

Table 1. Summary of observed and unobserved groundfish landings (in metric tons, mt) by observer-program year in which the data were collected and port group, for Limit Entry trawlers (excluding trips using Danish/Scottish seine and mid-water trawl).

Port Group in which landings were made	Unobserved trips		Observed trips		All trips
	Landed mts	Percent of all mts unobserved	Landed mts	Percent of all mts observed	Landed mts
Data collected from September 1, 2001 to August 31, 2002					
Puget Sound	4,497	89%	528	11%	5,025
Neah Bay	1,087	87%	160	13%	1,247
Astoria	3,176	83%	641	17%	3,817
Newport	1,400	87%	201	13%	1,601
Coos Bay	1,660	85%	285	15%	1,946
Crescent City	1,535	88%	215	12%	1,751
Eureka	1,484	88%	193	12%	1,677
Fort Bragg	1,682	87%	262	13%	1,944
San Francisco	519	77%	157	23%	675
Monterey	1,152	91%	119	9%	1,271
Morro Bay	525	84%	103	16%	629
Santa Barbara	79	100%			79
Los Angeles	5	100%			5
All port groups	18,802	87%	2,864	13%	21,666
Data collected from September 1, 2002 to August 31, 2003					
Puget Sound	3,855	88%	504	12%	4,360
Neah Bay	1,444	92%	128	8%	1,572
Astoria	3,476	79%	908	21%	4,384
Newport	1,622	78%	450	22%	2,072
Coos Bay	1,956	76%	625	24%	2,581
Crescent City	1,458	83%	292	17%	1,750
Eureka	1,545	86%	253	14%	1,798
Fort Bragg	1,479	87%	219	13%	1,697
San Francisco	538	87%	81	13%	619
Monterey	1,231	89%	154	11%	1,386
Morro Bay	729	87%	106	13%	835
Santa Barbara	56	100%			56
Los Angeles	0	100%			0
All port groups	19,387	84%	3,722	16%	23,109

Table 2. Number of trips sampled by observers during September 1, 2001 to August 31, 2002 by port group, observer-program year in which the data were collected, and 2-month period, for non-EFP Limited Entry trawlers (excluding trips using Danish/Scottish seine and mid-water trawl).

Port Group in which landings were made	2001				2002								Entire first year of data collection	
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April		May-June		July-August		Observed trips in each port group	
	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.
Data collected from September 1, 2001 to August 31, 2002														
Puget Sound	1	1%	2	4%	5	6%	5	4%	6	6%	8	6%	27	4%
Neah Bay	6	6%	12	22%	6	7%	15	11%	12	11%	49	36%	100	16%
Astoria	9	9%	11	20%	13	15%	18	13%	30	28%	14	10%	95	15%
Newport	7	7%	5	9%	7	8%	11	8%	7	6%	1	1%	38	6%
Coos Bay	8	8%	3	5%	8	9%	18	13%	12	11%	12	9%	61	10%
Crecent City	6	6%	8	15%	8	9%	23	17%	11	10%	12	9%	68	11%
Eureka	23	23%	2	4%	14	16%	12	9%	10	9%	10	7%	71	11%
Fort Bragg					4	5%	10	7%	6	6%	19	14%	39	6%
San Francisco	30	30%			7	8%	4	3%	1	1%	2	1%	44	7%
Monterey	2	2%	10	18%	14	16%	14	10%	8	7%	10	7%	58	9%
Morro Bay	7	7%	2	4%	2	2%	7	5%	5	5%			23	4%
All port groups	99	100%	55	100%	88	100%	137	100%	108	100%	137	100%	624	100%
Data collected from September 1, 2002 to August 31, 2003														
Port Group in which landings were made	2002				2003								Entire second year of data collection	
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April		May-June		July-August		Observed trips in each port group	
	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.
Puget Sound	1	1%	2	4%	1	1%	7	5%	11	8%	8	6%	30	5%
Neah Bay	35	30%	6	13%	10	13%	10	8%	4	3%	2	1%	67	10%
Astoria	15	13%	12	26%	6	8%	22	17%	27	19%	24	17%	106	16%
Newport	6	5%	4	9%	8	11%	17	13%	15	11%	11	8%	61	9%
Coos Bay	7	6%	6	13%	9	12%	18	14%	23	16%	23	16%	86	13%
Crecent City	13	11%	1	2%	7	9%	14	11%	21	15%	4	3%	60	9%
Eureka	7	6%	5	11%	1	1%	17	13%	11	8%	17	12%	58	9%
Fort Bragg	6	5%	1	2%	6	8%	9	7%	7	5%	11	8%	40	6%
San Francisco			2	4%	1	1%	9	7%	7	5%			19	3%
Monterey	19	17%	5	11%	24	32%	6	5%	13	9%	38	27%	105	16%
Morro Bay	6	5%	3	6%	3	4%			1	1%	2	1%	15	2%
All port groups	115	100%	47	100%	76	100%	129	100%	140	100%	140	100%	647	100%

Table 3. Number of observed hauls by area, depth (in fathoms, fm), observer-program year in which the data were collected, and 2-month period for non-EFP limit entry trawlers (excluding trips using Danish/Scottish seine and mid-water trawl).

Area / Depth group	2001				2002								Entire first year of data collection	
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April		May-June		July-August		Observed hauls in each depth group	
	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.	number	% of tot.
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	101	29%	91	52%	8	2%	147	24%	533	74%	495	73%	1,375	47%
75 - 150 fm	130	38%	60	34%	33	9%	145	23%	108	15%	136	20%	612	21%
>150 fm	112	33%	24	14%	327	89%	326	53%	79	11%	43	6%	911	31%
All depths	343	100%	175	100%	368	100%	618	100%	720	100%	674	100%	2,898	100%
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	106	58%	24	50%	66	42%	42	28%	4	5%	2	1%	244	31%
75 - 150 fm	60	33%	14	29%	19	12%	10	7%	19	22%	1	1%	123	15%
>150 fm	16	9%	10	21%	72	46%	96	65%	62	73%	172	98%	428	54%
All depths	182	100%	48	100%	157	100%	148	100%	85	100%	175	100%	795	100%
Coastwide														
< 75 fm	207	39%	115	52%	74	14%	189	25%	537	67%	497	59%	1,619	44%
75 - 150 fm	190	36%	74	33%	52	10%	155	20%	127	16%	137	16%	735	20%
>150 fm	128	24%	34	15%	399	76%	422	55%	141	18%	215	25%	1,339	36%
All depths	525	100%	223	100%	525	100%	766	100%	805	100%	849	100%	3,693	100%
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	201	50%	65	30%	4	2%	194	30%	419	47%	425	55%	1,308	42%
75 - 150 fm	44	11%	32	15%	27	13%	153	23%	128	14%	124	16%	508	16%
>150 fm	156	39%	117	55%	179	85%	309	47%	349	39%	221	29%	1,331	42%
All depths	401	100%	214	100%	210	100%	656	100%	896	100%	770	100%	3,147	100%
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	15	14%			65	49%	51	50%	71	49%	84	56%	286	40%
75 - 150 fm			3	4%									3	0%
>150 fm	92	86%	70	96%	68	51%	51	50%	75	51%	65	44%	421	59%
All depths	107	100%	73	100%	133	100%	102	100%	146	100%	149	100%	710	100%
Coastwide														
< 75 fm	216	43%	65	23%	69	20%	245	32%	490	47%	509	55%	1,594	41%
75 - 150 fm	44	9%	35	12%	27	8%	153	20%	128	12%	124	13%	511	13%
>150 fm	248	49%	187	65%	247	72%	360	47%	424	41%	286	31%	1,752	45%
All depths	508	100%	287	100%	343	100%	758	100%	1042	100%	919	100%	3,857	100%

Table 4. Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group	Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide		
		Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)
A. Bocaccio Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	102	82%	14%	522	41%	5%	625	44%	5%
	Retained	22	18%	27%	758	59%	24%	780	56%	24%
	Total catch	124	100%	15%	1,280	100%	9%	1,404	100%	9%
75 - 150 fm	Discarded	476	90%	64%	9,394	82%	84%	9,870	82%	83%
	Retained	55	10%	69%	2,103	18%	68%	2,158	18%	68%
	Total catch	531	100%	65%	11,498	100%	80%	12,029	100%	80%
>150 fm	Discarded	164	99%	22%	1,272	84%	11%	1,436	85%	12%
	Retained	2	1%	3%	246	16%	8%	248	15%	8%
	Total catch	167	100%	20%	1,518	100%	11%	1,685	100%	11%
All depths	Discarded	743	90%	100%	11,188	78%	100%	11,931	79%	100%
	Retained	80	10%	100%	3,107	22%	100%	3,187	21%	100%
	Total catch	822	100%	100%	14,295	100%	100%	15,118	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded				245	100%	11%	245	100%	9%
	Retained									
	Total catch				245	100%	11%	245	100%	9%
75 - 150 fm	Discarded	42	100%	9%	15	100%	1%	57	100%	2%
	Retained									
	Total catch	42	100%	9%	15	100%	1%	57	100%	2%
>150 fm	Discarded	440	100%	91%	1,917	100%	88%	2,357	100%	89%
	Retained									
	Total catch	440	100%	91%	1,917	100%	88%	2,357	100%	89%
All depths	Discarded	483	100%	100%	2,176	100%	100%	2,659	100%	100%
	Retained									
	Total catch	483	100%	100%	2,176	100%	100%	2,659	100%	100%
B. Canary Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	2,509	39%	39%	2	1%	2%	2,512	38%	38%
	Retained	3,898	61%	54%	186	99%	32%	4,084	62%	52%
	Total catch	6,407	100%	47%	189	100%	26%	6,596	100%	46%
75 - 150 fm	Discarded	3,871	55%	60%	62	14%	44%	3,933	53%	60%
	Retained	3,111	45%	43%	384	86%	67%	3,494	47%	45%
	Total catch	6,981	100%	51%	446	100%	62%	7,427	100%	52%
>150 fm	Discarded	22	8%	0%	77	95%	55%	100	27%	2%
	Retained	262	92%	4%	4	5%	1%	266	73%	3%
	Total catch	284	100%	2%	81	100%	11%	366	100%	3%
All depths	Discarded	6,402	47%	100%	142	20%	100%	6,544	45%	100%
	Retained	7,270	53%	100%	574	80%	100%	7,844	55%	100%
	Total catch	13,673	100%	100%	716	100%	100%	14,388	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	1,127	41%	19%				1,127	41%	19%
	Retained	1,614	59%	46%	2	100%	100%	1,616	59%	46%
	Total catch	2,741	100%	29%	2	100%	75%	2,743	100%	29%
75 - 150 fm	Discarded	4,685	72%	79%	1	100%	100%	4,685	72%	79%
	Retained	1,804	28%	52%				1,804	28%	52%
	Total catch	6,488	100%	69%	1	100%	25%	6,489	100%	69%
>150 fm	Discarded	105	56%	2%				105	56%	2%
	Retained	81	44%	2%				81	44%	2%
	Total catch	186	100%	2%				186	100%	2%
All depths	Discarded	5,916	63%	100%	1	25%	100%	5,917	63%	100%
	Retained	3,499	37%	100%	2	75%	100%	3,501	37%	100%
	Total catch	9,416	100%	100%	2	100%	100%	9,418	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
C. Cowcod Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded			17	100%	2%	17	100%	2%	
	Retained									
	Total catch			17	100%	2%	17	100%	2%	
75 - 150 fm	Discarded			680	100%	84%	680	99%	84%	
	Retained	4	100%	100%			4	1%	100%	
	Total catch	4	100%	100%	680	100%	684	100%	84%	
>150 fm	Discarded			117	100%	14%	117	100%	14%	
	Retained									
	Total catch			117	100%	14%	117	100%	14%	
All depths	Discarded			815	100%	100%	815	100%	100%	
	Retained	4	100%	100%			4	0%	100%	
	Total catch	4	100%	100%	815	100%	819	100%	100%	
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded			24	100%	22%	24	100%	22%	
	Retained									
	Total catch			24	100%	22%	24	100%	22%	
75 - 150 fm	Discarded			85	100%	78%	85	100%	78%	
	Retained									
	Total catch			85	100%	78%	85	100%	78%	
>150 fm	Discarded									
	Retained									
	Total catch									
All depths	Discarded			109	100%	100%	109	100%	100%	
	Retained									
	Total catch			109	100%	100%	109	100%	100%	
D. Widow Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	92	10%	19%			92	10%	14%	
	Retained	809	90%	5%	2	100%	1%	811	90%	5%
	Total catch	902	100%	5%	2	100%	0%	903	100%	5%
75 - 150 fm	Discarded	214	1%	44%	39	17%	24%	253	2%	39%
	Retained	16,034	99%	95%	194	83%	91%	16,227	98%	95%
	Total catch	16,248	100%	94%	232	100%	62%	16,481	100%	93%
>150 fm	Discarded	180	79%	37%	124	87%	76%	304	82%	47%
	Retained	48	21%	0%	18	13%	9%	66	18%	0%
	Total catch	228	100%	1%	143	100%	38%	371	100%	2%
All depths	Discarded	487	3%	100%	163	43%	100%	650	4%	100%
	Retained	16,891	97%	100%	214	57%	100%	17,104	96%	100%
	Total catch	17,377	100%	100%	377	100%	100%	17,754	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	76	83%	10%				76	83%	10%
	Retained	16	17%	4%				16	17%	4%
	Total catch	91	100%	8%				91	100%	8%
75 - 150 fm	Discarded	172	83%	24%				172	83%	24%
	Retained	36	17%	10%				36	17%	10%
	Total catch	207	100%	19%				207	100%	19%
>150 fm	Discarded	478	60%	66%				478	60%	66%
	Retained	317	40%	86%				317	40%	86%
	Total catch	795	100%	73%				795	100%	73%
All depths	Discarded	725	66%	100%				725	66%	100%
	Retained	368	34%	100%				368	34%	100%
	Total catch	1,093	100%	100%				1,093	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
E. Yelloweye Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	9	26%				9	26%	6%	
	Retained	25	74%				25	74%	46%	
	Total catch	33	100%	18%			33	100%	16%	
75 - 150 fm	Discarded	116	80%	88%			116	80%	74%	
	Retained	29	20%	54%			29	20%	54%	
	Total catch	145	100%	78%			145	100%	69%	
>150 fm	Discarded	8	100%	6%	24	100%	100%	32	100%	20%
	Retained									
	Total catch	8	100%	4%	24	100%	100%	32	100%	15%
All depths	Discarded	132	71%	100%	24	100%	100%	157	74%	100%
	Retained	54	29%	100%				54	26%	100%
	Total catch	186	100%	100%	24	100%	100%	211	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	67	74%	90%	31	100%	100%	97	80%	93%
	Retained	24	26%	66%				24	20%	66%
	Total catch	90	100%	82%	31	100%	100%	121	100%	86%
75 - 150 fm	Discarded	3	22%	5%				3	22%	3%
	Retained	12	78%	34%				12	78%	34%
	Total catch	16	100%	14%				16	100%	11%
>150 fm	Discarded	4	100%	5%				4	100%	4%
	Retained									
	Total catch	4	100%	3%				4	100%	3%
All depths	Discarded	74	67%	100%	31	100%	100%	104	74%	100%
	Retained	36	33%	100%				36	26%	100%
	Total catch	110	100%	100%	31	100%	100%	140	100%	100%
F. Darkblotched Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	645	40%	3%				645	40%	3%
	Retained	981	60%	5%				981	60%	5%
	Total catch	1,627	100%	4%				1,627	100%	4%
75 - 150 fm	Discarded	9,850	62%	51%	192	95%	46%	10,043	63%	51%
	Retained	5,933	38%	32%	10	5%	1%	5,943	37%	29%
	Total catch	15,784	100%	42%	203	100%	10%	15,986	100%	40%
>150 fm	Discarded	8,758	43%	45%	222	13%	54%	8,980	40%	46%
	Retained	11,815	57%	63%	1,518	87%	99%	13,333	60%	66%
	Total catch	20,573	100%	54%	1,739	100%	90%	22,312	100%	56%
All depths	Discarded	19,254	51%	100%	414	21%	100%	19,668	49%	100%
	Retained	18,729	49%	100%	1,528	79%	100%	20,257	51%	100%
	Total catch	37,983	100%	100%	1,942	100%	100%	39,925	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	613	93%	3%	2	100%	0%	615	93%	3%
	Retained	44	7%	0%				44	7%	0%
	Total catch	657	100%	2%	2	100%	0%	659	100%	2%
75 - 150 fm	Discarded	2,878	86%	15%				2,878	86%	15%
	Retained	467	14%	4%				467	14%	4%
	Total catch	3,345	100%	11%				3,345	100%	10%
>150 fm	Discarded	15,636	57%	82%	590	41%	100%	16,225	56%	82%
	Retained	11,814	43%	96%	861	59%	100%	12,675	44%	96%
	Total catch	27,450	100%	87%	1,451	100%	100%	28,901	100%	88%
All depths	Discarded	19,127	61%	100%	591	41%	100%	19,718	60%	100%
	Retained	12,325	39%	100%	861	59%	100%	13,185	40%	100%
	Total catch	31,452	100%	100%	1,452	100%	100%	32,904	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
G. Pacific Ocean Perch										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	75	11%				75	11%	1%	
	Retained	632	89%				632	89%	1%	
	Total catch	707	100%				707	100%	1%	
75 - 150 fm	Discarded	3,704	13%	58%			3,704	13%	58%	
	Retained	24,420	87%	53%			24,420	87%	53%	
	Total catch	28,124	100%	54%			28,124	100%	54%	
>150 fm	Discarded	2,643	11%	41%	1	100%	2,644	11%	41%	
	Retained	20,827	89%	45%			20,827	89%	45%	
	Total catch	23,470	100%	45%	1	100%	23,471	100%	45%	
All depths	Discarded	6,422	12%	100%	1	100%	6,423	12%	100%	
	Retained	45,879	88%	100%			45,879	88%	100%	
	Total catch	52,300	100%	100%	1	100%	52,302	100%	100%	
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	5	100%	0%			5	100%	0%	
	Retained									
	Total catch	5	100%	0%			5	100%	0%	
75 - 150 fm	Discarded	48	8%	1%			48	8%	1%	
	Retained	524	92%	2%			524	92%	2%	
	Total catch	572	100%	2%			572	100%	2%	
>150 fm	Discarded	5,347	16%	99%			5,347	16%	99%	
	Retained	28,983	84%	98%			28,983	84%	98%	
	Total catch	34,330	100%	98%			34,330	100%	98%	
All depths	Discarded	5,394	15%	100%			5,394	15%	100%	
	Retained	29,512	85%	100%			29,512	85%	100%	
	Total catch	34,907	100%	100%			34,907	100%	100%	
H. Lingcod										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	29,292	73%	51%	1,426	54%	9%	30,718	72%	42%
	Retained	11,038	27%	51%	1,196	46%	30%	12,234	28%	48%
	Total catch	40,330	100%	51%	2,622	100%	13%	42,952	100%	43%
75 - 150 fm	Discarded	25,502	73%	45%	7,874	75%	47%	33,375	73%	45%
	Retained	9,476	27%	44%	2,600	25%	65%	12,076	27%	47%
	Total catch	34,978	100%	45%	10,474	100%	51%	45,451	100%	46%
>150 fm	Discarded	2,145	67%	4%	7,298	97%	44%	9,444	88%	13%
	Retained	1,067	33%	5%	209	3%	5%	1,276	12%	5%
	Total catch	3,212	100%	4%	7,507	100%	36%	10,720	100%	11%
All depths	Discarded	56,939	73%	100%	16,598	81%	100%	73,537	74%	100%
	Retained	21,581	27%	100%	4,004	19%	100%	25,586	26%	100%
	Total catch	78,520	100%	100%	20,602	100%	100%	99,122	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	26,074	74%	47%	3,715	67%	49%	29,789	73%	48%
	Retained	9,188	26%	54%	1,827	33%	89%	11,015	27%	58%
	Total catch	35,262	100%	49%	5,542	100%	58%	40,804	100%	50%
75 - 150 fm	Discarded	27,261	80%	50%	257	100%	3%	27,517	80%	44%
	Retained	6,723	20%	40%				6,723	20%	35%
	Total catch	33,983	100%	47%	257	100%	3%	34,240	100%	42%
>150 fm	Discarded	1,727	64%	3%	3,601	94%	48%	5,328	82%	9%
	Retained	992	36%	6%	218	6%	11%	1,209	18%	6%
	Total catch	2,719	100%	4%	3,819	100%	40%	6,538	100%	8%
All depths	Discarded	55,062	77%	100%	7,572	79%	100%	62,634	77%	100%
	Retained	16,902	23%	100%	2,045	21%	100%	18,947	23%	100%
	Total catch	71,964	100%	100%	9,617	100%	100%	81,582	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
I. Dover sole										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	48,481	22%	20%	425	99%	0%	48,906	22%	14%
	Retained	175,169	78%	15%	5	1%	0%	175,174	78%	10%
	Total catch	223,650	100%	16%	430	100%	0%	224,080	100%	11%
75 - 150 fm	Discarded	74,490	26%	31%	2,202	34%	2%	76,692	26%	22%
	Retained	214,560	74%	18%	4,280	66%	1%	218,840	74%	13%
	Total catch	289,050	100%	20%	6,482	100%	1%	295,532	100%	14%
>150 fm	Discarded	114,797	12%	48%	106,531	17%	98%	221,329	14%	64%
	Retained	805,994	88%	67%	525,625	83%	99%	1,330,000	86%	77%
	Total catch	920,791	100%	64%	632,156	100%	99%	1,550,000	100%	75%
All depths	Discarded	237,768	17%	100%	109,159	17%	100%	346,927	17%	100%
	Retained	1,200,000	83%	100%	529,910	83%	100%	1,730,000	83%	100%
	Total catch	1,430,000	100%	100%	639,068	100%	100%	2,070,000	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	27,440	18%	15%	413	87%	1%	27,853	18%	11%
	Retained	128,790	82%	8%	60	13%	0%	128,850	82%	6%
	Total catch	156,230	100%	8%	473	100%	0%	156,703	100%	6%
75 - 150 fm	Discarded	23,824	23%	13%				23,824	23%	9%
	Retained	80,478	77%	5%				80,478	77%	4%
	Total catch	104,302	100%	6%				104,302	100%	4%
>150 fm	Discarded	133,356	8%	72%	67,139	11%	99%	200,495	9%	80%
	Retained	1,460,000	92%	87%	552,188	89%	100%	2,010,000	91%	91%
	Total catch	1,590,000	100%	86%	619,327	100%	100%	2,210,000	100%	89%
All depths	Discarded	184,620	10%	100%	67,553	11%	100%	252,173	10%	100%
	Retained	1,670,000	90%	100%	552,247	89%	100%	2,220,000	90%	100%
	Total catch	1,850,000	100%	100%	619,800	100%	100%	2,470,000	100%	100%
J. Longspine thornyhead										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	1,159	100%	0%				1,159	100%	0%
	Retained									
	Total catch	1,159	100%	0%				1,159	100%	0%
75 - 150 fm	Discarded	94	5%	0%	1	1%	0%	95	4%	0%
	Retained	1,981	95%	1%	88	99%	0%	2,069	96%	0%
	Total catch	2,075	100%	1%	89	100%	0%	2,164	100%	0%
>150 fm	Discarded	42,114	12%	100%	22,575	11%	100%	64,689	11%	100%
	Retained	308,201	88%	99%	191,655	89%	100%	499,856	89%	99%
	Total catch	350,315	100%	99%	214,230	100%	100%	564,545	100%	99%
All depths	Discarded	42,208	12%	100%	22,576	11%	100%	64,785	11%	100%
	Retained	311,341	88%	100%	191,743	89%	100%	503,084	89%	100%
	Total catch	353,550	100%	100%	214,319	100%	100%	567,868	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	55	100%	0%	50	100%	0%	104	100%	0%
	Retained									
	Total catch	55	100%	0%	50	100%	0%	104	100%	0%
75 - 150 fm	Discarded	5	8%	0%				5	8%	0%
	Retained	59	92%	0%				59	92%	0%
	Total catch	65	100%	0%				65	100%	0%
>150 fm	Discarded	52,816	10%	100%	17,810	8%	100%	70,626	9%	100%
	Retained	484,435	90%	100%	217,946	92%	100%	702,381	91%	100%
	Total catch	537,251	100%	100%	235,756	100%	100%	773,007	100%	100%
All depths	Discarded	52,821	10%	100%	17,810	8%	100%	70,632	9%	100%
	Retained	484,549	90%	100%	217,995	92%	100%	702,544	91%	100%
	Total catch	537,370	100%	100%	235,806	100%	100%	773,176	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
K. Shortspine thornyhead										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	79	9%	0%			79	9%	0%	
	Retained	782	91%	1%			782	91%	1%	
	Total catch	860	100%	1%			860	100%	0%	
75 - 150 fm	Discarded	10,433	54%	28%	186	22%	1%	10,619	53%	19%
	Retained	8,762	46%	9%	665	78%	1%	9,427	47%	6%
	Total catch	19,196	100%	14%	851	100%	1%	20,046	100%	10%
>150 fm	Discarded	26,937	24%	72%	18,387	24%	99%	45,324	24%	81%
	Retained	85,512	76%	90%	57,458	76%	99%	142,971	76%	93%
	Total catch	112,449	100%	85%	75,845	100%	99%	188,294	100%	90%
All depths	Discarded	37,449	28%	100%	18,573	24%	100%	56,022	27%	100%
	Retained	95,057	72%	100%	58,123	76%	100%	153,179	73%	100%
	Total catch	132,505	100%	100%	76,696	100%	100%	209,201	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	2	0%	0%				2	0%	0%
	Retained	521	100%	0%	38	100%	0%	559	100%	0%
	Total catch	523	100%	0%	38	100%	0%	562	100%	0%
75 - 150 fm	Discarded	4	1%	0%				4	1%	0%
	Retained	499	99%	0%				499	99%	0%
	Total catch	503	100%	0%				503	100%	0%
>150 fm	Discarded	39,576	21%	100%	13,020	14%	100%	52,596	18%	100%
	Retained	151,518	79%	99%	80,610	86%	100%	232,128	82%	100%
	Total catch	191,094	100%	99%	93,630	100%	100%	284,724	100%	100%
All depths	Discarded	39,582	21%	100%	13,020	14%	100%	52,603	18%	100%
	Retained	152,538	79%	100%	80,648	86%	100%	233,186	82%	100%
	Total catch	192,120	100%	100%	93,669	100%	100%	285,789	100%	100%
L. Unidentified (mixed) thornyheads										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded									
	Retained									
	Total catch									
75 - 150 fm	Discarded	295	11%	0%	68	100%	0%	363	13%	0%
	Retained	2,494	89%	5%				2,494	87%	4%
	Total catch	2,789	100%	3%	68	100%	0%	2,857	100%	2%
>150 fm	Discarded	63,971	59%	100%	34,796	77%	100%	98,768	65%	100%
	Retained	44,092	41%	95%	10,221	23%	100%	54,313	35%	96%
	Total catch	108,063	100%	97%	45,017	100%	100%	153,081	100%	98%
All depths	Discarded	64,267	58%	100%	34,864	77%	100%	99,131	64%	100%
	Retained	46,586	42%	100%	10,221	23%	100%	56,807	36%	100%
	Total catch	110,853	100%	100%	45,085	100%	100%	155,938	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded									
	Retained									
	Total catch									
75 - 150 fm	Discarded	36	100%	0%				36	100%	0%
	Retained									
	Total catch	36	100%	0%				36	100%	0%
>150 fm	Discarded	150,480	86%	100%	21,867	54%	100%	172,347	80%	100%
	Retained	25,506	14%	100%	18,266	46%	100%	43,772	20%	100%
	Total catch	175,986	100%	100%	40,133	100%	100%	216,119	100%	100%
All depths	Discarded	150,516	86%	100%	21,867	54%	100%	172,383	80%	100%
	Retained	25,506	14%	100%	18,266	46%	100%	43,772	20%	100%
	Total catch	176,022	100%	100%	40,133	100%	100%	216,154	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group	Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide		
		Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)
M. Sablefish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	245,389	92%	47%	2,925	58%	3%	248,314	92%	39%
	Retained	20,931	8%	6%	2,079	42%	2%	23,010	8%	5%
	Total catch	266,320	100%	30%	5,004	100%	2%	271,324	100%	25%
75 - 150 fm	Discarded	141,001	65%	27%	21,486	78%	20%	162,486	67%	26%
	Retained	75,363	35%	21%	5,993	22%	6%	81,356	33%	17%
	Total catch	216,364	100%	24%	27,479	100%	13%	243,843	100%	22%
>150 fm	Discarded	139,353	34%	27%	83,774	46%	77%	223,127	38%	35%
	Retained	268,713	66%	74%	98,007	54%	92%	366,720	62%	78%
	Total catch	408,066	100%	46%	181,780	100%	85%	589,847	100%	53%
All depths	Discarded	525,742	59%	100%	108,185	50%	100%	633,927	57%	100%
	Retained	365,007	41%	100%	106,078	50%	100%	471,086	43%	100%
	Total catch	890,750	100%	100%	214,264	100%	100%	1,110,000	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	23,413	62%	10%	3,364	91%	7%	26,777	65%	9%
	Retained	14,379	38%	3%	329	9%	0%	14,707	35%	2%
	Total catch	37,791	100%	5%	3,693	100%	2%	41,484	100%	5%
75 - 150 fm	Discarded	10,339	42%	4%	226	98%	0%	10,565	42%	4%
	Retained	14,472	58%	3%	5	2%	0%	14,478	58%	2%
	Total catch	24,811	100%	3%	231	100%	0%	25,042	100%	3%
>150 fm	Discarded	210,088	32%	86%	42,715	24%	92%	252,803	30%	87%
	Retained	444,381	68%	94%	137,397	76%	100%	581,778	70%	95%
	Total catch	654,469	100%	91%	180,111	100%	98%	834,580	100%	93%
All depths	Discarded	243,839	34%	100%	46,305	25%	100%	290,144	32%	100%
	Retained	473,232	66%	100%	137,731	75%	100%	610,963	68%	100%
	Total catch	717,072	100%	100%	184,035	100%	100%	901,107	100%	100%
N. Pacific hake										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	402,807	98%	63%	1,686	100%	2%	404,493	98%	57%
	Retained	7,035	2%	77%				7,035	2%	76%
	Total catch	409,842	100%	63%	1,686	100%	2%	411,528	100%	57%
75 - 150 fm	Discarded	138,380	98%	22%	28,596	100%	40%	166,977	99%	23%
	Retained	2,146	2%	23%	80	0%	100%	2,226	1%	24%
	Total catch	140,527	100%	22%	28,676	100%	40%	169,203	100%	23%
>150 fm	Discarded									
	Retained	98,052	100%	15%	41,413	100%	58%	139,464	100%	20%
	Total catch	98,052	100%	15%	41,413	100%	58%	139,464	100%	19%
All depths	Discarded	639,239	99%	100%	71,695	100%	100%	710,934	99%	100%
	Retained	9,181	1%	100%	80	0%	100%	9,261	1%	100%
	Total catch	648,420	100%	100%	71,775	100%	100%	720,195	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	132,389	95%	36%	7,549	96%	12%	139,938	95%	32%
	Retained	7,431	5%	35%	280	4%	100%	7,711	5%	36%
	Total catch	139,820	100%	36%	7,829	100%	12%	147,649	100%	32%
75 - 150 fm	Discarded	111,653	90%	30%	122	100%	0%	111,775	90%	26%
	Retained	11,935	10%	56%				11,935	10%	55%
	Total catch	123,589	100%	32%	122	100%	0%	123,711	100%	27%
>150 fm	Discarded	126,051	99%	34%	55,330	100%	88%	181,381	99%	42%
	Retained	1,904	1%	9%				1,904	1%	9%
	Total catch	127,955	100%	33%	55,330	100%	87%	183,285	100%	40%
All depths	Discarded	370,094	95%	100%	63,001	100%	100%	433,094	95%	100%
	Retained	21,271	5%	100%	280	0%	100%	21,551	5%	100%
	Total catch	391,364	100%	100%	63,281	100%	100%	454,645	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
O. Arrowtooth flounder										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	103,981	68%	29%			103,981	68%	29%	
	Retained	49,860	32%	14%			49,860	32%	14%	
	Total catch	153,842	100%	22%			153,842	100%	22%	
75 - 150 fm	Discarded	156,485	69%	43%	1,191	100%	68%	157,676	70%	43%
	Retained	68,944	31%	20%			68,944	30%	20%	
	Total catch	225,429	100%	32%	1,191	100%	57%	226,620	100%	32%
>150 fm	Discarded	102,523	31%	28%	556	61%	32%	103,079	31%	28%
	Retained	230,124	69%	66%	358	39%	100%	230,482	69%	66%
	Total catch	332,647	100%	47%	914	100%	43%	333,561	100%	47%
All depths	Discarded	362,990	51%	100%	1,747	83%	100%	364,737	51%	100%
	Retained	348,928	49%	100%	358	17%	100%	349,286	49%	100%
	Total catch	711,918	100%	100%	2,105	100%	100%	714,023	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	34,142	54%	22%	3	2%	0%	34,145	54%	21%
	Retained	29,177	46%	12%	169	98%	39%	29,346	46%	12%
	Total catch	63,319	100%	16%	172	100%	6%	63,491	100%	16%
75 - 150 fm	Discarded	36,970	51%	24%				36,970	51%	23%
	Retained	35,654	49%	15%				35,654	49%	15%
	Total catch	72,624	100%	18%				72,624	100%	18%
>150 fm	Discarded	85,669	33%	55%	2,483	90%	100%	88,152	33%	55%
	Retained	175,595	67%	73%	266	10%	61%	175,861	67%	73%
	Total catch	261,264	100%	66%	2,749	100%	94%	264,013	100%	66%
All depths	Discarded	156,781	39%	100%	2,486	85%	100%	159,267	40%	100%
	Retained	240,426	61%	100%	435	15%	100%	240,861	60%	100%
	Total catch	397,207	100%	100%	2,921	100%	100%	400,128	100%	100%
P. Petrale sole										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	34,855	16%	75%	479	5%	29%	35,334	16%	74%
	Retained	176,683	84%	36%	8,427	95%	14%	185,109	84%	34%
	Total catch	211,538	100%	40%	8,905	100%	14%	220,443	100%	37%
75 - 150 fm	Discarded	9,888	17%	21%	1,043	2%	64%	10,931	11%	23%
	Retained	47,236	83%	10%	42,919	98%	71%	90,155	89%	17%
	Total catch	57,124	100%	11%	43,962	100%	70%	101,086	100%	17%
>150 fm	Discarded	1,503	1%	3%	114	1%	7%	1,617	1%	3%
	Retained	260,542	99%	54%	9,519	99%	16%	270,060	99%	50%
	Total catch	262,044	100%	49%	9,633	100%	15%	271,677	100%	46%
All depths	Discarded	46,245	9%	100%	1,636	3%	100%	47,881	8%	100%
	Retained	484,461	91%	100%	60,864	97%	100%	545,325	92%	100%
	Total catch	530,706	100%	100%	62,500	100%	100%	593,206	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	15,378	14%	69%	1,822	5%	93%	17,200	11%	71%
	Retained	98,061	86%	32%	37,133	95%	68%	135,194	89%	38%
	Total catch	113,439	100%	35%	38,955	100%	69%	152,394	100%	40%
75 - 150 fm	Discarded	6,434	9%	29%				6,434	9%	26%
	Retained	65,419	91%	21%	1,528	100%	3%	66,947	91%	19%
	Total catch	71,853	100%	22%	1,528	100%	3%	73,381	100%	19%
>150 fm	Discarded	576	0%	3%	140	1%	7%	716	0%	3%
	Retained	141,663	100%	46%	15,890	99%	29%	157,553	100%	44%
	Total catch	142,239	100%	43%	16,030	100%	28%	158,268	100%	41%
All depths	Discarded	22,388	7%	100%	1,962	3%	100%	24,350	6%	100%
	Retained	305,143	93%	100%	54,551	97%	100%	359,694	94%	100%
	Total catch	327,531	100%	100%	56,513	100%	100%	384,044	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
Q. Other Flatfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	352,676	43%	74%	47,360	22%	56%	400,036	39%	71%
	Retained	470,025	57%	74%	164,387	78%	64%	634,411	61%	71%
	Total catch	822,700	100%	74%	211,747	100%	62%	1,030,000	100%	71%
75 - 150 fm	Discarded	87,986	44%	18%	20,768	24%	25%	108,754	38%	19%
	Retained	112,341	56%	18%	65,364	76%	25%	177,706	62%	20%
	Total catch	200,327	100%	18%	86,133	100%	25%	286,459	100%	20%
>150 fm	Discarded	36,092	39%	8%	15,879	37%	19%	51,971	39%	9%
	Retained	55,998	61%	9%	26,829	63%	10%	82,826	61%	9%
	Total catch	92,089	100%	8%	42,708	100%	13%	134,797	100%	9%
All depths	Discarded	476,753	43%	100%	84,008	25%	100%	560,761	39%	100%
	Retained	638,364	57%	100%	256,579	75%	100%	894,943	61%	100%
	Total catch	1,120,000	100%	100%	340,588	100%	100%	1,460,000	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	136,643	31%	51%	70,790	47%	83%	207,433	35%	58%
	Retained	307,451	69%	56%	81,218	53%	67%	388,669	65%	58%
	Total catch	444,094	100%	54%	152,008	100%	74%	596,103	100%	58%
75 - 150 fm	Discarded	102,410	41%	38%	2,647	68%	3%	105,057	41%	30%
	Retained	149,416	59%	27%	1,266	32%	1%	150,682	59%	23%
	Total catch	251,827	100%	31%	3,912	100%	2%	255,739	100%	25%
>150 fm	Discarded	31,265	26%	12%	11,407	23%	13%	42,672	25%	12%
	Retained	90,665	74%	17%	39,232	77%	32%	129,897	75%	19%
	Total catch	121,930	100%	15%	50,639	100%	25%	172,570	100%	17%
All depths	Discarded	270,319	33%	100%	84,844	41%	100%	355,163	35%	100%
	Retained	547,532	67%	100%	121,716	59%	100%	669,248	65%	100%
	Total catch	817,851	100%	100%	206,560	100%	100%	1,020,000	100%	100%
R. Other Slope Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	216	100%	1%	336	5%	2%	552	7%	1%
	Retained				6,875	95%	7%	6,875	93%	7%
	Total catch	216	100%	1%	7,212	100%	6%	7,427	100%	5%
75 - 150 fm	Discarded	20,744	100%	64%	1,965	58%	9%	22,709	94%	41%
	Retained	36	0%	68%	1,436	42%	1%	1,472	6%	1%
	Total catch	20,780	100%	64%	3,401	100%	3%	24,181	100%	16%
>150 fm	Discarded	11,681	100%	36%	20,078	18%	90%	31,759	26%	58%
	Retained	17	0%	32%	91,529	82%	92%	91,546	74%	92%
	Total catch	11,697	100%	36%	111,607	100%	91%	123,304	100%	80%
All depths	Discarded	32,640	100%	100%	22,380	18%	100%	55,020	36%	100%
	Retained	53	0%	100%	99,840	82%	100%	99,893	64%	100%
	Total catch	32,693	100%	100%	122,220	100%	100%	154,913	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	91	100%	0%				91	86%	0%
	Retained				15	100%	0%	15	14%	0%
	Total catch	91	100%	0%	15	100%	0%	106	100%	0%
75 - 150 fm	Discarded	4,051	100%	12%	9	100%	0%	4,060	100%	7%
	Retained	7	0%	3%				7	0%	0%
	Total catch	4,058	100%	12%	9	100%	0%	4,067	100%	4%
>150 fm	Discarded	30,621	99%	88%	23,218	38%	100%	53,839	58%	93%
	Retained	246	1%	97%	38,090	62%	100%	38,336	42%	100%
	Total catch	30,867	100%	88%	61,308	100%	100%	92,175	100%	96%
All depths	Discarded	34,763	99%	100%	23,226	38%	100%	57,989	60%	100%
	Retained	253	1%	100%	38,105	62%	100%	38,358	40%	100%
	Total catch	35,016	100%	100%	61,331	100%	100%	96,347	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
S. Yellowtail Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	5,065	13%	27%	3	5%	100%	5,067	13%	27%
	Retained	33,977	87%	50%	48	95%	95%	34,025	87%	50%
	Total catch	39,042	100%	45%	51	100%	96%	39,092	100%	45%
75 - 150 fm	Discarded	13,799	29%	73%				13,799	29%	73%
	Retained	33,427	71%	50%				33,427	71%	50%
	Total catch	47,226	100%	55%				47,226	100%	55%
>150 fm	Discarded	25	41%	0%				25	39%	0%
	Retained	37	59%	0%	2	100%	5%	39	61%	0%
	Total catch	62	100%	0%	2	100%	4%	64	100%	0%
All depths	Discarded	18,889	22%	100%	3	5%	100%	18,892	22%	100%
	Retained	67,440	78%	100%	50	95%	100%	67,491	78%	100%
	Total catch	86,329	100%	100%	53	100%	100%	86,382	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	259	3%	48%	8	100%	100%	267	3%	49%
	Retained	9,408	97%	41%				9,408	97%	41%
	Total catch	9,667	100%	41%	8	100%	100%	9,675	100%	41%
75 - 150 fm	Discarded	59	0%	11%				59	0%	11%
	Retained	13,414	100%	59%				13,414	100%	59%
	Total catch	13,473	100%	58%				13,473	100%	57%
>150 fm	Discarded	224	77%	41%				224	77%	41%
	Retained	67	23%	0%				67	23%	0%
	Total catch	291	100%	1%				291	100%	1%
All depths	Discarded	542	2%	100%	8	100%	100%	550	2%	100%
	Retained	22,888	98%	100%				22,888	98%	100%
	Total catch	23,430	100%	100%	8	100%	100%	23,438	100%	100%
T. Other Shelf Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	3,763	100%	16%	2,833	73%	6%	6,596	87%	10%
	Retained	3	0%	0%	1,026	27%	3%	1,029	13%	3%
	Total catch	3,766	100%	15%	3,859	100%	5%	7,625	100%	7%
75 - 150 fm	Discarded	19,308	95%	80%	33,560	52%	75%	52,869	62%	77%
	Retained	1,109	5%	98%	31,026	48%	90%	32,135	38%	91%
	Total catch	20,417	100%	81%	64,587	100%	82%	85,004	100%	81%
>150 fm	Discarded	1,157	99%	5%	8,328	78%	19%	9,485	80%	14%
	Retained	18	1%	2%	2,316	22%	7%	2,333	20%	7%
	Total catch	1,175	100%	5%	10,644	100%	13%	11,819	100%	11%
All depths	Discarded	24,228	96%	100%	44,721	57%	100%	68,950	66%	100%
	Retained	1,129	4%	100%	34,368	43%	100%	35,498	34%	100%
	Total catch	25,358	100%	100%	79,089	100%	100%	104,447	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	1,368	99%	4%	615	65%	26%	1,983	85%	6%
	Retained	20	1%	6%	335	35%	99%	355	15%	54%
	Total catch	1,389	100%	4%	950	100%	35%	2,338	100%	7%
75 - 150 fm	Discarded	28,319	100%	86%	108	100%	5%	28,427	100%	81%
	Retained	54	0%	17%				54	0%	8%
	Total catch	28,373	100%	86%	108	100%	4%	28,481	100%	80%
>150 fm	Discarded	3,089	93%	9%	1,660	100%	70%	4,749	95%	14%
	Retained	247	7%	77%	3	0%	1%	250	5%	38%
	Total catch	3,336	100%	10%	1,663	100%	61%	4,999	100%	14%
All depths	Discarded	32,777	99%	100%	2,382	88%	100%	35,159	98%	100%
	Retained	321	1%	100%	338	12%	100%	659	2%	100%
	Total catch	33,098	100%	100%	2,720	100%	100%	35,818	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
U. Black Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	173	46%	100%			173	46%	100%	
	Retained	204	54%	93%			204	54%	93%	
	Total catch	377	100%	96%			377	100%	96%	
75 - 150 fm	Discarded									
	Retained	14	100%	6%			14	100%	6%	
	Total catch	14	100%	4%			14	100%	4%	
>150 fm	Discarded									
	Retained	1	100%	0%			1	100%	0%	
	Total catch	1	100%	0%			1	100%	0%	
All depths	Discarded	173	44%	100%			173	44%	100%	
	Retained	218	56%	100%			218	56%	100%	
	Total catch	391	100%	100%			391	100%	100%	
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded									
	Retained	38	100%	96%			38	100%	96%	
	Total catch	38	100%	96%			38	100%	96%	
75 - 150 fm	Discarded									
	Retained	2	100%	4%			2	100%	4%	
	Total catch	2	100%	4%			2	100%	4%	
>150 fm	Discarded									
	Retained									
	Total catch									
All depths	Discarded									
	Retained	40	100%	100%			40	100%	100%	
	Total catch	40	100%	100%			40	100%	100%	
V. Other Nearshore Rockfish										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	68	88%	73%	18	96%	0%	86	90%	2%
	Retained	9	12%	100%	1	4%	8%	10	10%	50%
	Total catch	77	100%	76%	19	100%	0%	96	100%	2%
75 - 150 fm	Discarded	25	100%	27%	4,494	100%	100%	4,518	100%	98%
	Retained									
	Total catch	25	100%	24%	4,494	100%	99%	4,518	100%	98%
>150 fm	Discarded				3	25%	0%	3	25%	0%
	Retained				10	75%	92%	10	75%	50%
	Total catch				13	100%	0%	13	100%	0%
All depths	Discarded	92	91%	100%	4,515	100%	100%	4,607	100%	100%
	Retained	9	9%	100%	11	0%	100%	20	0%	100%
	Total catch	101	100%	100%	4,526	100%	100%	4,627	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	15	100%	38%	20	19%	63%	36	29%	49%
	Retained				88	81%	100%	88	71%	100%
	Total catch	15	100%	38%	108	100%	90%	124	100%	77%
75 - 150 fm	Discarded	22	100%	55%	12	100%	37%	34	100%	47%
	Retained									
	Total catch	22	100%	55%	12	100%	10%	34	100%	21%
>150 fm	Discarded	3	100%	7%				3	100%	4%
	Retained									
	Total catch	3	100%	7%				3	100%	2%
All depths	Discarded	41	100%	100%	33	27%	100%	73	45%	100%
	Retained				88	73%	100%	88	55%	100%
	Total catch	41	100%	100%	121	100%	100%	161	100%	100%

Table 4 (cont.). Discarded, retained and total catches (in pounds) for 23 groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish		North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide		
		Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)
W. Roundfish other than Sablefish and Hake										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	6,707	6%	4%	54	100%	0%	6,761	6%	3%
	Retained	107,621	94%	57%				107,621	94%	53%
	Total catch	114,328	100%	32%	54	100%	0%	114,382	100%	26%
75 - 150 fm	Discarded	6,459	13%	4%				6,459	13%	3%
	Retained	43,153	87%	23%				43,153	87%	21%
	Total catch	49,612	100%	14%				49,612	100%	11%
>150 fm	Discarded	160,868	81%	92%	65,719	81%	100%	226,586	81%	94%
	Retained	37,431	19%	20%	15,668	19%	100%	53,098	19%	26%
	Total catch	198,299	100%	55%	81,386	100%	100%	279,685	100%	63%
All depths	Discarded	174,034	48%	100%	65,773	81%	100%	239,807	54%	100%
	Retained	188,205	52%	100%	15,668	19%	100%	203,872	46%	100%
	Total catch	362,239	100%	100%	81,440	100%	100%	443,679	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	17,798	12%	7%	75	100%	0%	17,872	12%	6%
	Retained	136,250	88%	45%				136,250	88%	44%
	Total catch	154,048	100%	28%	75	100%	0%	154,122	100%	25%
75 - 150 fm	Discarded	8,322	8%	3%				8,322	8%	3%
	Retained	96,397	92%	32%				96,397	92%	31%
	Total catch	104,719	100%	19%				104,719	100%	17%
>150 fm	Discarded	218,545	76%	89%	50,542	82%	100%	269,087	77%	91%
	Retained	68,756	24%	23%	11,068	18%	100%	79,824	23%	26%
	Total catch	287,301	100%	53%	61,611	100%	100%	348,912	100%	57%
All depths	Discarded	244,665	45%	100%	50,617	82%	100%	295,282	49%	100%
	Retained	301,403	55%	100%	11,068	18%	100%	312,472	51%	100%
	Total catch	546,068	100%	100%	61,685	100%	100%	607,753	100%	100%

Table 5. Discarded, retained and total catches (in pounds) for 3 non-groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish	North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide			
	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	
A. California halibut										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	145	15%	69%	1,772	27%	100%	1,917	25%	97%
	Retained	853	85%	100%	4,829	73%	100%	5,682	75%	100%
	Total catch	998	100%	94%	6,601	100%	100%	7,599	100%	99%
75 - 150 fm	Discarded	65	100%	31%				65	100%	3%
	Retained									
	Total catch	65	100%	6%				65	100%	1%
>150 fm	Discarded									
	Retained									
	Total catch									
All depths	Discarded	210	20%	100%	1,772	27%	100%	1,982	26%	100%
	Retained	853	80%	100%	4,829	73%	100%	5,682	74%	100%
	Total catch	1,063	100%	100%	6,601	100%	100%	7,663	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded				933	11%	100%	933	11%	100%
	Retained	12	100%	100%	7,277	89%	90%	7,289	89%	90%
	Total catch	12	100%	100%	8,210	100%	91%	8,222	100%	91%
75 - 150 fm	Discarded									
	Retained									
	Total catch									
>150 fm	Discarded									
	Retained				842	100%	10%	842	100%	10%
	Total catch				842	100%	9%	842	100%	9%
All depths	Discarded				933	10%	100%	933	10%	100%
	Retained	12	100%	100%	8,119	90%	100%	8,131	90%	100%
	Total catch	12	100%	100%	9,052	100%	100%	9,064	100%	100%
B. Pacific halibut										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	39,034	100%	27%				39,034	100%	27%
	Retained									
	Total catch	39,034	100%	27%				39,034	100%	27%
75 - 150 fm	Discarded	20,009	100%	14%	80	100%	40%	20,090	100%	14%
	Retained									
	Total catch	20,009	100%	14%	80	100%	40%	20,090	100%	14%
>150 fm	Discarded	86,247	100%	59%	122	100%	60%	86,370	100%	59%
	Retained									
	Total catch	86,247	100%	59%	122	100%	60%	86,370	100%	59%
All depths	Discarded	145,291	100%	100%	203	100%	100%	145,494	100%	100%
	Retained									
	Total catch	145,291	100%	100%	203	100%	100%	145,494	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	15,637	100%	26%	32	100%	100%	15,669	100%	26%
	Retained									
	Total catch	15,637	100%	26%	32	100%	100%	15,669	100%	26%
75 - 150 fm	Discarded	17,538	100%	29%				17,538	100%	29%
	Retained									
	Total catch	17,538	100%	29%				17,538	100%	29%
>150 fm	Discarded	26,472	100%	44%				26,472	100%	44%
	Retained									
	Total catch	26,472	100%	44%				26,472	100%	44%
All depths	Discarded	59,647	100%	100%	32	100%	100%	59,679	100%	100%
	Retained									
	Total catch	59,647	100%	100%	32	100%	100%	59,679	100%	100%

Table 5 (cont.). Discarded, retained and total catches (in pounds) for 3 non-groundfish species or species groups by area, depth (in fathoms, fm), and observer-program year in which the data were collected (excluding EFP trips and those using Danish/Scottish seine and mid-water trawl).

Depth group / Disposition of fish		North of 40°10' N. lat.			South of 40°10' N. lat.			Coastwide		
		Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)	Pounds of species	Percent of depth group	Percent of disposition type (all depths)
C. All Salmon species										
Data collected from September 1, 2001 to August 31, 2002										
< 75 fm	Discarded	1,474	100%	24%	104	85%	39%	1,577	99%	25%
	Retained				18	15%	100%	18	1%	81%
	Total catch	1,474	100%	24%	122	100%	43%	1,595	100%	25%
75 - 150 fm	Discarded	1,673	100%	28%	138	100%	52%	1,811	100%	29%
	Retained	4	0%	100%				4	0%	19%
	Total catch	1,677	100%	28%	138	100%	48%	1,815	100%	29%
>150 fm	Discarded	2,905	100%	48%	25	100%	9%	2,931	100%	46%
	Retained									
	Total catch	2,905	100%	48%	25	100%	9%	2,931	100%	46%
All depths	Discarded	6,052	100%	100%	267	94%	100%	6,319	100%	100%
	Retained	4	0%	100%	18	6%	100%	22	0%	100%
	Total catch	6,056	100%	100%	285	100%	100%	6,341	100%	100%
Data collected from September 1, 2002 to August 31, 2003										
< 75 fm	Discarded	2,408	100%	22%	119	100%	94%	2,527	100%	23%
	Retained									
	Total catch	2,408	100%	22%	119	100%	94%	2,527	100%	23%
75 - 150 fm	Discarded	5,569	100%	51%				5,569	100%	50%
	Retained									
	Total catch	5,569	100%	51%				5,569	100%	50%
>150 fm	Discarded	2,972	100%	27%	8	100%	6%	2,980	100%	27%
	Retained									
	Total catch	2,972	100%	27%	8	100%	6%	2,980	100%	27%
All depths	Discarded	10,949	100%	100%	127	100%	100%	11,077	100%	100%
	Retained									
	Total catch	10,949	100%	100%	127	100%	100%	11,077	100%	100%

Table 6. Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Arrowtooth flounder																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	23.75	13.323	9.319%	0.053	93%	0.634	197	30.69	4.890	4.241%	0.008	62%	0.130	
		Nov.-Dec.	73	3.29	0.827	1.445%	0.004	100%	0.336	62	15.70	3.656	2.877%	0.007	64%	0.178	
		Jan.-Feb.	8	8.08	7.638	4.398%	0.042	100%	0.994	4	47.80	40.554	6.847%	0.061	100%	0.958	
		Mar.-Apr.	144	16.71	4.847	4.587%	0.014	73%	0.248	179	28.18	4.728	4.792%	0.009	39%	0.068	
		May-June	470	77.74	12.200	16.432%	0.028	65%	0.131	67	9.87	2.159	1.930%	0.004	55%	0.121	
		July-Aug.	408	23.66	3.075	5.369%	0.007	69%	0.142	37	71.86	16.337	11.088%	0.029	98%	0.286	
	75-150 fm	Sept.-Oct.	125	81.55	13.508	18.042%	0.032	50%	0.080	42	74.34	16.245	13.198%	0.030	61%	0.121	
		Nov.-Dec.	18	36.73	32.963	4.025%	0.037	98%	0.961	11	46.22	17.440	5.999%	0.025	28%	0.088	
		Jan.-Feb.	29	23.62	8.614	2.614%	0.016	86%	0.359	27	76.98	11.474	7.094%	0.012	100%	0.198	
		Mar.-Apr.	142	80.49	10.959	19.927%	0.031	72%	0.134	145	50.75	7.888	7.162%	0.012	45%	0.059	
		May-June	86	125.37	34.286	26.095%	0.075	86%	0.282	12	8.75	6.002	1.128%	0.008	27%	0.094	
		July-Aug.	89	265.19	40.973	43.045%	0.071	79%	0.130								
	>=150 fm	Sept.-Oct.	110	0.15	0.072	0.072%	0.000	1%	0.004	155	0.29	0.094	0.134%	0.000	57%	0.173	
		Nov.-Dec.	23	15.11	4.288	2.183%	0.006	33%	0.080	113	28.22	5.454	8.503%	0.017	78%	0.163	
		Jan.-Feb.	315	20.43	3.291	4.614%	0.008	33%	0.081	173	21.13	3.269	5.433%	0.009	44%	0.050	
		Mar.-Apr.	317	20.18	4.004	5.085%	0.010	27%	0.053	300	5.00	1.397	0.999%	0.003	17%	0.041	
		May-June	77	29.24	15.684	10.159%	0.055	97%	0.665	302	5.13	1.482	1.490%	0.004	22%	0.081	
		July-Aug.	20	20.45	19.287	4.733%	0.045	22%	0.143	195	17.04	6.058	3.970%	0.014	27%	0.084	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%				8	0.00		0.000%				
		Mar.-Apr.	29	0.00		0.000%				31	0.00	0.002	0.001%	0.000	0%	0.002	
		May-June	3	0.00		0.000%				60	0.00		0.000%		0%		
		July-Aug.								73	0.02	0.018	0.008%	0.000	52%	0.409	
	75-150 fm	Sept.-Oct.	60	1.55	0.926	0.439%	0.003	100%	0.766								
		Nov.-Dec.	14	0.10	0.101	0.020%	0.000	100%	1.000	3	0.00		0.000%				
		Jan.-Feb.	18	6.72	3.141	1.370%	0.007	100%	0.611								
		Mar.-Apr.	8	3.62	1.319	0.668%	0.003	100%	0.472								
		May-June	13	5.77	2.113	1.612%	0.006	100%	0.473								
		July-Aug.	1	1.07		0.556%		100%									
	>=150 fm	Sept.-Oct.	15	0.00		0.000%				72	0.02	0.021	0.005%	0.000	100%	1.000	
		Nov.-Dec.	9	0.00		0.000%				69	0.14	0.132	0.034%	0.000	64%	0.509	
		Jan.-Feb.	67	0.00	0.001	0.000%	0.000	100%	1.000	64	1.05	0.595	0.174%	0.001	100%	0.730	
		Mar.-Apr.	76	0.53	0.307	0.096%	0.001	100%	0.743	50	0.03	0.018	0.008%	0.000	100%	0.706	
		May-June	57	0.01	0.006	0.001%	0.000	28%	0.127	74	1.53	0.802	0.298%	0.002	89%	0.559	
		July-Aug.	171	0.28	0.081	0.074%	0.000	48%	0.176	63	4.14	1.506	0.716%	0.003	90%	0.403	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)					September 1, 2002 to August 31, 2003 (2nd program year)								
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Black Rockfish																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	0.00		0.000%		0%		197	0.00	0.000%		0%			
		Nov.-Dec.	73	0.72	0.390	0.318%	0.002	100%	0.701	62	0.00	0.000%					
		Jan.-Feb.	8	0.00		0.000%		0%		4	0.00	0.000%					
		Mar.-Apr.	144	0.00		0.000%				179	0.00	0.000%		0%			
		May-June	470	0.00		0.000%				67	0.00	0.000%					
		July-Aug.	408	0.00		0.000%		0%		37	0.00	0.000%					
	75-150 fm	Sept.-Oct.	125	0.00		0.000%				42	0.00	0.000%		0%			
		Nov.-Dec.	18	0.00		0.000%				11	0.00	0.000%					
		Jan.-Feb.	29	0.00		0.000%				27	0.00	0.000%					
		Mar.-Apr.	142	0.00		0.000%				145	0.00	0.000%		0%			
		May-June	86	0.00		0.000%				12	0.00	0.000%					
		July-Aug.	89	0.00		0.000%		0%									
	>=150 fm	Sept.-Oct.	110	0.00		0.000%				155	0.00	0.000%					
		Nov.-Dec.	23	0.00		0.000%				113	0.00	0.000%					
		Jan.-Feb.	315	0.00		0.000%				173	0.00	0.000%					
		Mar.-Apr.	317	0.00		0.000%				300	0.00	0.000%					
		May-June	77	0.00		0.000%				302	0.00	0.000%					
		July-Aug.	20	0.00		0.000%		0%		195	0.00	0.000%					
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%			8	0.00	0.000%						
		Mar.-Apr.	29	0.00		0.000%			31	0.00	0.000%						
		May-June	3	0.00		0.000%			60	0.00	0.000%						
		July-Aug.							73	0.00	0.000%						
	75-150 fm	Sept.-Oct.	60	0.00		0.000%											
		Nov.-Dec.	14	0.00		0.000%			3	0.00	0.000%						
		Jan.-Feb.	18	0.00		0.000%											
		Mar.-Apr.	8	0.00		0.000%											
		May-June	13	0.00		0.000%											
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	0.00		0.000%				72	0.00	0.000%					
		Nov.-Dec.	9	0.00		0.000%				69	0.00	0.000%					
		Jan.-Feb.	67	0.00		0.000%				64	0.00	0.000%					
		Mar.-Apr.	76	0.00		0.000%				50	0.00	0.000%					
		May-June	57	0.00		0.000%				74	0.00	0.000%					
		July-Aug.	171	0.00		0.000%				63	0.00	0.000%					

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Bocaccio																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	0.00		0.000%				197	0.00		0.000%				
		Nov.-Dec.	73	0.00		0.000%				62	0.00		0.000%				
		Jan.-Feb.	8	0.00		0.000%				4	0.00		0.000%				
		Mar.-Apr.	144	0.34	0.290	0.092%	0.001	97%	0.930	179	0.00		0.000%				
		May-June	470	0.00	0.001	0.000%	0.000	100%	1.000	67	0.00		0.000%				
		July-Aug.	408	0.00		0.000%		0%		37	0.00		0.000%				
	75-150 fm	Sept.-Oct.	125	0.81	0.806	0.178%	0.002	98%	0.977	42	0.00		0.000%				
		Nov.-Dec.	18	0.00		0.000%				11	0.07	0.065	0.008%	0.000			
		Jan.-Feb.	29	1.36	0.792	0.151%	0.001	100%	0.744	27	0.27	0.266	0.025%	0.000			
		Mar.-Apr.	142	0.06	0.047	0.016%	0.000	51%	0.289	145	0.05	0.033	0.007%	0.000			
		May-June	86	0.00		0.000%		0%		12	0.00		0.000%				
		July-Aug.	89	0.11	0.113	0.018%	0.000	66%	0.563								
	>=150 fm	Sept.-Oct.	110	0.00		0.000%				155	0.00		0.000%				
		Nov.-Dec.	23	0.00		0.000%				113	0.57	0.320	0.171%	0.001			
		Jan.-Feb.	315	0.09	0.038	0.020%	0.000	100%	0.579	173	0.00		0.000%				
		Mar.-Apr.	317	0.00		0.000%		0%		300	0.00		0.000%				
		May-June	77	0.00		0.000%				302	0.00		0.000%				
		July-Aug.	20	0.00		0.000%				195	0.00		0.000%				
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.00		0.000%		0%									
		Nov.-Dec.	4	29.33	29.328	3.124%	0.031	100%	1.000								
		Jan.-Feb.	40	0.00		0.000%		0%		8	0.00		0.000%				
		Mar.-Apr.	29	1.72	1.043	0.273%	0.002	26%	0.156	31	2.15	1.944	0.667%	0.006			
		May-June	3	0.00		0.000%		0%		60	0.09	0.061	0.028%	0.000			
		July-Aug.								73	0.05	0.046	0.021%	0.000			
	75-150 fm	Sept.-Oct.	60	6.47	2.404	1.838%	0.007	92%	0.427								
		Nov.-Dec.	14	88.33	37.902	17.450%	0.083	100%	0.557	3	0.60	0.602	0.509%	0.005			
		Jan.-Feb.	18	38.70	23.539	7.893%	0.048	81%	0.525								
		Mar.-Apr.	8	31.80	27.978	5.873%	0.052	75%	0.612								
		May-June	13	23.77	15.908	6.637%	0.044	51%	0.242								
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	0.04	0.037	0.007%	0.000	100%	1.000	72	0.40	0.402	0.087%	0.001			
		Nov.-Dec.	9	26.82	10.567	5.525%	0.022	100%	0.504	69	3.87	2.297	0.965%	0.006			
		Jan.-Feb.	67	0.01	0.009	0.002%	0.000	1%	0.009	64	0.72	0.374	0.119%	0.001			
		Mar.-Apr.	76	0.52	0.232	0.093%	0.000	100%	0.594	50	0.00		0.000%				
		May-June	57	0.00		0.000%				74	0.00		0.000%				
		July-Aug.	171	0.13	0.121	0.033%	0.000	100%	0.998	63	0.00		0.000%				

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

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Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Cabazon	North of 40°10' N. lat. (near Cape Mendocino)	0-75 fm	Sept.-Oct.	91	0.31	0.171	0.121%	0.001	16%	0.059	197	0.00		0.000%		0%	
			Nov.-Dec.	73	0.00		0.000%		0%		62	0.00		0.000%			
			Jan.-Feb.	8	0.00		0.000%		0%		4	0.00		0.000%			
			Mar.-Apr.	144	0.00		0.000%		0%		179	0.00		0.000%			
			May-June	470	0.06	0.063	0.013%	0.000	100%	1.000	67	0.00		0.000%			
			July-Aug.	408	0.00		0.000%				37	0.00		0.000%			
		75-150 fm	Sept.-Oct.	125	0.15	0.147	0.032%	0.000	100%	1.000	42	0.00		0.000%			
			Nov.-Dec.	18	0.00		0.000%				11	0.00		0.000%			
			Jan.-Feb.	29	0.00		0.000%				27	0.00		0.000%			
			Mar.-Apr.	142	0.00		0.000%				145	0.00		0.000%			
			May-June	86	0.00		0.000%				12	0.00		0.000%			
			July-Aug.	89	0.00		0.000%							0.000%			
		>=150 fm	Sept.-Oct.	110	0.00		0.000%				155	0.00		0.000%			
			Nov.-Dec.	23	0.00		0.000%				113	0.00		0.000%			
			Jan.-Feb.	315	0.00		0.000%				173	0.00		0.000%			
			Mar.-Apr.	317	0.00		0.000%				300	0.00		0.000%			
			May-June	77	0.00		0.000%				302	0.00		0.000%			
			July-Aug.	20	0.00		0.000%				195	0.00		0.000%			
	South of 40°10' N. lat. (near Cape Mendocino)	0-75 fm	Sept.-Oct.	42	3.63	1.721	1.202%	0.006	22%	0.069							
			Nov.-Dec.	4	45.27	20.495	4.823%	0.030	49%	0.221							
			Jan.-Feb.	40	4.35	1.490	0.580%	0.002	20%	0.049	8	6.14	1.548	30.449%	0.069	36%	0.060
			Mar.-Apr.	29	2.40	1.396	0.382%	0.002	29%	0.130	31	4.37	1.399	1.356%	0.005	10%	0.019
			May-June	3	0.00		0.000%		0%		60	0.05	0.052	0.017%	0.000	0%	0.002
			July-Aug.								73	1.82	0.717	0.813%	0.003	29%	0.086
75-150 fm		Sept.-Oct.	60	0.00		0.000%							0.000%				
		Nov.-Dec.	14	0.00		0.000%				3	0.00		0.000%				
		Jan.-Feb.	18	0.00		0.000%											
		Mar.-Apr.	8	0.00		0.000%											
		May-June	13	0.00		0.000%											
		July-Aug.	1	0.00		0.000%											
>=150 fm		Sept.-Oct.	15	0.00		0.000%				72	0.00		0.000%				
		Nov.-Dec.	9	0.00		0.000%				69	0.00		0.000%				
		Jan.-Feb.	67	0.00		0.000%				64	0.00		0.000%			0%	
		Mar.-Apr.	76	0.00		0.000%				50	0.00		0.000%				
		May-June	57	0.00		0.000%				74	0.00		0.000%				
		July-Aug.	171	0.00		0.000%				63	0.00		0.000%				

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

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Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Canary Rockfish																	
			North of 40°10' N. lat. (near Cape Mendocino)														
	0-75 fm	Sept.-Oct.	91	0.90	0.436	0.353%	0.002	79%	0.416	197	0.97	0.494	0.134%	0.001	29%	0.140	
		Nov.-Dec.	73	1.76	0.509	0.773%	0.002	100%	0.390	62	0.55	0.279	0.102%	0.001	17%	0.043	
		Jan.-Feb.	8	2.45	1.613	1.332%	0.009	100%	0.822	4	15.27	15.270	2.187%	0.022	100%	1.000	
		Mar.-Apr.	144	1.50	0.430	0.413%	0.001	50%	0.147	179	1.07	0.318	0.182%	0.001	62%	0.170	
		May-June	470	0.66	0.290	0.140%	0.001	29%	0.090	67	0.10	0.072	0.019%	0.000	100%	0.896	
		July-Aug.	408	0.81	0.259	0.184%	0.001	28%	0.086	37	0.24	0.143	0.038%	0.000	36%	0.139	
	75-150 fm	Sept.-Oct.	125	0.93	0.312	0.205%	0.001	32%	0.076	42	1.48	0.751	0.263%	0.001	33%	0.102	
		Nov.-Dec.	18	6.78	2.387	0.743%	0.005	100%	0.444	11	23.91	18.990	3.103%	0.025	93%	0.828	
		Jan.-Feb.	29	24.57	6.916	2.720%	0.015	100%	0.371	27	8.27	1.606	0.762%	0.002	75%	0.142	
		Mar.-Apr.	142	3.34	0.568	0.828%	0.002	60%	0.105	145	6.45	1.430	0.910%	0.002	69%	0.158	
		May-June	86	1.04	0.363	0.216%	0.001	27%	0.065	12	12.26	11.936	1.580%	0.015	87%	0.833	
		July-Aug.	89	1.29	0.688	0.209%	0.001	29%	0.084								
	>=150 fm	Sept.-Oct.	110	0.00		0.000%		0%		155	0.00		0.000%				
		Nov.-Dec.	23	0.00		0.000%				113	0.00		0.000%				
		Jan.-Feb.	315	0.01	0.008	0.003%	0.000	40%	0.269	173	0.00	0.003	0.001%	0.000	5%	0.022	
		Mar.-Apr.	317	0.00		0.000%		0%		300	0.01	0.008	0.003%	0.000	72%	0.451	
		May-June	77	0.00		0.000%				302	0.01	0.008	0.003%	0.000	78%	0.502	
		July-Aug.	20	0.00		0.000%		0%		195	0.04	0.022	0.010%	0.000	100%	0.690	
		South of 40°10' N. lat. (near Cape Mendocino)															
	0-75 fm	Sept.-Oct.	42	0.00		0.000%		0%									
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.02	0.018	0.002%	0.000	5%	0.048	8	0.00		0.000%				
		Mar.-Apr.	29	0.00		0.000%		0%		31	0.00		0.000%		0%		
		May-June	3	0.00		0.000%		0%		60	0.00		0.000%				
		July-Aug.								73	0.00		0.000%				
	75-150 fm	Sept.-Oct.	60	0.13	0.079	0.038%	0.000	27%	0.140								
		Nov.-Dec.	14	0.00		0.000%				3	0.02	0.024	0.021%	0.000	100%	1.000	
		Jan.-Feb.	18	0.00		0.000%		0%									
		Mar.-Apr.	8	0.00		0.000%		0%									
		May-June	13	0.35	0.239	0.098%	0.001	11%	0.055								
		July-Aug.	1	4.20		2.189%		100%									
	>=150 fm	Sept.-Oct.	15	0.00		0.000%				72	0.00		0.000%				
		Nov.-Dec.	9	0.00		0.000%				69	0.00		0.000%				
		Jan.-Feb.	67	0.00		0.000%				64	0.00		0.000%				
		Mar.-Apr.	76	0.12	0.124	0.022%	0.000	96%	0.959	50	0.00		0.000%				
		May-June	57	0.00		0.000%		0%		74	0.00		0.000%				
		July-Aug.	171	0.02	0.019	0.006%	0.000	100%	0.982	63	0.00		0.000%				

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.
 NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Cowcod Rockfish																	
North of 40°10' N. lat. (near Cape Mendocino)																	
0-75 fm		Sept.-Oct.	91	0.00		0.000%				197	0.00		0.000%				
		Nov.-Dec.	73	0.00		0.000%				62	0.00		0.000%				
		Jan.-Feb.	8	0.00		0.000%				4	0.00		0.000%				
		Mar.-Apr.	144	0.00		0.000%				179	0.00		0.000%				
		May-June	470	0.00		0.000%				67	0.00		0.000%				
		July-Aug.	408	0.00		0.000%				37	0.00		0.000%				
75-150 fm		Sept.-Oct.	125	0.00		0.000%		0%		42	0.00		0.000%				
		Nov.-Dec.	18	0.00		0.000%				11	0.00		0.000%				
		Jan.-Feb.	29	0.00		0.000%				27	0.00		0.000%				
		Mar.-Apr.	142	0.00		0.000%				145	0.00		0.000%				
		May-June	86	0.00		0.000%				12	0.00		0.000%				
		July-Aug.	89	0.00		0.000%											
>=150 fm		Sept.-Oct.	110	0.00		0.000%				155	0.00		0.000%				
		Nov.-Dec.	23	0.00		0.000%				113	0.00		0.000%				
		Jan.-Feb.	315	0.00		0.000%				173	0.00		0.000%				
		Mar.-Apr.	317	0.00		0.000%				300	0.00		0.000%				
		May-June	77	0.00		0.000%				302	0.00		0.000%				
		July-Aug.	20	0.00		0.000%				195	0.00		0.000%				
South of 40°10' N. lat. (near Cape Mendocino)																	
0-75 fm		Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%				8	0.00		0.000%				
		Mar.-Apr.	29	0.26	0.155	0.041%	0.000	100%	0.765	31	0.20	0.155	0.064%	0.000	100%	0.904	
		May-June	3	0.00		0.000%				60	0.01	0.012	0.004%	0.000	100%	1.000	
		July-Aug.								73	0.00	0.003	0.001%	0.000	100%	1.000	
75-150 fm		Sept.-Oct.	60	0.03	0.016	0.009%	0.000	100%	0.680								
		Nov.-Dec.	14	3.02	1.536	0.596%	0.003	100%	0.656	3	3.45	3.450	2.918%	0.029	100%	1.000	
		Jan.-Feb.	18	2.24	2.078	0.457%	0.004	100%	0.990								
		Mar.-Apr.	8	10.61	10.247	1.960%	0.019	100%	0.998								
		May-June	13	3.45	1.541	0.963%	0.004	100%	0.581								
		July-Aug.	1	0.00		0.000%											
>=150 fm		Sept.-Oct.	15	0.01	0.013	0.002%	0.000	100%	1.000	72	0.00		0.000%				
		Nov.-Dec.	9	1.20	1.197	0.247%	0.002	100%	1.000	69	0.00		0.000%				
		Jan.-Feb.	67	0.04	0.038	0.012%	0.000	100%	0.986	64	0.00		0.000%				
		Mar.-Apr.	76	0.13	0.127	0.023%	0.000	100%	1.000	50	0.00		0.000%				
		May-June	57	0.02	0.018	0.002%	0.000	100%	1.000	74	0.00		0.000%				
		July-Aug.	171	0.00		0.000%				63	0.00		0.000%				

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Darkblotched Rockfish																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	0.24	0.197	0.094%	0.001	22%	0.174	197	0.41	0.193	0.056%	0.000	100%	0.630	
		Nov.-Dec.	73	0.00		0.000%				62	0.12	0.069	0.021%	0.000	85%	0.565	
		Jan.-Feb.	8	0.00		0.000%				4	0.02	0.020	0.003%	0.000	100%	1.000	
		Mar.-Apr.	144	0.23	0.103	0.064%	0.000	70%	0.320	179	0.24	0.118	0.041%	0.000	73%	0.359	
		May-June	470	0.39	0.108	0.082%	0.000	35%	0.111	67	1.30	0.687	0.255%	0.001	100%	0.691	
		July-Aug.	408	0.17	0.078	0.040%	0.000	71%	0.313	37	2.33	1.676	0.359%	0.003	100%	0.875	
	75-150 fm	Sept.-Oct.	125	3.62	1.687	0.800%	0.004	44%	0.151	42	2.78	0.706	0.494%	0.001	100%	0.340	
		Nov.-Dec.	18	0.00		0.000%				11	3.66	2.557	0.476%	0.003	63%	0.437	
		Jan.-Feb.	29	15.73	13.217	1.741%	0.015	95%	0.883	27	4.27	1.360	0.393%	0.001	100%	0.435	
		Mar.-Apr.	142	7.37	3.581	1.825%	0.009	71%	0.375	145	4.91	1.241	0.693%	0.002	98%	0.336	
		May-June	86	9.86	4.233	2.053%	0.009	49%	0.162	12	6.00	4.233	0.773%	0.006	30%	0.177	
		July-Aug.	89	9.53	6.144	1.546%	0.010	98%	0.784								
	>=150 fm	Sept.-Oct.	110	6.59	2.223	3.051%	0.010	87%	0.352	155	0.00	0.002	0.001%	0.000	100%	0.864	
		Nov.-Dec.	23	0.60	0.602	0.087%	0.001	15%	0.049	113	8.93	3.226	2.690%	0.010	85%	0.356	
		Jan.-Feb.	315	1.29	0.406	0.292%	0.001	35%	0.066	173	3.59	2.237	0.923%	0.006	54%	0.257	
		Mar.-Apr.	317	0.28	0.227	0.071%	0.001	14%	0.031	300	0.13	0.091	0.026%	0.000	22%	0.056	
		May-June	77	0.01	0.009	0.005%	0.000	0%	0.001	302	1.06	0.472	0.307%	0.001	42%	0.121	
		July-Aug.	20	0.41	0.413	0.096%	0.001	48%	0.327	195	2.07	0.633	0.482%	0.001	42%	0.118	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%				8	0.00		0.000%				
		Mar.-Apr.	29	0.00		0.000%				31	0.01	0.014	0.004%	0.000	100%	1.000	
		May-June	3	0.00		0.000%				60	0.00		0.000%				
		July-Aug.								73	0.00		0.000%				
	75-150 fm	Sept.-Oct.	60	0.14	0.095	0.039%	0.000	88%	0.687								
		Nov.-Dec.	14	0.33	0.246	0.065%	0.000	100%	0.892	3	0.00		0.000%				
		Jan.-Feb.	18	1.70	1.174	0.346%	0.002	100%	0.850								
		Mar.-Apr.	8	0.00		0.000%		0%									
		May-June	13	0.69	0.485	0.193%	0.001	100%	0.858								
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	0.00		0.000%		0%		72	0.01	0.006	0.001%	0.000	16%	0.071	
		Nov.-Dec.	9	0.00		0.000%				69	1.32	1.060	0.330%	0.003	100%	0.934	
		Jan.-Feb.	67	0.42	0.134	0.118%	0.000	100%	0.432	64	0.07	0.053	0.011%	0.000	100%	0.942	
		Mar.-Apr.	76	0.14	0.107	0.025%	0.000	85%	0.696	50	0.00		0.000%		0%		
		May-June	57	0.01	0.007	0.001%	0.000	2%	0.013	74	0.00	0.004	0.001%	0.000	21%	0.101	
		July-Aug.	171	0.00		0.000%		0%		63	0.21	0.203	0.037%	0.000	7%	0.039	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.
NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Dover sole																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	24.93	12.638	9.780%	0.050	51%	0.284	197	6.88	1.134	0.951%	0.002	4%	0.006	
		Nov.-Dec.	73	6.53	3.102	2.870%	0.014	100%	0.628	62	9.85	2.897	1.806%	0.006	7%	0.014	
		Jan.-Feb.	8	0.17	0.174	0.095%	0.001	100%	1.000	4	5.85	3.618	0.838%	0.006	8%	0.064	
		Mar.-Apr.	144	16.99	3.933	4.663%	0.011	44%	0.091	179	38.79	7.314	6.595%	0.013	48%	0.079	
		May-June	470	20.49	2.922	4.331%	0.007	15%	0.018	67	10.04	1.627	1.964%	0.003	8%	0.015	
		July-Aug.	408	17.91	3.116	4.064%	0.007	22%	0.037	37	64.73	24.576	9.988%	0.040	46%	0.156	
	75-150 fm	Sept.-Oct.	125	103.20	17.883	22.831%	0.042	47%	0.062	42	38.93	15.233	6.911%	0.027	10%	0.016	
		Nov.-Dec.	18	73.40	37.108	8.043%	0.056	100%	0.648	11	23.04	11.409	2.991%	0.015	8%	0.033	
		Jan.-Feb.	29	6.10	3.830	0.675%	0.005	12%	0.109	27	17.48	4.514	1.611%	0.004	20%	0.054	
		Mar.-Apr.	142	30.21	5.272	7.480%	0.014	20%	0.027	145	42.19	8.896	5.954%	0.013	49%	0.084	
		May-June	86	21.12	5.636	4.396%	0.012	8%	0.012	12	17.15	8.583	2.210%	0.012	13%	0.050	
		July-Aug.	89	39.43	12.861	6.400%	0.021	13%	0.017								
	>=150 fm	Sept.-Oct.	110	37.78	5.975	17.493%	0.029	44%	0.056	155	19.28	2.772	8.788%	0.013	20%	0.020	
		Nov.-Dec.	23	43.72	14.691	6.315%	0.022	71%	0.242	113	15.83	3.088	4.770%	0.010	11%	0.023	
		Jan.-Feb.	315	10.16	2.003	2.294%	0.005	6%	0.006	173	16.92	5.346	4.350%	0.014	9%	0.014	
		Mar.-Apr.	317	17.28	4.569	4.354%	0.012	9%	0.009	300	23.18	6.954	4.629%	0.014	7%	0.007	
		May-June	77	37.25	8.475	12.941%	0.032	25%	0.045	302	12.32	2.234	3.575%	0.007	7%	0.005	
		July-Aug.	20	16.36	9.314	3.786%	0.022	10%	0.017	195	8.06	2.092	1.878%	0.005	4%	0.004	
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	1.12	0.385	0.370%	0.001	100%	0.468								
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	2.23	1.375	0.297%	0.002	100%	0.781	8	0.00		0.000%				
		Mar.-Apr.	29	0.11	0.058	0.018%	0.000	60%	0.388	31	0.43	0.221	0.133%	0.001	100%	0.672	
		May-June	3	0.00		0.000%				60	1.96	0.631	0.641%	0.002	85%	0.319	
		July-Aug.								73	0.22	0.077	0.099%	0.000	100%	0.472	
	75-150 fm	Sept.-Oct.	60	1.44	0.547	0.410%	0.002	100%	0.514								
		Nov.-Dec.	14	6.65	2.558	1.314%	0.006	100%	0.498	3	0.00		0.000%				
		Jan.-Feb.	18	5.90	3.446	1.204%	0.007	100%	0.741								
		Mar.-Apr.	8	2.07	1.122	0.383%	0.002	8%	0.035								
		May-June	13	23.09	10.268	6.449%	0.029	24%	0.102								
		July-Aug.	1	6.40		3.336%		15%									
	>=150 fm	Sept.-Oct.	15	79.14	63.517	15.133%	0.125	27%	0.122	72	17.49	5.652	3.788%	0.013	7%	0.011	
		Nov.-Dec.	9	118.98	39.360	24.509%	0.081	100%	0.414	69	36.84	11.755	9.188%	0.029	20%	0.032	
		Jan.-Feb.	67	110.94	43.255	31.310%	0.129	38%	0.105	64	24.16	8.297	4.003%	0.014	9%	0.017	
		Mar.-Apr.	76	64.95	18.767	11.690%	0.036	21%	0.040	50	12.93	3.832	2.962%	0.009	6%	0.013	
		May-June	57	21.42	7.212	2.972%	0.011	8%	0.019	74	39.02	12.735	7.596%	0.025	14%	0.019	
		July-Aug.	171	16.72	2.560	4.375%	0.007	7%	0.008	63	39.49	8.366	6.830%	0.015	11%	0.016	

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Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Flatfish species other than Dover, Arrowtooth, and Petrale																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	96.54	37.924	37.877%	0.153	38%	0.080	197	73.55	10.849	10.164%	0.017	22%	0.022	
		Nov.-Dec.	73	74.15	16.560	32.582%	0.072	29%	0.032	62	108.48	17.827	19.880%	0.037	27%	0.039	
		Jan.-Feb.	8	22.48	6.872	12.231%	0.044	17%	0.047	4	78.63	31.537	11.263%	0.069	27%	0.091	
		Mar.-Apr.	144	136.75	17.327	37.537%	0.052	46%	0.043	179	166.06	28.306	28.233%	0.051	39%	0.050	
		May-June	470	149.23	12.510	31.545%	0.035	51%	0.036	67	93.94	13.478	18.377%	0.028	28%	0.027	
		July-Aug.	408	144.86	11.862	32.865%	0.030	39%	0.023	37	91.54	21.254	14.125%	0.037	28%	0.066	
	75-150 fm	Sept.-Oct.	125	37.90	6.232	8.384%	0.015	35%	0.041	42	75.16	20.014	13.343%	0.037	50%	0.110	
		Nov.-Dec.	18	13.43	5.404	1.472%	0.009	21%	0.061	11	120.94	49.604	15.696%	0.069	28%	0.113	
		Jan.-Feb.	29	35.70	15.407	3.952%	0.025	18%	0.100	27	111.04	19.902	10.233%	0.020	20%	0.032	
		Mar.-Apr.	142	128.28	14.518	31.761%	0.044	55%	0.064	145	189.60	34.700	26.759%	0.052	47%	0.067	
		May-June	86	31.31	9.125	6.517%	0.020	35%	0.061	12	246.77	109.150	31.789%	0.150	42%	0.134	
		July-Aug.	89	39.30	10.428	6.380%	0.017	38%	0.066								
	>=150 fm	Sept.-Oct.	110	3.74	0.818	1.731%	0.004	48%	0.080	155	4.36	0.621	1.988%	0.003	51%	0.062	
		Nov.-Dec.	23	3.15	1.092	0.456%	0.002	28%	0.091	113	5.22	0.750	1.571%	0.002	50%	0.075	
		Jan.-Feb.	315	4.48	0.614	1.011%	0.001	27%	0.030	173	5.35	1.178	1.375%	0.003	19%	0.026	
		Mar.-Apr.	317	8.59	1.992	2.164%	0.005	46%	0.080	300	3.19	0.407	0.637%	0.001	31%	0.039	
		May-June	77	7.52	1.331	2.612%	0.005	50%	0.088	302	2.86	0.303	0.830%	0.001	25%	0.026	
		July-Aug.	20	8.78	3.657	2.031%	0.009	28%	0.056	195	3.43	0.482	0.799%	0.001	14%	0.011	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	201.53	65.222	66.798%	0.244	46%	0.109								
		Nov.-Dec.	4	17.96	6.858	1.913%	0.011	2%	0.010								
		Jan.-Feb.	40	166.84	88.118	22.257%	0.124	19%	0.045	8	18.79	10.780	93.084%	0.527	49%	0.194	
		Mar.-Apr.	29	33.84	16.401	5.384%	0.028	7%	0.018	31	280.23	67.754	87.084%	0.263	54%	0.121	
		May-June	3	8.88	7.159	22.148%	0.159	26%	0.078	60	147.48	29.495	48.262%	0.110	50%	0.080	
		July-Aug.								73	99.67	21.906	44.427%	0.105	35%	0.049	
	75-150 fm	Sept.-Oct.	60	49.40	13.747	14.033%	0.040	24%	0.032								
		Nov.-Dec.	14	90.39	28.618	17.856%	0.068	24%	0.095	3	107.67	84.055	91.092%	0.616	68%	0.413	
		Jan.-Feb.	18	58.22	22.013	11.874%	0.046	24%	0.063								
		Mar.-Apr.	8	23.69	15.372	4.374%	0.029	22%	0.083								
		May-June	13	21.36	6.914	5.966%	0.019	24%	0.039								
		July-Aug.	1	9.47		4.934%		100%									
	>=150 fm	Sept.-Oct.	15	3.66	2.429	0.700%	0.005	6%	0.019	72	3.75	0.714	0.812%	0.002	63%	0.162	
		Nov.-Dec.	9	34.74	14.774	7.155%	0.031	44%	0.160	69	7.51	1.869	1.872%	0.005	23%	0.037	
		Jan.-Feb.	67	6.96	1.642	1.965%	0.005	52%	0.115	64	9.15	4.168	1.517%	0.007	16%	0.046	
		Mar.-Apr.	76	11.37	2.352	2.047%	0.005	28%	0.049	50	2.72	0.549	0.624%	0.001	24%	0.045	
		May-June	57	8.29	2.298	1.151%	0.003	71%	0.187	74	3.05	0.541	0.594%	0.001	33%	0.105	
		July-Aug.	171	3.39	0.501	0.888%	0.001	42%	0.059	63	3.25	0.926	0.561%	0.002	15%	0.017	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Lingcod																	
		North of 40°10' N. lat. (near Cape Mendocino)															
	0-75 fm	Sept.-Oct.	91	5.52	1.615	2.167%	0.007	70%	0.204	197	38.67	9.369	5.345%	0.014	83%	0.235	
		Nov.-Dec.	73	8.83	1.922	3.880%	0.008	92%	0.253	62	6.30	0.946	1.154%	0.002	52%	0.091	
		Jan.-Feb.	8	4.17	2.378	2.270%	0.013	71%	0.382	4	1.23	1.092	0.176%	0.002	11%	0.079	
		Mar.-Apr.	144	3.54	0.528	0.972%	0.002	40%	0.115	179	17.08	4.664	2.904%	0.008	67%	0.184	
		May-June	470	11.76	2.305	2.486%	0.005	66%	0.139	67	3.29	0.593	0.643%	0.001	61%	0.114	
		July-Aug.	408	15.29	1.460	3.468%	0.004	81%	0.092	37	19.20	4.916	2.962%	0.008	57%	0.147	
	75-150 fm	Sept.-Oct.	125	12.15	1.834	2.689%	0.004	67%	0.098	42	8.98	1.619	1.595%	0.003	70%	0.156	
		Nov.-Dec.	18	33.42	23.921	3.661%	0.030	95%	0.808	11	18.44	12.273	2.394%	0.016	77%	0.509	
		Jan.-Feb.	29	31.97	9.715	3.539%	0.020	99%	0.393	27	23.46	13.057	2.162%	0.012	55%	0.317	
		Mar.-Apr.	142	16.80	3.511	4.160%	0.009	79%	0.181	145	60.49	15.626	8.537%	0.023	84%	0.266	
		May-June	86	11.46	2.540	2.386%	0.006	65%	0.148	12	5.88	2.690	0.758%	0.004	81%	0.393	
		July-Aug.	89	36.44	6.995	5.915%	0.012	69%	0.158								
	>=150 fm	Sept.-Oct.	110	0.16	0.111	0.075%	0.001	45%	0.226	155	0.00		0.000%				
		Nov.-Dec.	23	1.39	0.498	0.201%	0.001	100%	0.477	113	0.42	0.218	0.126%	0.001	36%	0.120	
		Jan.-Feb.	315	0.63	0.128	0.143%	0.000	84%	0.234	173	0.37	0.099	0.094%	0.000	63%	0.198	
		Mar.-Apr.	317	0.30	0.138	0.075%	0.000	83%	0.443	300	0.05	0.032	0.011%	0.000	90%	0.630	
		May-June	77	0.05	0.033	0.018%	0.000	23%	0.132	302	0.21	0.138	0.060%	0.000	96%	0.782	
		July-Aug.	20	0.07	0.069	0.016%	0.000	1%	0.014	195	0.40	0.171	0.092%	0.000	75%	0.359	
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	2.28	0.690	0.757%	0.003	36%	0.094								
		Nov.-Dec.	4	9.08	6.253	0.967%	0.007	100%	0.844								
		Jan.-Feb.	40	4.70	3.716	0.627%	0.005	64%	0.454	8	0.65	0.450	3.198%	0.022	100%	0.848	
		Mar.-Apr.	29	6.41	1.969	1.020%	0.004	53%	0.159	31	6.24	1.396	1.938%	0.006	48%	0.112	
		May-June	3	1.02	1.018	2.538%	0.025	22%	0.224	60	14.51	3.720	4.747%	0.013	72%	0.205	
		July-Aug.								73	3.61	1.900	1.611%	0.009	74%	0.420	
	75-150 fm	Sept.-Oct.	60	9.53	3.869	2.707%	0.011	68%	0.261								
		Nov.-Dec.	14	84.69	39.596	16.731%	0.085	100%	0.606	3	10.44	10.440	8.832%	0.088	100%	1.000	
		Jan.-Feb.	18	10.58	4.133	2.157%	0.009	67%	0.252								
		Mar.-Apr.	8	60.05	38.492	11.089%	0.073	62%	0.456								
		May-June	13	5.97	2.275	1.668%	0.006	45%	0.114								
		July-Aug.	1	2.27		1.181%		100%									
	>=150 fm	Sept.-Oct.	15	2.63	1.033	0.503%	0.002	52%	0.210	72	0.42	0.410	0.091%	0.001	100%	0.999	
		Nov.-Dec.	9	147.86	56.272	30.457%	0.116	100%	0.485	69	6.29	3.540	1.569%	0.009	100%	0.727	
		Jan.-Feb.	67	1.24	0.338	0.350%	0.001	96%	0.338	64	2.81	1.191	0.466%	0.002	94%	0.502	
		Mar.-Apr.	76	3.26	1.574	0.586%	0.003	99%	0.623	50	0.00		0.000%				
		May-June	57	0.11	0.048	0.015%	0.000	100%	0.581	74	0.00		0.000%				
		July-Aug.	171	0.22	0.158	0.058%	0.000	100%	0.872	63	0.04	0.034	0.007%	0.000	11%	0.040	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Pacific hake																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	110.87	27.524	43.502%	0.117	100%	0.335	197	84.55	17.244	11.684%	0.026	100%	0.281	
		Nov.-Dec.	73	200.50	81.593	88.100%	0.357	100%	0.544	62	48.17	12.771	8.827%	0.025	100%	0.359	
		Jan.-Feb.	8	0.00		0.000%				4	1.67	1.454	0.239%	0.002	100%	0.969	
		Mar.-Apr.	144	27.53	12.135	7.558%	0.034	100%	0.591	179	111.78	24.409	19.005%	0.043	87%	0.238	
		May-June	470	196.57	20.908	41.551%	0.053	100%	0.145	67	177.13	39.923	34.649%	0.080	100%	0.312	
		July-Aug.	408	152.40	17.729	34.575%	0.042	95%	0.146	37	286.06	103.856	44.140%	0.169	100%	0.487	
	75-150 fm	Sept.-Oct.	125	264.79	42.142	58.580%	0.101	100%	0.220	42	50.38	11.752	8.945%	0.022	100%	1.000	
		Nov.-Dec.	18	180.35	118.959	19.761%	0.153	100%	1.000	11	232.57	129.589	30.185%	0.174	100%	0.708	
		Jan.-Feb.	29	13.31	8.647	1.473%	0.011	100%	0.813	27	0.58	0.581	0.054%	0.001	100%	1.000	
		Mar.-Apr.	142	8.75	3.252	2.166%	0.008	100%	0.505	145	221.22	59.450	31.222%	0.086	88%	0.837	
		May-June	86	16.02	4.884	3.334%	0.010	100%	0.327	12	406.83	260.246	52.407%	0.343	99%	0.782	
		July-Aug.	89	29.97	6.239	4.864%	0.011	74%	0.189								
	>=150 fm	Sept.-Oct.	110	28.56	6.865	13.227%	0.033	100%	0.329	155	4.38	0.952	1.998%	0.004	100%	0.300	
		Nov.-Dec.	23	86.36	27.472	12.475%	0.041	100%	0.425	113	41.66	7.912	12.552%	0.025	100%	0.250	
		Jan.-Feb.	315	23.43	4.438	5.291%	0.010	100%	0.261	173	15.28	3.787	3.930%	0.010	89%	0.273	
		Mar.-Apr.	317	9.20	2.366	2.318%	0.006	100%	0.356	300	9.43	2.214	1.883%	0.004	100%	0.324	
		May-June	77	3.72	1.213	1.293%	0.004	100%	0.440	302	4.01	0.663	1.165%	0.002	100%	0.228	
		July-Aug.	20	2.78	0.794	0.643%	0.002	100%	0.358	195	36.16	7.672	8.427%	0.018	100%	0.293	
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.75	0.505	0.248%	0.002	100%	0.839								
		Nov.-Dec.	4	8.83	8.834	0.941%	0.009	100%	1.000								
		Jan.-Feb.	40	0.83	0.438	0.111%	0.001	100%	0.685	8	0.00		0.000%				
		Mar.-Apr.	29	20.09	9.316	3.197%	0.016	100%	0.614	31	0.20	0.119	0.063%	0.000	7%	0.065	
		May-June	3	7.84	6.132	19.546%	0.133	100%	0.834	60	35.60	13.129	11.651%	0.045	100%	0.501	
		July-Aug.								73	9.21	4.177	4.107%	0.019	100%	0.605	
	75-150 fm	Sept.-Oct.	60	24.34	5.626	6.913%	0.017	99%	0.313								
		Nov.-Dec.	14	46.70	15.186	9.225%	0.036	100%	0.414	3	4.95	3.336	4.190%	0.021	100%	0.584	
		Jan.-Feb.	18	26.33	7.964	5.370%	0.017	100%	0.391								
		Mar.-Apr.	8	52.82	15.024	9.753%	0.033	100%	0.357								
		May-June	13	364.24	232.277	101.719%	0.648	100%	0.794								
		July-Aug.	1	1.33		0.695%		100%									
	>=150 fm	Sept.-Oct.	15	171.28	124.310	32.754%	0.249	100%	0.878	72	19.82	4.702	4.293%	0.011	100%	0.322	
		Nov.-Dec.	9	130.37	29.107	26.854%	0.061	100%	0.238	69	55.47	15.425	13.835%	0.039	100%	0.374	
		Jan.-Feb.	67	11.49	2.775	3.243%	0.009	100%	0.325	64	37.29	9.717	6.179%	0.017	100%	0.350	
		Mar.-Apr.	76	23.59	4.757	4.246%	0.010	100%	0.267	50	9.02	5.066	2.066%	0.012	100%	0.726	
		May-June	57	12.37	8.483	1.717%	0.012	100%	0.845	74	2.71	1.503	0.527%	0.003	100%	0.720	
		July-Aug.	171	5.27	1.061	1.379%	0.003	100%	1.000	63	22.12	8.804	3.826%	0.015	100%	0.533	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

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Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Pacific Halibut																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	8.34	3.690	3.271%	0.015	100%	0.590	197	13.90	3.249	1.921%	0.005	100%	0.322	
		Nov.-Dec.	73	3.14	0.887	1.380%	0.004	100%	0.379	62	2.89	1.091	0.530%	0.002	100%	0.509	
		Jan.-Feb.	8	1.91	1.906	1.037%	0.010	100%	1.000	4	2.77	1.653	0.397%	0.003	100%	0.753	
		Mar.-Apr.	144	16.29	2.161	4.470%	0.006	100%	0.183	179	18.21	2.802	3.096%	0.005	100%	0.208	
		May-June	470	24.64	2.600	5.209%	0.007	100%	0.143	67	5.11	1.447	0.999%	0.003	100%	0.391	
		July-Aug.	408	9.73	0.899	2.206%	0.002	100%	0.126	37	11.28	3.418	1.740%	0.006	100%	0.407	
	75-150 fm	Sept.-Oct.	125	10.45	1.702	2.311%	0.004	100%	0.225	42	3.09	1.038	0.549%	0.002	100%	0.452	
		Nov.-Dec.	18	2.13	1.376	0.234%	0.002	100%	0.802	11	6.54	2.332	0.849%	0.003	100%	0.447	
		Jan.-Feb.	29	14.41	4.118	1.595%	0.009	100%	0.377	27	8.10	1.858	0.747%	0.002	100%	0.313	
		Mar.-Apr.	142	14.99	2.152	3.712%	0.006	100%	0.194	145	41.71	5.941	5.887%	0.009	100%	0.193	
		May-June	86	12.65	2.510	2.632%	0.006	100%	0.266	12	5.39	3.351	0.694%	0.004	100%	0.784	
		July-Aug.	89	25.91	7.273	4.206%	0.012	100%	0.381								
	>=150 fm	Sept.-Oct.	110	16.31	10.677	7.554%	0.050	100%	0.820	155	0.00		0.000%				
		Nov.-Dec.	23	68.83	21.321	9.943%	0.032	100%	0.413	113	17.99	3.403	5.421%	0.011	100%	0.248	
		Jan.-Feb.	315	18.32	3.208	4.136%	0.007	100%	0.240	173	2.99	0.519	0.770%	0.001	100%	0.236	
		Mar.-Apr.	317	13.85	3.936	3.490%	0.010	100%	0.392	300	1.76	0.570	0.352%	0.001	100%	0.443	
		May-June	77	2.10	0.977	0.731%	0.003	100%	0.616	302	1.38	0.817	0.399%	0.002	100%	0.761	
		July-Aug.	20	0.64	0.503	0.147%	0.001	100%	0.926	195	2.58	0.731	0.601%	0.002	100%	0.390	
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%				8	0.00		0.000%				
		Mar.-Apr.	29	0.00		0.000%				31	0.00		0.000%				
		May-June	3	0.00		0.000%				60	0.19	0.186	0.061%	0.001	100%	1.000	
		July-Aug.								73	0.00		0.000%				
	75-150 fm	Sept.-Oct.	60	0.00		0.000%											
		Nov.-Dec.	14	0.00		0.000%				3	0.00		0.000%				
		Jan.-Feb.	18	0.59	0.587	0.120%	0.001	100%	1.000								
		Mar.-Apr.	8	1.85	1.848	0.341%	0.003	100%	1.000								
		May-June	13	0.00		0.000%											
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	0.00		0.000%				72	0.00		0.000%				
		Nov.-Dec.	9	0.00		0.000%				69	0.00		0.000%				
		Jan.-Feb.	67	0.00		0.000%				64	0.00		0.000%				
		Mar.-Apr.	76	0.11	0.109	0.020%	0.000	100%	1.000	50	0.00		0.000%				
		May-June	57	0.00		0.000%				74	0.00		0.000%				
		July-Aug.	171	0.07	0.056	0.017%	0.000	100%	0.961	63	0.00		0.000%				

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.
NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Petrale sole																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	9.38	5.734	3.680%	0.023	17%	0.030	197	13.78	2.936	1.904%	0.004	24%	0.038	
		Nov.-Dec.	73	1.21	0.320	0.533%	0.001	4%	0.006	62	1.27	0.435	0.233%	0.001	4%	0.007	
		Jan.-Feb.	8	1.25	1.076	0.681%	0.006	16%	0.068	4	1.95	1.290	0.280%	0.002	4%	0.021	
		Mar.-Apr.	144	12.48	2.052	3.427%	0.006	15%	0.011	179	18.21	4.779	3.095%	0.008	14%	0.013	
		May-June	470	20.71	2.448	4.378%	0.006	18%	0.011	67	1.81	0.567	0.354%	0.001	1%	0.001	
		July-Aug.	408	10.46	1.400	2.374%	0.003	16%	0.010	37	16.52	7.285	2.549%	0.012	11%	0.016	
	75-150 fm	Sept.-Oct.	125	6.43	2.471	1.423%	0.006	21%	0.032	42	7.84	3.023	1.393%	0.005	17%	0.028	
		Nov.-Dec.	18	2.59	1.191	0.284%	0.002	36%	0.108	11	14.91	7.415	1.935%	0.010	30%	0.095	
		Jan.-Feb.	29	12.94	10.115	1.432%	0.012	36%	0.146	27	1.29	0.497	0.119%	0.000	9%	0.021	
		Mar.-Apr.	142	6.79	0.985	1.680%	0.003	10%	0.013	145	11.13	3.653	1.571%	0.005	7%	0.006	
		May-June	86	10.20	5.079	2.122%	0.011	42%	0.139	12	17.59	14.523	2.265%	0.019	38%	0.193	
		July-Aug.	89	4.51	1.323	0.732%	0.002	11%	0.032								
	>=150 fm	Sept.-Oct.	110	0.00		0.000%		0%		155	0.00		0.000%		0%		
		Nov.-Dec.	23	2.34	1.312	0.338%	0.002	0%	0.000	113	0.18	0.090	0.054%	0.000	0%	0.001	
		Jan.-Feb.	315	0.66	0.150	0.149%	0.000	1%	0.001	173	0.31	0.113	0.079%	0.000	0%	0.000	
		Mar.-Apr.	317	0.04	0.013	0.009%	0.000	2%	0.005	300	0.04	0.029	0.007%	0.000	1%	0.003	
		May-June	77	0.00	0.005	0.002%	0.000	17%	0.083	302	0.01	0.011	0.004%	0.000	39%	0.262	
		July-Aug.	20	0.00		0.000%		0%		195	0.02	0.018	0.005%	0.000	3%	0.008	
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.60	0.260	0.199%	0.001	1%	0.002								
		Nov.-Dec.	4	0.88	0.883	0.094%	0.001	3%	0.010								
		Jan.-Feb.	40	2.77	2.396	0.369%	0.003	17%	0.057	8	0.01	0.008	0.042%	0.000	100%	1.000	
		Mar.-Apr.	29	0.57	0.379	0.091%	0.001	5%	0.010	31	1.00	0.432	0.310%	0.001	1%	0.004	
		May-June	3	0.00		0.000%		0%		60	9.48	3.015	3.101%	0.010	6%	0.010	
		July-Aug.								73	0.68	0.176	0.301%	0.001	2%	0.004	
	75-150 fm	Sept.-Oct.	60	3.04	2.488	0.864%	0.007	2%	0.002								
		Nov.-Dec.	14	4.83	1.728	0.955%	0.004	5%	0.014	3	0.00		0.000%		0%		
		Jan.-Feb.	18	1.17	0.646	0.238%	0.001	3%	0.006								
		Mar.-Apr.	8	0.87	0.539	0.161%	0.001	7%	0.016								
		May-June	13	0.46	0.221	0.130%	0.001	2%	0.005								
		July-Aug.	1	3.43		1.789%		2%									
	>=150 fm	Sept.-Oct.	15	0.00		0.000%		0%		72	0.16	0.153	0.035%	0.000	16%	0.057	
		Nov.-Dec.	9	0.75	0.749	0.154%	0.002	1%	0.002	69	0.07	0.033	0.017%	0.000	0%	0.000	
		Jan.-Feb.	67	0.09	0.062	0.026%	0.000	1%	0.004	64	0.09	0.052	0.015%	0.000	1%	0.003	
		Mar.-Apr.	76	0.09	0.050	0.016%	0.000	4%	0.026	50	0.00		0.000%		0%		
		May-June	57	0.00		0.000%		0%		74	0.00		0.000%				
		July-Aug.	171	0.02	0.010	0.004%	0.000	2%	0.012	63	0.00		0.000%		0%		

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.
 NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Rockfish - Nearshore species other than Black																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	0.00		0.000%	0.000			197	0.01	0.008	0.001%	0.000	100%	1.000	
		Nov.-Dec.	73	0.28	0.243	0.124%	0.001	100%	0.966	62	0.06	0.028	0.011%	0.000	100%	0.652	
		Jan.-Feb.	8	0.00		0.000%		0%		4	0.00		0.000%				
		Mar.-Apr.	144	0.00		0.000%				179	0.00		0.000%				
		May-June	470	0.00	0.000	0.000%	0.000	100%	1.000	67	0.00		0.000%				
		July-Aug.	408	0.00		0.000%				37	0.06	0.044	0.009%	0.000	100%	0.882	
	75-150 fm	Sept.-Oct.	125	0.04	0.038	0.008%	0.000	100%	1.000	42	0.00	0.003	0.001%	0.000	100%	1.000	
		Nov.-Dec.	18	0.00		0.000%				11	0.00		0.000%				
		Jan.-Feb.	29	0.15	0.122	0.017%	0.000	100%	0.940	27	0.01	0.006	0.001%	0.000	100%	1.000	
		Mar.-Apr.	142	0.00		0.000%				145	0.01	0.010	0.001%	0.000	100%	1.000	
		May-June	86	0.00		0.000%				12	0.73	0.732	0.094%	0.001	100%	1.000	
		July-Aug.	89	0.00		0.000%											
	>=150 fm	Sept.-Oct.	110	0.00		0.000%				155	0.00		0.000%				
		Nov.-Dec.	23	0.00		0.000%				113	0.00		0.000%				
		Jan.-Feb.	315	0.00		0.000%				173	0.00		0.000%				
		Mar.-Apr.	317	0.00		0.000%				300	0.00		0.000%				
		May-June	77	0.00		0.000%				302	0.00	0.001	0.000%	0.000	100%	0.894	
		July-Aug.	20	0.00		0.000%				195	0.00		0.000%				
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.94	0.673	0.100%	0.001	100%	0.866								
		Jan.-Feb.	40	0.00		0.000%		0%		8	0.00		0.000%				
		Mar.-Apr.	29	0.08	0.052	0.012%	0.000	100%	0.848	31	0.17	0.114	0.052%	0.000	100%	0.841	
		May-June	3	0.00		0.000%				60	0.00	0.001	0.000%	0.000	100%	1.000	
		July-Aug.								73	0.02	0.008	0.007%	0.000	3%	0.020	
	75-150 fm	Sept.-Oct.	60	0.60	0.429	0.171%	0.001	100%	0.869								
		Nov.-Dec.	14	92.59	54.139	18.292%	0.112	100%	0.742	3	0.49	0.455	0.418%	0.004	100%	0.974	
		Jan.-Feb.	18	1.45	1.072	0.297%	0.002	100%	0.887								
		Mar.-Apr.	8	7.83	6.992	1.447%	0.013	100%	0.978								
		May-June	13	10.73	8.760	2.996%	0.024	100%	0.941								
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	0.01	0.007	0.001%	0.000	100%	1.000	72	0.00		0.000%				
		Nov.-Dec.	9	0.00		0.000%				69	0.00		0.000%				
		Jan.-Feb.	67	0.01	0.008	0.002%	0.000	23%	0.146	64	0.00		0.000%				
		Mar.-Apr.	76	0.00		0.000%				50	0.00		0.000%				
		May-June	57	0.00		0.000%				74	0.00		0.000%				
		July-Aug.	171	0.00		0.000%				63	0.00		0.000%				

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.
NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Rockfish - Shelf species not listed individually																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	1.81	1.122	0.710%	0.004	100%	0.786	197	0.72	0.345	0.100%	0.000	94%	0.565	
		Nov.-Dec.	73	0.17	0.089	0.077%	0.000	100%	0.670	62	1.92	1.126	0.352%	0.002	100%	0.751	
		Jan.-Feb.	8	0.00		0.000%				4	0.00		0.000%				
		Mar.-Apr.	144	0.18	0.046	0.048%	0.000	100%	0.357	179	1.07	0.509	0.183%	0.001	100%	0.629	
		May-June	470	0.65	0.251	0.137%	0.001	99%	0.519	67	1.02	0.381	0.200%	0.001	100%	0.508	
		July-Aug.	408	2.82	2.279	0.641%	0.005	100%	0.937	37	3.03	1.932	0.467%	0.003	100%	0.803	
	75-150 fm	Sept.-Oct.	125	15.13	4.648	3.348%	0.010	100%	0.422	42	10.95	4.591	1.944%	0.008	100%	0.560	
		Nov.-Dec.	18	0.69	0.485	0.076%	0.001	100%	0.851	11	7.33	4.700	0.951%	0.006	100%	0.797	
		Jan.-Feb.	29	49.72	22.257	5.504%	0.035	100%	0.591	27	6.02	4.432	0.555%	0.004	90%	0.748	
		Mar.-Apr.	142	14.25	4.930	3.528%	0.012	100%	0.472	145	66.51	13.829	9.386%	0.020	100%	0.286	
		May-June	86	4.97	1.476	1.035%	0.003	57%	0.203	12	21.56	11.194	2.778%	0.015	100%	0.674	
		July-Aug.	89	14.28	9.433	2.318%	0.015	95%	0.776								
	>=150 fm	Sept.-Oct.	110	0.26	0.136	0.119%	0.001	100%	0.694	155	0.00		0.000%				
		Nov.-Dec.	23	0.00		0.000%				113	1.27	0.480	0.384%	0.001	100%	0.508	
		Jan.-Feb.	315	0.29	0.089	0.065%	0.000	100%	0.422	173	0.11	0.052	0.029%	0.000	100%	0.623	
		Mar.-Apr.	317	0.13	0.057	0.032%	0.000	100%	0.591	300	0.06	0.026	0.012%	0.000	100%	0.568	
		May-June	77	0.19	0.123	0.067%	0.000	85%	0.620	302	0.14	0.060	0.039%	0.000	100%	0.594	
		July-Aug.	20	0.06	0.055	0.013%	0.000	100%	1.000	195	1.25	0.415	0.290%	0.001	87%	0.351	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.21	0.132	0.071%	0.000	4%	0.018								
		Nov.-Dec.	4	7.77	7.774	0.828%	0.008	47%	0.472								
		Jan.-Feb.	40	9.68	4.378	1.291%	0.006	94%	0.533	8	0.00		0.000%				
		Mar.-Apr.	29	22.09	21.578	3.514%	0.034	87%	0.828	31	1.92	1.186	0.596%	0.004	60%	0.380	
		May-June	3	0.39	0.394	0.984%	0.010	100%	1.000	60	2.26	1.385	0.738%	0.005	84%	0.580	
		July-Aug.								73	0.20	0.082	0.091%	0.000	20%	0.127	
	75-150 fm	Sept.-Oct.	60	8.36	2.313	2.374%	0.007	20%	0.051								
		Nov.-Dec.	14	192.21	70.821	37.971%	0.160	79%	0.311	3	4.39	4.357	3.710%	0.037	100%	1.000	
		Jan.-Feb.	18	273.72	116.576	55.828%	0.243	63%	0.255								
		Mar.-Apr.	8	120.75	80.118	22.298%	0.151	28%	0.081								
		May-June	13	66.33	39.843	18.523%	0.111	50%	0.226								
		July-Aug.	1	0.60		0.313%		100%									
	>=150 fm	Sept.-Oct.	15	11.44	10.193	2.187%	0.020	75%	0.666	72	1.35	1.218	0.293%	0.003	100%	0.982	
		Nov.-Dec.	9	3.49	2.601	0.719%	0.005	58%	0.323	69	2.52	1.457	0.627%	0.004	100%	0.744	
		Jan.-Feb.	67	0.92	0.567	0.259%	0.002	18%	0.115	64	0.06	0.030	0.011%	0.000	100%	0.627	
		Mar.-Apr.	76	15.52	14.392	2.794%	0.026	99%	0.980	50	0.00		0.000%				
		May-June	57	0.10	0.031	0.013%	0.000	10%	0.051	74	0.00		0.000%				
		July-Aug.	171	0.36	0.359	0.095%	0.001	100%	1.000	63	0.01	0.008	0.003%	0.000	60%	0.309	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Rockfish - Slope species other than Darkblotched and POP																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	0.10	0.071	0.040%	0.000	100%	0.855	197	0.21	0.164	0.029%	0.000	100%	0.916	
		Nov.-Dec.	73	0.00		0.000%				62	0.03	0.031	0.006%	0.000	100%	1.000	
		Jan.-Feb.	8	0.00		0.000%				4	0.00		0.000%				
		Mar.-Apr.	144	0.01	0.004	0.001%	0.000	100%	0.871	179	0.00		0.000%				
		May-June	470	0.06	0.043	0.012%	0.000	100%	0.895	67	0.00		0.000%				
		July-Aug.	408	0.15	0.133	0.033%	0.000	100%	0.987	37	0.00		0.000%				
	75-150 fm	Sept.-Oct.	125	19.43	9.866	4.299%	0.022	100%	0.669	42	0.81	0.540	0.143%	0.001	100%	0.833	
		Nov.-Dec.	18	5.04	3.799	0.552%	0.005	100%	0.897	11	0.00		0.000%				
		Jan.-Feb.	29	35.23	17.202	3.900%	0.026	100%	0.640	27	23.78	23.708	2.191%	0.022	100%	1.000	
		Mar.-Apr.	142	5.96	1.960	1.475%	0.005	99%	0.441	145	4.71	2.775	0.665%	0.004	100%	0.756	
		May-June	86	17.95	6.137	3.736%	0.013	100%	0.461	12	10.26	10.256	1.321%	0.013	97%	0.971	
		July-Aug.	89	15.81	7.905	2.566%	0.013	100%	0.658								
	>=150 fm	Sept.-Oct.	110	1.33	0.463	0.618%	0.002	100%	0.471	155	0.02	0.022	0.010%	0.000	100%	1.000	
		Nov.-Dec.	23	0.53	0.528	0.076%	0.001	100%	1.000	113	9.31	3.028	2.804%	0.009	100%	0.440	
		Jan.-Feb.	315	3.10	1.122	0.700%	0.003	100%	0.493	173	2.42	0.810	0.623%	0.002	91%	0.387	
		Mar.-Apr.	317	1.20	0.522	0.303%	0.001	100%	0.583	300	1.77	1.310	0.354%	0.003	100%	0.890	
		May-June	77	2.94	1.659	1.020%	0.006	99%	0.715	302	3.26	1.591	0.945%	0.005	100%	0.648	
		July-Aug.	20	4.78	4.766	1.106%	0.011	100%	1.000	195	8.54	3.270	1.991%	0.008	100%	0.520	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	2.48	2.452	0.331%	0.003	94%	0.933	8	0.00		0.000%				
		Mar.-Apr.	29	0.21	0.188	0.033%	0.000	0%	0.001	31	0.00		0.000%		0%		
		May-June	3	0.00		0.000%				60	0.00		0.000%				
		July-Aug.								73	0.00		0.000%				
	75-150 fm	Sept.-Oct.	60	0.91	0.298	0.258%	0.001	91%	0.371								
		Nov.-Dec.	14	0.25	0.253	0.050%	0.000	100%	1.000	3	0.35	0.284	0.299%	0.002	100%	0.847	
		Jan.-Feb.	18	18.16	6.616	3.703%	0.014	98%	0.460								
		Mar.-Apr.	8	21.30	16.393	3.933%	0.031	35%	0.257								
		May-June	13	1.07	0.581	0.300%	0.002	10%	0.070								
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	36.70	34.163	7.018%	0.066	89%	0.843	72	1.18	0.410	0.256%	0.001	7%	0.025	
		Nov.-Dec.	9	8.57	3.456	1.766%	0.007	4%	0.011	69	36.78	15.353	9.172%	0.038	81%	0.384	
		Jan.-Feb.	67	6.29	3.159	1.775%	0.009	14%	0.042	64	22.45	11.385	3.720%	0.019	29%	0.088	
		Mar.-Apr.	76	27.74	7.547	4.994%	0.014	36%	0.126	50	0.98	0.600	0.225%	0.001	9%	0.043	
		May-June	57	6.55	2.446	0.908%	0.004	5%	0.023	74	0.47	0.238	0.092%	0.000	11%	0.045	
		July-Aug.	171	0.53	0.500	0.139%	0.001	8%	0.047	63	0.55	0.305	0.095%	0.001	7%	0.024	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.
NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Roundfish, other than Sablefish or hake																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	0.09	0.052	0.036%	0.000	1%	0.003	197	31.31	13.590	4.326%	0.019	15%	0.051	
		Nov.-Dec.	73	5.51	2.144	2.423%	0.009	29%	0.104	62	19.11	5.724	3.502%	0.011	21%	0.060	
		Jan.-Feb.	8	12.70	7.739	6.907%	0.043	18%	0.108	4	56.35	35.468	8.072%	0.060	14%	0.111	
		Mar.-Apr.	144	5.39	2.857	1.478%	0.008	9%	0.020	179	4.11	1.173	0.698%	0.002	4%	0.006	
		May-June	470	0.98	0.296	0.208%	0.001	3%	0.005	67	0.03	0.026	0.006%	0.000	1%	0.002	
		July-Aug.	408	2.87	0.979	0.651%	0.002	4%	0.007	37	1.43	0.795	0.221%	0.001	1%	0.005	
	75-150 fm	Sept.-Oct.	125	4.22	1.561	0.935%	0.004	63%	0.222	42	0.44	0.308	0.078%	0.001	57%	0.372	
		Nov.-Dec.	18	8.52	4.256	0.934%	0.006	12%	0.052	11	0.00		0.000%				
		Jan.-Feb.	29	13.01	3.654	1.440%	0.008	2%	0.018	27	72.74	16.386	6.704%	0.016	13%	0.017	
		Mar.-Apr.	142	7.83	2.354	1.938%	0.006	44%	0.113	145	6.44	1.466	0.909%	0.002	4%	0.008	
		May-June	86	0.96	0.957	0.199%	0.002	18%	0.128	12	0.17	0.171	0.022%	0.000	1%	0.005	
		July-Aug.	89	0.44	0.166	0.072%	0.000	2%	0.006								
	>=150 fm	Sept.-Oct.	110	45.97	6.940	21.286%	0.034	82%	0.151	155	44.39	5.468	20.232%	0.026	78%	0.121	
		Nov.-Dec.	23	0.00		0.000%				113	37.34	8.337	11.249%	0.026	89%	0.248	
		Jan.-Feb.	315	18.52	3.008	4.183%	0.007	80%	0.159	173	17.96	4.844	4.618%	0.013	82%	0.275	
		Mar.-Apr.	317	29.53	3.326	7.439%	0.009	80%	0.117	300	24.50	3.356	4.893%	0.007	72%	0.123	
		May-June	77	35.22	9.956	12.235%	0.037	85%	0.304	302	21.13	5.241	6.131%	0.015	76%	0.211	
		July-Aug.	20	17.90	11.114	4.142%	0.026	100%	0.781	195	20.30	3.783	4.730%	0.009	66%	0.153	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.17	0.122	0.055%	0.000	100%	0.890								
		Nov.-Dec.	4	0.60	0.527	0.064%	0.001	100%	0.970								
		Jan.-Feb.	40	0.20	0.107	0.027%	0.000	100%	0.681	8	0.13	0.126	0.626%	0.006	100%	1.000	
		Mar.-Apr.	29	0.00	0.003	0.000%	0.000	100%	1.000	31	0.06	0.036	0.019%	0.000	100%	0.753	
		May-June	3	0.04	0.038	0.095%	0.001	100%	1.000	60	0.37	0.358	0.123%	0.001	100%	0.996	
		July-Aug.								73	0.00		0.000%				
	75-150 fm	Sept.-Oct.	60	0.00		0.000%											
		Nov.-Dec.	14	0.00		0.000%				3	0.00		0.000%				
		Jan.-Feb.	18	0.00		0.000%											
		Mar.-Apr.	8	0.00		0.000%											
		May-June	13	0.00		0.000%											
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	37.06	25.710	7.086%	0.052	38%	0.299	72	29.79	6.616	6.452%	0.015	82%	0.213	
		Nov.-Dec.	9	0.24	0.243	0.050%	0.000	100%	1.000	69	43.00	17.397	10.723%	0.043	93%	0.473	
		Jan.-Feb.	67	13.15	4.358	3.712%	0.013	98%	0.431	64	21.98	7.108	3.642%	0.012	81%	0.321	
		Mar.-Apr.	76	63.99	18.911	11.518%	0.036	99%	0.390	50	16.47	3.778	3.773%	0.009	58%	0.172	
		May-June	57	20.76	9.412	2.881%	0.013	54%	0.273	74	5.38	0.905	1.047%	0.002	77%	0.159	
		July-Aug.	171	20.10	2.542	5.261%	0.007	84%	0.127	63	11.09	5.174	1.918%	0.009	98%	0.600	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Sablefish																	
	North of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	91	91.70	52.585	35.978%	0.209	99%	0.724	197	22.17	8.971	3.064%	0.013	49%	0.193	
		Nov.-Dec.	73	3.62	3.271	1.590%	0.014	100%	0.983	62	1.56	0.697	0.286%	0.001	43%	0.177	
		Jan.-Feb.	8	0.00		0.000%				4	0.00		0.000%				
		Mar.-Apr.	144	9.05	2.649	2.484%	0.007	43%	0.126	179	14.58	11.145	2.478%	0.019	95%	0.834	
		May-June	470	63.83	17.659	13.493%	0.038	82%	0.275	67	3.72	1.705	0.728%	0.003	99%	0.604	
		July-Aug.	408	174.12	30.633	39.502%	0.071	97%	0.231	37	96.56	36.706	14.899%	0.059	64%	0.232	
	75-150 fm	Sept.-Oct.	125	63.02	11.520	13.942%	0.027	39%	0.054	42	21.86	6.025	3.881%	0.011	45%	0.124	
		Nov.-Dec.	18	13.83	8.025	1.516%	0.011	100%	0.734	11	13.41	5.641	1.741%	0.008	38%	0.157	
		Jan.-Feb.	29	22.50	16.791	2.491%	0.020	57%	0.374	27	1.47	0.501	0.136%	0.000	84%	0.333	
		Mar.-Apr.	142	85.44	16.164	21.153%	0.043	72%	0.160	145	17.35	3.141	2.448%	0.005	55%	0.145	
		May-June	86	185.54	94.049	38.618%	0.198	87%	0.512	12	11.76	5.385	1.515%	0.007	6%	0.029	
		July-Aug.	89	147.80	40.499	23.991%	0.067	75%	0.211								
	>=150 fm	Sept.-Oct.	110	11.06	3.251	5.120%	0.015	17%	0.019	155	23.44	5.686	10.681%	0.026	41%	0.062	
		Nov.-Dec.	23	54.24	17.850	7.835%	0.027	100%	0.440	113	53.80	8.844	16.209%	0.029	68%	0.102	
		Jan.-Feb.	315	24.01	3.220	5.422%	0.008	36%	0.032	173	40.31	6.259	10.366%	0.017	52%	0.075	
		Mar.-Apr.	317	28.76	4.903	7.246%	0.013	37%	0.037	300	22.05	2.663	4.404%	0.006	24%	0.015	
		May-June	77	22.09	4.910	7.674%	0.019	31%	0.043	302	12.37	1.663	3.589%	0.005	16%	0.010	
		July-Aug.	20	39.79	15.159	9.207%	0.037	36%	0.076	195	23.74	3.042	5.533%	0.008	26%	0.024	
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.64	0.436	0.212%	0.001	48%	0.280								
		Nov.-Dec.	4	6.89	6.890	0.734%	0.007	100%	1.000								
		Jan.-Feb.	40	10.48	3.888	1.398%	0.006	82%	0.348	8	0.00		0.000%				
		Mar.-Apr.	29	21.38	15.031	3.401%	0.024	45%	0.363	31	5.29	3.614	1.645%	0.011	97%	0.800	
		May-June	3	0.05	0.051	0.127%	0.001	100%	1.000	60	5.45	1.605	1.783%	0.006	83%	0.298	
		July-Aug.								73	11.76	3.618	5.240%	0.017	94%	0.378	
	75-150 fm	Sept.-Oct.	60	18.44	5.291	5.239%	0.015	82%	0.267								
		Nov.-Dec.	14	75.17	25.585	14.851%	0.059	100%	0.436	3	9.19	8.611	7.772%	0.071	98%	0.958	
		Jan.-Feb.	18	157.05	108.933	32.031%	0.223	78%	0.601								
		Mar.-Apr.	8	29.97	13.144	5.533%	0.026	74%	0.355								
		May-June	13	61.94	40.528	17.298%	0.113	62%	0.440								
		July-Aug.	1	2.80		1.459%		50%									
	>=150 fm	Sept.-Oct.	15	113.42	70.784	21.689%	0.146	83%	0.575	72	26.98	12.598	5.843%	0.028	40%	0.108	
		Nov.-Dec.	9	340.67	132.871	70.171%	0.275	100%	0.499	69	21.54	5.322	5.373%	0.013	42%	0.078	
		Jan.-Feb.	67	37.22	9.863	10.505%	0.031	57%	0.132	64	19.11	3.995	3.166%	0.007	28%	0.041	
		Mar.-Apr.	76	50.11	13.930	9.018%	0.027	50%	0.101	50	7.65	1.539	1.753%	0.004	11%	0.011	
		May-June	57	17.75	10.880	2.463%	0.015	28%	0.077	74	8.54	2.143	1.662%	0.004	9%	0.011	
		July-Aug.	171	19.38	2.379	5.071%	0.007	32%	0.029	63	23.94	8.627	4.141%	0.015	24%	0.047	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Salmon species																	
North of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	91	0.57	0.184	0.222%	0.001	100%	0.440	197	1.16	0.237	0.160%	0.000	100%	0.281
			Nov.-Dec.	73	1.16	0.350	0.509%	0.002	100%	0.407	62	1.97	0.601	0.361%	0.001	100%	0.413
			Jan.-Feb.	8	0.78	0.776	0.422%	0.004	100%	1.000	4	4.53	2.904	0.649%	0.005	100%	0.798
			Mar.-Apr.	144	1.38	0.695	0.378%	0.002	100%	0.666	179	3.53	1.351	0.600%	0.002	100%	0.518
			May-June	470	0.08	0.028	0.018%	0.000	100%	0.455	67	0.16	0.129	0.031%	0.000	100%	0.942
			July-Aug.	408	0.58	0.164	0.132%	0.000	100%	0.392	37	0.51	0.441	0.079%	0.001	100%	0.965
		75-150 fm	Sept.-Oct.	125	0.16	0.084	0.036%	0.000	94%	0.612	42	0.13	0.091	0.022%	0.000	100%	0.873
			Nov.-Dec.	18	2.49	2.091	0.273%	0.002	100%	0.954	11	9.10	5.637	1.181%	0.007	100%	0.775
			Jan.-Feb.	29	4.73	1.123	0.523%	0.003	100%	0.307	27	1.16	0.380	0.107%	0.000	100%	0.447
			Mar.-Apr.	142	3.01	1.597	0.746%	0.004	100%	0.694	145	12.94	4.215	1.826%	0.006	100%	0.445
			May-June	86	0.02	0.018	0.004%	0.000	100%	1.000	12	2.60	1.758	0.335%	0.002	100%	0.835
			July-Aug.	89	0.00		0.000%										
		>=150 fm	Sept.-Oct.	110	0.00		0.000%				155	0.00		0.000%			
			Nov.-Dec.	23	0.27	0.266	0.038%	0.000	100%	1.000	113	0.01	0.015	0.004%	0.000	100%	1.000
			Jan.-Feb.	315	0.52	0.151	0.118%	0.000	100%	0.395	173	2.88	1.189	0.742%	0.003	100%	0.555
			Mar.-Apr.	317	0.84	0.525	0.211%	0.001	100%	0.794	300	0.00	0.001	0.000%	0.000	100%	1.000
			May-June	77	0.00		0.000%				302	0.00		0.000%			
			July-Aug.	20	0.00		0.000%				195	0.00		0.000%			
South of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	42	0.17	0.086	0.057%	0.000	100%	0.658							
			Nov.-Dec.	4	0.00		0.000%										
			Jan.-Feb.	40	0.42	0.231	0.056%	0.000	75%	0.419	8	0.06	0.059	0.292%	0.003	100%	1.000
			Mar.-Apr.	29	0.38	0.266	0.060%	0.000	100%	0.863	31	0.16	0.155	0.048%	0.000	100%	1.000
			May-June	3	0.61	0.611	1.523%	0.015	100%	1.000	60	0.22	0.090	0.071%	0.000	100%	0.555
			July-Aug.								73	0.40	0.175	0.178%	0.001	100%	0.588
		75-150 fm	Sept.-Oct.	60	0.07	0.052	0.021%	0.000	100%	0.869							
			Nov.-Dec.	14	0.91	0.496	0.179%	0.001	100%	0.700	3	0.00		0.000%			
			Jan.-Feb.	18	1.13	0.812	0.230%	0.002	100%	0.873							
			Mar.-Apr.	8	0.22	0.219	0.040%	0.000	100%	1.000							
			May-June	13	0.04	0.044	0.012%	0.000	100%	1.000							
			July-Aug.	1	1.27		0.660%		100%								
		>=150 fm	Sept.-Oct.	15	0.00		0.000%				72	0.00		0.000%			
			Nov.-Dec.	9	0.00		0.000%				69	0.00		0.000%			
			Jan.-Feb.	67	0.02	0.020	0.006%	0.000	100%	1.000	64	0.00		0.000%			
			Mar.-Apr.	76	0.00		0.000%				50	0.00		0.000%			
			May-June	57	0.00		0.000%				74	0.02	0.016	0.003%	0.000	100%	1.000
			July-Aug.	171	0.02	0.013	0.004%	0.000	100%	0.948	63	0.00		0.000%			

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

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Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Thornyheads - Longspine																	
North of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	91	0.00		0.000%		0%		197	0.00		0.000%		0%	
			Nov.-Dec.	73	0.00		0.000%				62	0.00		0.000%			
			Jan.-Feb.	8	0.00		0.000%				4	0.00		0.000%			
			Mar.-Apr.	144	0.00		0.000%		0%		179	0.00		0.000%			
			May-June	470	0.00		0.000%		0%		67	0.00		0.000%			
			July-Aug.	408	0.00		0.000%		0%		37	0.00		0.000%			
		75-150 fm	Sept.-Oct.	125	0.00		0.000%		0%		42	0.00		0.000%		0%	
			Nov.-Dec.	18	0.00		0.000%				11	0.00		0.000%			
			Jan.-Feb.	29	0.00		0.000%				27	0.00		0.000%			
			Mar.-Apr.	142	0.13	0.106	0.033%	0.000	48%	0.261	145	0.01	0.013	0.002%	0.000	100%	0.990
			May-June	86	0.15	0.134	0.032%	0.000	43%	0.239	12	0.00		0.000%			
			July-Aug.	89	0.00		0.000%		0%					0.000%			
		>=150 fm	Sept.-Oct.	110	11.20	2.718	5.188%	0.013	22%	0.033	155	8.39	1.061	3.825%	0.005	10%	0.008
			Nov.-Dec.	23	0.14	0.119	0.020%	0.000	100%	0.962	113	8.23	2.048	2.478%	0.006	12%	0.018
			Jan.-Feb.	315	3.23	0.568	0.730%	0.001	8%	0.010	173	4.60	1.662	1.183%	0.004	23%	0.048
			Mar.-Apr.	317	9.68	1.438	2.439%	0.004	12%	0.010	300	10.33	2.080	2.064%	0.004	13%	0.013
			May-June	77	7.86	2.568	2.730%	0.009	9%	0.017	302	2.35	0.555	0.683%	0.002	4%	0.003
			July-Aug.	20	4.39	2.676	1.016%	0.006	8%	0.035	195	5.16	1.503	1.202%	0.004	9%	0.012
South of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	42	0.00		0.000%							0.000%			
			Nov.-Dec.	4	0.00		0.000%				8	0.00		0.000%			
			Jan.-Feb.	40	0.00		0.000%				31	0.00		0.000%			
			Mar.-Apr.	29	0.00		0.000%				60	0.00		0.000%			
			May-June	3	0.00		0.000%				73	0.00		0.000%		0%	
		75-150 fm	Sept.-Oct.	60	0.00		0.000%							0.000%			
			Nov.-Dec.	14	0.00		0.000%				3	0.00		0.000%			
			Jan.-Feb.	18	0.00		0.000%							0.000%			
			Mar.-Apr.	8	0.05	0.047	0.009%	0.000	100%	1.000				0%			
			May-June	13	0.00		0.000%							0.000%			
			July-Aug.	1	0.00		0.000%							0.000%			
		>=150 fm	Sept.-Oct.	15	7.45	4.441	1.425%	0.009	9%	0.063	72	6.24	2.280	1.352%	0.005	6%	0.009
			Nov.-Dec.	9	0.00		0.000%				69	21.30	6.383	5.311%	0.016	20%	0.038
			Jan.-Feb.	67	5.41	1.964	1.526%	0.006	8%	0.012	64	3.72	1.521	0.617%	0.003	9%	0.019
			Mar.-Apr.	76	14.39	4.085	2.591%	0.008	15%	0.029	50	1.52	0.405	0.348%	0.001	2%	0.005
			May-June	57	6.21	3.283	0.861%	0.005	5%	0.010	74	5.97	1.424	1.162%	0.003	4%	0.004
			July-Aug.	171	10.03	2.222	2.624%	0.006	12%	0.013	63	5.97	1.831	1.032%	0.003	6%	0.011

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Thornyheads - Shortspine																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	0.12	0.093	0.046%	0.000	9%	0.067	197	0.00	0.000%		0%			
		Nov.-Dec.	73	0.00		0.000%				62	0.00	0.000%					
		Jan.-Feb.	8	0.00		0.000%				4	0.00	0.000%					
		Mar.-Apr.	144	0.00	0.001	0.000%	0.000	0%	0.001	179	0.00	0.000%		0%			
		May-June	470	0.02	0.016	0.005%	0.000	11%	0.073	67	0.00	0.000%		0%			
		July-Aug.	408	0.03	0.027	0.006%	0.000	13%	0.046	37	0.03	0.031	0.005%	0.000	6%	0.032	
	75-150 fm	Sept.-Oct.	125	14.30	3.817	3.163%	0.009	69%	0.180	42	0.02	0.010	0.003%	0.000	1%	0.002	
		Nov.-Dec.	18	0.00		0.000%				11	0.00		0.000%		0%		
		Jan.-Feb.	29	3.14	1.472	0.348%	0.002	22%	0.115	27	0.00		0.000%				
		Mar.-Apr.	142	2.25	0.953	0.558%	0.002	31%	0.105	145	0.01	0.004	0.001%	0.000	3%	0.016	
		May-June	86	2.22	1.170	0.461%	0.002	65%	0.325	12	0.00		0.000%				
		July-Aug.	89	12.38	6.517	2.009%	0.011	46%	0.182								
	>=150 fm	Sept.-Oct.	110	5.67	1.162	2.626%	0.006	38%	0.052	155	1.07	0.312	0.488%	0.001	5%	0.004	
		Nov.-Dec.	23	0.86	0.285	0.124%	0.000	100%	0.444	113	5.10	1.169	1.538%	0.004	19%	0.022	
		Jan.-Feb.	315	4.52	0.864	1.021%	0.002	27%	0.028	173	3.42	1.144	0.880%	0.003	23%	0.035	
		Mar.-Apr.	317	5.24	1.093	1.321%	0.003	23%	0.020	300	1.95	0.337	0.390%	0.001	8%	0.007	
		May-June	77	2.39	0.906	0.829%	0.003	9%	0.015	302	4.60	0.761	1.333%	0.002	20%	0.016	
		July-Aug.	20	4.39	3.746	1.016%	0.009	12%	0.033	195	13.88	2.211	3.234%	0.005	48%	0.058	
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%				8	0.00		0.000%				
		Mar.-Apr.	29	0.00		0.000%				31	0.00		0.000%				
		May-June	3	0.00		0.000%				60	0.00		0.000%				
		July-Aug.								73	0.00		0.000%		0%		
	75-150 fm	Sept.-Oct.	60	0.25	0.074	0.071%	0.000	99%	0.396								
		Nov.-Dec.	14	0.00		0.000%				3	0.00		0.000%				
		Jan.-Feb.	18	1.40	1.031	0.286%	0.002	96%	0.831								
		Mar.-Apr.	8	0.00		0.000%											
		May-June	13	0.67	0.495	0.187%	0.001	5%	0.030								
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	1.79	0.833	0.343%	0.002	9%	0.052	72	7.11	3.023	1.540%	0.007	18%	0.030	
		Nov.-Dec.	9	17.99	9.547	3.705%	0.020	100%	0.679	69	3.81	1.103	0.951%	0.003	13%	0.023	
		Jan.-Feb.	67	16.76	4.265	4.730%	0.014	42%	0.070	64	12.08	3.148	2.001%	0.005	20%	0.033	
		Mar.-Apr.	76	18.01	4.919	3.242%	0.009	42%	0.090	50	1.49	0.573	0.341%	0.001	3%	0.005	
		May-June	57	0.59	0.237	0.082%	0.000	2%	0.003	74	4.61	1.591	0.897%	0.003	15%	0.016	
		July-Aug.	171	2.95	0.574	0.771%	0.002	12%	0.012	63	2.77	0.938	0.479%	0.002	9%	0.012	

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)								
			Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		
				lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.	
																	Period
Thornyheads - Unidentified																	
North of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	91	0.00		0.000%										
			Nov.-Dec.	73	0.00		0.000%										
			Jan.-Feb.	8	0.00		0.000%										
			Mar.-Apr.	144	0.00		0.000%										
			May-June	470	0.00		0.000%										
			July-Aug.	408	0.00		0.000%										
		75-150 fm	Sept.-Oct.	125	0.04	0.041	0.009%	0.000	5%	0.034	42	0.00		0.000%			
			Nov.-Dec.	18	2.07	2.071	0.227%	0.002	100%	1.000	11	0.00		0.000%			
			Jan.-Feb.	29	0.00		0.000%			27	0.45	0.450	0.041%	0.000	100%	1.000	
			Mar.-Apr.	142	0.01	0.008	0.002%	0.000	0%	0.002	145	0.00		0.000%			
			May-June	86	0.76	0.445	0.157%	0.001	31%	0.128	12	0.00		0.000%			
			July-Aug.	89	0.00		0.000%		0%								
		>=150 fm	Sept.-Oct.	110	7.13	2.086	3.303%	0.010	30%	0.069	155	16.22	1.941	7.392%	0.009	100%	0.163
			Nov.-Dec.	23	0.00		0.000%			113	19.89	5.078	5.994%	0.016	70%	0.249	
			Jan.-Feb.	315	7.37	1.325	1.665%	0.003	51%	0.118	173	7.69	1.528	1.976%	0.004	77%	0.209
			Mar.-Apr.	317	13.92	2.107	3.506%	0.006	68%	0.118	300	15.60	1.915	3.116%	0.004	88%	0.140
			May-June	77	17.39	3.999	6.043%	0.015	98%	0.293	302	23.36	2.383	6.779%	0.007	100%	0.137
			July-Aug.	20	35.29	27.418	8.168%	0.064	67%	0.463	195	23.42	3.948	5.458%	0.010	71%	0.170
South of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	42	0.00		0.000%										
			Nov.-Dec.	4	0.00		0.000%										
			Jan.-Feb.	40	0.00		0.000%			8	0.00		0.000%				
			Mar.-Apr.	29	0.00		0.000%			31	0.00		0.000%				
			May-June	3	0.00		0.000%			60	0.00		0.000%				
			July-Aug.							73	0.00		0.000%				
		75-150 fm	Sept.-Oct.	60	0.00		0.000%										
			Nov.-Dec.	14	0.00		0.000%			3	0.00		0.000%				
			Jan.-Feb.	18	0.00		0.000%										
			Mar.-Apr.	8	0.00		0.000%										
			May-June	13	1.37	1.367	0.382%	0.004	100%	1.000							
			July-Aug.	1	0.00		0.000%										
		>=150 fm	Sept.-Oct.	15	0.00		0.000%			72	4.33	1.424	0.937%	0.003	23%	0.084	
			Nov.-Dec.	9	4.77	4.467	0.982%	0.009	100%	0.992	69	12.76	5.339	3.181%	0.013	100%	0.559
			Jan.-Feb.	67	20.62	6.442	5.818%	0.020	100%	0.423	64	7.42	3.243	1.229%	0.005	37%	0.158
			Mar.-Apr.	76	35.40	13.542	6.372%	0.025	100%	0.515	50	14.21	3.504	3.257%	0.009	43%	0.157
			May-June	57	22.12	11.572	3.070%	0.016	49%	0.207	74	13.48	2.985	2.624%	0.006	100%	0.300
			July-Aug.	171	3.11	0.926	0.813%	0.002	67%	0.212	63	3.03	1.790	0.523%	0.003	72%	0.425

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Widow Rockfish																	
		North of 40°10' N. lat. (near Cape Mendocino)															
	0-75 fm	Sept.-Oct.	91	0.00		0.000%		0%	197	0.11	0.080	0.016%	0.000	100%	0.864		
		Nov.-Dec.	73	0.00		0.000%			62	0.19	0.121	0.034%	0.000	100%	0.814		
		Jan.-Feb.	8	0.00		0.000%			4	0.00		0.000%					
		Mar.-Apr.	144	0.03	0.028	0.009%	0.000	18% 0.063	179	0.01	0.011	0.002%	0.000	23%	0.100		
		May-June	470	0.09	0.087	0.020%	0.000	10% 0.078	67	0.00		0.000%					
		July-Aug.	408	0.00		0.000%		0%	37	0.00		0.000%					
	75-150 fm	Sept.-Oct.	125	0.06	0.024	0.013%	0.000	14% 0.031	42	0.00		0.000%		0%			
		Nov.-Dec.	18	0.02	0.022	0.002%	0.000	0% 0.000	11	0.55	0.367	0.071%	0.000	100%	0.825		
		Jan.-Feb.	29	0.54	0.283	0.060%	0.000	100% 0.678	27	1.81	1.806	0.166%	0.002	100%	1.000		
		Mar.-Apr.	142	0.29	0.210	0.073%	0.001	34% 0.150	145	0.01	0.010	0.001%	0.000	38%	0.218		
		May-June	86	0.09	0.057	0.018%	0.000	13% 0.077	12	0.00		0.000%					
		July-Aug.	89	0.08	0.082	0.013%	0.000	44% 0.311									
	>=150 fm	Sept.-Oct.	110	0.00		0.000%		0%	155	0.00		0.000%		0%			
		Nov.-Dec.	23	0.29	0.166	0.043%	0.000	100% 0.725	113	0.25	0.154	0.076%	0.000	100%	0.775		
		Jan.-Feb.	315	0.05	0.020	0.010%	0.000	100% 0.572	173	0.01	0.009	0.004%	0.000	100%	0.759		
		Mar.-Apr.	317	0.03	0.028	0.008%	0.000	78% 0.682	300	0.10	0.099	0.020%	0.000	39%	0.254		
		May-June	77	0.00		0.000%		0%	302	0.03	0.030	0.009%	0.000	100%	1.000		
		July-Aug.	20	0.00		0.000%		0%	195	0.01	0.008	0.002%	0.000	100%	1.000		
	South of 40°10' N. lat. (near Cape Mendocino)																
	0-75 fm	Sept.-Oct.	42	0.00		0.000%		0%									
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%			8	0.00		0.000%					
		Mar.-Apr.	29	0.00		0.000%			31	0.00		0.000%					
		May-June	3	0.00		0.000%			60	0.00		0.000%					
		July-Aug.							73	0.00		0.000%					
	75-150 fm	Sept.-Oct.	60	0.00		0.000%		0%									
		Nov.-Dec.	14	0.24	0.166	0.047%	0.000	86% 0.659	3	0.00		0.000%					
		Jan.-Feb.	18	0.00		0.000%		0%									
		Mar.-Apr.	8	1.24	1.245	0.230%	0.002	93% 0.924									
		May-June	13	0.01	0.008	0.002%	0.000	0% 0.005									
		July-Aug.	1	0.47		0.243%		100%									
	>=150 fm	Sept.-Oct.	15	0.00		0.000%		0%	72	0.00		0.000%					
		Nov.-Dec.	9	0.00		0.000%		0%	69	0.00		0.000%					
		Jan.-Feb.	67	0.01	0.008	0.003%	0.000	100% 0.863	64	0.00		0.000%					
		Mar.-Apr.	76	0.24	0.128	0.043%	0.000	100% 0.689	50	0.00		0.000%					
		May-June	57	0.00		0.000%			74	0.00		0.000%					
		July-Aug.	171	0.02	0.009	0.004%	0.000	100% 0.779	63	0.00		0.000%					

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)					September 1, 2002 to August 31, 2003 (2nd program year)								
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Yelloweye Rockfish																	
North of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	91	0.00		0.000%			197	0.05	0.030	0.007%	0.000	95%	0.675		
		Nov.-Dec.	73	0.00		0.000%			62	0.04	0.038	0.007%	0.000	100%	1.000		
		Jan.-Feb.	8	0.00		0.000%			4	0.00		0.000%					
		Mar.-Apr.	144	0.00		0.000%		0%	179	0.09	0.080	0.015%	0.000	72%	0.581		
		May-June	470	0.01	0.005	0.002%	0.000	49% 0.241	67	0.00		0.000%					
		July-Aug.	408	0.00		0.000%		0%	37	0.00		0.000%		0%			
	75-150 fm	Sept.-Oct.	125	0.00		0.000%			42	0.00		0.000%		0%			
		Nov.-Dec.	18	0.00		0.000%			11	0.00		0.000%					
		Jan.-Feb.	29	2.20	2.113	0.244%	0.002	100% 0.997	27	0.00		0.000%					
		Mar.-Apr.	142	0.00		0.000%		0%	145	0.01	0.009	0.001%	0.000	39%	0.273		
		May-June	86	0.00	0.003	0.001%	0.000	8% 0.041	12	0.00		0.000%					
		July-Aug.	89	0.00		0.000%		0%									
	>=150 fm	Sept.-Oct.	110	0.00		0.000%			155	0.00		0.000%					
		Nov.-Dec.	23	0.00		0.000%			113	0.00		0.000%					
		Jan.-Feb.	315	0.00	0.003	0.001%	0.000	100% 0.873	173	0.00		0.000%					
		Mar.-Apr.	317	0.00		0.000%			300	0.00	0.002	0.000%	0.000	100%	1.000		
		May-June	77	0.00		0.000%			302	0.00		0.000%					
		July-Aug.	20	0.00		0.000%			195	0.00		0.000%					
South of 40°10' N. lat. (near Cape Mendocino)																	
	0-75 fm	Sept.-Oct.	42	0.00		0.000%											
		Nov.-Dec.	4	0.00		0.000%											
		Jan.-Feb.	40	0.00		0.000%			8	0.00		0.000%					
		Mar.-Apr.	29	0.00		0.000%			31	0.00		0.000%					
		May-June	3	0.00		0.000%			60	0.00		0.000%					
		July-Aug.							73	0.19	0.152	0.085%	0.001	100%	0.931		
	75-150 fm	Sept.-Oct.	60	0.00		0.000%											
		Nov.-Dec.	14	0.00		0.000%			3	0.00		0.000%					
		Jan.-Feb.	18	0.00		0.000%											
		Mar.-Apr.	8	0.00		0.000%											
		May-June	13	0.00		0.000%											
		July-Aug.	1	0.00		0.000%											
	>=150 fm	Sept.-Oct.	15	0.00		0.000%			72	0.00		0.000%					
		Nov.-Dec.	9	0.00		0.000%			69	0.00		0.000%					
		Jan.-Feb.	67	0.00		0.000%			64	0.00		0.000%					
		Mar.-Apr.	76	0.06	0.057	0.010%	0.000	100% 1.000	50	0.00		0.000%					
		May-June	57	0.00		0.000%			74	0.00		0.000%					
		July-Aug.	171	0.00		0.000%			63	0.00		0.000%					

Table 6 (cont.). Ratio estimators and standard errors (s.e.) for the discarded pounds of 29 selected species or species groups, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

NOTE: RESULTS FOR CATEGORIES WITH FEWER THAN 10 TOWS SHOULD BE TREATED VERY CAUTIOUSLY.

Species	Area	Depth group	Period	September 1, 2001 to August 31, 2002 (1st program year)						September 1, 2002 to August 31, 2003 (2nd program year)							
				Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species		Number of tows	Discarded lbs per hour		Discarded lbs per lb of retained groundfish		Discard rate of each species	
					lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.		lb/hr	s.e.	ratio	s.e.	discard / catch	s.e.
Yellowtail Rockfish																	
North of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	91	0.11	0.096	0.042%	0.000	5%	0.020	197	0.60	0.535	0.083%	0.001	5%	0.028
			Nov.-Dec.	73	1.01	0.916	0.443%	0.004	32%	0.151	62	0.01	0.014	0.003%	0.000	1%	0.002
			Jan.-Feb.	8	30.31	24.348	16.493%	0.134	98%	0.900	4	0.30	0.194	0.043%	0.000	1%	0.008
			Mar.-Apr.	144	0.00		0.000%		0%		179	0.02	0.013	0.003%	0.000	0%	0.001
			May-June	470	4.63	3.160	0.980%	0.007	15%	0.047	67	0.00		0.000%		0%	
			July-Aug.	408	0.09	0.041	0.020%	0.000	3%	0.010	37	0.00		0.000%		0%	
		75-150 fm	Sept.-Oct.	125	0.78	0.494	0.172%	0.001	7%	0.046	42	0.00		0.000%		0%	
			Nov.-Dec.	18	170.67	134.688	18.700%	0.160	30%	0.269	11	0.00		0.000%		0%	
			Jan.-Feb.	29	76.93	35.775	8.516%	0.055	100%	0.613	27	0.02	0.020	0.002%	0.000	0%	0.000
			Mar.-Apr.	142	3.49	1.644	0.863%	0.004	35%	0.135	145	0.14	0.073	0.020%	0.000	0%	0.002
			May-June	86	4.36	4.257	0.907%	0.009	14%	0.095	12	0.10	0.100	0.013%	0.000	2%	0.013
			July-Aug.	89	0.01	0.011	0.002%	0.000	0%	0.000							
		>=150 fm	Sept.-Oct.	110	0.00		0.000%				155	0.00		0.000%		0%	
			Nov.-Dec.	23	0.00		0.000%				113	0.00		0.000%		0%	
			Jan.-Feb.	315	0.01	0.005	0.002%	0.000	100%	0.720	173	0.00		0.000%		0%	
			Mar.-Apr.	317	0.00	0.003	0.001%	0.000	46%	0.321	300	0.02	0.019	0.004%	0.000	100%	0.997
			May-June	77	0.00		0.000%		0%		302	0.04	0.044	0.013%	0.000	100%	1.000
			July-Aug.	20	0.00		0.000%		0%		195	0.08	0.059	0.018%	0.000	100%	0.917
South of 40°10' N. lat. (near Cape Mendocino)																	
		0-75 fm	Sept.-Oct.	42	0.00		0.000%										
			Nov.-Dec.	4	0.00		0.000%										
			Jan.-Feb.	40	0.02	0.021	0.003%	0.000	5%	0.027	8	0.00		0.000%		100%	0.797
			Mar.-Apr.	29	0.00		0.000%				31	0.08	0.049	0.024%	0.000		
			May-June	3	0.00		0.000%				60	0.00		0.000%			
			July-Aug.								73	0.00		0.000%			
		75-150 fm	Sept.-Oct.	60	0.00		0.000%										
			Nov.-Dec.	14	0.00		0.000%				3	0.00		0.000%			
			Jan.-Feb.	18	0.00		0.000%										
			Mar.-Apr.	8	0.00		0.000%										
			May-June	13	0.00		0.000%										
			July-Aug.	1	0.00		0.000%										
		>=150 fm	Sept.-Oct.	15	0.00		0.000%				72	0.00		0.000%			
			Nov.-Dec.	9	0.00		0.000%				69	0.00		0.000%			
			Jan.-Feb.	67	0.00		0.000%		0%		64	0.00		0.000%			
			Mar.-Apr.	76	0.00		0.000%				50	0.00		0.000%			
			May-June	57	0.00		0.000%				74	0.00		0.000%			
			July-Aug.	171	0.00		0.000%				63	0.00		0.000%			

Table 7. Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001				2002				Entire first year					
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April				May-June		July-August	
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish			
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e		
A. Bocaccio														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.095%	0.0008	0.000%	0.0000	0.005%	0.0000	0.012%	0.0001
75 - 150 fm	0.182%	0.0018	0.000%	0.0000	0.151%	0.0011	0.031%	0.0001	0.008%	0.0001	0.028%	0.0002	0.076%	0.0005
>150 fm	0.000%	0.0000	0.000%	0.0000	0.020%	0.0001	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.008%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.464%	0.0034	3.124%	0.0312	0.284%	0.0010	1.041%	0.0063	2.018%	0.0202			0.686%	0.0028
75 - 150 fm	2.000%	0.0069	17.450%	0.0825	9.757%	0.0498	7.786%	0.0506	12.987%	0.0482	0.000%	0.0000	6.899%	0.0155
>150 fm	0.007%	0.0001	5.525%	0.0218	0.185%	0.0012	0.093%	0.0004	0.000%	0.0000	0.033%	0.0003	0.134%	0.0004
Coastwide														
< 75 fm	0.150%	0.0011	0.607%	0.0061	0.274%	0.0010	0.350%	0.0018	0.002%	0.0000	0.005%	0.0000	0.112%	0.0004
75 - 150 fm	0.722%	0.0024	6.012%	0.0337	4.075%	0.0233	0.555%	0.0036	1.674%	0.0073	0.028%	0.0002	1.397%	0.0032
>150 fm	0.001%	0.0000	1.255%	0.0058	0.043%	0.0002	0.020%	0.0001	0.000%	0.0000	0.030%	0.0003	0.051%	0.0002
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000
75 - 150 fm	0.000%	0.0000	0.008%	0.0001	0.025%	0.0002	0.007%	0.0000	0.000%	0.0000	0.000%	0.0000	0.009%	0.0001
>150 fm	0.000%	0.0000	0.171%	0.0010	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.014%	0.0001
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.667%	0.0061	0.028%	0.0002	0.021%	0.0002	0.200%	0.0017
75 - 150 fm			0.509%	0.0051									0.509%	0.0051
>150 fm	0.087%	0.0009	0.965%	0.0057	0.119%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.163%	0.0008
Coastwide														
< 75 fm	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.075%	0.0007	0.013%	0.0001	0.009%	0.0001	0.028%	0.0002
75 - 150 fm	0.000%	0.0000	0.048%	0.0004	0.025%	0.0002	0.007%	0.0000	0.000%	0.0000			0.012%	0.0001
>150 fm	0.040%	0.0004	0.464%	0.0022	0.042%	0.0002	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.055%	0.0002

Table 7 (cont.). Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001				2002				Entire first year					
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April				May-June		July-August	
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish			
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e		
B. Canary Rockfish														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.446%	0.0018	0.773%	0.0022	1.332%	0.0090	0.822%	0.0022	0.480%	0.0014	0.667%	0.0020	0.601%	0.0010
75 - 150 fm	0.635%	0.0014	0.743%	0.0046	2.720%	0.0152	1.375%	0.0023	0.795%	0.0019	0.728%	0.0019	1.005%	0.0011
>150 fm	0.003%	0.0000	0.000%	0.0000	0.007%	0.0000	0.018%	0.0001	0.000%	0.0000	0.138%	0.0006	0.013%	0.0001
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.347%	0.0026	0.000%	0.0312	0.049%	0.0005	0.051%	0.0005	0.079%	0.0008			0.101%	0.0006
75 - 150 fm	0.142%	0.0007	0.000%	0.0825	0.193%	0.0011	0.758%	0.0076	0.892%	0.0046	2.189%	0.0000	0.267%	0.0009
>150 fm	0.000%	0.0001	0.000%	0.0218	0.000%	0.0012	0.023%	0.0002	0.001%	0.0000	0.006%	0.0001	0.007%	0.0001
Coastwide														
< 75 fm	0.414%	0.0015	0.623%	0.0019	0.092%	0.0006	0.614%	0.0016	0.480%	0.0014	0.667%	0.0020	0.527%	0.0009
75 - 150 fm	0.489%	0.0010	0.487%	0.0024	1.688%	0.0068	1.334%	0.0022	0.807%	0.0018	0.735%	0.0019	0.863%	0.0009
>150 fm	0.002%	0.0000	0.000%	0.0058	0.006%	0.0000	0.019%	0.0001	0.000%	0.0000	0.017%	0.0001	0.011%	0.0000
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.454%	0.0021	0.588%	0.0015	2.187%	0.0219	0.291%	0.0006	0.019%	0.0001	0.106%	0.0004	0.369%	0.0009
75 - 150 fm	0.796%	0.0022	3.323%	0.0249	1.014%	0.0016	1.314%	0.0025	1.815%	0.0154			1.349%	0.0024
>150 fm	0.000%	0.0000	0.000%	0.0010	0.017%	0.0001	0.004%	0.0000	0.005%	0.0000	0.010%	0.0001	0.006%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.005%	0.0001	0.000%	0.0002	0.000%	0.0002	0.001%	0.0000
75 - 150 fm			0.021%	0.0002									0.021%	0.0002
>150 fm	0.000%	0.0009	0.000%	0.0057	0.000%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0008
Coastwide														
< 75 fm	0.454%	0.0021	0.588%	0.0015	1.983%	0.0198	0.259%	0.0006	0.010%	0.0001	0.061%	0.0002	0.317%	0.0008
75 - 150 fm	0.796%	0.0022	3.065%	0.0231	1.014%	0.0016	1.314%	0.0025	1.815%	0.0154			1.341%	0.0024
>150 fm	0.000%	0.0004	0.000%	0.0022	0.011%	0.0000	0.003%	0.0000	0.003%	0.0000	0.007%	0.0000	0.004%	0.0000
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.454%	0.0021	0.588%	0.0015	2.187%	0.0219	0.291%	0.0006	0.019%	0.0001	0.106%	0.0004	0.369%	0.0009
75 - 150 fm	0.796%	0.0022	3.323%	0.0249	1.014%	0.0016	1.314%	0.0025	1.815%	0.0154			1.349%	0.0024
>150 fm	0.000%	0.0000	0.000%	0.0010	0.017%	0.0001	0.004%	0.0000	0.005%	0.0000	0.010%	0.0001	0.006%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.005%	0.0001	0.000%	0.0002	0.000%	0.0002	0.001%	0.0000
75 - 150 fm			0.021%	0.0002									0.021%	0.0002
>150 fm	0.000%	0.0009	0.000%	0.0057	0.000%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0008
Coastwide														
< 75 fm	0.454%	0.0021	0.588%	0.0015	1.983%	0.0198	0.259%	0.0006	0.010%	0.0001	0.061%	0.0002	0.317%	0.0008
75 - 150 fm	0.796%	0.0022	3.065%	0.0231	1.014%	0.0016	1.314%	0.0025	1.815%	0.0154			1.341%	0.0024
>150 fm	0.000%	0.0004	0.000%	0.0022	0.011%	0.0000	0.003%	0.0000	0.003%	0.0000	0.007%	0.0000	0.004%	0.0000

Table 7 (cont.). Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001				2002				Entire first year					
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April				May-June		July-August	
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish			
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e		
C. Cowcod Rockfish														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0018	0.000%	0.0022	0.000%	0.0090	0.000%	0.0022	0.000%	0.0014	0.000%	0.0020	0.000%	0.0010
75 - 150 fm	0.002%	0.0000	0.000%	0.0046	0.000%	0.0152	0.000%	0.0023	0.000%	0.0019	0.000%	0.0019	0.001%	0.0000
>150 fm	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0001	0.000%	0.0000	0.000%	0.0006	0.000%	0.0001
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0026	0.000%	0.0312	0.000%	0.0005	0.041%	0.0003	0.000%	0.0008			0.009%	0.0001
75 - 150 fm	0.009%	0.0000	0.596%	0.0032	0.457%	0.0042	1.960%	0.0189	0.963%	0.0043	0.000%	0.0000	0.408%	0.0017
>150 fm	0.002%	0.0000	0.247%	0.0025	0.012%	0.0001	0.023%	0.0002	0.002%	0.0000	0.000%	0.0001	0.010%	0.0001
Coastwide														
< 75 fm	0.000%	0.0015	0.000%	0.0019	0.000%	0.0006	0.011%	0.0001	0.000%	0.0014	0.000%	0.0020	0.001%	0.0000
75 - 150 fm	0.004%	0.0000	0.206%	0.0013	0.187%	0.0017	0.132%	0.0013	0.124%	0.0006	0.000%	0.0019	0.079%	0.0003
>150 fm	0.000%	0.0000	0.056%	0.0006	0.002%	0.0000	0.005%	0.0000	0.002%	0.0000	0.000%	0.0001	0.004%	0.0000
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0021	0.000%	0.0015	0.000%	0.0219	0.000%	0.0006	0.000%	0.0001	0.000%	0.0004	0.000%	0.0009
75 - 150 fm	0.000%	0.0022	0.000%	0.0249	0.000%	0.0016	0.000%	0.0025	0.000%	0.0154			0.000%	0.0024
>150 fm	0.000%	0.0000	0.000%	0.0010	0.000%	0.0001	0.000%	0.0000	0.000%	0.0000	0.000%	0.0001	0.000%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.064%	0.0005	0.004%	0.0000	0.001%	0.0000	0.019%	0.0001
75 - 150 fm			2.918%	0.0292									2.918%	0.0292
>150 fm	0.000%	0.0009	0.000%	0.0057	0.000%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0008
Coastwide														
< 75 fm	0.000%	0.0021	0.000%	0.0015	0.000%	0.0198	0.007%	0.0001	0.002%	0.0000	0.001%	0.0000	0.003%	0.0000
75 - 150 fm	0.000%	0.0022	0.228%	0.0023	0.000%	0.0016	0.000%	0.0025	0.000%	0.0154			0.018%	0.0002
>150 fm	0.000%	0.0004	0.000%	0.0022	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0021	0.000%	0.0015	0.000%	0.0219	0.000%	0.0006	0.000%	0.0001	0.000%	0.0004	0.000%	0.0009
75 - 150 fm	0.000%	0.0022	0.000%	0.0249	0.000%	0.0016	0.000%	0.0025	0.000%	0.0154			0.000%	0.0024
>150 fm	0.000%	0.0000	0.000%	0.0010	0.000%	0.0001	0.000%	0.0000	0.000%	0.0000	0.000%	0.0001	0.000%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.064%	0.0005	0.004%	0.0000	0.001%	0.0000	0.019%	0.0001
75 - 150 fm			2.918%	0.0292									2.918%	0.0292
>150 fm	0.000%	0.0009	0.000%	0.0057	0.000%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0008
Coastwide														
< 75 fm	0.000%	0.0021	0.000%	0.0015	0.000%	0.0198	0.007%	0.0001	0.002%	0.0000	0.001%	0.0000	0.003%	0.0000
75 - 150 fm	0.000%	0.0022	0.228%	0.0023	0.000%	0.0016	0.000%	0.0025	0.000%	0.0154			0.018%	0.0002
>150 fm	0.000%	0.0004	0.000%	0.0022	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000

Table 7 (cont.). Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001				2002				Entire first year					
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April				May-June		July-August	
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish			
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e		
D. Widow Rockfish														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.005%	0.0000	0.000%	0.0022	0.000%	0.0090	0.047%	0.0001	0.198%	0.0016	0.002%	0.0000	0.085%	0.0006
75 - 150 fm	0.090%	0.0002	41.984%	0.3719	0.060%	0.0004	0.213%	0.0008	0.139%	0.0008	0.030%	0.0002	2.340%	0.0187
>150 fm	0.012%	0.0001	0.043%	0.0002	0.010%	0.0000	0.010%	0.0001	0.002%	0.0000	0.007%	0.0001	0.011%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0026	0.012%	0.0001	0.000%	0.0005	0.000%	0.0003	0.000%	0.0008			0.001%	0.0000
75 - 150 fm	0.001%	0.0000	0.054%	0.0003	0.336%	0.0026	0.246%	0.0023	0.453%	0.0045	0.243%	0.0000	0.139%	0.0007
>150 fm	0.004%	0.0000	0.104%	0.0007	0.003%	0.0000	0.043%	0.0002	0.000%	0.0000	0.004%	0.0000	0.013%	0.0001
Coastwide														
< 75 fm	0.004%	0.0000	0.002%	0.0000	0.000%	0.0006	0.034%	0.0001	0.198%	0.0016	0.002%	0.0000	0.072%	0.0005
75 - 150 fm	0.064%	0.0001	27.537%	0.2363	0.173%	0.0011	0.215%	0.0008	0.179%	0.0009	0.031%	0.0002	1.914%	0.0151
>150 fm	0.011%	0.0001	0.057%	0.0002	0.009%	0.0000	0.017%	0.0001	0.001%	0.0000	0.004%	0.0000	0.011%	0.0000
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.016%	0.0001	0.034%	0.0002	0.000%	0.0219	0.008%	0.0000	0.000%	0.0001	0.000%	0.0004	0.012%	0.0001
75 - 150 fm	0.043%	0.0002	0.071%	0.0005	0.166%	0.0017	0.004%	0.0000	0.000%	0.0154			0.043%	0.0003
>150 fm	0.004%	0.0000	0.076%	0.0005	0.004%	0.0000	0.052%	0.0003	0.009%	0.0001	0.002%	0.0000	0.025%	0.0001
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.000%	0.0005	0.000%	0.0000	0.000%	0.0000	0.000%	0.0001
75 - 150 fm			0.000%	0.0292									0.000%	0.0292
>150 fm	0.000%	0.0009	0.000%	0.0057	0.000%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0008
Coastwide														
< 75 fm	0.016%	0.0001	0.034%	0.0002	0.000%	0.0198	0.007%	0.0000	0.000%	0.0000	0.000%	0.0000	0.011%	0.0000
75 - 150 fm	0.043%	0.0002	0.066%	0.0005	0.166%	0.0017	0.004%	0.0000	0.000%	0.0154			0.043%	0.0003
>150 fm	0.002%	0.0000	0.048%	0.0003	0.002%	0.0000	0.046%	0.0003	0.006%	0.0001	0.001%	0.0000	0.018%	0.0001

Table 7 (cont.). Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001				2002				Entire first year					
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April				May-June		July-August	
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish			
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e		
E. Yelloweye Rockfish														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0000	0.000%	0.0022	0.000%	0.0090	0.001%	0.0000	0.004%	0.0000	0.004%	0.0000	0.003%	0.0000
75 - 150 fm	0.000%	0.0002	0.000%	0.3719	0.244%	0.0024	0.007%	0.0000	0.009%	0.0000	0.007%	0.0000	0.021%	0.0002
>150 fm	0.000%	0.0001	0.000%	0.0002	0.001%	0.0000	0.000%	0.0001	0.000%	0.0000	0.000%	0.0001	0.000%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0026	0.000%	0.0001	0.000%	0.0005	0.000%	0.0003	0.000%	0.0008			0.000%	0.0000
75 - 150 fm	0.000%	0.0000	0.000%	0.0003	0.000%	0.0026	0.000%	0.0023	0.000%	0.0045	0.000%	0.0000	0.000%	0.0007
>150 fm	0.000%	0.0000	0.000%	0.0007	0.000%	0.0000	0.010%	0.0001	0.000%	0.0000	0.000%	0.0000	0.002%	0.0000
Coastwide														
< 75 fm	0.000%	0.0000	0.000%	0.0000	0.000%	0.0006	0.000%	0.0000	0.004%	0.0000	0.004%	0.0000	0.003%	0.0000
75 - 150 fm	0.000%	0.0001	0.000%	0.2363	0.144%	0.0014	0.006%	0.0000	0.008%	0.0000	0.007%	0.0000	0.017%	0.0001
>150 fm	0.000%	0.0001	0.000%	0.0002	0.001%	0.0000	0.002%	0.0000	0.000%	0.0000	0.000%	0.0000	0.001%	0.0000
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.008%	0.0000	0.007%	0.0001	0.000%	0.0219	0.021%	0.0001	0.000%	0.0001	0.014%	0.0000	0.012%	0.0001
75 - 150 fm	0.010%	0.0000	0.000%	0.0005	0.000%	0.0017	0.003%	0.0000	0.000%	0.0154			0.003%	0.0000
>150 fm	0.000%	0.0000	0.000%	0.0005	0.000%	0.0000	0.000%	0.0000	0.000%	0.0001	0.000%	0.0000	0.000%	0.0000
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.000%	0.0005	0.000%	0.0000	0.085%	0.0007	0.025%	0.0002
75 - 150 fm			0.000%	0.0292									0.000%	0.0292
>150 fm	0.000%	0.0009	0.000%	0.0057	0.000%	0.0006	0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0008
Coastwide														
< 75 fm	0.008%	0.0000	0.007%	0.0001	0.000%	0.0198	0.019%	0.0001	0.000%	0.0000	0.045%	0.0003	0.014%	0.0001
75 - 150 fm	0.010%	0.0000	0.000%	0.0005	0.000%	0.0017	0.003%	0.0000	0.000%	0.0154			0.003%	0.0000
>150 fm	0.000%	0.0000	0.000%	0.0003	0.000%	0.0000	0.000%	0.0000	0.000%	0.0001	0.000%	0.0000	0.000%	0.0000

Table 7 (cont.). Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001				2002				Entire first year					
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April		May-June		July-August		Entire first year	
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish	
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e
G. Pacific Ocean Perch														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0035	0.000%	0.0022	0.000%	0.0090	0.000%	0.0003	0.058%	0.0003	0.115%	0.0010	0.066%	0.0004
75 - 150 fm	1.717%	0.0091	0.020%	0.0002	4.212%	0.0340	3.301%	0.0160	11.989%	0.0515	2.221%	0.0116	4.050%	0.0106
>150 fm	1.473%	0.0051	0.323%	0.0010	1.577%	0.0041	0.643%	0.0025	1.127%	0.0067	0.172%	0.0017	1.086%	0.0020
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0026	0.000%	0.0001	0.000%	0.0005	0.000%	0.0003	0.000%	0.0008			0.000%	0.0000
75 - 150 fm	0.000%	0.0003	0.000%	0.0005	0.000%	0.0024	0.000%	0.0003	0.000%	0.0014	0.000%	0.0000	0.000%	0.0005
>150 fm	0.000%	0.0002	0.000%	0.0007	0.000%	0.0004	0.000%	0.0002	0.000%	0.0003	0.000%	0.0000	0.000%	0.0000
Coastwide														
< 75 fm	0.000%	0.0023	0.000%	0.0000	0.000%	0.0006	0.000%	0.0002	0.058%	0.0003	0.115%	0.0010	0.056%	0.0003
75 - 150 fm	1.207%	0.0064	0.013%	0.0001	2.491%	0.0189	3.078%	0.0149	10.450%	0.0447	2.210%	0.0116	3.266%	0.0085
>150 fm	1.228%	0.0043	0.250%	0.0008	1.356%	0.0035	0.510%	0.0020	0.405%	0.0024	0.015%	0.0001	0.713%	0.0013
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	0.000%	0.0003	0.003%	0.0000	0.025%	0.0003	0.001%	0.0000	0.000%	0.0014	0.000%	0.0026	0.001%	0.0000
75 - 150 fm	0.017%	0.0002	0.105%	0.0005	0.574%	0.0046	0.011%	0.0001	0.000%	0.0154			0.119%	0.0008
>150 fm	0.000%	0.0000	3.954%	0.0095	0.526%	0.0012	0.316%	0.0013	1.018%	0.0025	2.176%	0.0070	1.095%	0.0016
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					0.000%	0.0000	0.000%	0.0000	0.000%	0.0000	0.000%	0.0007	0.000%	0.0000
75 - 150 fm			0.000%	0.0292									0.000%	0.0292
>150 fm	0.000%	0.0000	0.000%	0.0026	0.000%	0.0001	0.000%	0.0000	0.000%	0.0000	0.000%	0.0028	0.000%	0.0005
Coastwide														
< 75 fm	0.000%	0.0003	0.003%	0.0000	0.023%	0.0002	0.000%	0.0000	0.000%	0.0007	0.000%	0.0015	0.001%	0.0000
75 - 150 fm	0.017%	0.0002	0.097%	0.0005	0.574%	0.0046	0.011%	0.0001	0.000%	0.0154			0.118%	0.0008
>150 fm	0.000%	0.0000	2.494%	0.0059	0.341%	0.0008	0.276%	0.0011	0.742%	0.0018	1.648%	0.0053	0.797%	0.0012

Table 7 (cont.). Ratio estimators and standard errors (s.e.) for the total bycatch of eight overfished species per pound of total retained groundfish, by area, observer-program year, depth, and 2-month period. Standard errors cannot be calculated where there is only one tow in a category.

Area / Depth group	2001						2002						Entire first year	
	Sept.-Oct.		Nov.-Dec.		Jan.-Feb.		March-April		May-June		July-August			
	Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish		Species catch per lb of retained groundfish	
	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e	percent	s.e
H. Lingcod														
Data collected from September 1, 2001 to August 31, 2002														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	3.083%	0.0076	4.216%	0.0089	3.185%	0.0138	2.402%	0.0068	3.759%	0.0069	4.262%	0.0041	3.783%	0.0033
75 - 150 fm	4.020%	0.0052	3.844%	0.0309	3.581%	0.0203	5.266%	0.0098	3.675%	0.0077	8.619%	0.0183	5.037%	0.0053
>150 fm	0.164%	0.0007	0.201%	0.0007	0.171%	0.0004	0.091%	0.0004	0.076%	0.0004	1.069%	0.0103	0.149%	0.0003
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	2.085%	0.0062	0.967%	0.0075	0.978%	0.0059	1.915%	0.0063	11.328%	0.1133			1.405%	0.0038
75 - 150 fm	3.979%	0.0114	16.731%	0.0847	3.216%	0.0103	17.918%	0.1249	3.670%	0.0085	1.181%	0.0000	6.285%	0.0146
>150 fm	0.967%	0.0046	30.457%	0.1163	0.365%	0.0011	0.594%	0.0029	0.015%	0.0001	0.058%	0.0004	0.664%	0.0022
Coastwide														
< 75 fm	2.761%	0.0055	3.584%	0.0082	1.052%	0.0058	2.270%	0.0053	3.765%	0.0069	4.262%	0.0041	3.429%	0.0029
75 - 150 fm	4.008%	0.0050	8.285%	0.0428	3.432%	0.0125	6.121%	0.0126	3.675%	0.0068	8.584%	0.0183	5.278%	0.0051
>150 fm	0.298%	0.0009	7.076%	0.0313	0.199%	0.0004	0.195%	0.0007	0.037%	0.0002	0.146%	0.0010	0.326%	0.0008
Data collected from September 1, 2002 to August 31, 2003														
North of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm	6.442%	0.0145	2.199%	0.0042	1.656%	0.0136	4.349%	0.0098	1.057%	0.0018	5.153%	0.0134	4.744%	0.0067
75 - 150 fm	2.293%	0.0050	3.102%	0.0164	3.937%	0.0205	10.161%	0.0253	0.935%	0.0037			7.068%	0.0149
>150 fm	0.000%	0.0000	0.348%	0.0010	0.150%	0.0004	0.012%	0.0001	0.062%	0.0004	0.123%	0.0005	0.087%	0.0002
South of 40°10' N. lat. (near Cape Mendocino)														
< 75 fm					3.198%	0.0222	4.013%	0.0116	6.550%	0.0162	2.163%	0.0098	4.540%	0.0083
75 - 150 fm			8.832%	0.0883									8.832%	0.0883
>150 fm	0.091%	0.0009	1.569%	0.0088	0.495%	0.0020	0.000%	0.0000	0.018%	0.0001	0.068%	0.0003	0.325%	0.0012
Coastwide														
< 75 fm	6.442%	0.0145	2.199%	0.0042	1.800%	0.0140	4.311%	0.0088	3.637%	0.0075	3.877%	0.0092	4.715%	0.0059
75 - 150 fm	2.293%	0.0050	3.549%	0.0168	3.937%	0.0205	10.161%	0.0253	0.935%	0.0037			7.079%	0.0148
>150 fm	0.042%	0.0004	0.799%	0.0033	0.272%	0.0008	0.011%	0.0001	0.050%	0.0003	0.110%	0.0004	0.152%	0.0004