7.1828	9.9537	0.0000	0.7037	25.7308	10.8990					
1998	1	2	0	0	1	31	31	22	0.0000	0.0000	4.9417	11.6114	0.0000
8.6283	22.0083	0.0000	23.7538	2.3777	0.0000	0.0000	24.0849	2.5940					
1998	1	2	0	0	1	32	32	17	0.0000	0.0000	7.1689	4.6363	3.8814
26.2762	15.0353	2.5905	1.6836	7.4968	0.0000	0.3902	30.2303	0.6103					
1998	1	2	0	0	1	33	33	8	0.0000	0.0000	0.0000	0.0000	0.0000
2.6130	2.6130	0.0000	0.0000	28.8912	0.0000	7.4230	56.7110	1.7488					
1998	1	2	0	0	1	34	34	8	0.0000	0.0000	0.0000	29.3671	0.0000
18.5193	2.9120	0.0000	7.6187	8.1788	0.0000	0.0000	33.4042	0.0000					
1998	1	2	0	0	1	35	35	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	3.3786	0.0000	45.4246	39.9996	0.0000	0.0000	0.0000	11.1973					
1998	1	2	0	0	1	36	36	2	0.0000	0.0000	0.0000	0.0000	0.0000
29.3114	0.0000	0.0000	0.0000	29.3114	41.3772	0.0000	0.0000	0.0000					
1998	1	2	0	0	1	37	37	2	0.0000	0.0000	0.0000	0.0000	0.0000
47.9537	47.9537	4.0926	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	2	0	0	1	38	38	3	0.0000	0.0000	0.0000	14.9752	0.0000
0.0000	0.0000	0.0000	19.2433	65.7815	0.0000	0.0000	0.0000	0.0000					
1998	1	2	0	0	1	39	39	2	0.0000	0.0000	0.0000	76.8209	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	23.1791	0.0000					
1998	1	2	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	2	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000						
1999	1	2	0	0	1	2	2	1	100.0000	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					
1999	1	2	0	0	1	3	3	1	100.0000	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					
1999	1	2	0	0	1	4	4	2	100.0000	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					
1999	1	2	0	0	1	7	7	2	100.0000	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					
1999	1	2	0	0	1	10	10	1	100.0000	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					
1999	1	2	0	0	1	11	11	1	100.0000	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					
1999	1	2	0	0	1	12	12	3	100.0000	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					
1999	1	2	0	0	1	13	13	5	100.0000	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					
1999	1	2	0	0	1	14	14	10	94.6376	1.1095	4.2529	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	15	15	7	97.8549	0.0000	0.0000	2.1451	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	16	16	10	97.0726	0.4496	2.4778	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	17	17	16	87.7470	6.7411	5.5119	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	18	18	17	71.3126	17.6973	4.4448	6.5452	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	19	19	19	46.6888	27.1769	22.5983	3.5361	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	20	20	26	22.7967	39.3763	28.6332	5.1512	4.0426
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	21	21	27	0.3731	35.3539	46.4436	14.6905	3.1390
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	22	22	30	0.0000	18.4635	41.5785	22.2615	17.1277
0.0000	0.0000	0.5689	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	23	23	35	1.7355	10.3823	40.7963	22.6283	22.7352
0.0000	0.0000	1.7224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	24	24	36	0.0000	2.4391	33.9976	25.9733	31.3929
4.3700	0.1568	1.6703	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1999	1	2	0	0	1	25	25	35	0.1611	2.8790	20.7361	39.2493	27.5741
3.5539	2.9799	1.6229	0.0000	0.0000	0.0000	0.0000	0.0000	1.2436					
1999	1	2	0	0	1	26	26	37	0.0000	1.4461	11.0482	41.6282	32.3638
3.7816	1.8844	1.8343	1.0996	2.2007	1.1518	0.0000	0.7399	0.8215					
1999	1	2	0	0	1	27	27	38	0.6285	1.2510	2.2789	39.8713	28.6417
3.1423	7.7646	8.8872	1.3478	2.1132	1.7500	0.0000	0.3966	1.9270					
1999	1	2	0	0	1	28	28	38	0.0000	0.0601	3.1758	36.1888	23.5396
3.0589	11.8537	9.3516	2.0086	3.4823	2.6113	1.8079	0.0000	2.8613					
1999	1	2	0	0	1	29	29	34	0.0000	0.0000	1.8395	24.9310	21.3679
4.0757	11.5135	8.1371	5.6077	7.8070	6.6966	1.7415	0.8717	5.4109					
1999	1	2	0	0	1	30	30	35	0.0000	0.0000	1.9482	37.5050	16.0633
0.8513	7.6020	15.3154	3.7622	4.5159	6.8102	0.9994	0.0000	4.6271					
1999	1	2	0	0	1	31	31	31	0.0000	0.0000	5.8809	30.4247	12.5163
0.0000	5.8766	11.0245	3.3369	2.4130	9.0141	4.1931	0.0000	15.3199					
1999	1	2	0	0	1	32	32	27	0.0000	2.5650	2.9423	12.1110	8.2400
7.0375	22.2208	10.7310	7.9834	2.7027	2.9876	2.2656	3.8632	14.3498					
1999	1	2	0	0	1	33	33	22	0.0000	0.0000	0.0000	11.2155	17.3296
0.0000	29.6857	9.5058	4.3954	10.0074	0.0000	6.6200	0.0000	11.2407					
1999	1	2	0	0	1	34	34	14	0.0000	0.0000	0.0000	6.7945	0.0000
0.6924	3.5969	15.9741	4.3380	7.6923	8.8294	5.2370	6.7129	40.1324					
1999	1	2	0	0	1	35	35	11	1.5017	0.0000	0.0000	6.4688	10.0428
0.0000	15.9582	14.9952	0.0000	0.0000	38.5261	10.4125	0.0000	2.0947					
1999	1	2	0	0	1	36	36	9	0.0000	0.0000	0.0000	22.6029	24.4873
0.0000	0.0000	0.0000	0.0000	20.6949	15.0158	0.0000	3.1319	14.0671					
1999	1	2	0	0	1	37	37	6	0.0000	0.0000	0.0000	2.3928	0.0000
19.5809	13.7001	0.0000	20.9967	2.3928	2.3928	19.1556	0.0000	19.3884					
1999	1	2	0	0	1	38	38	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	39	39	4	0.0000	0.0000	0.0000	5.2727	0.0000
0.0000	0.0000	24.7555	0.0000	36.6476	33.3242	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	40	40	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	29.4820	0.0000	0.0000	28.0885	6.8730	0.0000	35.5565	0.0000					
1999	1	2	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1999	1	2	0	0	1	45	45	1	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	100.0000					
1999	1	2	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	51.6311	0.0000	0.0000	0.0000	48.3689	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	12	12	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	15	15	1	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	16	16	3	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	17	17	4	0.0000	84.1370	15.8630	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	18	18	5	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	19	19	6	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	20	20	5	0.0000	90.7037	6.0536	0.0000	3.2426
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	21	21	9	2.8502	95.9526	0.0000	0.0000	1.1972
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	22	22	13	0.0000	88.0052	9.5750	2.4198	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	23	23	14	1.1740	88.4699	4.3847	2.3944	1.4019
0.0000	0.0000	2.1750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	24	24	14	0.0000	84.5189	11.1647	3.3775	0.0000
0.0000	0.0000	0.9389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	25	25	17	0.7002	71.2600	15.0732	3.5931	6.2459
2.8172	0.0000	0.3103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	26	26	16	0.0000	45.9027	17.9657	8.2848	19.2957
6.9211	0.0000	0.7748	0.8552	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	27	27	18	0.8062	34.1155	12.1712	16.2378	15.6014
13.2997	2.0121	2.9699	1.3277	0.6934	0.0000	0.0000	0.7653						

2000	1	2	0	0	1	28	28	19	0.0000	14.0509	8.1382	10.2016	35.5219
19.6965	2.1266	3.0109	1.9057	3.6632	0.6577	1.0267	0.0000	0.0000					
2000	1	2	0	0	1	29	29	19	0.0000	7.9601	5.3036	14.4351	32.6668
25.1905	4.4965	2.9822	0.8918	0.7408	3.3722	0.5991	0.0000	1.3612					
2000	1	2	0	0	1	30	30	19	0.0000	1.8032	1.3350	10.5989	35.3355
23.8926	2.8062	7.9534	7.3059	0.6828	3.1039	0.5522	0.8460	3.7844					
2000	1	2	0	0	1	31	31	20	0.0000	0.9093	1.0448	3.7114	30.3537
29.9134	3.4956	6.9947	2.6153	1.3367	3.4113	12.8183	1.5953	1.8002					
2000	1	2	0	0	1	32	32	18	0.0000	0.9603	2.1467	7.9871	33.1434
15.2018	2.1201	12.1199	6.4598	4.2997	0.7020	4.6431	3.9872	6.2289					
2000	1	2	0	0	1	33	33	16	0.0000	0.0000	0.0000	8.2190	31.6499
18.8080	1.1624	12.7034	10.0289	7.0599	4.7562	1.4951	0.0000	4.1172					
2000	1	2	0	0	1	34	34	17	0.0000	0.0000	1.2085	2.0017	31.6943
19.7651	2.1221	21.3663	3.4694	1.2991	4.1445	10.5558	1.3574	1.0158					
2000	1	2	0	0	1	35	35	15	0.0000	0.0000	0.0000	0.4818	33.8017
19.3591	1.2685	12.9634	0.9512	0.4818	2.5955	0.6592	3.4017	24.0360					
2000	1	2	0	0	1	36	36	9	0.0000	0.5887	0.0000	0.0000	66.6340
8.2161	0.0000	0.0000	6.9103	0.0000	9.4295	6.4698	0.5887	1.1628					
2000	1	2	0	0	1	37	37	10	0.0000	0.0000	0.0000	11.5220	15.9183
0.0000	1.6331	26.5578	2.1208	1.7212	13.3548	12.6561	0.8487	13.6673					
2000	1	2	0	0	1	38	38	6	0.0000	3.0321	0.0000	0.0000	12.9927
5.2606	0.0000	5.6906	0.0000	57.8144	5.2606	0.0000	0.0000	9.9489					
2000	1	2	0	0	1	39	39	6	0.0000	0.0000	20.0439	0.0000	4.8480
0.0000	20.0439	5.1614	1.9729	0.0000	24.5484	20.0439	0.0000	3.3375					
2000	1	2	0	0	1	40	40	8	0.0000	0.0000	0.0000	0.0000	55.2635
0.0000	4.9076	4.3060	0.0000	0.0000	32.8521	2.6709	0.0000	0.0000					
2000	1	2	0	0	1	41	41	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	16.4847	0.0000	55.4426	0.0000	14.7289	0.0000	0.0000	13.3438					
2000	1	2	0	0	1	42	42	4	0.0000	0.0000	0.0000	0.0000	6.8087
6.8087	0.0000	46.8738	0.0000	0.0000	20.5300	0.0000	0.0000	18.9789					
2000	1	2	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	3.1611
0.0000	0.0000	0.0000	96.8389	0.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	47	47	1	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	100.0000					
2000	1	2	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
2000	1	2	0	0	1	51	51	1	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	100.0000					
2001	1	2	0	0	1	12	12	1	100.0000	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					
2001	1	2	0	0	1	22	22	1	0.0000	0.0000	0.0000	100.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	2	0	0	1	23	23	3	0.0000	0.0000	25.2248	0.0000	74.7752
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	2	0	0	1	24	24	4	0.0000	35.0968	64.9032	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	2	0	0	1	25	25	6	0.0000	12.5619	38.6885	29.3046	8.1788
0.0000	8.1788	0.0000	3.0873	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	2	0	0	1	26	26	11	0.0000	10.6051	47.9065	1.8855	18.6558
17.2688	3.6782	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	2	0	0	1	27	27	15	0.0000	49.8991	6.5348	26.5859	
7.5934	5.4393	2.4826	0.0000	0.0000	1.4649	0.0000	0.0000	0.0000					
2001	1	2	0	0	1	28	28	18	0.0000	8.2561	42.8702	10.5765	9.7779
10.4295	7.9146	1.2916	0.0000	4.2439	1.4980	2.3998	0.7419	0.0000					
2001	1	2	0	0	1	29	29	20	0.0000	4.9425	37.8272	12.1583	19.0817
10.7765	6.2054	2.3492	1.2178	2.3304	0.0000	1.4246	0.7058	0.9807					
2001	1	2	0	0	1	30	30	20	0.0000	1.6174	23.0089	9.9997	14.7910
23.1580	17.5764	1.9380	2.0128	2.1124	0.4453	0.7993	2.0101	0.5306					
2001	1	2	0	0	1	31	31	20	0.0000	1.6219	22.3448	5.6923	12.2921
30.2529	5.3492	3.5770	3.1349	4.9783	1.3018	4.3030	2.8388	2.3131					
2001	1	2	0	0	1	32	32	20	0.0000	0.7375	21.6876	10.6965	8.8968
28.8062	12.3512	2.0641	5.2578	3.3536	0.2201	1.6195	2.5782	1.7309					
2001	1	2	0	0	1	33	33	20	0.0000	1.7561	16.8479	4.8175	7.7288
30.2077	13.7698	4.0777	3.3433	5.9727	2.0526	2.4755	2.3848	4.5656					
2001	1	2	0	0	1	34	34	19	0.0000	0.0000	6.6062	1.0494	5.2167
37.8560	24.3453	0.9989	4.9287	7.3963	4.7019	1.2642	3.7703	1.8660					
2001	1	2	0	0	1	35	35	18	0.0000	1.4872	1.2159	0.9395	6.3342
37.9015	24.7375	4.3686	6.8019	4.7427	0.0000	4.6578	3.0184	3.7948					

2001	1	2	0	0	1	36	36	19	0.0000	0.0000	0.0000	1.9467	9.2585	
25.4506	18.8768	6.4191	0.9494	10.3323	3.6184	12.6713	0.9494	9.5274	0.0000	0.0000	1.3305	3.2822	10.1370	
2001	1	2	0	0	1	37	37	17	0.0000	0.0000	0.0000	1.3305	3.2822	10.1370
33.5628	12.0628	4.1253	6.7308	10.9591	0.0000	1.5370	8.7205	7.5519	0.0000	0.0000	0.0000	0.0000	0.0000	11.4294
2001	1	2	0	0	1	38	38	17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27.6693	18.6110	3.5874	10.9540	9.9317	2.5622	4.6699	3.3864	7.1987	0.0000	0.0000	0.0000	0.0000	0.0000	5.4466
2001	1	2	0	0	1	39	39	17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
34.8437	20.6244	11.3742	7.0159	9.2641	5.0713	3.1561	3.2036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	40	40	12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
36.0220	5.3011	0.0000	11.0325	13.6640	9.9940	3.3418	7.7238	12.9208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	41	41	9	0.0000	0.0000	0.0000	6.8589	0.0000	7.1619
49.7460	0.0000	6.8589	22.2123	7.1619	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	42	42	7	0.0000	0.0000	0.0000	0.0000	0.0000	6.9324
21.2889	5.3734	12.7642	18.0418	14.3104	21.2889	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	43	43	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
52.5958	0.0000	0.0000	23.6052	13.9290	9.8700	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33.6671	33.6671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	32.6658	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	45	45	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	28.2727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	71.7273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	46	46	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
48.5839	27.9563	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	23.4599	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	2	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	48.9195	0.0000	51.0805	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	18	18	1	0.0000	100.0000	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
2002	1	2	0	0	1	24	24	8	0.0000	42.3639	45.1912	12.4449	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
2002	1	2	0	0	1	25	25	3	0.0000	17.1018	82.8982	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
2002	1	2	0	0	1	26	26	5	0.0000	33.5639	17.2156	38.7468	0.0000	0.0000
10.4737	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
2002	1	2	0	0	1	27	27	11	0.0000	10.1682	42.7429	4.1362	31.5825	0.0000
11.3703	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
2002	1	2	0	0	1	28	28	15	0.0000	0.0000	21.0578	26.8497	24.8504	0.0000
7.2586	8.3690	6.1733	2.0629	3.3782	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	29	29	22	0.0000	1.0663	22.9492	28.9467	8.3092	0.0000
5.9522	15.1476	7.8443	1.0165	3.2895	2.7009	0.0000	2.7776	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	30	30	24	0.0000	1.0806	10.4197	32.7813	11.5939	0.0000
8.6118	16.2868	13.5632	1.2248	0.0000	0.0000	2.8768	1.5611	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	31	31	25	0.0000	0.0000	10.2991	39.2676	10.2788	0.0000
9.6153	13.0745	8.1587	2.9222	2.6789	2.7661	0.0000	0.9387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	32	32	26	0.0000	0.0000	8.9592	31.1028	14.7763	0.0000
9.0802	16.5015	11.0516	1.7012	1.1197	4.2000	0.0000	0.0000	1.5074	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	33	33	26	0.0000	1.1350	5.9499	40.2491	6.7256	0.0000
6.3068	20.4834	8.1864	0.6422	1.5461	2.7718	0.0000	3.0604	2.9432	0.0000	0.0000	4.8161	33.8745	6.3276	0.0000
2002	1	2	0	0	1	34	34	26	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9.1029	18.4557	13.8195	3.9930	2.3153	4.1518	0.5827	0.0000	2.5609	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	35	35	26	0.0000	0.7673	8.9400	30.5344	6.4356	0.0000
8.6302	19.3262	13.2542	2.8175	1.5265	2.0964	1.1651	0.8161	3.6906	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	36	36	26	0.0000	4.9976	20.3347	7.5862	0.0000	0.0000
15.9785	30.3148	10.7139	1.1348	5.0741	0.7193	0.0000	1.1421	2.0041	0.0000	0.0000	3.3938	18.1511	8.8107	0.0000
2002	1	2	0	0	1	37	37	25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9.1303	37.3568	9.8545	0.8651	1.9355	2.4102	1.3884	2.0345	4.6692	0.0000	0.0000	5.1217	13.7079	6.2973	0.0000
2002	1	2	0	0	1	38	38	25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11.6000	30.2736	12.6475	3.9881	0.9051	7.1326	0.0000	2.8971	5.4292	0.0000	0.0000	9.9737	2.1620	0.0000	0.0000
2002	1	2	0	0	1	39	39	21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9.5299	35.3383	16.8471	2.4629	3.2460	8.5750	2.2157	0.0000	9.6493	0.0000	0.0000	3.7014	0.0000	3.1279	0.0000
2002	1	2	0	0	1	40	40	13	0.0000	0.0000	4.0782	3.6010	8.7241	0.0000
16.8292	40.9721	27.4825	3.3522	4.5347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	41	41	18	0.0000	0.0000	4.0782	3.6010	8.7241	0.0000
10.1919	24.4442	5.0716	4.1021	8.4367	10.1702	8.3743	0.0000	12.8057	0.0000	0.0000	5.5343	0.0000	0.0000	0.0000
2002	1	2	0	0	1	42	42	12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25.3984	17.3582	11.5257	7.9052	5.0439	8.9366	0.0000	4.8582	13.4395	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	43	43	12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11.9223	61.8329	13.6021	0.0000	6.2803	0.0000	6.3624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	44	44	7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	44.3172	21.2872	0.0000	10.5131	0.0000	0.0000	0.0000	23.8824	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2002	1	2	0	0	1	45	45	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.3248	0.0000	0.0000	49.6752	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	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
2002	1	2	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	34.7540	30.4919	34.7540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	48	48	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2002	1	2	0	0	1	49	49	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2003	1	2	0	0	1	13	13	2	0.0000	0.0000	0.0000	0.0000	100.0000	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	100.0000	0.0000	0.0000
2003	1	2	0	0	1	14	14	2	0.0000	0.0000	0.0000	0.0000	100.0000	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	100.0000	0.0000	0.0000
2003	1	2	0	0	1	17	17	1	0.0000	0.0000	0.0000	0.0000	100.0000	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	100.0000	0.0000	0.0000
2003	1	2	0	0	1	21	21	1	0.0000	0.0000	100.0000	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	100.0000	0.0000	0.0000	0.0000
2003	1	2	0	0	1	22	22	3	0.0000	0.0000	75.1993	0.0000	0.0000	0.0000
0.0000	0.0000	24.8007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	75.1993	0.0000	0.0000	0.0000
2003	1	2	0	0	1	23	23	11	0.0000	0.0000	68.0069	11.9223	6.5124	0.0000
10.1511	3.4072	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	68.0069	11.9223	6.5124	0.0000
2003	1	2	0	0	1	24	24	14	0.0000	0.0000	68.5910	20.7945	2.7590	0.0000
3.9542	1.9883	1.9129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	68.5910	20.7945	2.7590	0.0000
2003	1	2	0	0	1	25	25	14	0.0000	2.2715	56.1839	27.1537	4.6842	0.0000
5.8375	1.0781	0.9145	1.8766	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.8347	58.2497	15.9159	5.4840
2003	1	2	0	0	1	26	26	15	0.0000	1.8347	58.2497	15.9159	5.4840	0.0000
7.1744	3.1595	3.2125	2.8268	1.0581	0.0000	1.0843	0.0000	0.0000	0.0000	0.0000	37.9090	25.6187	4.1695	0.0000
2003	1	2	0	0	1	27	27	15	0.0000	0.0000	41.1892	24.7730	3.1076	0.0000
11.1978	7.9117	4.7170	5.6703	0.7105	1.3675	0.7281	0.0000	0.0000	0.0000	0.0000	20.9520	12.7144	8.1287	0.0000
2003	1	2	0	0	1	28	28	15	0.0000	0.0000	27.3169	20.1340	8.1287	0.0000
10.5619	5.5564	6.3114	4.6666	1.5611	0.0000	1.4044	0.0000	0.8685	0.0000	0.0000	29.7089	11.6836	5.8189	0.0000
2003	1	2	0	0	1	29	29	15	0.0000	0.0000	12.7050	23.0225	11.3418	0.0000
17.6890	8.4899	10.7135	5.5262	2.0018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14.9922	10.2756	19.6119	0.0000
2003	1	2	0	0	1	30	30	15	0.0000	0.0000	14.9922	10.2756	19.6119	0.0000
20.9520	7.7314	12.1244	3.8823	2.0193	1.4668	3.4105	0.0000	1.2020	0.0000	0.0000	7.4336	18.6799	31.6749	0.0000
2003	1	2	0	0	1	31	31	15	0.0000	0.0000	10.2821	11.9718	16.1300	0.0000
15.6006	7.2251	11.3127	13.4500	2.0643	0.0000	1.7657	0.0000	1.5122	0.0000	0.0000	5.1573	25.0678	17.7324	0.0000
2003	1	2	0	0	1	32	32	13	0.0000	0.0000	14.9922	10.2756	19.6119	0.0000
11.5581	15.5361	12.5532	5.5570	6.1898	0.0000	3.7262	0.0000	0.0000	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	33	33	13	0.0000	0.0000	8.1690	8.4396	6.9973	0.0000
19.4986	13.4747	4.5097	9.1017	2.3121	0.0000	0.0000	3.1456	0.0000	0.0000	0.0000	10.0000	0.0000	0.0000	0.0000
2003	1	2	0	0	1	34	34	11	0.0000	0.0000	10.2821	11.9718	16.1300	0.0000
25.4043	6.6695	11.3009	8.4387	0.0000	3.7301	3.0363	3.0363	0.0000	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	35	35	11	0.0000	0.0000	8.1690	8.4396	6.9973	0.0000
18.7776	10.2861	25.0699	7.1959	15.6727	0.0000	2.9858	0.0000	0.0000	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	36	36	9	0.0000	0.0000	7.4336	18.6799	31.6749	0.0000
25.9355	0.0000	6.1934	0.0000	5.0413	0.0000	0.0000	0.0000	5.0413	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	37	37	7	0.0000	0.0000	8.1690	8.4396	6.9973	0.0000
6.9973	0.0000	46.0660	6.9973	16.3335	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	38	38	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9.8441	10.1687	44.6501	7.4971	13.8807	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	39	39	8	0.0000	0.0000	8.8864	25.5914	0.0000	0.0000
12.1233	0.0000	18.3589	0.0000	0.0000	10.7181	11.4809	0.0000	12.8410	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	40	40	5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35.3488	0.0000	46.5278	0.0000	0.0000	0.0000	0.0000	0.0000	18.1233	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	41	41	5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	29.8403	12.3816	12.3816	0.0000	14.9337	0.0000	0.0000	0.0000	0.0000	0.0000	12.1233	8.0000	5.3860	0.0000
2003	1	2	0	0	1	42	42	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29.9916	0.0000	38.7480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	31.2604	0.0000	0.0000	0.0000
2003	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2003	1	2	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2003	1	2	0	0	1	45	45	1	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	100.0000	0.0000	0.0000	0.0000
2003	1	2	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	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
2003	1	2	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2004	1	2	0	0	1	10	10	1	0.0000	0.0000	0.0000	0.0000	100.0000	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
2004	1	2	0	0	1	11	11	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	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
2004	1	2	0	0	1	13	13	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
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	100.0000
2004	1	2	0	0	1	14	14	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
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	100.0000
2004	1	2	0	0	1	15	15	2	58.5058	0.0000	0.0000	0.0000	0.0000	41.4942
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	41.4942
2004	1	2	0	0	1	16	16	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
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	100.0000
2004	1	2	0	0	1	17	17	1	0.0000	0.0000	0.0000	0.0000	0.0000	20.0000
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	20.0000
2004	1	2	0	0	1	18	18	2	0.0000	0.0000	0.0000	0.0000	0.0000	70.3463
0.0000	0.0000	29.6537	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	70.3463
2004	1	2	0	0	1	19	19	2	0.0000	0.0000	69.7592	15.1204	15.1204	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	69.7592	15.1204	15.1204	
2004	1	2	0	0	1	20	20	3	0.0000	18.5905	12.3094	12.3094	0.0000	
56.7906	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18.5905	12.3094	12.3094	0.0000	
2004	1	2	0	0	1	21	21	11	0.0000	59.5820	0.0000	28.2325	12.1855	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	59.5820	0.0000	28.2325	12.1855	
2004	1	2	0	0	1	22	22	20	0.0000	15.7398	5.3963	68.3498	6.0162	
4.4979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15.7398	5.3963	68.3498	6.0162	
2004	1	2	0	0	1	23	23	26	0.0000	12.1471	4.2035	75.1852	7.0790	
0.5242	0.8610	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.1471	4.2035	75.1852	7.0790	
2004	1	2	0	0	1	24	24	31	0.0000	3.3954	3.1360	83.0647	7.4869	
1.9282	0.5061	0.4828	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.3954	3.1360	83.0647	7.4869	
2004	1	2	0	0	1	25	25	32	0.0000	0.4806	3.3481	73.8552	16.8292	
1.3742	1.0506	1.6342	0.7833	0.6446	0.0000	0.0000	0.0000	0.0000	0.0000	0.4806	3.3481	73.8552	16.8292	
2004	1	2	0	0	1	26	26	32	0.0000	0.1480	1.6040	77.4460	11.8914	
1.5654	2.3193	2.9626	1.4027	0.6608	0.0000	0.0000	0.0000	0.0000	0.0000	0.1480	1.6040	77.4460	11.8914	
2004	1	2	0	0	1	27	27	32	0.0000	0.0000	1.0505	71.5285	14.3562	
3.7921	4.6284	2.2864	0.9735	0.8338	0.5506	0.0000	0.0000	0.0000	0.0000	0.0000	1.0505	71.5285	14.3562	
2004	1	2	0	0	1	28	28	32	0.0000	0.0000	0.3648	66.9496	11.6435	
1.6843	9.3227	3.2830	3.6290	2.4464	0.4998	0.1771	0.0000	0.0000	0.0000	0.0000	0.3648	66.9496	11.6435	
2004	1	2	0	0	1	29	29	31	0.0000	0.6148	1.6688	52.8248	18.4309	
5.1258	9.0259	3.9787	5.3783	1.9338	0.6384	0.1424	0.2374	0.0000	0.0000	0.6148	1.6688	52.8248	18.4309	
2004	1	2	0	0	1	30	30	31	0.0000	0.0000	0.8168	48.1210	15.9151	
7.1241	7.1275	8.3661	6.0448	4.0745	0.9355	0.0000	1.4747	0.0000	0.0000	0.8168	48.1210	15.9151		
2004	1	2	0	0	1	31	31	31	0.0000	0.0000	1.3335	28.9472	12.6999	
5.3087	21.7823	10.7703	9.1874	3.3931	1.7166	2.5684	0.0000	2.2926	0.0000	0.0000	1.3335	28.9472	12.6999	
2004	1	2	0	0	1	32	32	27	0.0000	0.0000	1.3629	38.0457	12.4769	
2.8790	18.3370	8.6651	5.2718	7.0365	3.8091	0.3186	0.0000	1.7974	0.0000	0.0000	1.3629	38.0457	12.4769	
2004	1	2	0	0	1	33	33	18	0.0000	0.0000	5.0351	30.3249	7.4597	
14.4638	13.2756	10.1302	4.3905	12.4469	0.0000	0.0000	2.4733	0.0000	0.0000	5.0351	30.3249	7.4597		
2004	1	2	0	0	1	34	34	17	0.0000	0.0000	4.7410	27.2558	6.4929	
16.5327	17.6294	14.5815	4.9506	0.0000	0.0000	7.8160	0.0000	0.0000	0.0000	0.0000	4.7410	27.2558	6.4929	
2004	1	2	0	0	1	35	35	13	0.0000	0.0000	0.0000	0.0000	16.2430	21.1304
37.7515	6.4001	2.2887	0.0000	3.5434	0.0000	0.0000	5.9357	6.7072	0.0000	0.0000	0.0000	0.0000	16.2430	21.1304
2004	1	2	0	0	1	36	36	11	0.0000	0.0000	0.0000	0.0000	18.7749	17.3509
16.7304	20.5671	9.8512	1.4830	0.0000	6.2013	0.0000	2.8398	6.2013	0.0000	0.0000	0.0000	0.0000	18.7749	17.3509
2004	1	2	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	33.4903	25.3500
0.0000	0.0000	6.9906	6.9906	0.0000	0.0000	27.1784	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	33.4903	25.3500
2004	1	2	0	0	1	38	38	7	0.0000	0.0000	0.0000	0.0000	27.2174	34.5735
10.2453	5.9507	16.0624	5.9507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	27.2174	34.5735
2004	1	2	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	0.0000	21.3531
23.2676	0.0000	55.3793	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	21.3531
2004	1	2	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000
0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000
2004	1	2	0	0	1	41	41	5	0.0000	0.0000	0.0000	0.0000	0.0000	16.4672
36.7710	15.1911	0.0000	16.3795	0.0000	0.0000	0.0000	15.1911	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
2004	1	2	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27.4407	72.5593	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
2004	1	2	0	0	1	43	43	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
2004	1	2	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
2004	1	2	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
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	100.0000

2004	1	2	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	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
2004	1	2	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000
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
2004	1	2	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	19	19	2	0.0000	0.0000	48.1581	0.0000	0.0000	51.8419
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
2005	1	2	0	0	1	21	21	1	0.0000	0.0000	33.3333	0.0000	0.0000	66.6667
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
2005	1	2	0	0	1	22	22	3	0.0000	0.0000	0.0000	0.0000	0.0000	23.3997
0.0000	21.6217	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
2005	1	2	0	0	1	23	23	12	0.0000	0.0000	2.1305	9.6919	0.0000	81.3755
1.0653	5.7368	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
2005	1	2	0	0	1	24	24	17	0.0000	0.0000	5.7333	0.7260	0.0000	78.4467
10.0868	0.0000	0.0000	5.0073	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	25	25	19	0.0000	0.0000	1.2904	0.4253	0.0000	75.3246
20.2576	2.7022	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
2005	1	2	0	0	1	26	26	20	0.0000	0.0000	2.9404	5.2453	0.0000	61.1145
19.0020	2.2002	7.5969	1.9007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	27	27	20	0.0000	0.0000	2.7307	0.5408	0.0000	78.2032
13.5949	0.0560	4.2289	0.6455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	28	28	20	0.0000	0.0000	1.8891	0.7415	0.0000	59.2870
14.5850	5.9192	4.5569	12.7027	0.0445	0.2742	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	29	29	19	0.0000	0.0000	0.0000	0.0000	0.0000	7.8885
8.0792	1.7191	15.0864	5.0461	2.3092	2.6023	0.0000	0.0000	0.5257	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	30	30	17	0.0000	0.0000	0.0000	0.0000	0.0000	5.5995
16.4191	5.6248	6.6792	0.0000	7.1602	2.8124	2.4402	0.0000	2.2394	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	31	31	12	0.0000	0.0000	0.0000	0.0000	0.0000	3.5818
14.7590	0.0000	1.6819	12.1680	4.7397	7.8140	0.0000	0.0000	4.3362	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	32	32	12	0.0000	0.0000	0.0000	0.0000	0.0000	35.9155
23.6230	1.3729	5.6135	25.9310	7.3158	0.2282	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	33	33	2	0.0000	0.0000	0.0000	0.0000	0.0000	71.8001
0.0000	28.1999	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
2005	1	2	0	0	1	34	34	5	0.0000	0.0000	0.0000	0.0000	0.0000	24.3379
34.4539	0.0000	41.2082	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	35	35	7	0.0000	0.0000	0.0000	0.0000	0.0000	51.3215
1.1804	0.0000	2.1615	0.0000	24.9166	1.1804	19.2397	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	36	36	6	0.0000	0.0000	0.0000	0.0000	0.0000	19.4059
21.6556	0.0000	0.0000	19.8919	23.1695	15.8771	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	0.0000	69.2278
0.0000	28.6446	0.0000	0.0000	2.1276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	38	38	2	0.0000	0.0000	0.0000	0.0000	0.0000	40.5194
29.7403	0.0000	0.0000	29.7403	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	39	39	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
89.6871	0.0000	0.0000	10.3129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2005	1	2	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	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
2005	1	2	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	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
2005	1	2	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	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
2005	1	2	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	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
1977	1	3	0	0	1	7	7	1	100.0000	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
1977	1	3	0	0	1	9	9	1	100.0000	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
1977	1	3	0	0	1	10	10	1	66.6667	33.3333	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
1977	1	3	0	0	1	11	11	1	57.1429	42.8571	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
1977	1	3	0	0	1	12	12	2	92.8571	7.1429	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
1977	1	3	0	0	1	13	13	3	85.7143	14.2857	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
1977	1	3	0	0	1	14	14	4	82.9268	17.0732	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
1977	1	3	0	0	1	15	15	3	80.0000	20.0000	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

1977	1	3	0	0	1	16	16	9	67.2414	24.1379	8.6207	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	17	17	14	68.2540	20.6349	9.5238	0.0000	0.0000
1.5873	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	18	18	16	60.6061	30.3030	9.0909	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	19	19	14	53.5211	29.5775	16.9014	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	20	20	17	50.0000	26.3889	22.2222	1.3889	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	21	21	20	25.6757	31.0811	41.8919	1.3514	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	22	22	22	10.0000	22.3077	61.5385	4.6154	0.7692
0.0000	0.7692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	23	23	24	2.7027	16.8919	72.9730	4.7297	2.0270
0.6757	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	24	24	29	0.0000	16.0976	75.6098	3.4146	0.9756
3.9024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	25	25	34	0.0000	6.2500	82.5000	5.0000	1.2500
4.5833	0.4167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	26	26	40	0.0000	3.1873	72.1116	5.5777	4.3825
13.9442	0.3984	0.0000	0.0000	0.3984	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	27	27	41	0.3215	3.5370	54.9839	4.5016	6.1093
29.5820	0.3215	0.0000	0.3215	0.3215	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	28	28	45	0.0000	0.2283	31.5068	7.0776	9.1324
47.7169	3.1963	1.1416	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	29	29	48	0.0000	0.0000	19.4707	3.0246	8.5066
63.1380	4.1588	1.1342	0.1890	0.3781	0.0000	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	30	30	48	0.0000	0.1724	12.2414	4.4828	9.1379
65.5172	5.5172	1.2069	0.8621	0.1724	0.6897	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	31	31	45	0.0000	0.0000	6.9243	2.4155	7.2464
68.9211	9.1787	2.5765	2.0934	0.3221	0.3221	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	32	32	47	0.0000	0.0000	2.9240	1.1696	5.8480
64.3275	12.4756	6.6277	4.0936	1.3645	0.9747	0.0000	0.1949	0.0000					
1977	1	3	0	0	1	33	33	46	0.0000	0.0000	1.3921	0.4640	4.6404
55.9165	16.0093	10.4408	6.9606	3.0162	0.6961	0.4640	0.0000	0.0000					
1977	1	3	0	0	1	34	34	44	0.0000	0.0000	2.5890	1.6181	3.5599
46.6019	16.5049	11.0032	7.7670	7.7670	2.2654	0.0000	0.3236	0.0000					
1977	1	3	0	0	1	35	35	40	0.0000	0.0000	0.4202	0.8403	0.8403
47.8992	15.5462	13.4454	11.3445	3.7815	3.7815	1.6807	0.4202	0.0000					
1977	1	3	0	0	1	36	36	38	0.0000	0.0000	0.0000	0.0000	2.9070
33.7209	16.8605	18.6047	13.9535	7.5581	2.3256	4.0698	0.0000	0.0000					
1977	1	3	0	0	1	37	37	31	0.0000	0.0000	0.0000	0.0000	2.1583
33.0935	14.3885	22.3022	10.0719	10.7914	5.7554	1.4388	0.0000	0.0000					
1977	1	3	0	0	1	38	38	33	0.0000	0.0000	0.0000	0.7042	0.0000
21.8310	19.7183	17.6056	16.9014	9.8592	9.1549	3.5211	0.7042	0.0000					
1977	1	3	0	0	1	39	39	27	0.0000	0.0000	0.0000	0.0000	2.6316
22.3684	14.4737	17.1053	22.3684	7.8947	7.8947	2.6316	2.6316	0.0000					
1977	1	3	0	0	1	40	40	19	0.0000	0.0000	1.8182	0.0000	0.0000
14.5455	9.0909	16.3636	23.6364	16.3636	9.0909	3.6364	3.6364	1.8182					
1977	1	3	0	0	1	41	41	18	0.0000	0.0000	0.0000	0.0000	2.0000
20.0000	14.0000	16.0000	22.0000	14.0000	4.0000	6.0000	2.0000	0.0000					
1977	1	3	0	0	1	42	42	16	0.0000	0.0000	0.0000	0.0000	0.0000
10.2564	12.8205	20.5128	5.1282	23.0769	15.3846	12.8205	0.0000	0.0000					
1977	1	3	0	0	1	43	43	11	0.0000	0.0000	0.0000	0.0000	2.7778
5.5556	13.8889	11.1111	19.4444	19.4444	19.4444	2.7778	2.7778	0.0000					
1977	1	3	0	0	1	44	44	11	0.0000	0.0000	0.0000	0.0000	0.0000
13.7931	17.2414	31.0345	20.6897	10.3448	6.8966	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	45	45	10	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	4.7619	33.3333	23.8095	14.2857	9.5238	4.7619	0.0000	9.5238					
1977	1	3	0	0	1	46	46	8	0.0000	0.0000	0.0000	0.0000	0.0000
27.7778	11.1111	11.1111	16.6667	16.6667	5.5556	5.5556	0.0000						
1977	1	3	0	0	1	47	47	8	0.0000	0.0000	0.0000	0.0000	0.0000
10.0000	0.0000	0.0000	10.0000	60.0000	10.0000	0.0000	0.0000	10.0000					
1977	1	3	0	0	1	48	48	8	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	11.1111	33.3333	22.2222	11.1111	11.1111	0.0000	0.0000	0.0000					
1977	1	3	0	0	1	49	49	7	0.0000	0.0000	0.0000	0.0000	0.0000
12.5000	12.5000	12.5000	0.0000	0.0000	25.0000	25.0000	0.0000	12.5000					
1977	1	3	0	0	1	50	50	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	16.6667	33.3333	0.0000	0.0000	0.0000	0.0000	0.0000					

1977	1	3	0	0	1	51	51	7	0.0000	0.0000	9.0909	0.0000	0.0000
18.1818	0.0000	9.0909	0.0000	9.0909	9.0909	0.0000	9.0909	36.3636					
1980	1	3	0	0	1	10	10	1	100.0000	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					
1980	1	3	0	0	1	15	15	4	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	16	16	7	0.0000	100.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	17	17	9	2.0833	93.7500	4.1667	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	18	18	10	1.5385	95.3846	3.0769	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	19	19	12	1.1236	94.3820	4.4944	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	20	20	10	0.0000	93.3036	6.6964	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	21	21	12	0.0000	92.6316	6.8421	0.5263	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	22	22	11	0.0000	86.1111	13.1944	0.6944	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	23	23	10	0.0000	70.3704	29.6296	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	24	24	12	0.0000	55.8824	32.3529	0.0000	2.9412
8.8235	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	25	25	13	0.0000	22.2222	22.2222	27.7778	11.1111
16.6667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	26	26	16	0.0000	8.6957	8.6957	30.4348	21.7391
13.0435	13.0435	0.0000	4.3478	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	27	27	18	0.0000	1.8182	5.4545	34.5455	16.3636
27.2727	1.8182	10.9091	1.8182	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	28	28	19	0.0000	0.0000	0.0000	25.3333	16.0000
38.6667	12.0000	5.3333	2.6667	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	29	29	21	0.0000	0.0000	0.0000	18.0124	14.9068
36.6460	9.3168	18.0124	3.1056	0.0000	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	30	30	24	0.0000	0.0000	0.4386	13.5965	13.1579
42.1053	12.7193	14.0351	2.6316	0.8772	0.0000	0.4386	0.0000	0.0000					
1980	1	3	0	0	1	31	31	22	0.0000	0.0000	0.0000	6.2500	5.8594
42.9688	11.3281	25.3906	6.2500	1.5625	0.0000	0.3906	0.0000	0.0000					
1980	1	3	0	0	1	32	32	22	0.0000	0.0000	0.0000	4.0359	4.4843
38.1166	8.0717	32.2870	7.6233	4.4843	0.4484	0.4484	0.0000	0.0000					
1980	1	3	0	0	1	33	33	21	0.0000	0.0000	0.0000	2.6432	5.2863
37.4449	5.2863	30.3965	13.2159	3.9648	1.3216	0.0000	0.0000	0.4405					
1980	1	3	0	0	1	34	34	19	0.0000	0.0000	0.0000	2.2599	0.5650
30.5085	14.1243	31.6384	9.0395	7.9096	1.1299	1.6949	0.5650	0.5650					
1980	1	3	0	0	1	35	35	18	0.0000	0.0000	0.0000	0.7463	3.7313
27.6119	6.7164	29.8507	19.4030	8.2090	2.2388	0.7463	0.0000	0.7463					
1980	1	3	0	0	1	36	36	17	0.0000	0.0000	0.0000	0.9901	1.9802
23.7624	9.9010	30.6931	16.8317	8.9109	3.9604	2.9703	0.0000	0.0000					
1980	1	3	0	0	1	37	37	19	0.0000	1.3699	0.0000	1.3699	2.7397
15.0685	2.7397	31.5068	23.2877	8.2192	5.4795	4.1096	4.1096	0.0000					
1980	1	3	0	0	1	38	38	16	0.0000	0.0000	0.0000	0.0000	0.0000
20.0000	8.0000	30.0000	16.0000	22.0000	2.0000	2.0000	0.0000	0.0000					
1980	1	3	0	0	1	39	39	11	0.0000	0.0000	0.0000	0.0000	0.0000
9.3750	6.2500	21.8750	34.3750	25.0000	3.1250	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	40	40	14	0.0000	0.0000	0.0000	0.0000	4.5455
9.0909	4.5455	22.7273	22.7273	4.5455	4.5455	0.0000	4.5455	0.0000					
1980	1	3	0	0	1	41	41	7	0.0000	0.0000	0.0000	5.8824	0.0000
5.8824	5.8824	29.4118	11.7647	29.4118	11.7647	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	42	42	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	18.1818	18.1818	36.3636	9.0909	9.0909	9.0909	0.0000					
1980	1	3	0	0	1	43	43	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	25.0000	0.0000	25.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	40.0000	40.0000	20.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	45	45	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	28.5714	57.1429	14.2857	0.0000	0.0000	0.0000	0.0000					
1980	1	3	0	0	1	46	46	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	33.3333	0.0000	0.0000	0.0000	33.3333	0.0000					
1980	1	3	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1980	1	3	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	50.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1980	1	3	0	0	1	49	49	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	14.2857	28.5714	0.0000	28.5714	28.5714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1980	1	3	0	0	1	50	50	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	33.3333	0.0000	0.0000	33.3333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1980	1	3	0	0	1	51	51	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	25.0000	0.0000	25.0000	25.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	14	14	2	0.0000	100.0000	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
1983	1	3	0	0	1	15	15	4	5.8824	94.1176	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
1983	1	3	0	0	1	16	16	3	3.1250	96.8750	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
1983	1	3	0	0	1	17	17	5	1.6393	98.3607	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
1983	1	3	0	0	1	18	18	7	0.0000	97.3333	1.3333	0.0000	1.3333
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
1983	1	3	0	0	1	19	19	8	0.0000	100.0000	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
1983	1	3	0	0	1	20	20	9	0.0000	98.1132	1.8868	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
1983	1	3	0	0	1	21	21	13	0.0000	96.2963	1.2346	2.4691	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
1983	1	3	0	0	1	22	22	11	0.0000	100.0000	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
1983	1	3	0	0	1	23	23	11	0.0000	90.3226	6.4516	3.2258	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
1983	1	3	0	0	1	24	24	9	0.0000	80.7692	9.6154	3.8462	5.7692
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
1983	1	3	0	0	1	25	25	13	0.0000	49.0566	5.6604	5.6604	35.8491
3.7736	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
1983	1	3	0	0	1	26	26	12	0.0000	27.5862	6.8966	5.1724	55.1724
3.4483	1.7241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	27	27	13	0.0000	7.2464	4.3478	4.3478	79.7101
1.4493	1.4493	0.0000	1.4493	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	28	28	12	0.0000	3.1915	2.1277	3.1915	78.7234
6.3830	3.1915	1.0638	2.1277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	29	29	13	0.0000	0.0000	1.0638	4.2553	81.9149
6.3830	3.1915	2.1277	0.0000	0.0000	1.0638	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	30	30	12	0.0000	0.0000	1.2195	2.4390	74.3902
8.5366	6.0976	2.4390	4.8780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	31	31	12	0.0000	0.0000	0.0000	1.4085	60.5634
2.8169	7.0423	8.4507	11.2676	4.2254	4.2254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	32	32	11	0.0000	0.0000	0.0000	0.0000	58.1818
9.0909	10.9091	7.2727	7.2727	3.6364	1.8182	1.8182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	33	33	10	0.0000	0.0000	0.0000	0.0000	39.2157
7.8431	7.8431	11.7647	21.5686	3.9216	7.8431	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	34	34	9	0.0000	0.0000	0.0000	0.0000	22.7273
2.2727	11.3636	13.6364	22.7273	9.0909	4.5455	11.3636	2.2727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	35	35	8	0.0000	0.0000	0.0000	0.0000	13.3333
3.3333	23.3333	20.0000	26.6667	10.0000	3.3333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	36	36	6	0.0000	0.0000	0.0000	0.0000	5.8824
5.8824	11.7647	11.7647	23.5294	11.7647	11.7647	17.6471	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	9.0909
0.0000	18.1818	18.1818	9.0909	9.0909	9.0909	27.2727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	38	38	7	0.0000	0.0000	0.0000	0.0000	9.0909
0.0000	18.1818	36.3636	18.1818	9.0909	9.0909	9.0909	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	39	39	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	20.0000	20.0000	40.0000	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	40	40	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	66.6667	0.0000	0.0000	16.6667	16.6667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	43	43	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1983	1	3	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	47	47	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1983	1	3	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	10	10	2	100.0000	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
1986	1	3	0	0	1	11	11	3	100.0000	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
1986	1	3	0	0	1	12	12	6	100.0000	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
1986	1	3	0	0	1	13	13	8	96.3855	3.6145	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
1986	1	3	0	0	1	14	14	8	97.6190	2.3810	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
1986	1	3	0	0	1	15	15	9	98.1595	1.8405	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
1986	1	3	0	0	1	16	16	9	97.6471	2.3529	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
1986	1	3	0	0	1	17	17	11	89.3617	8.5106	2.1277	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
1986	1	3	0	0	1	18	18	8	76.4706	17.6471	5.8824	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
1986	1	3	0	0	1	19	19	10	80.0000	20.0000	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
1986	1	3	0	0	1	20	20	5	20.0000	20.0000	20.0000	0.0000	40.0000
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
1986	1	3	0	0	1	21	21	6	0.0000	0.0000	11.1111	0.0000	88.8889
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
1986	1	3	0	0	1	22	22	12	0.0000	0.0000	0.0000	20.0000	80.0000
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
1986	1	3	0	0	1	23	23	21	0.0000	0.0000	1.3245	5.2980	88.7417
4.0404	2.0202	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	24	24	21	0.0000	0.0000	1.3245	5.2980	88.7417
3.3113	1.3245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	25	25	20	0.0000	0.0000	0.9050	5.4299	86.8778
6.3348	0.4525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	26	26	21	0.0000	0.0000	0.4630	2.3148	90.2778
4.6296	1.8519	0.4630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	27	27	21	0.0000	0.0000	0.5848	4.6784	80.1170
9.9415	4.0936	0.5848	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	28	28	17	0.0000	0.0000	0.0000	2.4390	67.4797
13.0081	4.8780	12.1951	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	29	29	18	0.0000	0.0000	0.0000	2.1505	61.2903
12.9032	13.9785	9.6774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	30	30	16	0.0000	0.0000	0.0000	4.1096	46.5753
17.8082	9.5890	20.5479	0.0000	1.3699	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	31	31	16	0.0000	0.0000	0.0000	0.0000	41.3793
12.0690	17.2414	27.5862	1.7241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	32	32	16	0.0000	0.0000	0.0000	0.0000	18.0000
18.0000	18.0000	42.0000	2.0000	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	33	33	11	0.0000	0.0000	0.0000	0.0000	12.1951
9.7561	12.1951	56.0976	4.8780	2.4390	0.0000	2.4390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	34	34	13	0.0000	0.0000	0.0000	0.0000	25.7143
2.8571	14.2857	34.2857	8.5714	8.5714	2.8571	2.8571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	35	35	8	0.0000	0.0000	0.0000	0.0000	13.0435
0.0000	4.3478	43.4783	13.0435	13.0435	0.0000	13.0435	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	36	36	9	0.0000	0.0000	0.0000	0.0000	15.0000
0.0000	5.0000	40.0000	10.0000	20.0000	0.0000	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	37	37	4	0.0000	0.0000	0.0000	0.0000	0.0000
7.6923	15.3846	38.4615	7.6923	15.3846	0.0000	15.3846	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	0.0000
7.6923	7.6923	30.7692	15.3846	7.6923	7.6923	15.3846	7.6923	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	0.0000
8.3333	8.3333	33.3333	16.6667	8.3333	0.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	40	40	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	55.5556	22.2222	11.1111	0.0000	11.1111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1986	1	3	0	0	1	41	41	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	0.0000	0.0000	16.6667	33.3333	16.6667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1986	1	3	0	0	1	42	42	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	25.0000	25.0000	0.0000					
1986	1	3	0	0	1	43	43	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	75.0000	0.0000	25.0000					
1986	1	3	0	0	1	45	45	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	0.0000	0.0000	66.6667	0.0000	0.0000	0.0000					
1986	1	3	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1986	1	3	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1986	1	3	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1986	1	3	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000					
1986	1	3	0	0	1	51	51	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000	50.0000					
1989	1	3	0	0	1	8	8	1	100.0000	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					
1989	1	3	0	0	1	14	14	1	100.0000	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					
1989	1	3	0	0	1	15	15	3	100.0000	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					
1989	1	3	0	0	1	16	16	4	100.0000	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					
1989	1	3	0	0	1	17	17	6	77.7778	22.2222	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	18	18	8	88.5714	8.5714	2.8571	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	19	19	7	82.0513	15.3846	2.5641	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	20	20	9	71.0526	23.6842	2.6316	2.6316	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	21	21	10	8.3333	37.5000	8.3333	41.6667	4.1667
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	22	22	15	0.0000	7.6923	0.0000	74.3590	5.1282
2.5641	0.0000	10.2564	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	23	23	20	0.0000	1.6667	1.6667	90.0000	0.8333
0.0000	0.0000	5.0000	0.0000	0.0000	0.8333	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	24	24	20	0.0000	0.8475	1.6949	86.8644	1.6949
0.4237	0.4237	7.2034	0.4237	0.0000	0.4237	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	25	25	20	0.0000	0.0000	0.3571	76.0714	0.3571
1.0714	0.3571	20.0000	1.0714	0.0000	0.7143	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	26	26	20	0.0000	0.0000	0.0000	65.4110	1.7123
0.0000	1.7123	28.4247	1.7123	0.3425	0.6849	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	27	27	20	0.0000	0.0000	0.0000	48.6772	1.0582
1.0582	1.5873	43.3862	2.6455	0.0000	1.5873	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	28	28	18	0.0000	0.0000	0.8197	32.7869	0.8197
0.8197	2.4590	59.8361	0.8197	0.0000	1.6393	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	29	29	16	0.0000	0.0000	0.0000	19.5652	2.1739
1.0870	3.2609	64.1304	2.1739	2.1739	5.4348	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	30	30	16	0.0000	0.0000	0.0000	18.1818	0.0000
0.0000	0.0000	70.4545	4.5455	0.0000	6.8182	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	31	31	10	0.0000	0.0000	0.0000	8.3333	0.0000
4.1667	0.0000	75.0000	0.0000	0.0000	12.5000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	32	32	8	0.0000	0.0000	0.0000	20.0000	0.0000
0.0000	0.0000	60.0000	6.6667	0.0000	13.3333	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	33	33	9	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	80.0000	0.0000	0.0000	0.0000	0.0000	20.0000	0.0000					
1989	1	3	0	0	1	34	34	6	0.0000	0.0000	0.0000	0.0000	0.0000
12.5000	0.0000	50.0000	0.0000	0.0000	37.5000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	35	35	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	57.1429	0.0000	0.0000	42.8571	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	36	36	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	37	37	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	0.0000	0.0000	66.6667	0.0000	0.0000	0.0000					
1989	1	3	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	66.6667	0.0000	0.0000	0.0000	0.0000	33.3333	0.0000					
1989	1	3	0	0	1	40	40	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	50.0000	0.0000					

1989	1	3	0	0	1	41	41	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	3	0	0	1	44	44	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	3	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	3	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	3	0	0	1	50	50	1	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	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1989	1	3	0	0	1	51	51	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	66.6667	0.0000	0.0000	33.3333	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	5	5	2	100.0000	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
1992	1	3	0	0	1	6	6	2	100.0000	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
1992	1	3	0	0	1	7	7	2	100.0000	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
1992	1	3	0	0	1	8	8	4	100.0000	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
1992	1	3	0	0	1	9	9	2	100.0000	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
1992	1	3	0	0	1	10	10	5	100.0000	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
1992	1	3	0	0	1	11	11	7	100.0000	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
1992	1	3	0	0	1	12	12	7	100.0000	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
1992	1	3	0	0	1	13	13	8	96.1538	3.8462	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
1992	1	3	0	0	1	14	14	8	96.6102	3.3898	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
1992	1	3	0	0	1	15	15	8	86.2745	13.7255	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
1992	1	3	0	0	1	16	16	7	89.7959	10.2041	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
1992	1	3	0	0	1	17	17	6	87.5000	12.5000	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
1992	1	3	0	0	1	18	18	6	50.0000	16.6667	33.3333	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
1992	1	3	0	0	1	19	19	5	12.5000	50.0000	25.0000	12.5000	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
1992	1	3	0	0	1	20	20	8	10.0000	20.0000	50.0000	20.0000	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
1992	1	3	0	0	1	21	21	7	0.0000	11.1111	38.8889	44.4444	5.5556
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
1992	1	3	0	0	1	22	22	10	0.0000	3.8462	38.4615	53.8462	3.8462
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
1992	1	3	0	0	1	23	23	24	0.0000	5.2632	47.3684	36.8421	1.7544
0.0000	8.7719	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	24	24	28	0.0000	2.6316	26.3158	48.2456	5.2632
0.8772	13.1579	0.8772	0.0000	0.0000	2.6316	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	25	25	36	0.0000	2.0725	12.9534	37.3057	3.1088
1.0363	36.7876	1.5544	0.0000	0.0000	4.6632	0.5181	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	26	26	38	0.0000	0.0000	9.5238	23.8095	2.1978
0.7326	46.8864	0.7326	1.0989	0.3663	14.6520	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	27	27	39	0.0000	0.0000	3.8596	15.4386	4.2105
0.7018	56.8421	1.4035	0.7018	0.7018	14.0351	1.4035	0.0000	0.7018	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	28	28	37	0.0000	0.0000	1.2658	13.5021	2.1097
0.4219	60.7595	2.1097	1.2658	0.0000	16.4557	0.4219	0.0000	1.6878	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	29	29	34	0.0000	0.0000	0.6024	9.0361	1.2048
3.0120	50.6024	3.0120	0.6024	0.0000	30.1205	1.2048	0.0000	0.6024	0.0000	0.0000	0.9524	6.6667	0.0000
1992	1	3	0	0	1	30	30	30	0.0000	0.0000	0.9524	6.6667	0.0000
0.9524	50.4762	0.9524	2.8571	0.9524	33.3333	1.9048	0.0000	0.9524	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	31	31	22	0.0000	0.0000	0.0000	1.4706	1.4706
0.0000	47.0588	1.4706	1.4706	1.4706	42.6471	1.4706	0.0000	1.4706	0.0000	0.0000	0.0000	0.0000	0.0000
1992	1	3	0	0	1	32	32	18	0.0000	0.0000	0.0000	0.0000	0.0000
4.6512	34.8837	2.3256	0.0000	2.3256	39.5349	4.6512	0.0000	9.3023	0.0000	0.0000	0.0000	0.0000	2.3256
1992	1	3	0	0	1	33	33	14	0.0000	0.0000	0.0000	0.0000	0.0000
6.6667	50.0000	3.3333	0.0000	0.0000	30.0000	3.3333	0.0000	6.6667	0.0000	0.0000	0.0000	0.0000	0.0000

1992	1	3	0	0	1	34	34	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	35.2941	5.8824	0.0000	5.8824	41.1765	0.0000	0.0000	11.7647					
1992	1	3	0	0	1	35	35	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	25.0000	8.3333	0.0000	0.0000	58.3333	8.3333	0.0000	0.0000					
1992	1	3	0	0	1	36	36	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	77.7778	0.0000	0.0000	0.0000	22.2222	0.0000	0.0000	0.0000					
1992	1	3	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	33.3333	0.0000	0.0000	11.1111	55.5556	0.0000	0.0000	0.0000					
1992	1	3	0	0	1	38	38	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	16.6667	16.6667	0.0000	0.0000	33.3333	0.0000	0.0000	33.3333					
1992	1	3	0	0	1	39	39	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	40.0000	0.0000	0.0000	0.0000	60.0000	0.0000	0.0000	0.0000					
1992	1	3	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	25.0000	0.0000	0.0000	0.0000	75.0000	0.0000	0.0000	0.0000					
1992	1	3	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1992	1	3	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
1992	1	3	0	0	1	43	43	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	50.0000					
1992	1	3	0	0	1	44	44	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	75.0000	0.0000	0.0000	25.0000					
1995	1	3	0	0	1	9	9	2	100.0000	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					
1995	1	3	0	0	1	10	10	1	100.0000	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					
1995	1	3	0	0	1	11	11	2	100.0000	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					
1995	1	3	0	0	1	12	12	4	100.0000	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					
1995	1	3	0	0	1	13	13	9	100.0000	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					
1995	1	3	0	0	1	14	14	13	97.9167	2.0833	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	15	15	15	95.4023	3.4483	1.1494	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	16	16	21	89.3443	10.6557	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	17	17	20	85.7143	13.0952	0.0000	1.1905	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	18	18	17	73.5849	24.5283	1.8868	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	19	19	14	51.8519	33.3333	3.7037	11.1111	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	20	20	6	11.1111	22.2222	11.1111	55.5556	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	21	21	11	0.0000	28.5714	7.1429	57.1429	0.0000
0.0000	7.1429	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	22	22	15	0.0000	3.4483	6.8966	82.7586	0.0000
3.4483	3.4483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	23	23	26	0.0000	1.9231	5.7692	65.3846	3.8462
7.6923	13.4615	0.0000	0.0000	1.9231	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	24	24	40	0.0000	1.0101	5.0505	67.6768	2.0202
10.1010	8.0808	0.0000	0.0000	5.0505	0.0000	0.0000	0.0000	1.0101					
1995	1	3	0	0	1	25	25	45	0.0000	0.0000	2.7027	56.0811	4.0541
5.4054	16.8919	0.6757	0.0000	12.1622	0.0000	0.0000	0.0000	2.0270					
1995	1	3	0	0	1	26	26	49	0.0000	0.0000	1.5228	41.1168	0.0000
10.1523	25.8883	1.5228	0.0000	14.7208	0.0000	1.5228	0.0000	3.5533					
1995	1	3	0	0	1	27	27	53	0.0000	0.0000	0.0000	28.3721	0.9302
4.6512	26.9767	0.0000	0.0000	30.2326	0.0000	0.9302	0.0000	7.9070					
1995	1	3	0	0	1	28	28	50	0.0000	0.0000	0.4651	17.2093	1.8605
4.1860	26.5116	0.9302	0.0000	35.8140	0.4651	1.3953	0.0000	11.1628					
1995	1	3	0	0	1	29	29	47	0.0000	0.0000	0.0000	7.9545	1.7045
3.9773	34.6591	0.5682	0.0000	36.9318	0.0000	1.1364	0.0000	13.0682					
1995	1	3	0	0	1	30	30	38	0.0000	0.0000	0.0000	5.2632	1.5038
5.2632	34.5865	0.0000	0.0000	39.8496	0.0000	3.0075	0.0000	10.5263					
1995	1	3	0	0	1	31	31	27	0.0000	0.0000	0.0000	3.1915	2.1277
4.2553	27.6596	0.0000	0.0000	51.0638	0.0000	2.1277	0.0000	9.5745					
1995	1	3	0	0	1	32	32	17	0.0000	0.0000	0.0000	1.9231	1.9231
7.6923	25.0000	0.0000	0.0000	44.2308	0.0000	3.8462	0.0000	15.3846					

1995	1	3	0	0	1	33	33	14	0.0000	0.0000	0.0000	3.3333	0.0000
0.0000	30.0000	0.0000	0.0000	46.6667	0.0000	0.0000	0.0000	20.0000					
1995	1	3	0	0	1	34	34	10	0.0000	0.0000	0.0000	0.0000	0.0000
5.8824	29.4118	0.0000	0.0000	47.0588	0.0000	0.0000	0.0000	17.6471					
1995	1	3	0	0	1	35	35	7	0.0000	0.0000	0.0000	0.0000	8.3333
0.0000	33.3333	0.0000	0.0000	41.6667	0.0000	0.0000	0.0000	16.6667					
1995	1	3	0	0	1	36	36	5	0.0000	0.0000	0.0000	0.0000	0.0000
10.0000	10.0000	0.0000	0.0000	70.0000	0.0000	0.0000	0.0000	10.0000					
1995	1	3	0	0	1	37	37	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	16.6667	0.0000	0.0000	83.3333	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	38	38	3	0.0000	0.0000	0.0000	0.0000	0.0000
25.0000	0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	25.0000					
1995	1	3	0	0	1	39	39	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	71.4286	0.0000	14.2857	0.0000	14.2857					
1995	1	3	0	0	1	40	40	2	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	100.0000					
1995	1	3	0	0	1	41	41	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	25.0000	0.0000	0.0000	25.0000	0.0000	25.0000	0.0000	25.0000					
1995	1	3	0	0	1	42	42	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000					
1995	1	3	0	0	1	43	43	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	25.0000	0.0000	0.0000	0.0000	75.0000					
1995	1	3	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	20.0000	0.0000	0.0000	40.0000	0.0000	0.0000	0.0000	40.0000					
1995	1	3	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
1995	1	3	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	50.0000	0.0000	50.0000	0.0000	0.0000					
1995	1	3	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	33.3333	0.0000	33.3333	0.0000	33.3333					
1995	1	3	0	0	1	50	50	1	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	100.0000					
1995	1	3	0	0	1	51	51	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	75.0000	0.0000	25.0000	0.0000	0.0000					
1998	1	3	0	0	1	5	5	1	100.0000	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					
1998	1	3	0	0	1	6	6	3	100.0000	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					
1998	1	3	0	0	1	7	7	2	100.0000	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					
1998	1	3	0	0	1	8	8	4	100.0000	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					
1998	1	3	0	0	1	9	9	10	100.0000	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					
1998	1	3	0	0	1	10	10	13	95.2381	4.7619	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	11	11	16	95.1613	4.8387	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	12	12	20	86.2069	12.6437	1.1494	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	13	13	23	89.4737	10.5263	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	14	14	23	84.0580	15.9420	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	15	15	31	73.6842	26.3158	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	16	16	31	52.3810	42.8571	3.1746	1.5873	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	17	17	30	22.7273	72.7273	3.0303	1.5152	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	18	18	36	11.1111	78.8889	6.6667	3.3333	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	19	19	39	1.9417	92.2330	5.8252	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	20	20	50	0.8333	80.8333	16.6667	1.6667	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	21	21	44	0.0000	78.9474	13.6842	5.2632	0.0000
2.1053	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

1998	1	3	0	0	1	22	22	55	0.0000	39.2308	31.5385	26.9231	0.7692
0.7692	0.7692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20.1258	32.7044	37.7358	0.6289
1998	1	3	0	0	1	23	23	62	0.0000				
5.0314	1.8868	0.6289	0.0000	1.2579	0.0000	0.0000	0.0000	0.0000	0.0000				
1998	1	3	0	0	1	24	24	66	0.0000	4.1667	39.8148	38.8889	3.7037
5.0926	6.4815	1.3889	0.0000	0.4630	0.0000	0.0000	0.0000	0.0000	0.0000				
1998	1	3	0	0	1	25	25	64	0.0000	3.2558	22.3256	49.7674	2.7907
4.6512	11.6279	1.3953	0.9302	2.3256	0.0000	0.0000	0.9302	0.0000	0.0000				
1998	1	3	0	0	1	26	26	57	0.0000	1.1834	20.7101	37.2781	2.3669
6.5089	20.1183	2.3669	0.5917	5.9172	0.0000	0.0000	2.9586	0.0000	0.0000				
1998	1	3	0	0	1	27	27	49	0.0000	0.0000	14.0625	30.4688	3.1250
11.7188	17.1875	1.5625	2.3438	10.9375	0.0000	0.7813	7.0313	0.7813	0.0000				
1998	1	3	0	0	1	28	28	51	0.0000	0.0000	12.7119	11.0169	2.5424
12.7119	18.6441	5.0847	3.3898	19.4915	0.0000	1.6949	7.6271	5.0847	0.0000				
1998	1	3	0	0	1	29	29	46	0.0000	1.0753	10.7527	8.6022	5.3763
6.4516	27.9570	4.3011	3.2258	12.9032	1.0753	1.0753	11.8280	5.3763	0.0000				
1998	1	3	0	0	1	30	30	31	0.0000	0.0000	7.6923	5.7692	0.0000
3.8462	28.8462	5.7692	1.9231	26.9231	0.0000	0.0000	17.3077	1.9231	0.0000				
1998	1	3	0	0	1	31	31	22	0.0000	0.0000	2.9412	8.8235	0.0000
2.9412	23.5294	0.0000	0.0000	23.5294	2.9412	0.0000	26.4706	8.8235	0.0000				
1998	1	3	0	0	1	32	32	9	0.0000	0.0000	0.0000	0.0000	0.0000
10.0000	20.0000	0.0000	0.0000	0.0000	0.0000	10.0000	50.0000	10.0000	0.0000				
1998	1	3	0	0	1	33	33	5	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	33.3333	0.0000	0.0000	33.3333	0.0000	0.0000	16.6667	16.6667	0.0000				
1998	1	3	0	0	1	34	34	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	14.2857	14.2857	0.0000	28.5714	0.0000	0.0000	28.5714	14.2857	0.0000				
1998	1	3	0	0	1	35	35	4	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	25.0000	25.0000	25.0000	0.0000	0.0000	0.0000	25.0000	0.0000				
1998	1	3	0	0	1	36	36	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000	50.0000	0.0000				
1998	1	3	0	0	1	37	37	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	50.0000	50.0000	0.0000					
1998	1	3	0	0	1	38	38	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	33.3333	0.0000	0.0000	0.0000	66.6667	66.6667	0.0000				
1998	1	3	0	0	1	39	39	5	0.0000	0.0000	0.0000	20.0000	0.0000
0.0000	0.0000	20.0000	40.0000	0.0000	0.0000	20.0000	0.0000	0.0000					
1998	1	3	0	0	1	41	41	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
1998	1	3	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000					
1998	1	3	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	8	8	2	100.0000	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					
2001	1	3	0	0	1	11	11	3	100.0000	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					
2001	1	3	0	0	1	12	12	8	100.0000	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					
2001	1	3	0	0	1	13	13	14	98.1132	1.8868	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	14	14	17	96.1538	2.8846	0.9615	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	15	15	20	93.9394	4.2424	1.8182	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	16	16	20	94.1558	3.8961	1.2987	0.6494	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	17	17	20	86.7470	9.6386	3.6145	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	18	18	17	90.4762	9.5238	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	19	19	13	69.6970	27.2727	3.0303	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	20	20	10	29.4118	41.1765	23.5294	5.8824	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	21	21	17	3.0303	75.7576	15.1515	3.0303	0.0000
3.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	22	22	14	0.0000	87.0968	3.2258	9.6774	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2001	1	3	0	0	1	23	23	18	2.0408	73.4694	14.2857	8.1633	2.0408
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

2001	1	3	0	0	1	24	24	22	0.0000	50.0000	15.9091	29.5455	2.2727
2.2727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	33.3333	18.1818	33.3333	12.1212
2001	1	3	0	0	1	25	25	17	0.0000	33.3333	18.1818	33.3333	12.1212
3.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11.1111	22.2222	37.5000	12.5000
2001	1	3	0	0	1	26	26	29	0.0000	11.1111	22.2222	37.5000	12.5000
9.7222	6.9444	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.1505	27.9570	33.3333	13.9785
2001	1	3	0	0	1	27	27	29	0.0000	2.1505	27.9570	33.3333	13.9785
6.4516	9.6774	3.2258	1.0753	2.1505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	28	28	30	0.0000	2.5316	25.9494	29.1139	15.1899
8.8608	8.8608	1.8987	3.1646	1.8987	1.2658	0.6329	0.0000	0.6329	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	29	29	30	0.0000	0.5952	31.5476	23.8095	18.4524
14.2857	5.9524	2.9762	1.7857	0.5952	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	30	30	28	0.0000	0.9950	21.3930	23.3831	18.9055
11.4428	10.9453	2.9851	2.9851	1.9900	0.9950	2.9851	0.4975	0.4975	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	31	31	27	0.0000	1.1976	18.5629	17.9641	16.1677
19.1617	11.9760	2.9940	4.7904	2.9940	1.7964	1.7964	0.0000	0.5988	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	32	32	25	0.0000	0.0000	10.4478	11.1940	11.9403
32.8358	14.1791	5.2239	4.4776	2.9851	2.2388	1.4925	0.7463	2.2388	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	33	33	26	0.0000	0.0000	10.0840	7.5630	15.1261
24.3697	15.9664	5.0420	5.0420	2.5210	5.0420	3.3613	1.6807	4.2017	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	34	34	24	0.0000	0.0000	5.6180	13.4831	14.6067
29.2135	11.2360	6.7416	4.4944	5.6180	3.3708	1.1236	0.0000	4.4944	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	35	35	25	0.0000	0.0000	1.5385	1.5385	9.2308
30.7692	13.8462	12.3077	9.2308	4.6154	6.1538	0.0000	1.5385	9.2308	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	36	36	18	0.0000	0.0000	2.4390	0.0000	7.3171
31.7073	19.5122	4.8780	4.8780	12.1951	0.0000	7.3171	2.4390	7.3171	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	37	37	13	0.0000	0.0000	0.0000	0.0000	12.5000
37.5000	20.8333	4.1667	4.1667	4.1667	0.0000	4.1667	0.0000	12.5000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	38	38	10	0.0000	0.0000	0.0000	0.0000	15.0000
35.0000	10.0000	10.0000	5.0000	10.0000	10.0000	0.0000	0.0000	5.0000	0.0000	0.0000	0.0000	0.0000	5.0000
2001	1	3	0	0	1	39	39	10	0.0000	5.0000	0.0000	0.0000	0.0000
40.0000	10.0000	0.0000	15.0000	5.0000	10.0000	0.0000	0.0000	10.0000	0.0000	0.0000	0.0000	0.0000	12.5000
2001	1	3	0	0	1	40	40	7	0.0000	0.0000	0.0000	0.0000	0.0000
50.0000	12.5000	12.5000	0.0000	12.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.1429
2001	1	3	0	0	1	41	41	8	0.0000	0.0000	0.0000	0.0000	0.0000
14.2857	7.1429	0.0000	21.4286	14.2857	0.0000	21.4286	7.1429	7.1429	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	42	42	5	0.0000	0.0000	0.0000	0.0000	0.0000
14.2857	0.0000	28.5714	14.2857	0.0000	14.2857	14.2857	0.0000	14.2857	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	43	43	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	33.3333	33.3333	0.0000	0.0000	33.3333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	44	44	2	0.0000	0.0000	0.0000	0.0000	0.0000
50.0000	0.0000	50.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	45	45	4	0.0000	0.0000	0.0000	0.0000	0.0000
25.0000	25.0000	0.0000	25.0000	0.0000	0.0000	0.0000	0.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	46	46	3	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	25.0000	25.0000	0.0000	25.0000	0.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	50.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	48	48	1	0.0000	0.0000	0.0000	0.0000	0.0000
50.0000	0.0000	0.0000	50.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	49	49	2	0.0000	0.0000	0.0000	0.0000	0.0000
16.6667	16.6667	0.0000	0.0000	50.0000	16.6667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	50	50	4	0.0000	0.0000	0.0000	0.0000	0.0000
25.0000	50.0000	0.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2001	1	3	0	0	1	51	51	4	0.0000	0.0000	0.0000	0.0000	0.0000
22.2222	0.0000	33.3333	11.1111	0.0000	11.1111	11.1111	11.1111	11.1111	0.0000	0.0000	0.0000	0.0000	0.0000
2003	1	3	0	0	1	6	6	1	100.0000	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
2003	1	3	0	0	1	9	9	1	100.0000	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
2003	1	3	0	0	1	11	11	2	100.0000	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
2003	1	3	0	0	1	12	12	2	100.0000	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
2003	1	3	0	0	1	13	13	4	75.0000	5.0000	5.0000	15.0000	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
2003	1	3	0	0	1	14	14	4	91.6667	4.1667	0.0000	4.1667	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
2003	1	3	0	0	1	15	15	8	58.6207	13.7931	6.8966	20.6897	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

2003	1	3	0	0	1	16	16	8	53.8462	0.0000	3.8462	38.4615	3.8462
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	17	17	8	55.2632	0.0000	7.8947	28.9474	7.8947
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	18	18	9	14.2857	23.8095	28.5714	33.3333	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	19	19	14	17.1429	17.1429	40.0000	25.7143	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	20	20	14	9.3750	18.7500	68.7500	0.0000	0.0000
3.1250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	21	21	29	0.0000	4.5455	80.3030	13.6364	1.5152
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	22	22	43	0.0000	8.5938	86.7188	4.6875	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	23	23	56	0.0000	1.7007	88.0952	7.4830	1.3605
0.3401	0.6803	0.3401	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	24	24	55	0.0000	1.4327	90.5444	5.7307	0.5731
1.4327	0.2865	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	25	25	59	0.0000	0.8746	79.5918	12.8280	1.1662
3.4985	1.4577	0.2915	0.2915	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	26	26	61	0.0000	0.6173	61.7284	12.6543	3.7037
10.1852	4.9383	2.4691	1.8519	1.2346	0.3086	0.3086	0.0000	0.0000					
2003	1	3	0	0	1	27	27	53	0.0000	0.0000	47.1264	16.8582	3.4483
16.4751	7.6628	3.4483	3.8314	0.0000	0.3831	0.3831	0.0000	0.3831					
2003	1	3	0	0	1	28	28	55	0.0000	0.0000	28.9256	12.3967	4.9587
17.3554	14.4628	5.3719	8.2645	2.0661	0.8264	2.8926	0.0000	2.4793					
2003	1	3	0	0	1	29	29	43	0.0000	0.0000	20.9581	10.1796	6.5868
19.7605	15.5689	7.7844	10.7784	2.9940	1.1976	1.7964	1.1976	1.1976					
2003	1	3	0	0	1	30	30	41	0.0000	0.0000	16.4286	10.0000	7.1429
15.7143	14.2857	5.7143	12.1429	5.7143	2.8571	2.1429	5.0000	2.8571					
2003	1	3	0	0	1	31	31	32	0.0000	0.0000	13.7931	13.7931	5.7471
21.8391	12.6437	11.4943	11.4943	2.2989	3.4483	0.0000	1.1494	2.2989					
2003	1	3	0	0	1	32	32	28	0.0000	0.0000	8.7500	7.5000	6.2500
18.7500	16.2500	13.7500	10.0000	5.0000	5.0000	0.0000	5.0000	3.7500					
2003	1	3	0	0	1	33	33	24	0.0000	0.0000	5.3571	5.3571	19.6429
16.0714	12.5000	17.8571	8.9286	5.3571	1.7857	3.5714	3.5714	0.0000					
2003	1	3	0	0	1	34	34	19	0.0000	0.0000	11.9048	11.9048	14.2857
7.1429	11.9048	16.6667	9.5238	4.7619	7.1429	2.3810	2.3810	0.0000					
2003	1	3	0	0	1	35	35	12	0.0000	0.0000	0.0000	11.4286	25.7143
14.2857	20.0000	14.2857	5.7143	0.0000	0.0000	2.8571	0.0000	5.7143					
2003	1	3	0	0	1	36	36	12	0.0000	0.0000	0.0000	4.1667	29.1667
20.8333	8.3333	29.1667	0.0000	0.0000	0.0000	4.1667	0.0000	4.1667					
2003	1	3	0	0	1	37	37	7	0.0000	0.0000	0.0000	11.7647	35.2941
0.0000	5.8824	17.6471	17.6471	5.8824	0.0000	5.8824	0.0000	0.0000					
2003	1	3	0	0	1	38	38	6	0.0000	0.0000	0.0000	13.3333	33.3333
6.6667	6.6667	13.3333	0.0000	6.6667	0.0000	13.3333	0.0000	6.6667					
2003	1	3	0	0	1	39	39	5	0.0000	0.0000	0.0000	12.5000	0.0000
12.5000	37.5000	25.0000	0.0000	12.5000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	40	40	3	0.0000	0.0000	0.0000	25.0000	0.0000
0.0000	25.0000	25.0000	12.5000	0.0000	12.5000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	41	41	6	0.0000	0.0000	0.0000	14.2857	14.2857
0.0000	28.5714	14.2857	14.2857	0.0000	0.0000	0.0000	0.0000	14.2857					
2003	1	3	0	0	1	42	42	2	0.0000	0.0000	0.0000	0.0000	28.5714
14.2857	14.2857	28.5714	0.0000	0.0000	0.0000	0.0000	0.0000	14.2857					
2003	1	3	0	0	1	43	43	5	0.0000	0.0000	0.0000	0.0000	57.1429
0.0000	0.0000	28.5714	0.0000	0.0000	0.0000	0.0000	0.0000	14.2857					
2003	1	3	0	0	1	45	45	2	0.0000	0.0000	0.0000	50.0000	0.0000
50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	46	46	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	47	47	2	0.0000	0.0000	0.0000	0.0000	50.0000
0.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	48	48	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	50	50	2	0.0000	0.0000	0.0000	0.0000	0.0000
50.0000	0.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000					
2003	1	3	0	0	1	51	51	6	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	14.2857	28.5714	0.0000	28.5714	14.2857	0.0000	0.0000	14.2857					
2005	1	3	0	0	1	9	9	1	100.0000	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					

2005	1	3	0	0	1	10	10	1	100.0000	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					
2005	1	3	0	0	1	11	11	4	100.0000	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					
2005	1	3	0	0	1	12	12	6	100.0000	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					
2005	1	3	0	0	1	13	13	7	100.0000	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					
2005	1	3	0	0	1	14	14	10	100.0000	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					
2005	1	3	0	0	1	15	15	8	100.0000	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					
2005	1	3	0	0	1	16	16	10	100.0000	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					
2005	1	3	0	0	1	17	17	9	91.8919	8.1081	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	18	18	10	86.9565	8.6957	4.3478	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	19	19	8	50.0000	28.5714	21.4286	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	20	20	10	33.3333	40.0000	26.6667	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	21	21	6	25.0000	37.5000	12.5000	25.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	22	22	22	0.0000	9.0909	36.3636	12.1212	42.4242
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	23	23	28	0.0000	5.1948	25.9740	15.5844	48.0519
3.8961	1.2987	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	24	24	36	0.0000	1.1173	12.2905	7.2626	73.1844
5.0279	1.1173	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	25	25	41	0.0000	0.0000	12.3016	7.1429	73.8095
5.1587	0.7937	0.3968	0.0000	0.3968	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	26	26	42	0.0000	0.0000	5.1471	5.8824	75.3676
8.0882	1.4706	1.8382	1.1029	1.1029	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	27	27	41	0.0000	0.0000	3.2653	5.3061	69.3878
8.5714	4.8980	4.4898	1.2245	1.6327	0.0000	0.4082	0.0000	0.8163					
2005	1	3	0	0	1	28	28	39	0.0000	0.0000	1.5957	7.4468	65.4255
10.6383	3.7234	6.3830	2.1277	2.1277	0.5319	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	29	29	32	0.0000	0.0000	0.8333	1.6667	66.6667
10.0000	3.3333	6.6667	5.0000	2.5000	2.5000	0.8333	0.0000	0.0000					
2005	1	3	0	0	1	30	30	27	0.0000	0.0000	0.0000	4.4776	55.2239
5.9701	1.4925	14.9254	8.9552	5.9701	0.0000	1.4925	0.0000	1.4925					
2005	1	3	0	0	1	31	31	23	0.0000	0.0000	2.1277	2.1277	44.6809
6.3830	4.2553	10.6383	8.5106	2.1277	8.5106	4.2553	2.1277	2.1277					
2005	1	3	0	0	1	32	32	12	0.0000	0.0000	0.0000	0.0000	33.3333
9.5238	9.5238	9.5238	19.0476	9.5238	4.7619	4.7619	0.0000	0.0000					
2005	1	3	0	0	1	33	33	12	0.0000	0.0000	0.0000	0.0000	20.0000
26.6667	13.3333	13.3333	0.0000	20.0000	6.6667	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	34	34	9	0.0000	0.0000	0.0000	8.3333	25.0000
25.0000	8.3333	16.6667	8.3333	0.0000	8.3333	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	35	35	5	0.0000	0.0000	0.0000	0.0000	25.0000
25.0000	0.0000	0.0000	37.5000	12.5000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	36	36	3	0.0000	0.0000	0.0000	0.0000	100.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	37	37	5	0.0000	0.0000	0.0000	0.0000	20.0000
40.0000	0.0000	20.0000	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	38	38	2	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	50.0000	0.0000	0.0000	50.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	39	39	1	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	40	40	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	45	45	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	46	46	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	49	49	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2005	1	3	0	0	1	50	50	1	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					

2005	1	3	0	0	42.8571	14.2857	1	14.2857	51	51	6	0.0000	0.0000	0.0000	0.0000	14.2857
0.0000	0.0000	0.0000	42.8571	14.2857	14.2857	0.0000	14.2857	0.0000	14.2857	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

0 #_N_MeanSize-at-Age_obs
#Yr Seas Flt/Svy Gender Part Ageerr Ignore datavector(female-male)
samplesize(female-male)

0 #_N_environ_variables
0 #_N_environ_obs

999