

Table 6e. Trip limits for constraining target species landings in the limited entry trawl for 2002, under the 6-month fishery alternative.

Species/groups	Landed catch	JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC	
Minor slope rockfish								
North of Cape Mend.	med		4,000 lb/2 months				4,000 lb/2 months	
South of Cape Mend.			25,000 lb/2 months				25,000 lb/2 months	
Splitnose-South			25,000 lb/2 months				25,000 lb/2 months	
POP	294		6,000 lb/month				2,000 lb/month	
DTS								
Dover sole	6,090		60,000 lb/2 months				60,000 lb/2 months	
Sablefish	1,476		14,000 lb/2 months				14,000 lb/2 months	
Shortspine	759		6,500 lb/2 months				6,500 lb/2 months	
Longspine	high		30,000 lb/2 months				30,000 lb/2 months	
Arrowtooth			20,000 lb/trip				20,000 lb/trip	
Petrале sole			No restriction				No restriction	
Flex sole			No limit				No limit	
All other flatfish			No limit				No limit	
Shoreside whiting <sup>a)</sup>			20,000 lb/trip	Open		Closed ?	20,000 lb/trip	
<b>Use of small footrope required for landing all shelf and near-shore rockfish</b>								
Minor Shelf rockfish								
North of Cape Mend.			500 lb/month				500 lb/month	
South of Cape Mend.			500 lb/month				500 lb/month	
Canary-Coastwide			400 lb/month				100 lb/month	
Widow-Coastwide								
(mid-water only)	high	10,000 lb/2 months	Closed	with >=10,000 lb whiting, 1,500 lb/mo; combined widow+yellowtail of 500 lb/trip	Closed ?		Evaluate remaining widow OY	
Small footrope	high		1,000 lb/month	Closed			1,000 lb/month	
Yellowtail-North								
(mid-water only)	high	20,000 lb/2 months	Closed	with >=10,000 lb whiting, 2,000 lb/mo; combined widow+yellowtail of 500 lb/trip	Closed ?		Evaluate remaining widow OY	
Small footrope as flatfish bycatch			1,000 lb/month	Closed			1,000 lb/month	
			Up to 33% of all flatfish (excluding arrowtooth) plus 10% of weight of Arrowtooth not to exceed:					
			2,500 lbs/trip and 20,000 lb/2 months				2,500 lb/trip and 20,000 lb/2 months	
Bocaccio-South			500 lb/month				500 lb/month	
Chilipepper-South								
(mid-water only)			25,000 lb/2 months				25,000 lb/2 months	
Small footrope			7,500 lb/2 months				7,500 lb/2 months	
Cowcod			No retention				No retention	
Minor Nearshore rockfish								
North of Cape Mend.			300 lb/month				300 lb/month	
South of Cape Mend.			300 lb/month				300 lb/month	
Lingcod			500 lb/month				500 lb/month	

<sup>a)</sup> Whiting limit in the Eureka area for catch inside 100 fathoms is 10,000 lb/trip throughout the year.

Table 7e.--Projected target species landings (mt) under Trip-limit Alternative 5

Region/ Species Group	Bimonthly Period						Total
	Jan/Feb	Mar/Apr	May/June	Jul/Aug	Sep/Oct	Nov/Dec	
North of C. Mendocino							
DTS Complex	2,034	2,810	0	0	0	2,450	7,293
Sablefish	219	335	0	0	0	430	985
Longspines	331	512	0	0	0	448	1,292
Shortspines	134	179	0	0	0	216	529
Dover Sole	1,349	1,783	0	0	0	1,355	4,488
Arrowtooth	207	320	0	0	0	100	627
Petrals Sole	543	123	0	0	0	253	918
Other Flatfish	111	224	0	0	0	109	443
Total Flatfish	2,210	2,449	0	0	0	1,817	6,476
Widow	253	90	36	48	0	85	513
Yellowtail	183	230	53	66	0	193	725
Minor Slope Rockfish	36	35	0	0	0	43	114
POP	29	40	0	0	0	23	91
South of C. Mendocino							
DTS Complex	572	833	0	0	0	830	2,235
Sablefish	49	90	0	0	0	115	254
Longspines	169	177	0	0	0	209	556
Shortspines	59	57	0	0	0	75	191
Dover Sole	295	508	0	0	0	431	1,234
Arrowtooth	2	1	0	0	0	4	7
Petrals Sole	60	25	0	0	0	56	142
Other Flatfish	112	146	0	0	0	123	382
Total Flatfish	470	680	0	0	0	615	1,765
Widow	19	10	0	0	0	13	42
Chilipepper	39	58	0	0	0	54	151
Minor Slope Rockfish	17	19	0	0	0	37	73
POP	1	0	0	0	0	0	1
Coastwide Total							
DTS Complex	2,606	3,643	0	0	0	3,280	9,528
Sablefish	268	425	0	0	0	545	1,239
Longspines	500	690	0	0	0	658	1,847
Shortspines	193	236	0	0	0	291	721
Dover Sole	1,644	2,292	0	0	0	1,786	5,722
Arrowtooth	210	320	0	0	0	104	634
Petrals Sole	603	148	0	0	0	309	1,060
Other Flatfish	223	370	0	0	0	232	825
Total Flatfish	2,680	3,130	0	0	0	2,432	8,241
Widow	272	100	36	48	0	99	555
Yellowtail	188	230	53	66	0	199	735
Chilipepper	39	58	0	0	0	54	151
Minor Slope Rockfish	53	53	0	0	0	81	187
POP	30	40	0	0	0	23	93

Table 8f.--Ranges of estimated bycatch and discard for trip limit Alternative 5.

	Lingcod			Canary			POP			Darkblotched			Bocaccio		
	Bycatch range			Bycatch range			Bycatch range			Bycatch range			Bycatch range		
	High	Mid	Low	High	Mid	Low	High	Mid	Low	High	Mid	Low	High	Mid	Low
<b>Coastwide Full Year</b>															
<b>Target fishery</b>															
Arrowtooth	0.1	0.1	0.0	0.0	0.0	0.0	2.0	1.1	0.3	0.3	0.2	0.1			
Petrale	3.6	2.9	2.2	0.6	0.3	0.1	12.2	8.2	4.2	15.3	11.0	6.6	0.2	0.1	0.1
Flatfish	52.0	30.7	9.3	16.6	9.6	2.7	88.4	63.5	38.8	85.9	52.5	19.1	2.8	1.9	0.9
Widow/Ytail	0.4	0.2	0.0	0.7	0.4	0.1	0.2	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.0
DTS	12.6	6.9	1.5	3.9	1.9	0.7	78.0	49.3	21.8	159.1	86.9	14.6	0.9	0.1	0.2
Chillipepper	3.6	2.4	1.2	2.1	1.4	0.7	0.1	0.0	0.0				3.1	2.1	1.0
Other rock	0.6	0.4	0.2	0.1	0.1	0.0	0.6	0.5	0.3	3.8	3.1	2.4	0.2	0.1	0.1
Leftover	0.8	0.6	0.3	0.5	0.3	0.0	2.9	1.6	0.4	2.0	1.3	0.7	0.0	0.0	0.0
Total	73.9	44.2	14.9	24.5	13.9	4.3	184.4	124.4	65.8	266.6	155.1	43.6	7.2	4.3	2.3
LE total catch OY	208	208	208	36	36	36	350	350	350	163	163	163	27	27	27
<b>All Targets</b>															
<b>North of C. Mendocino</b>															
1	9.4	6.0	2.6	5.2	2.9	0.7	48.9	28.4	8.0	75.4	46.1	16.8			
2	46.0	26.6	7.2	13.4	7.8	2.1	89.3	65.2	41.2	75.9	46.1	16.3			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	9.6	5.9	2.2	2.1	1.2	0.4	44.0	30.0	16.0	115.3	62.9	10.5			
Year	65.0	38.5	12.0	20.7	11.9	3.2	182.2	123.7	65.2	266.6	155.1	43.6			
<b>South of C. Mendocino</b>															
1	1.6	1.0	0.5	1.3	0.7	0.4	0.3	0.0	0.1				1.7	1.0	0.5
2	3.0	1.9	1.0	1.6	1.0	0.5	1.4	0.7	0.4				3.2	2.0	1.0
6	4.3	2.9	1.4	1.0	0.4	0.3	0.5	0.0	0.1				2.3	1.3	0.7
Year	8.9	5.7	2.9	3.8	2.0	1.1	2.2	0.7	0.6				7.2	4.3	2.3
<b>Coastwide total bycatch ranges</b>															
1	11.0	6.9	3.1	6.4	3.6	1.1	49.2	28.4	8.1	75.4	46.1	16.8	1.7	1.0	0.5
2	49.0	28.4	8.1	15.0	8.7	2.6	90.6	65.9	41.6	75.9	46.1	16.3	3.2	2.0	1.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	13.9	8.8	3.7	3.0	1.6	0.7	44.5	30.0	16.1	115.3	62.9	10.5	2.3	1.3	0.7
Year	73.9	44.2	14.9	24.5	13.9	4.3	184.4	124.4	65.8	266.6	155.1	43.6	7.2	4.3	2.3
<b>Coastwide bycatch in excess of trip limits (assumed discard)</b>															
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10.0	2.0	0.0	0.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Year	10.7	2.2	0.0	0.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Implicit discard rates</b>															
1	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2	14%	5%	0%	2%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
6	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Year	14%	5%	0%	2%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%

Note: Previous analysis of lingcod discard has assumed a 50% survival of discards, yielding discard mortality that is half of gross discard.

Table A.--1999-2000 prices per metric ton used to estimate vessel revenues for average landings in those two years and projections for 2002.

Area Period	Ex-vessel species prices (\$/mt) from combined 1999-2000 trawl landings																
	Sable- fish	Long- spine	Short- spine	Dover sole	Arrow- tooth	Petrale sole	Other flatfish	Widow rock.	Yellow- tail rck.	Chilli- pepper	Slope rock.	Other rock.	Whiting	POP	Lingcod	Canary	Bocaccio
North of Cape Mendocino																	
1	2,303	1,739	2,198	738	230	2,130	784	839	878		833	812	131	881	1,362	915	
2	2,170	1,678	2,143	732	222	2,036	678	860	877		830	769	92	879	1,242	930	
3	2,342	1,741	2,180	778	223	2,146	794	906	913		921	791	89	892	1,472	922	
4	2,440	1,739	2,203	787	239	2,150	835	900	865		892	770	87	823	1,466	913	
5	2,588	1,842	2,191	780	233	2,155	797	944	958		930	812	90	899	1,571	957	
6	2,662	2,017	2,358	777	243	2,209	849	940	1,001		945	726	230	902	2,055	1,065	
Total	2,417	1,793	2,212	765	232	2,138	789	898	915		892	780	120	879	1,528	951	
South of Cape Mendocino																	
1	1,827	1,723	2,013	682	239	2,164	766	1,061		985	905	774	90	600	1,604	1,468	909
2	1,918	1,890	2,122	708	236	2,081	736	921		996	855	752	432	578	1,486	1,590	1,005
3	1,969	1,747	2,114	722	521	2,497	732	1,123		1,061	1,205	864	90	600	1,650	1,515	1,082
4	2,038	1,733	2,196	746	574	2,510	841	1,073		996	1,150	806	254	600	1,629	1,005	1,046
5	2,011	1,735	2,076	745	232	2,451	751	1,007		1,040	1,158	698	221	600	1,666	1,279	1,075
6	2,019	1,870	2,230	735	806	2,561	796	997		1,214	1,233	736	82	600	2,164	1,467	1,235
Total	1,964	1,783	2,125	723	435	2,377	770	1,030		1,049	1,084	772	195	596	1,700	1,387	1,059

Table B.--Evaluation of changes in ex-vessel groundfish revenue from 1999-2000 to projections for 2002 using the trip limits in Alternative 1.

Group	Change in groundfish rev. less than 20%						Change in groundfish rev. greater than 20%						All trawl vessels					
	Average '99-00 revenue		Revenue under Alternative 1		# of vessels	%	Average '99-00 revenue		Revenue under Alternative 1		# of vessels	%	Average '99-00 revenue		Revenue under Alternative 1		# of vessels	%
	Avg. in 2002	chq. from '99-00	Avg. in 2002	chq. from '99-00			Avg. in 2002	chq. from '99-00	Avg. in 2002	chq. from '99-00			Avg. in 2002	chq. from '99-00				
Non-whiting vessels																		
\$21 - \$100,000																		
Lower 2002 revenue	22	57,093	51,235	-5,858	22	-11%	47,046	29,232	-17,814	33	-43%	51,065	38,033	-13,032	55	-30%		
Higher 2002 revenue	11	49,953	54,519	4,566	11	9%	38,315	54,240	15,925	12	59%	43,881	54,374	10,492	23	35%		
> \$100,000																		
Lower 2002 revenue	20	155,142	132,317	-22,824	20	-15%	200,639	125,415	-75,224	102	-36%	193,181	126,547	-66,634	122	-33%		
Higher 2002 revenue	1	109,037	121,458	12,421	1	11%				1		109,037	121,458	12,421	1	11%		
All non-whiting vessels																		
Lower 2002 revenue	42	103,783	89,846	-13,937	42	-13%	163,094	101,904	-61,190	135	-38%	149,020	99,043	-49,978	177	-32%		
Higher 2002 revenue	12	54,877	60,098	5,220	12	9%	38,315	54,240	15,925	12	59%	46,596	57,169	10,573	24	34%		
Total	54	92,915	83,235	-9,680	54	-8%	152,908	98,013	-54,895	147	-30%	136,791	94,043	-42,748	201	-24%		
Whiting vessels																		
\$21 - \$100,000																		
Lower 2002 revenue							78,099	39,237	-38,862	3	-60%	78,099	39,237	-38,862	3	-60%		
> \$100,000																		
Lower 2002 revenue	4	318,383	257,852	-60,531	4	-19%	325,493	206,712	-118,781	33	-37%	324,724	212,240	-112,484	37	-35%		
All whiting vessels																		
Lower 2002 revenue	4	318,383	257,852	-60,531	4	-19%	304,877	192,756	-112,121	36	-39%	306,227	199,265	-106,962	40	-37%		
Total	4	318,383	257,852	-60,531	4	-19%	304,877	192,756	-112,121	36	-39%	306,227	199,265	-106,962	40	-37%		
All trawl vessels																		
\$21 - \$100,000																		
Lower 2002 revenue	22	57,093	51,235	-5,858	22	-11%	49,634	30,066	-19,568	36	-44%	52,463	38,096	-14,368	58	-32%		
Higher 2002 revenue	11	49,953	54,519	4,566	11	9%	38,315	54,240	15,925	12	59%	43,881	54,374	10,492	23	35%		
Total	33	54,713	52,330	-2,384	33	-4%	46,804	36,110	-10,695	48	-19%	50,026	42,718	-7,309	81	-13%		
> \$100,000																		
Lower 2002 revenue	24	182,349	153,240	-29,109	24	-16%	231,159	145,288	-85,871	135	-36%	223,791	146,488	-77,303	159	-33%		
Higher 2002 revenue	1	109,037	121,458	12,421	1	11%				1		109,037	121,458	12,421	1	11%		
Total	25	179,416	151,968	-27,448	25	-15%	231,159	145,288	-85,871	135	-36%	223,074	146,332	-76,743	160	-33%		
Total	58	108,465	95,278	-13,187	58	-9%	182,804	116,651	-66,153	183	-32%	164,913	111,507	-53,406	241	-26%		

