

Table 1. Sum of landings for observed and unobserved limited-entry trawl trips by year and port group. Danish/Scottish seine and midwater trawls were excluded.

Year	Port Group	Unobserved trips		Observed Trips		All trips Landed mts
		Landed mts	Percent of unobserved mt by port	Landed mts	Percent of observed mt by port	
2004	Bellingham Area	1,719	66%	895	34%	2,614
	Neah Bay	324	64%	180	36%	504
	Astoria	4,302	75%	1,400	25%	5,702
	Newport	1,427	77%	437	23%	1,864
	Coos Bay	1,712	71%	712	29%	2,425
	Crescent City	777	80%	191	20%	969
	Eureka	1,157	70%	489	30%	1,646
	Fort Bragg	947	71%	395	29%	1,342
	San Francisco	647	73%	244	27%	890
	Monterey	622	72%	243	28%	865
	Morro Bay	651	82%	147	18%	799
	Santa Barbara	4	100%	0	0%	4
	ALL PORTS	14,290	73%	5,332	27%	19,622
January - April 2005	Bellingham Area	618	85%	106	15%	724
	Neah Bay	115	66%	60	34%	175
	Astoria	1,595	72%	605	28%	2,200
	Newport	275	60%	181	40%	455
	Coos Bay	843	71%	336	29%	1,179
	Crescent City	394	82%	84	18%	478
	Eureka	622	83%	123	17%	745
	Fort Bragg	390	76%	121	24%	511
	San Francisco	260	93%	18	7%	278
	Monterey	203	67%	101	33%	304
	Morro Bay	125	64%	72	36%	196
	ALL PORTS	5,439	75%	1,807	25%	7,246

Table 2. Number of trips sampled by observers on limited-entry trawlers from January 1, 2004 to April 30, 2005 by port group and two month period. Trips fishing EFP permits, California Halibut, mid-water trawl gear, or Danish/Scottish seine were excluded from this table.

Year 2004

Port Group	All Trawl Gear													
	Jan-Feb		Mar-Apr		May-Jun		Jul-Aug		Sep-Oct		Nov-Dec		2004	
	Percent of trips in port		Percent of trips in port		Percent of trips in port		Percent of trips in port		Percent of trips in port		Percent of trips in port		Percent of trips in port	
	Number	group												
Bellingham Area	7	8%	3	2%	0	0%	0	0%	2	2%	2	4%	14	2%
Neah Bay	22	25%	14	9%	35	35%	21	18%	10	11%	0	0%	102	17%
Astoria	11	12%	43	28%	19	19%	37	31%	13	15%	17	33%	140	23%
Newport	5	6%	6	4%	5	5%	12	10%	8	9%	4	8%	40	7%
Coos Bay	17	19%	18	12%	8	8%	10	8%	16	18%	5	10%	74	12%
Crescent City	0	0%	9	6%	1	1%	2	2%	6	7%	3	6%	21	3%
Eureka	14	16%	6	4%	8	8%	14	12%	12	14%	4	8%	58	10%
Fort Bragg	5	6%	8	5%	9	9%	11	9%	4	5%	8	16%	45	7%
San Francisco	5	6%	4	3%	5	5%	5	4%	3	3%	3	6%	25	4%
Monterey	0	0%	37	24%	9	9%	2	2%	10	11%	3	6%	61	10%
Morro Bay	3	3%	6	4%	1	1%	6	5%	3	3%	2	4%	21	3%
All	89	100%	154	100%	100	100%	120	100%	87	100%	51	100%	601	100%

Year 2005

Port Group	All Trawl Gear					
	Jan-Feb		Mar-Apr		2005 thru April	
	Percent of trips in port		Percent of trips in port		Percent of trips in port	
	Number	group	Number	group	Number	group
Bellingham Area	3	4%	2	2%	5	3%
Neah Bay	3	4%	28	25%	31	16%
Astoria	24	32%	16	14%	40	21%
Newport	6	8%	20	18%	26	14%
Coos Bay	23	31%	4	4%	27	14%
Crescent City	0	0%	8	7%	8	4%
Eureka	0	0%	12	11%	12	6%
Fort Bragg	4	5%	9	8%	13	7%
San Francisco	0	0%	3	3%	3	2%
Monterey	7	9%	8	7%	15	8%
Morro Bay	5	7%	4	4%	9	5%
All	75	100%	114	100%	189	100%

Table 3. Number of tows sampled by observers on limited-entry trawlers from January 1, 2004 to April 30, 2005 by area, depth and two-month period. Trips fishing EFP permits, mid-water trawl gear, or Danish/Scottish seine were excluded from this table.

Year 2004

Area/Depth group (fm)	All Trawl Gear													
	Jan-Feb		Mar-Apr		May-Jun		Jul-Aug		Sep-Oct		Nov-Dec		2004	
	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area
North of 40° 10' N.lat.														
0-74.9	61	18%	255	38%	229	56%	596	73%	164	38%	0	0%	1,305	45%
75-149.9	7	2%	1	0%	5	1%	41	5%	3	1%	0	0%	57	2%
>150	275	80%	412	62%	175	43%	178	22%	266	61%	226	100%	1,532	53%
All Depths	343	100%	668	100%	409	100%	815	100%	433	100%	226	100%	2,894	100%
South of 40° 10' N.lat.														
0-74.9	2	3%	35	15%	28	24%	6	7%	4	3%	0	0%	75	11%
75-149.9	0	0%	2	1%	2	2%	1	1%	2	2%	0	0%	7	1%
>150	59	97%	189	84%	85	74%	79	92%	111	95%	85	100%	608	88%
All Depths	61	100%	226	100%	115	100%	86	100%	117	100%	85	100%	690	100%
Coastwide														
0-74.9	63	16%	290	32%	257	49%	602	67%	168	31%	0	0%	1,380	39%
75-149.9	7	2%	3	0%	7	1%	42	5%	5	1%	0	0%	64	2%
>150	334	83%	601	67%	260	49%	257	29%	377	96%	311	100%	2,140	60%
All Depths	404	100%	894	100%	524	100%	901	100%	550	100%	311	100%	3,584	100%

Year 2005

Area/Depth group (fm)	Groundfish Trawl						Selective flatfish Trawl						All Trawl Gear					
	Jan-Feb		Mar-Apr		2005 thru April		Jan-Feb		Mar-Apr		2005 thru April		Jan-Feb		Mar-Apr		2005 thru April	
	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area	Number	Percent of tows in depth group per area
North of 40° 10' N.lat.																		
0-74.9	0	0%	0	0%	0	0%	75	100%	57	32%	132	52%	75	20%	57	12%	132	15%
75-149.9	2	1%	0	0%	2	0%	0	0%	121	68%	121	48%	2	1%	121	25%	123	14%
>150	301	99%	305	100%	604	100%	0	0%	0	0%	0	0%	301	80%	303	63%	604	70%
All Depths	303	100%	305	100%	606	100%	75	100%	178	100%	253	100%	378	100%	481	100%	859	100%
South of 40° 10' N.lat.																		
0-74.9													5	8%	14	11%	19	10%
75-149.9													0	0%	0	0%	0	0%
>150													61	92%	111	89%	172	90%
All Depths													66	100%	125	100%	191	100%
Coastwide																		
0-74.9													80	18%	72	12%	152	14%
75-149.9													3	1%	121	20%	124	12%
>150													366	82%	416	68%	782	74%
All Depths													449	100%	609	100%	1,058	100%

Table 4. Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

OVERFISHED SPECIES

A. Bocaccio Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	12	100%	10%	2,098	100%	74%	2,110	100%	72%
	Retained				9	0%	18%	9	0%	18%
	Total Catch	12	100%	10%	2,107	100%	73%	2,119	100%	71%
75-149.9	Discarded				26	100%	1%	26	100%	1%
	Retained									
	Total Catch				26	100%	1%	26	100%	1%
>150	Discarded	106	100%	90%	707	94%	25%	813	95%	28%
	Retained				41	6%	82%	41	5%	82%
	Total Catch	106	100%	90%	748	100%	26%	854	100%	28%
TOTAL	Discarded	118	100%	100%	2,831	98%	100%	2,949	98%	100%
	Retained				50	2%	100%	50	2%	100%
	Total Catch	118	100%	100%	2,881	100%	100%	2,999	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded									
	Retained									
	Total Catch									
75-149.9	Discarded									
	Retained	9	100%	100%				9	100%	100%
	Total Catch	9	100%	100%				9	100%	100%
TOTAL	Discarded									
	Retained	9	100%	100%				9	100%	100%
	Total Catch	9	100%	100%				9	100%	100%
Groundfish Trawl Gear										
>150	Discarded	47	100%	100%	31	100%	100%	78	100%	100%
	Retained									
	Total Catch	47	100%	100%	31	100%	100%	78	100%	100%
TOTAL	Discarded	47	100%	100%	31	100%	100%	78	100%	100%
	Retained									
	Total Catch	47	100%	100%	31	100%	100%	78	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

B. Canary Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	2,313	51%	85%	255	35%	98%	2,568	49%	86%
	Retained	2,261	49%	83%	464	65%	100%	2,725	51%	85%
	Total Catch	4,574	100%	84%	719	100%	99%	5,293	100%	86%
75-149.9	Discarded	138	24%	5%				138	24%	5%
	Retained	429	76%	16%				429	76%	13%
	Total Catch	567	100%	10%				567	100%	9%
>150	Discarded	283	90%	10%	4	74%	2%	287	90%	10%
	Retained	32	10%	1%	1	26%	0%	33	10%	1%
	Total Catch	315	100%	6%	5	100%	1%	321	100%	5%
TOTAL	Discarded	2,734	50%	100%	259	36%	100%	2,993	48%	100%
	Retained	2,722	50%	100%	465	64%	100%	3,187	52%	100%
	Total Catch	5,456	100%	100%	725	100%	100%	6,181	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	74	40%	8%				74	40%	8%
	Retained	111	60%	35%				111	60%	35%
	Total Catch	185	100%	14%				185	100%	14%
75-149.9	Discarded	899	81%	92%				899	81%	92%
	Retained	207	19%	65%				207	19%	65%
	Total Catch	1,106	100%	86%				1,106	100%	86%
TOTAL	Discarded	973	75%	100%				973	75%	100%
	Retained	318	25%	100%				318	25%	100%
	Total Catch	1,291	100%	100%				1,291	100%	100%
Groundfish Trawl Gear										
>150	Discarded	26	100%	100%				26	100%	100%
	Retained									
	Total Catch	26	100%	100%				26	100%	100%
TOTAL	Discarded	26	100%	100%				26	100%	100%
	Retained									
	Total Catch	26	100%	100%				26	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

C. Cowcod Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded				135	100%	58%	135	100%	58%
	Retained									
	Total Catch				135	100%	58%	135	100%	58%
75-149.9	Discarded				94	100%	40%	94	100%	40%
	Retained									
	Total Catch				94	100%	40%	94	100%	40%
>150	Discarded				3	100%	1%	3	100%	1%
	Retained									
	Total Catch				3	100%	1%	3	100%	1%
TOTAL	Discarded				233	100%	100%	233	100%	100%
	Retained									
	Total Catch				233	100%	100%	233	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

D. Darkblotched Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	290	7%	1%				290	7%	1%
	Retained	3,639	93%	4%				3,639	93%	4%
	Total Catch	3,929	100%	4%				3,929	100%	4%
75-149.9	Discarded	282	22%	1%				282	22%	1%
	Retained	1,015	78%	1%				1,015	78%	1%
	Total Catch	1,297	100%	1%				1,297	100%	1%
>150	Discarded	19,423	19%	97%	559	9%	100%	19,982	19%	97%
	Retained	81,323	81%	95%	5,475	91%	100%	86,797	81%	95%
	Total Catch	100,746	100%	95%	6,034	100%	100%	106,780	100%	95%
TOTAL	Discarded	19,995	19%	100%	559	9%	100%	20,555	18%	100%
	Retained	85,976	81%	100%	5,475	91%	100%	91,451	82%	100%
	Total Catch	105,971	100%	100%	6,034	100%	100%	112,005	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	8	100%	2%				8	100%	2%
	Retained									
	Total Catch	8	100%	1%				8	100%	1%
75-149.9	Discarded	542	69%	98%				542	69%	98%
	Retained	239	31%	100%				239	31%	100%
	Total Catch	781	100%	99%				781	100%	99%
TOTAL	Discarded	550	70%	100%				550	70%	100%
	Retained	239	30%	100%				239	30%	100%
	Total Catch	789	100%	100%				789	100%	100%
Groundfish Trawl Gear										
>150	Discarded	8,498	31%	100%	4	1%	100%	8,501	31%	100%
	Retained	18,647	69%	100%	700	99%	100%	19,347	69%	100%
	Total Catch	27,145	100%	100%	704	100%	100%	27,849	100%	100%
TOTAL	Discarded	8,498	31%	100%	4	1%	100%	8,501	31%	100%
	Retained	18,647	69%	100%	700	99%	100%	19,347	69%	100%
	Total Catch	27,145	100%	100%	704	100%	100%	27,849	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

E. Lingcod

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	33,885	67%	67%	4,645	71%	32%	38,530	67%	59%
	Retained	16,973	33%	79%	1,899	29%	38%	18,872	33%	71%
	Total Catch	50,859	100%	71%	6,544	100%	33%	57,402	100%	63%
75-149.9	Discarded	2,639	72%	5%	24	2%	0%	2,663	54%	4%
	Retained	1,044	28%	5%	1,184	98%	24%	2,228	46%	8%
	Total Catch	3,684	100%	5%	1,208	100%	6%	4,892	100%	5%
>150	Discarded	13,878	80%	28%	9,858	83%	68%	23,735	81%	37%
	Retained	3,444	20%	16%	1,953	17%	39%	5,397	19%	20%
	Total Catch	17,322	100%	24%	11,810	100%	60%	29,132	100%	32%
TOTAL	Discarded	50,402	70%	100%	14,527	74%	100%	64,929	71%	100%
	Retained	21,462	30%	100%	5,035	26%	100%	26,497	29%	100%
	Total Catch	71,864	100%	100%	19,562	100%	100%	91,426	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	831	32%	10%				831	32%	10%
	Retained	1,762	68%	62%				1,762	68%	62%
	Total Catch	2,593	100%	24%				2,593	100%	24%
75-149.9	Discarded	7,345	87%	90%				7,345	87%	90%
	Retained	1,092	13%	38%				1,092	13%	38%
	Total Catch	8,437	100%	76%				8,437	100%	76%
TOTAL	Discarded	8,176	74%	100%				8,176	74%	100%
	Retained	2,854	26%	100%				2,854	26%	100%
	Total Catch	11,030	100%	100%				11,030	100%	100%
Groundfish Trawl Gear										
>150	Discarded	6,726	65%	100%	318	17%	100%	7,044	58%	100%
	Retained	3,555	35%	100%	1,594	83%	100%	5,149	42%	100%
	Total Catch	10,281	100%	100%	1,912	100%	100%	12,193	100%	100%
TOTAL	Discarded	6,726	65%	100%	318	17%	100%	7,044	58%	100%
	Retained	3,555	35%	100%	1,594	83%	100%	5,149	42%	100%
	Total Catch	10,281	100%	100%	1,912	100%	100%	12,193	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

F. Pacific Ocean Perch

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	2	1%	0%				2	1%	0%
	Retained	181	99%	0%				181	99%	0%
	Total Catch	183	100%	0%				183	100%	0%
75-149.9	Discarded	244	6%	2%				244	6%	2%
	Retained	3,615	94%	7%				3,615	94%	7%
	Total Catch	3,859	100%	6%				3,859	100%	6%
>150	Discarded	13,164	21%	98%				13,164	21%	98%
	Retained	49,715	79%	93%	848	100%	100%	50,564	79%	93%
	Total Catch	62,880	100%	94%	848	100%	100%	63,728	100%	94%
TOTAL	Discarded	13,410	20%	100%				13,410	20%	100%
	Retained	53,511	80%	100%	848	100%	100%	54,360	80%	100%
	Total Catch	66,922	100%	100%	848	100%	100%	67,770	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	4,043	24%	100%				4,043	24%	100%
	Retained	12,582	76%	100%				12,582	76%	100%
	Total Catch	16,625	100%	100%				16,625	100%	100%
75-149.9	Discarded	4,043	24%	100%				4,043	24%	100%
	Retained	12,582	76%	100%				12,582	76%	100%
	Total Catch	16,625	100%	100%				16,625	100%	100%
TOTAL	Discarded									
	Retained	1	100%	1%				1	100%	1%
	Total Catch	1	100%	1%				1	100%	1%
Groundfish Trawl Gear										
>150	Discarded	0	0%	100%				0	0%	100%
	Retained	46	100%	99%				46	100%	99%
	Total Catch	47	100%	99%				47	100%	99%
TOTAL	Discarded	0	0%	100%				0	0%	100%
	Retained	47	100%	100%				47	100%	100%
	Total Catch	47	100%	100%				47	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

G. Widow Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	340	23%	18%				340	23%	16%
	Retained	1,142	77%	96%	12	100%	66%	1,154	77%	96%
	Total Catch	1,482	100%	49%	12	100%	4%	1,493	100%	44%
75-149.9	Discarded									
	Retained									
	Total Catch									
>150	Discarded	1,529	97%	82%	287	98%	100%	1,816	97%	84%
	Retained	44	3%	4%	6	2%	34%	50	3%	4%
	Total Catch	1,573	100%	51%	293	100%	96%	1,866	100%	56%
TOTAL	Discarded	1,869	61%	100%	287	94%	100%	2,156	64%	100%
	Retained	1,186	39%	100%	18	6%	100%	1,204	36%	100%
	Total Catch	3,055	100%	100%	304	100%	100%	3,359	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded									
	Retained	3	100%	71%				3	100%	71%
	Total Catch	3	100%	40%				3	100%	40%
75-149.9	Discarded	3	73%	100%				3	73%	100%
	Retained	1	27%	29%				1	27%	29%
	Total Catch	4	100%	60%				4	100%	60%
TOTAL	Discarded	3	44%	100%				3	44%	100%
	Retained	4	56%	100%				4	56%	100%
	Total Catch	7	100%	100%				7	100%	100%
Groundfish Trawl Gear										
>150	Discarded	517	73%	100%				517	73%	100%
	Retained	192	27%	100%				192	27%	100%
	Total Catch	709	100%	100%				709	100%	100%
TOTAL	Discarded	517	73%	100%				517	73%	100%
	Retained	192	27%	100%				192	27%	100%
	Total Catch	709	100%	100%				709	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

H. Yelloweye Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	115	65%	74%				115	65%	74%
	Retained	62	35%	93%				62	35%	93%
	Total Catch	177	100%	80%				177	100%	80%
75-149.9	Discarded									
	Retained	5	100%	7%				5	100%	7%
	Total Catch	5	100%	2%				5	100%	2%
>150	Discarded	41	100%	26%				41	100%	26%
	Retained									
	Total Catch	41	100%	18%				41	100%	18%
TOTAL	Discarded	155	70%	100%				155	70%	100%
	Retained	67	30%	100%				67	30%	100%
	Total Catch	222	100%	100%				222	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	0	100%	6%				0	100%	6%
	Retained									
	Total Catch	0	100%	6%				0	100%	6%
75-149.9	Discarded	7	100%	94%				7	100%	94%
	Retained									
	Total Catch	7	100%	94%				7	100%	94%
TOTAL	Discarded	8	100%	100%				8	100%	100%
	Retained									
	Total Catch	8	100%	100%				8	100%	100%
Groundfish Trawl Gear										
>150	Discarded	51	100%	100%				51	100%	100%
	Retained									
	Total Catch	51	100%	100%				51	100%	100%
TOTAL	Discarded	51	100%	100%				51	100%	100%
	Retained									
	Total Catch	51	100%	100%				51	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

DTS SPECIES. and HAKE

I. Dover Sole

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	24,231	8%	21%	193	76%	0%	24,424	8%	11%
	Retained	270,154	92%	9%	61	24%	0%	270,214	92%	7%
	Total Catch	294,385	100%	9%	254	100%	0%	294,639	100%	7%
75-149.9	Discarded	1,021	4%	1%	26	18%	0%	1,047	4%	0%
	Retained	27,951	96%	1%	119	82%	0%	28,070	96%	1%
	Total Catch	28,973	100%	1%	145	100%	0%	29,117	100%	1%
>150	Discarded	90,387	3%	78%	107,183	9%	100%	197,570	5%	89%
	Retained	2,708,422	97%	90%	1,091,169	91%	100%	3,799,591	95%	93%
	Total Catch	2,798,809	100%	90%	1,198,352	100%	100%	3,997,161	100%	93%
TOTAL	Discarded	115,639	4%	100%	107,402	9%	100%	223,041	5%	100%
	Retained	3,006,527	96%	100%	1,091,349	91%	100%	4,097,876	95%	100%
	Total Catch	3,122,166	100%	100%	1,198,751	100%	100%	4,320,917	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	953	10%	34%				953	10%	34%
	Retained	8,250	90%	25%				8,250	90%	25%
	Total Catch	9,202	100%	26%				9,202	100%	26%
75-149.9	Discarded	1,866	7%	66%				1,866	7%	66%
	Retained	24,362	93%	75%				24,362	93%	75%
	Total Catch	26,228	100%	74%				26,228	100%	74%
TOTAL	Discarded	2,818	8%	100%				2,818	8%	100%
	Retained	32,612	92%	100%				32,612	92%	100%
	Total Catch	35,430	100%	100%				35,430	100%	100%
Groundfish Trawl Gear										
>150	Discarded	40,559	3%	100%	15,043	6%	100%	55,603	3%	100%
	Retained	1,372,602	97%	100%	245,286	94%	100%	1,617,888	97%	100%
	Total Catch	1,413,161	100%	100%	260,329	100%	100%	1,673,490	100%	100%
TOTAL	Discarded	40,559	3%	100%	15,043	6%	100%	55,603	3%	100%
	Retained	1,372,602	97%	100%	245,286	94%	100%	1,617,888	97%	100%
	Total Catch	1,413,161	100%	100%	260,329	100%	100%	1,673,490	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

J. Pacific Hake

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	445,506	100%	40%	20,179	99%	15%	465,685	100%	37%
	Retained				184	1%	66%	184	0%	2%
	Total Catch	445,506	100%	40%	20,363	100%	15%	465,869	100%	37%
75-149.9	Discarded	3,088	100%	0%	8,890	100%	6%	11,978	100%	1%
	Retained									
	Total Catch	3,088	100%	0%	8,890	100%	6%	11,978	100%	1%
>150	Discarded	664,466	98%	60%	109,079	100%	79%	773,545	98%	62%
	Retained	11,985	2%	100%	95	0%	34%	12,080	2%	98%
	Total Catch	676,451	100%	60%	109,174	100%	79%	785,625	100%	62%
TOTAL	Discarded	1,113,060	99%	100%	138,148	100%	100%	1,251,208	99%	100%
	Retained	11,985	1%	100%	279	0%	100%	12,264	1%	100%
	Total Catch	1,125,045	100%	100%	138,427	100%	100%	1,263,472	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	90	100%	14%				90	100%	14%
	Retained									
	Total Catch	90	100%	14%				90	100%	14%
75-149.9	Discarded	573	100%	86%				573	100%	86%
	Retained									
	Total Catch	573	100%	86%				573	100%	86%
TOTAL	Discarded	663	100%	100%				663	100%	100%
	Retained									
	Total Catch	663	100%	100%				663	100%	100%
Groundfish Trawl Gear										
>150	Discarded	135,635	100%	100%	57,921	100%	100%	193,556	100%	100%
	Retained									
	Total Catch	135,635	100%	100%	57,921	100%	100%	193,556	100%	100%
TOTAL	Discarded	135,635	100%	100%	57,921	100%	100%	193,556	100%	100%
	Retained									
	Total Catch	135,635	100%	100%	57,921	100%	100%	193,556	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

K. Sablefish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	11,673	14%	3%	479	56%	1%	12,151	14%	3%
	Retained	73,321	86%	7%	369	44%	0%	73,690	86%	6%
	Total Catch	84,994	100%	6%	848	100%	0%	85,841	100%	5%
75-149.9	Discarded	3,373	12%	1%				3,373	12%	1%
	Retained	24,874	88%	2%	1,016	100%	0%	25,890	88%	2%
	Total Catch	28,247	100%	2%	1,016	100%	0%	29,263	100%	2%
>150	Discarded	329,332	27%	96%	72,334	20%	99%	401,666	25%	96%
	Retained	900,757	73%	90%	294,507	80%	100%	1,195,264	75%	92%
	Total Catch	1,230,089	100%	92%	366,841	100%	99%	1,596,930	100%	93%
TOTAL	Discarded	344,378	26%	100%	72,813	20%	100%	417,191	24%	100%
	Retained	998,952	74%	100%	295,891	80%	100%	1,294,843	76%	100%
	Total Catch	1,343,330	100%	100%	368,704	100%	100%	1,712,034	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	310	97%	2%				310	97%	2%
	Retained	9	3%	0%				9	3%	0%
	Total Catch	320	100%	2%				320	100%	2%
75-149.9	Discarded	14,882	75%	98%				14,882	75%	98%
	Retained	4,992	25%	100%				4,992	25%	100%
	Total Catch	19,874	100%	98%				19,874	100%	98%
TOTAL	Discarded	15,192	75%	100%				15,192	75%	100%
	Retained	5,002	25%	100%				5,002	25%	100%
	Total Catch	20,194	100%	100%				20,194	100%	100%
Groundfish Trawl Gear										
>150	Discarded	61,911	21%	100%	23,611	19%	100%	85,522	20%	100%
	Retained	228,537	79%	100%	104,000	81%	100%	332,537	80%	100%
	Total Catch	290,447	100%	100%	127,611	100%	100%	418,059	100%	100%
TOTAL	Discarded	61,911	21%	100%	23,611	19%	100%	85,522	20%	100%
	Retained	228,537	79%	100%	104,000	81%	100%	332,537	80%	100%
	Total Catch	290,447	100%	100%	127,611	100%	100%	418,059	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

L. Longspine Thornyhead

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear 0-74.9	Discarded									
	Retained	117	100%	0%				117	100%	0%
	Total Catch	117	100%	0%				117	100%	0%
75-149.9	Discarded									
	Retained	294	100%	0%				294	100%	0%
	Total Catch	294	100%	0%				294	100%	0%
>150	Discarded	25,027	10%	100%	34,405	11%	100%	59,432	11%	100%
	Retained	227,965	90%	100%	268,571	89%	100%	496,536	89%	100%
	Total Catch	252,991	100%	100%	302,977	100%	100%	555,968	100%	100%
TOTAL	Discarded	25,027	10%	100%	34,405	11%	100%	59,432	11%	100%
	Retained	228,376	90%	100%	268,571	89%	100%	496,947	89%	100%
	Total Catch	253,402	100%	100%	302,977	100%	100%	556,379	100%	100%
January - April 2005										
Selective Flatfish Trawl 0-74.9	Discarded									
	Retained									
	Total Catch									
75-149.9	Discarded									
	Retained									
	Total Catch									
TOTAL	Discarded									
	Retained									
	Total Catch									
Groundfish Trawl Gear										
>150	Discarded	3,287	7%	100%	3,749	6%	100%	7,036	6%	100%
	Retained	41,472	93%	100%	61,488	94%	100%	102,960	94%	100%
	Total Catch	44,759	100%	100%	65,237	100%	100%	109,996	100%	100%
TOTAL	Discarded	3,287	7%	100%	3,749	6%	100%	7,036	6%	100%
	Retained	41,472	93%	100%	61,488	94%	100%	102,960	94%	100%
	Total Catch	44,759	100%	100%	65,237	100%	100%	109,996	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

M. Shortspine Thornyhead

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	2	0%	0%				2	0%	0%
	Retained	447	100%	0%	140	100%	0%	587	100%	0%
	Total Catch	449	100%	0%	140	100%	0%	589	100%	0%
75-149.9	Discarded	742	32%	2%				742	31%	1%
	Retained	1,601	68%	1%	73	100%	0%	1,675	69%	1%
	Total Catch	2,343	100%	1%	73	100%	0%	2,417	100%	1%
>150	Discarded	42,223	16%	98%	18,777	18%	100%	61,001	17%	99%
	Retained	216,632	84%	99%	87,060	82%	100%	303,692	83%	99%
	Total Catch	258,856	100%	99%	105,837	100%	100%	364,693	100%	99%
TOTAL	Discarded	42,967	16%	100%	18,777	18%	100%	61,745	17%	100%
	Retained	218,680	84%	100%	87,273	82%	100%	305,954	83%	100%
	Total Catch	261,647	100%	100%	106,051	100%	100%	367,698	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded									
	Retained									
	Total Catch									
75-149.9	Discarded									
	Retained	44	100%	100%				44	100%	100%
	Total Catch	44	100%	100%				44	100%	100%
TOTAL	Discarded									
	Retained	44	100%	100%				44	100%	100%
	Total Catch	44	100%	100%				44	100%	100%
Groundfish Trawl Gear										
>150	Discarded	7,101	12%	100%	3,632	17%	100%	10,733	13%	100%
	Retained	51,620	88%	100%	18,138	83%	100%	69,758	87%	100%
	Total Catch	58,721	100%	100%	21,770	100%	100%	80,491	100%	100%
TOTAL	Discarded	7,101	12%	100%	3,632	17%	100%	10,733	13%	100%
	Retained	51,620	88%	100%	18,138	83%	100%	69,758	87%	100%
	Total Catch	58,721	100%	100%	21,770	100%	100%	80,491	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

N. Mixed Thornyheads

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear 0-74.9	Discarded									
	Retained	68	100%	0%				68	100%	0%
	Total Catch	68	100%	0%				68	100%	0%
75-149.9	Discarded									
	Retained	150	100%	1%				150	100%	0%
	Total Catch	150	100%	0%				150	100%	0%
>150	Discarded	63,013	71%	100%	17,070	78%	100%	80,083	73%	100%
	Retained	25,233	29%	99%	4,825	22%	100%	30,058	27%	99%
	Total Catch	88,246	100%	100%	21,895	100%	100%	110,140	100%	100%
TOTAL	Discarded	63,013	71%	100%	17,070	78%	100%	80,083	73%	100%
	Retained	25,450	29%	100%	4,825	22%	100%	30,275	27%	100%
	Total Catch	88,463	100%	100%	21,895	100%	100%	110,358	100%	100%
January - April 2005										
Selective Flatfish Trawl 0-74.9	Discarded									
	Retained									
	Total Catch									
75-149.9	Discarded									
	Retained									
	Total Catch									
TOTAL	Discarded									
	Retained									
	Total Catch									
Groundfish Trawl Gear										
>150	Discarded	18,540	60%	100%	2,943	87%	100%	21,484	63%	100%
	Retained	12,414	40%	100%	423	13%	100%	12,837	37%	100%
	Total Catch	30,954	100%	100%	3,366	100%	100%	34,321	100%	100%
TOTAL	Discarded	18,540	60%	100%	2,943	87%	100%	21,484	63%	100%
	Retained	12,414	40%	100%	423	13%	100%	12,837	37%	100%
	Total Catch	30,954	100%	100%	3,366	100%	100%	34,321	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

FLATFISH

O. Arrowtooth Flounder

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	123,005	73%	62%	2	52%	0%	123,007	73%	60%
	Retained	44,867	27%	6%	2	48%	0%	44,869	27%	6%
	Total Catch	167,872	100%	17%	4	100%	0%	167,876	100%	17%
75-149.9	Discarded	18,305	42%	9%				18,305	42%	9%
	Retained	25,763	58%	3%				25,763	58%	3%
	Total Catch	44,067	100%	4%				44,067	100%	4%
>150	Discarded	57,547	7%	29%	7,508	85%	100%	65,054	8%	32%
	Retained	714,456	93%	91%	1,286	15%	100%	715,742	92%	91%
	Total Catch	772,003	100%	78%	8,793	100%	100%	780,797	100%	79%
TOTAL	Discarded	198,857	20%	100%	7,510	85%	100%	206,367	21%	100%
	Retained	785,086	80%	100%	1,288	15%	100%	786,374	79%	100%
	Total Catch	983,943	100%	100%	8,797	100%	100%	992,740	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	2,479	68%	11%				2,479	68%	11%
	Retained	1,144	32%	5%				1,144	32%	5%
	Total Catch	3,623	100%	8%				3,623	100%	8%
75-149.9	Discarded	19,869	47%	89%				19,869	47%	89%
	Retained	22,021	53%	95%				22,021	53%	95%
	Total Catch	41,890	100%	92%				41,890	100%	92%
TOTAL	Discarded	22,348	49%	100%				22,348	49%	100%
	Retained	23,165	51%	100%				23,165	51%	100%
	Total Catch	45,513	100%	100%				45,513	100%	100%
Groundfish Trawl Gear										
>150	Discarded	71,965	19%	100%	5,424	76%	100%	77,389	20%	100%
	Retained	308,822	81%	100%	1,744	24%	100%	310,566	80%	100%
	Total Catch	380,787	100%	100%	7,168	100%	100%	387,955	100%	100%
TOTAL	Discarded	71,965	19%	100%	5,424	76%	100%	77,389	20%	100%
	Retained	308,822	81%	100%	1,744	24%	100%	310,566	80%	100%
	Total Catch	380,787	100%	100%	7,168	100%	100%	387,955	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

P. English Sole

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	59,052	18%	97%	11,484	56%	63%	70,536	20%	89%
	Retained	265,583	82%	69%	9,086	44%	37%	274,669	80%	67%
	Total Catch	324,635	100%	73%	20,571	100%	48%	345,206	100%	71%
75-149.9	Discarded	396	6%	1%	316	12%	2%	712	8%	1%
	Retained	6,203	94%	2%	2,429	88%	10%	8,632	92%	2%
	Total Catch	6,599	100%	1%	2,746	100%	6%	9,344	100%	2%
>150	Discarded	1,501	1%	2%	6,493	34%	35%	7,994	6%	10%
	Retained	111,812	99%	29%	12,820	66%	53%	124,632	94%	31%
	Total Catch	113,312	100%	25%	19,313	100%	45%	132,625	100%	27%
TOTAL	Discarded	60,949	14%	100%	18,293	43%	100%	79,242	16%	100%
	Retained	383,597	86%	100%	24,336	57%	100%	407,933	84%	100%
	Total Catch	444,546	100%	100%	42,629	100%	100%	487,175	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	6,149	18%	58%				6,149	18%	58%
	Retained	28,386	82%	48%				28,386	82%	48%
	Total Catch	34,535	100%	49%				34,535	100%	49%
75-149.9	Discarded	4,473	13%	42%				4,473	13%	42%
	Retained	30,777	87%	52%				30,777	87%	52%
	Total Catch	35,250	100%	51%				35,250	100%	51%
TOTAL	Discarded	10,622	15%	100%				10,622	15%	100%
	Retained	59,163	85%	100%				59,163	85%	100%
	Total Catch	69,785	100%	100%				69,785	100%	100%
Groundfish Trawl Gear										
>150	Discarded	20,208	23%	100%	465	5%	100%	20,673	21%	100%
	Retained	69,191	77%	100%	9,634	95%	100%	78,825	79%	100%
	Total Catch	89,399	100%	100%	10,098	100%	100%	99,498	100%	100%
TOTAL	Discarded	20,208	23%	100%	465	5%	100%	20,673	21%	100%
	Retained	69,191	77%	100%	9,634	95%	100%	78,825	79%	100%
	Total Catch	89,399	100%	100%	10,098	100%	100%	99,498	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

Q. Petrale Sole

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	23,541	8%	92%	2,313	7%	82%	25,854	8%	91%
	Retained	258,203	92%	32%	29,422	93%	40%	287,625	92%	32%
	Total Catch	281,744	100%	34%	31,735	100%	42%	313,479	100%	34%
75-149.9	Discarded	40	4%	0%	98	5%	3%	138	4%	0%
	Retained	1,019	96%	0%	1,976	95%	3%	2,994	96%	0%
	Total Catch	1,058	100%	0%	2,074	100%	3%	3,132	100%	0%
>150	Discarded	1,906	0%	7%	416	1%	15%	2,323	0%	8%
	Retained	554,384	100%	68%	41,345	99%	57%	595,730	100%	67%
	Total Catch	556,290	100%	66%	41,762	100%	55%	598,052	100%	65%
TOTAL	Discarded	25,487	3%	100%	2,828	4%	100%	28,314	3%	100%
	Retained	813,606	97%	100%	72,743	96%	100%	886,349	97%	100%
	Total Catch	839,093	100%	100%	75,571	100%	100%	914,664	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Retained	28,294	97%	33%				28,294	97%	33%
	Discarded	999	3%	18%				999	3%	18%
	Total Catch	29,293	100%	32%				29,293	100%	32%
75-149.9	Retained	58,021	93%	67%				58,021	93%	67%
	Discarded	4,669	7%	82%				4,669	7%	82%
	Total Catch	62,690	100%	68%				62,690	100%	68%
TOTAL	Retained	86,315	94%	100%				86,315	94%	100%
	Discarded	5,668	6%	100%				5,668	6%	100%
	Total Catch	91,983	100%	100%				91,983	100%	100%
Groundfish Trawl Gear										
>150	Retained	570,175	100%	100%	81,552	100%	100%	651,727	100%	100%
	Discarded	1,775	0%	100%	139	0%	100%	1,914	0%	100%
	Total Catch	571,950	100%	100%	81,691	100%	100%	653,641	100%	100%
TOTAL	Retained	570,175	100%	100%	81,552	100%	100%	651,727	100%	100%
	Discarded	1,775	0%	100%	139	0%	100%	1,914	0%	100%
	Total Catch	571,950	100%	100%	81,691	100%	100%	653,641	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

R. Starry Flounder

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear 0-74.9	Discarded	13,815	23%	100%	5	2%	100%	13,820	23%	100%
	Retained	46,657	77%	100%	295	98%	100%	46,952	77%	100%
	Total Catch	60,472	100%	100%	300	100%	100%	60,772	100%	100%
75-149.9	Discarded									
	Retained	21	100%	0%				21	100%	0%
	Total Catch	21	100%	0%				21	100%	0%
>150	Discarded									
	Retained	41	100%	0%				41	100%	0%
	Total Catch	41	100%	0%				41	100%	0%
TOTAL	Discarded	13,815	23%	100%	5	2%	100%	13,820	23%	100%
	Retained	46,719	77%	100%	295	98%	100%	47,014	77%	100%
	Total Catch	60,534	100%	100%	300	100%	100%	60,834	100%	100%
January - April 2005										
Selective Flatfish Trawl 0-74.9	Discarded									
	Retained	1,547	100%	100%				1,547	100%	100%
	Total Catch	1,547	100%	100%				1,547	100%	100%
75-149.9	Discarded									
	Retained	7	100%	0%				7	100%	0%
	Total Catch	7	100%	0%				7	100%	0%
TOTAL	Discarded									
	Retained	1,554	100%	100%				1,554	100%	100%
	Total Catch	1,554	100%	100%				1,554	100%	100%
Groundfish Trawl Gear										
>150	Discarded									
	Retained	106	100%	100%				106	100%	100%
	Total Catch	106	100%	100%				106	100%	100%
TOTAL	Discarded									
	Retained	106	100%	100%				106	100%	100%
	Total Catch	106	100%	100%				106	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

S. Other Flatfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	131,760	39%	83%	20,065	48%	51%	151,825	40%	77%
	Retained	202,808	61%	53%	21,526	52%	26%	224,334	60%	48%
	Total Catch	334,568	100%	62%	41,591	100%	34%	376,159	100%	57%
75-149.9	Discarded	4,374	46%	3%	301	62%	1%	4,676	46%	2%
	Retained	5,236	54%	1%	185	38%	0%	5,421	54%	1%
	Total Catch	9,610	100%	2%	487	100%	0%	10,096	100%	2%
>150	Discarded	22,609	12%	14%	19,353	24%	49%	41,962	15%	21%
	Retained	173,570	88%	45%	61,090	76%	74%	234,660	85%	51%
	Total Catch	196,179	100%	36%	80,443	100%	66%	276,623	100%	42%
TOTAL	Discarded	158,744	29%	100%	39,720	32%	100%	198,464	30%	100%
	Retained	381,614	71%	100%	82,801	68%	100%	464,415	70%	100%
	Total Catch	540,357	100%	100%	122,521	100%	100%	662,879	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	6,860	20%	45%				6,860	20%	45%
	Retained	26,714	80%	72%				26,714	80%	72%
	Total Catch	33,573	100%	65%				33,573	100%	65%
75-149.9	Discarded	8,270	45%	55%				8,270	45%	55%
	Retained	10,160	55%	28%				10,160	55%	28%
	Total Catch	18,430	100%	35%				18,430	100%	35%
TOTAL	Discarded	15,129	29%	100%				15,129	29%	100%
	Retained	36,873	71%	100%				36,873	71%	100%
	Total Catch	52,003	100%	100%				52,003	100%	100%
Groundfish Trawl Gear										
>150	Discarded	17,514	20%	100%	6,402	10%	100%	23,917	16%	100%
	Retained	70,086	80%	100%	59,979	90%	100%	130,064	84%	100%
	Total Catch	87,600	100%	100%	66,381	100%	100%	153,981	100%	100%
TOTAL	Discarded	17,514	20%	100%	6,402	10%	100%	23,917	16%	100%
	Retained	70,086	80%	100%	59,979	90%	100%	130,064	84%	100%
	Total Catch	87,600	100%	100%	66,381	100%	100%	153,981	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

U. Other Nearshore Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	376	97%	78%	117	55%	5%	493	82%	18%
	Retained	11	3%	100%	94	45%	87%	105	18%	88%
	Total Catch	387	100%	79%	211	100%	9%	598	100%	20%
75-149.9	Discarded	33	100%	7%	244	100%	11%	277	100%	10%
	Retained									
	Total Catch	33	100%	7%	244	100%	10%	277	100%	9%
>150	Discarded	71	100%	15%	1,958	99%	84%	2,029	99%	73%
	Retained				15	1%	13%	15	1%	12%
	Total Catch	71	100%	14%	1,973	100%	81%	2,044	100%	70%
TOTAL	Discarded	479	98%	100%	2,320	96%	100%	2,799	96%	100%
	Retained	11	2%	100%	109	4%	100%	120	4%	100%
	Total Catch	490	100%	100%	2,429	100%	100%	2,919	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded									
	Retained									
	Total Catch									
75-149.9	Discarded									
	Retained									
	Total Catch									
TOTAL	Discarded									
	Retained									
	Total Catch									
Groundfish Trawl Gear										
>150	Discarded				108	100%	100%	108	100%	100%
	Retained									
	Total Catch				108	100%	100%	108	100%	100%
TOTAL	Discarded				108	100%	100%	108	100%	100%
	Retained									
	Total Catch				108	100%	100%	108	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

Minor Shelf Rockfish

V. Yellowtail Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	3,895	21%	80%	559	85%	98%	4,454	23%	82%
	Retained	14,697	79%	94%	101	15%	100%	14,798	77%	94%
	Total Catch	18,593	100%	91%	660	100%	98%	19,253	100%	91%
75-149.9	Discarded	5	1%	0%				5	1%	0%
	Retained	859	99%	6%				859	99%	5%
	Total Catch	864	100%	4%				864	100%	4%
>150	Discarded	986	96%	20%	12	100%	2%	998	96%	18%
	Retained	37	4%	0%				37	4%	0%
	Total Catch	1,023	100%	5%	12	100%	2%	1,035	100%	5%
TOTAL	Discarded	4,887	24%	100%	571	85%	100%	5,458	26%	100%
	Retained	15,593	76%	100%	101	15%	100%	15,694	74%	100%
	Total Catch	20,480	100%	100%	672	100%	100%	21,153	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	93	4%	2%				93	4%	2%
	Retained	2,467	96%	53%				2,467	96%	53%
	Total Catch	2,560	100%	25%				2,560	100%	25%
75-149.9	Discarded	5,322	71%	98%				5,322	71%	98%
	Retained	2,160	29%	47%				2,160	29%	47%
	Total Catch	7,482	100%	75%				7,482	100%	75%
TOTAL	Discarded	5,415	54%	100%				5,415	54%	100%
	Retained	4,627	46%	100%				4,627	46%	100%
	Total Catch	10,042	100%	100%				10,042	100%	100%
Groundfish Trawl Gear										
>150	Discarded	271	89%	100%				271	89%	100%
	Retained	35	11%	100%				35	11%	100%
	Total Catch	306	100%	100%				306	100%	100%
TOTAL	Discarded	271	89%	100%				271	89%	100%
	Retained	35	11%	100%				35	11%	100%
	Total Catch	306	100%	100%				306	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

W. Other Shelf Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	4,551	92%	40%	2,854	74%	15%	7,405	84%	24%
	Retained	378	8%	90%	1,011	26%	14%	1,389	16%	18%
	Total Catch	4,928	100%	42%	3,865	100%	14%	8,793	100%	23%
75-149.9	Discarded	437	97%	4%	7,165	96%	37%	7,602	96%	25%
	Retained	14	3%	3%	282	4%	4%	296	4%	4%
	Total Catch	451	100%	4%	7,447	100%	28%	7,897	100%	20%
>150	Discarded	6,446	100%	56%	9,327	60%	48%	15,773	72%	51%
	Retained	26	0%	6%	6,146	40%	83%	6,172	28%	79%
	Total Catch	6,472	100%	55%	15,473	100%	58%	21,945	100%	57%
TOTAL	Discarded	11,434	96%	100%	19,345	72%	100%	30,779	80%	100%
	Retained	418	4%	100%	7,439	28%	100%	7,857	20%	100%
	Total Catch	11,851	100%	100%	26,784	100%	100%	38,635	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	143	100%	4%				143	100%	4%
	Retained									
	Total Catch	143	100%	4%				143	100%	4%
75-149.9	Discarded	3,454	100%	96%				3,454	100%	96%
	Retained									
	Total Catch	3,454	100%	96%				3,454	100%	96%
TOTAL	Discarded	3,597	100%	100%				3,597	100%	100%
	Retained									
	Total Catch	3,597	100%	100%				3,597	100%	100%
Groundfish Trawl Gear										
>150	Discarded	493	100%	100%	393	45%	100%	886	65%	100%
	Retained				487	55%	100%	487	35%	100%
	Total Catch	493	100%	100%	880	100%	100%	1,373	100%	100%
TOTAL	Discarded	493	100%	100%	393	45%	100%	886	65%	100%
	Retained				487	55%	100%	487	35%	100%
	Total Catch	493	100%	100%	880	100%	100%	1,373	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

Minor Slope Rockfish

X. Blackgill Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded Retained Total Catch									
75-149.9	Discarded Retained Total Catch									
>150	Discarded Retained Total Catch	2,300 4 2,304	100% 0% 100%	100% 100% 100%	664 6 669	99% 1% 100%	100% 100% 100%	2,963 10 2,973	100% 0% 100%	100% 100% 100%
TOTAL	Discarded Retained Total Catch	2,300 4 2,304	100% 0% 100%	100% 100% 100%	664 6 669	99% 1% 100%	100% 100% 100%	2,963 10 2,973	100% 0% 100%	100% 100% 100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded Retained Total Catch									
75-149.9	Discarded Retained Total Catch									
TOTAL	Discarded Retained Total Catch									
Groundfish Trawl Gear										
>150	Discarded Retained Total Catch	140 140 140	100% 100% 100%	100% 100% 100%	37 37 37	100% 100% 100%	100% 100% 100%	177 177 177	100% 100% 100%	100% 100% 100%
TOTAL	Discarded Retained Total Catch	140 140 140	100% 100% 100%	100% 100% 100%	37 37 37	100% 100% 100%	100% 100% 100%	177 177 177	100% 100% 100%	100% 100% 100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

Y. Other Slope Rockfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	34	100%	0%	116	91%	0%	150	93%	0%
	Retained				11	9%	0%	11	7%	0%
	Total Catch	34	100%	0%	126	100%	0%	161	100%	0%
75-149.9	Discarded	270	100%	1%	286	100%	1%	555	100%	1%
	Retained									
	Total Catch	270	100%	1%	286	100%	0%	555	100%	0%
>150	Discarded	37,906	100%	99%	46,674	25%	99%	84,580	38%	99%
	Retained	20	0%	100%	138,392	75%	100%	138,412	62%	100%
	Total Catch	37,926	100%	99%	185,066	100%	100%	222,992	100%	100%
TOTAL	Discarded	38,210	100%	100%	47,075	25%	100%	85,285	38%	100%
	Retained	20	0%	100%	138,403	75%	100%	138,423	62%	100%
	Total Catch	38,230	100%	100%	185,478	100%	100%	223,708	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	7	100%	6%				7	100%	6%
	Retained									
	Total Catch	7	100%	6%				7	100%	6%
75-149.9	Discarded	112	100%	94%				112	100%	94%
	Retained									
	Total Catch	112	100%	94%				112	100%	94%
TOTAL	Discarded	119	100%	100%				119	100%	100%
	Retained									
	Total Catch	119	100%	100%				119	100%	100%
Groundfish Trawl Gear										
>150	Discarded	10,890	100%	100%	23,209	34%	100%	34,099	43%	100%
	Retained	1	0%	100%	45,602	66%	100%	45,603	57%	100%
	Total Catch	10,891	100%	100%	68,811	100%	100%	79,702	100%	100%
TOTAL	Discarded	10,890	100%	100%	23,209	34%	100%	34,099	43%	100%
	Retained	1	0%	100%	45,602	66%	100%	45,603	57%	100%
	Total Catch	10,891	100%	100%	68,811	100%	100%	79,702	100%	100%

Table 4 (cont.). Discarded, retained, and total catch (pounds) for 26 ground fish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

Z. Other Roundfish

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	5,670	2%	4%				5,670	2%	3%
	Retained	332,405	98%	79%	5	100%	0%	332,410	98%	75%
	Total Catch	338,075	100%	60%	5	100%	0%	338,080	100%	53%
75-149.9	Discarded	53	0%	0%				53	0%	0%
	Retained	11,135	100%	3%				11,135	100%	3%
	Total Catch	11,188	100%	2%				11,188	100%	2%
>150	Discarded	133,481	64%	96%	61,056	75%	100%	194,536	67%	97%
	Retained	76,124	36%	18%	20,719	25%	100%	96,843	33%	22%
	Total Catch	209,605	100%	38%	81,774	100%	100%	291,379	100%	45%
TOTAL	Discarded	139,204	25%	100%	61,056	75%	100%	200,259	31%	100%
	Retained	419,664	75%	100%	20,724	25%	100%	440,388	69%	100%
	Total Catch	558,868	100%	100%	81,779	100%	100%	640,647	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	131	0%	50%				131	0%	50%
	Retained	40,991	100%	46%				40,991	100%	46%
	Total Catch	41,122	100%	46%				41,122	100%	46%
75-149.9	Discarded	130	0%	50%				130	0%	50%
	Retained	47,714	100%	54%				47,714	100%	54%
	Total Catch	47,844	100%	54%				47,844	100%	54%
TOTAL	Discarded	261	0%	100%				261	0%	100%
	Retained	88,705	100%	100%				88,705	100%	100%
	Total Catch	88,966	100%	100%				88,966	100%	100%
Groundfish Trawl Gear										
>150	Discarded	16,747	74%	100%	2,499	63%	100%	19,246	72%	100%
	Retained	5,953	26%	100%	1,479	37%	100%	7,432	28%	100%
	Total Catch	22,701	100%	100%	3,978	100%	100%	26,679	100%	100%
TOTAL	Discarded	16,747	74%	100%	2,499	63%	100%	19,246	72%	100%
	Retained	5,953	26%	100%	1,479	37%	100%	7,432	28%	100%
	Total Catch	22,701	100%	100%	3,978	100%	100%	26,679	100%	100%

Table 5 (cont.). Discarded, retained, and total catch (pounds) for 6 non-groundfish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

B. Pacific halibut

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	33,459	100%	32%	75	100%	58%	33,534	100%	32%
	Retained	90	0%	100%				90	0%	100%
	Total Catch	33,549	100%	32%	75	100%	58%	33,624	100%	32%
75-149.9	Discarded	1,556	100%	2%				1,556	100%	2%
	Retained									
	Total Catch	1,556	100%	2%				1,556	100%	2%
>150	Discarded	68,269	100%	66%	55	100%	42%	68,324	100%	66%
	Retained									
	Total Catch	68,269	100%	66%	55	100%	42%	68,324	100%	66%
TOTAL	Discarded	103,285	100%	100%	129	100%	100%	103,414	100%	100%
	Retained	90	0%	100%				90	0%	100%
	Total Catch	103,375	100%	100%	129	100%	100%	103,504	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded	3,748	100%	18%				3,748	100%	18%
	Retained									
	Total Catch	3,748	100%	18%				3,748	100%	18%
75-149.9	Discarded	17,594	100%	82%				17,594	100%	82%
	Retained									
	Total Catch	17,594	100%	82%				17,594	100%	82%
TOTAL	Discarded	21,342	100%	100%				21,342	100%	100%
	Retained									
	Total Catch	21,342	100%	100%				21,342	100%	100%
Groundfish Trawl Gear										
>150	Discarded	39,129	100%	100%	34	100%	100%	39,163	100%	100%
	Retained									
	Total Catch	39,129	100%	100%	34	100%	100%	39,163	100%	100%
TOTAL	Discarded	39,129	100%	100%	34	100%	100%	39,163	100%	100%
	Retained									
	Total Catch	39,129	100%	100%	34	100%	100%	39,163	100%	100%

Table 5 (cont.). Discarded, retained, and total catch (pounds) for 6 non-groundfish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

C. Chinook Salmon

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear 0-74.9	Discarded	908	100%	47%	11	100%	23%	919	100%	47%
	Retained									
	Total Catch	908	100%	47%	11	100%	23%	919	100%	47%
75-149.9	Discarded	14	100%	1%	19	100%	41%	33	100%	2%
	Retained									
	Total Catch	14	100%	1%	19	100%	41%	33	100%	2%
>150	Discarded	991	100%	52%	16	100%	35%	1,007	100%	51%
	Retained									
	Total Catch	991	100%	52%	16	100%	35%	1,007	100%	51%
TOTAL	Discarded	1,913	100%	100%	46	100%	100%	1,958	100%	100%
	Retained									
	Total Catch	1,913	100%	100%	46	100%	100%	1,958	100%	100%
January - April 2005										
Selective Flatfish Trawl 0-74.9	Discarded	2	100%	5%				2	100%	5%
	Retained									
	Total Catch	2	100%	5%				2	100%	5%
75-149.9	Discarded	28	100%	95%				28	100%	95%
	Retained									
	Total Catch	28	100%	95%				28	100%	95%
TOTAL	Discarded	29	100%	100%				29	100%	100%
	Retained									
	Total Catch	29	100%	100%				29	100%	100%
Groundfish Trawl Gear										
>150	Discarded	678	100%	100%				678	100%	100%
	Retained									
	Total Catch	678	100%	100%				678	100%	100%
TOTAL	Discarded	678	100%	100%				678	100%	100%
	Retained									
	Total Catch	678	100%	100%				678	100%	100%

Table 5 (cont.). Discarded, retained, and total catch (pounds) for 6 non-groundfish species or species groups by area, depth (fathoms) from January 1, 2004 to April 30, 2005 for groundfish tows. Trips with EFP permits and trips using mid-water trawl and Danish/Scottish seine were excluded from this table.

E. Coho Salmon

Depth Group	Disposition of fish	North of 40° 10' N.lat.			South of 40° 10' N.lat.			Coastwide		
		Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition	Pounds of species	Percent of disposition per depth group	Percent of depth group by disposition
Year 2004										
Groundfish Trawl Gear										
0-74.9	Discarded	33	100%	68%				33	100%	68%
	Retained									
	Total Catch	33	100%	68%				33	100%	68%
75-149.9	Discarded									
	Retained									
	Total Catch									
>150	Discarded	15	100%	32%				15	100%	32%
	Retained									
	Total Catch	15	100%	32%				15	100%	32%
TOTAL	Discarded	48	100%	100%				48	100%	100%
	Retained									
	Total Catch	48	100%	100%				48	100%	100%
January - April 2005										
Selective Flatfish Trawl										
0-74.9	Discarded									
	Retained									
	Total Catch									
75-149.9	Discarded									
	Retained									
	Total Catch									
TOTAL	Discarded									
	Retained									
	Total Catch									
Groundfish Trawl Gear										
>150	Discarded	3	100%	100%				3	100%	100%
	Retained									
	Total Catch	3	100%	100%				3	100%	100%
TOTAL	Discarded	3	100%	100%				3	100%	100%
	Retained									
	Total Catch	3	100%	100%				3	100%	100%

Table 6. Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

A. Bocaccio Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004												
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000				
					229	0.0000						
					596	0.0108	0.0108	0.0020	0.0020	100.000%		
					164	0.0000						
					0							
					57	0.0000		0.0000				
					275	0.0485	0.0287	0.0055	0.0032	100.000%		
	412	0.0153	0.0090	0.0018	0.0011	100.000%						
	175	0.0000										
	178	0.0046	0.0033	0.0008	0.0005	100.000%						
	266	0.0000										
	226	0.0000										
	2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	16.7666	8.2648	8.6715	4.5935	100.000%	
						28	6.6796	4.8589	1.3178	0.9894	100.000%	
10						0.6777	0.6266	0.2442	0.2165	67.430%	32.739%	
6												
7						1.1966	0.9668	0.3075	0.2147	100.000%		
59						0.0000		0.0000				
189						0.0988	0.0358	0.0168	0.0063	89.903%	5.310%	
85		0.0908	0.0727	0.0106	0.0083	57.813%	21.092%					
79		0.0000										
111		0.8864	0.4439	0.1696	0.0840	100.000%						
85		0.0000				0.000%						
2005												
2005		North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000			
				75-149.9	1-2	121	0.0000		0.0000		0.000%	
		Groundfish Trawl Gear	>150	1	301	0.0306	0.0157	0.0033	0.0017	100.000%		
			2	303	0.0000		0.0000					
	South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000				
2	109	0.0645	0.0527	0.0075	0.0061	100.000%						

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

B. Canary Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.6185	0.2391	0.0967	0.0370	53.503%	11.053%			
					229	1.8666	0.9973	0.2408	0.1269	61.231%	16.135%			
				4	596	0.6769	0.2491	0.1232	0.0451	37.889%	11.658%			
				5	164	0.9161	0.4855	0.1399	0.0749	66.533%	12.776%			
				6	0									
				75-149.9	1-6	57	1.1179	0.6670	0.1172	0.0706	24.318%	13.242%		
			>150	1-6	1	275	0.0161	0.0124	0.0018	0.0014	100.000%			
					2	412	0.0702	0.0461	0.0082	0.0054	100.000%			
					3	175	0.0713	0.0567	0.0100	0.0079	100.000%			
					4	178	0.0561	0.0346	0.0092	0.0057	100.000%			
					5	266	0.0000		0.0000		0.000%			
					6	226	0.0000		0.0000					
			2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000		0.000%	
								28	0.0000		0.0000		0.000%	
							4-5	10	9.3821	10.1105	3.3807	3.3405	45.709%	0.703%
6	0													
75-149.9	1-6	7				0.0000		0.0000						
>150	1-6	1				59	0.0000		0.0000					
		2				189	0.0044	0.0044	0.0007	0.0007	74.176%	27.162%		
		3				85	0.0000		0.0000					
		4				79	0.0000		0.0000					
		5				111	0.0000		0.0000					
		6	85	0.0000		0.0000								
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.2857	0.0879	0.0531	0.0172	40.078%	13.531%			
			75-149.9	1-2	121	2.8394	0.6975	0.4416	0.1023	81.285%	7.352%			
		Groundfish Trawl Gear	>150	1	301	0.0153	0.0100	0.0017	0.0011	100.000%				
				2	303	0.0019	0.0019	0.0002	0.0002	100.000%				
		South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000					
					2	109	0.0000		0.0000					

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

C. Cowcod Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004											
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000			
					229	0.0000		0.0000			
					596	0.0000		0.0000			
					164	0.0000		0.0000			
					0						
					57	0.0000		0.0000			
					275	0.0000		0.0000			
	North	Groundfish Trawl Gear	75-149.9	1-6	412	0.0000		0.0000			
					175	0.0000		0.0000			
					178	0.0000		0.0000			
					266	0.0000		0.0000			
					226	0.0000		0.0000			
					59	0.0000		0.0000			
					189	0.0035	0.0035	0.0006	0.0006	100.000%	
South	Groundfish Trawl Gear	0-74.9	1-2	37	0.7873	0.4249	0.4072	0.2377	100.000%		
				28	0.6903	0.5645	0.1362	0.1143	100.000%		
				10	0.2905	0.2898	0.1047	0.1124	100.000%		
				0							
				7	4.2901	4.4484	1.1024	1.1232	100.000%		
				59	0.0000		0.0000				
				85	0.0000		0.0000				
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000			
					121	0.0000		0.0000			
					301	0.0000		0.0000			
	North	Groundfish Trawl Gear	>150	1	303	0.0000		0.0000			
					61	0.0000		0.0000			
					109	0.0000		0.0000			
	South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000			
					109	0.0000		0.0000			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

D. Widow Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species			
						lb/hr	se	ratio	se	%	se		
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000		0.000%			
					229	0.0045	0.0045	0.0006	0.0006	1.900%	2.044%		
				596	0.0000		0.0000						
				164	0.9240	0.9295	0.1411	0.1422	24.852%	19.893%			
				0									
				57	0.0000		0.0000						
			>150	1-6	1	275	0.0281	0.0197	0.0032	0.0022	100.000%		
					2	412	0.1420	0.1127	0.0166	0.0132	100.000%		
				3	175	0.9930	0.7410	0.1389	0.1041	100.000%			
				4	178	0.0380	0.0296	0.0063	0.0049	47.050%	21.591%		
				5	266	0.1668	0.1606	0.0277	0.0265	100.000%			
				226	0.0000		0.0000						
			South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000		0.000%	
							28	0.0000		0.0000			
						10	0.0000		0.0000		0.000%		
0													
75-149.9	1-6	7			0.0000		0.0000						
		59			0.0000		0.0000						
>150	1-6	2			189	0.0000		0.0000		0.000%			
		3			85	0.7036	0.7110	0.0820	0.0830	100.000%			
	4	79			0.0000		0.0000						
	5	111			0.0000		0.0000						
85	0.0000		0.0000										
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000		0.000%			
					121	0.0098	0.0097	0.0015	0.0015	72.875%	21.539%		
			>150	1-2	1	301	0.3254	0.2273	0.0354	0.0248	90.899%	10.102%	
	2	303			0.0129	0.0061	0.0012	0.0006	11.031%	6.001%			
	South	Groundfish Trawl Gear	>150	1-2	61	0.0000		0.0000					
					109	0.0000		0.0000					

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

E. Yelloweye Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0051	0.0051	0.0008	0.0008	100.000%		
					229	0.0000		0.0000				
				4	596	0.1002	0.0931	0.0182	0.0170	72.680%	20.038%	
				5	164	0.0000		0.0000		0.000%		
				6	0							
				1-6	57	0.0000		0.0000		0.000%		
			>150	1	275	0.0000		0.0000				
				2	412	0.0080	0.0080	0.0009	0.0009	100.000%		
				3	175	0.0258	0.0224	0.0036	0.0031	100.000%		
				4	178	0.0012	0.0012	0.0002	0.0002	100.000%		
				5	266	0.0000		0.0000				
				6	226	0.0000		0.0000				
				South	0-74.9	1-2	37	0.0000		0.0000		
							28	0.0000		0.0000		
4-5	10	0.0000				0.0000						
6	0											
75-149.9	1-6	7	0.0000			0.0000						
		>150	1		59	0.0000		0.0000				
			2		189	0.0000		0.0000				
			3		85	0.0000		0.0000				
4	79		0.0000		0.0000							
5	111	0.0000		0.0000								
6	85	0.0000		0.0000								
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0018	0.0018	0.0003	0.0003	100.000%		
					121	0.0226	0.0160	0.0035	0.0025	100.000%		
		Groundfish Trawl Gear	>150	1	301	0.0331	0.0303	0.0036	0.0033	100.000%		
				2	303	0.0000		0.0000				
		South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000			
					2	109	0.0000		0.0000			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

F. Darkblotched Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species			
						lb/hr	se	ratio	se	%	se		
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0012	0.0008	0.0002	0.0001	24.528%	13.889%		
					229	0.0089	0.0043	0.0012	0.0005	24.311%	12.836%		
				4	596	0.2352	0.0836	0.0428	0.0152	8.687%	3.347%		
				5	164	0.0603	0.0296	0.0092	0.0045	2.512%	1.402%		
				6	0								
				1-6	57	2.2847	0.9401	0.2395	0.0910	21.745%	11.639%		
			>150	1	275	2.9362	1.4024	0.3306	0.1565	29.574%	9.108%		
				2	412	0.6341	0.4165	0.0743	0.0488	13.190%	7.629%		
				3	175	0.3690	0.1961	0.0516	0.0272	2.365%	1.276%		
				4	178	7.3671	5.3244	1.2136	0.8370	18.619%	6.164%		
				5	266	3.5263	2.0291	0.5848	0.3378	25.290%	10.998%		
				6	226	0.4575	0.2388	0.0728	0.0380	100.000%			
				South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000		
							3	28	0.0000		0.0000		
4-5	10	0.0000					0.0000						
6	0												
1-6	7	0.0000				0.0000							
>150	1	59	0.5295			0.5044	0.0687	0.0661	100.000%				
	2	189	0.1213	0.0303	0.0207	0.0055	41.844%	8.072%					
	3	85	0.1571	0.1288	0.0183	0.0150	1.218%	1.117%					
	4	79	0.0000		0.0000								
	5	111	0.1839	0.1177	0.0352	0.0224	48.228%	20.664%					
	6	85	0.1702	0.1013	0.0188	0.0109	100.000%						
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0319	0.0127	0.0059	0.0024	100.000%			
			75-149.9	1-2	121	1.7102	0.7941	0.2660	0.1265	69.380%	18.954%		
		Groundfish Trawl Gear	>150	1	301	5.3097	1.3359	0.5785	0.1475	40.014%	6.642%		
				2	303	0.2555	0.0787	0.0247	0.0077	5.136%	1.638%		
		South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000				
					2	109	0.0074	0.0074	0.0009	0.0009	0.512%	0.532%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

G. Pacific Ocean Perch

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000						
					229	0.0037	0.0026	0.0005	0.0003	0.962%	0.640%			
				596	0.0000		0.0000							
				164	0.0011	0.0011	0.0002	0.0002	40.000%	34.045%				
				0										
				57	1.9778	1.2565	0.2073	0.1412	6.324%	6.135%				
			>150	1-6	275	2.9761	1.3217	0.3351	0.1480	42.374%	12.377%			
					412	0.6068	0.3795	0.0711	0.0444	10.371%	4.374%			
				175	1.2843	1.0843	0.1797	0.1509	10.595%	7.849%				
				178	2.7996	1.1810	0.4612	0.1899	30.109%	10.633%				
				266	2.0311	0.7637	0.3368	0.1267	24.253%	9.303%				
				226	0.3399	0.2910	0.0541	0.0462	6.182%	3.594%				
				South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000			
								28	0.0000		0.0000			
10	0.0000		0.0000											
0														
>150	1-6	7	0.0000				0.0000							
		59	0.0000				0.0000							
	189	0.0000				0.0000								
	85	0.0000				0.0000		0.000%						
79	0.0000		0.0000											
111	0.0000		0.0000											
85	0.0000		0.0000											
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000		0.000%				
					121	0.0005	0.0005	0.0001	0.0001	0.344%	0.354%			
			>150	1-2	301	2.4874	1.3039	0.2710	0.1420	31.219%	11.714%			
					303	0.1655	0.0902	0.0160	0.0088	5.130%	2.640%			
			South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000				
							109	0.0000		0.0000				

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

H. Lingcod

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004											
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	2.7207	0.4974	0.4255	0.0774	37.481%	4.301%
					229	6.4588	0.9238	0.8332	0.1217	51.193%	4.970%
					596	18.7679	2.8220	3.4151	0.5101	73.856%	3.579%
					164	22.8193	4.6381	3.4842	0.7391	66.579%	5.124%
					0						
					57	21.3872	11.7745	2.2420	1.2758	71.648%	13.198%
					275	2.4929	0.4304	0.2807	0.0490	100.000%	
	South	Groundfish Trawl Gear	0-74.9	1-2	275	2.4929	0.4304	0.2807	0.0490	100.000%	
					412	0.7029	0.1720	0.0824	0.0205	99.415%	0.600%
					175	0.7475	0.2748	0.1046	0.0383	99.598%	0.211%
					178	1.1608	0.4165	0.1912	0.0678	90.939%	4.863%
					266	1.4700	0.6175	0.2438	0.1019	49.585%	12.661%
					226	3.3506	1.5444	0.5332	0.2479	81.682%	8.258%
					7	1.1040	1.0501	0.2837	0.2387	2.002%	0.660%
South	Groundfish Trawl Gear	75-149.9	1-6	59	0.2264	0.2040	0.0294	0.0267	100.000%		
				189	0.9408	0.2176	0.1602	0.0386	68.278%	8.215%	
				85	14.1308	4.4393	1.6477	0.4933	98.630%	1.419%	
				79	0.0000		0.0000				
				111	4.8270	3.1307	0.9233	0.5949	73.166%	13.216%	
				85	0.0000		0.0000		0.000%		
				85	0.0000		0.0000		0.000%		
2005											
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	3.1977	1.0230	0.5944	0.1991	32.048%	6.511%
					121	23.1956	3.9885	3.6079	0.6845	87.055%	3.252%
	South	Groundfish Trawl Gear	>150	1	301	3.4110	0.4405	0.3716	0.0501	74.500%	4.703%
					303	1.0937	0.4573	0.1057	0.0444	45.807%	9.560%
					61	0.0488	0.0394	0.0057	0.0048	1.683%	1.443%
109	0.6164	0.3217	0.0712	0.0374	35.633%	20.571%					

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

I. Dover sole

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species					
						lb/hr	se	ratio	se	%	se				
2004															
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	4.4292	1.0453	0.6927	0.1663	13.887%	3.523%				
					3	229	10.5718	2.0795	1.3638	0.2839	11.478%	2.715%			
				4	596	8.0577	1.0953	1.4662	0.2043	5.672%	0.772%				
				5	164	21.3664	2.9196	3.2623	0.4886	10.497%	1.770%				
				6	0										
				1-6	57	8.2754	2.9020	0.8675	0.3091	3.525%	1.392%				
			>150	1	275	4.9006	2.0497	0.5518	0.2323	1.563%	0.651%				
				2	412	9.6171	2.8380	1.1269	0.3318	1.883%	0.548%				
				3	175	11.6485	2.5389	1.6296	0.3895	5.396%	1.325%				
				4	178	14.1471	2.8685	2.3305	0.4751	5.986%	1.312%				
				5	266	8.3328	1.3698	1.3818	0.2192	2.946%	0.464%				
				6	226	18.8039	4.9233	2.9922	0.8202	5.551%	1.518%				
				South											
				2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.7438	0.6527	0.3847	0.3281	100.000%	
3	28	0.4247	0.3166					0.0838	0.0606	97.118%	2.652%				
4-5	10	3.3314	2.9917					1.2004	1.0582	60.355%	34.807%				
6	0														
1-6	7	1.1731	0.7193				0.3014	0.1872	17.755%	15.945%					
>150	1	59	34.8766				15.5186	4.5256	1.9397	8.289%	3.422%				
	2	189	44.9826				11.1568	7.6608	1.9238	12.016%	2.811%				
	3	85	10.6522				4.0842	1.2421	0.4883	2.575%	1.045%				
	4	79	21.1586				5.6466	3.2217	0.8785	5.297%	1.436%				
	5	111	49.8618				9.3971	9.5379	2.0394	18.932%	4.032%				
	6	85	12.5521	4.8567	1.3842	0.5398	3.526%	1.407%							
2005															
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	3.6656	0.8668	0.6814	0.1600	10.351%	2.059%				
			75-149.9	1-2	121	5.8919	1.0530	0.9164	0.1723	7.113%	1.054%				
		Groundfish Trawl Gear	>150	1	301	18.8760	5.1765	2.0564	0.5599	5.710%	1.480%				
				2	303	8.5044	2.7108	0.8219	0.2637	1.279%	0.413%				
		2005	South	Groundfish Trawl Gear	>150	1	61	15.5646	5.4303	1.8333	0.5804	6.627%	2.355%		
						2	109	19.0989	6.2972	2.2070	0.7199	5.355%	1.658%		

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

J. Longspine thornyhead

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000			
				3	229	0.0000		0.0000			
				4	596	0.0000		0.0000		0.000%	
				5	164	0.0000		0.0000		0.000%	
				6	0						
			75-149.9	1-6	57	0.0000		0.0000		0.000%	
			>150	1	275	1.5834	0.4620	0.1783	0.0540	12.118%	3.962%
				2	412	1.9523	0.6984	0.2288	0.0831	7.893%	2.603%
				3	175	2.6509	0.9976	0.3709	0.1487	7.373%	2.659%
				4	178	4.4850	1.6261	0.7388	0.2822	8.131%	2.539%
				5	266	3.0743	0.6236	0.5098	0.1066	12.142%	2.490%
				6	226	5.0912	1.1181	0.8102	0.1866	12.517%	2.597%
	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000			
				3	28	0.0000		0.0000			
				4-5	10	0.0000		0.0000			
				6	0						
			75-149.9	1-6	7	0.0000		0.0000			
			>150	1	59	28.2303	10.6758	3.6632	1.5134	18.719%	5.206%
				2	189	2.8915	1.3758	0.4924	0.2378	4.916%	2.254%
				3	85	0.3320	0.1978	0.0387	0.0231	0.597%	0.380%
				4	79	7.9037	1.9146	1.2035	0.2865	16.880%	4.192%
				5	111	15.7256	5.2858	3.0081	1.0384	15.580%	4.689%
				6	85	16.3082	3.0451	1.7984	0.3935	8.739%	1.528%
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000			
			75-149.9	1-2	121	0.0000		0.0000			
		Groundfish Trawl Gear	>150	1	301	0.6467	0.2112	0.0705	0.0240	3.912%	1.216%
				2	303	1.6836	0.5498	0.1627	0.0543	11.833%	5.003%
	South	Groundfish Trawl Gear	>150	1	61	3.8146	1.7594	0.4493	0.2125	5.601%	2.093%
				2	109	4.8086	1.4734	0.5557	0.1707	5.838%	1.966%

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

K. Shortspine Thornyhead

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000				
					229	0.0043	0.0031	0.0006	0.0004	57.746%	30.306%	
				4	596	0.0000		0.0000		0.000%		
				5	164	0.0000		0.0000		0.000%		
				6	0							
				1-6	57	6.0119	2.9319	0.6302	0.2943	31.661%	11.403%	
			>150	1	275	4.4246	0.6160	0.4982	0.0721	29.551%	3.449%	
				2	412	2.8609	0.5344	0.3352	0.0624	12.603%	2.214%	
				3	175	10.4383	1.6862	1.4603	0.2295	27.327%	3.505%	
	4	178		8.4679	2.3893	1.3950	0.3906	19.145%	4.515%			
	5	266		5.7658	0.8789	0.9561	0.1556	14.754%	2.139%			
	6	226		2.1797	0.3327	0.3468	0.0550	5.818%	0.954%			
	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000		0.000%		
					28	0.0000		0.0000				
				4-5	10	0.0000		0.0000				
6					0							
1-6			7	0.0000		0.0000		0.000%				
>150			1	59	16.0310	6.4159	2.0802	0.8779	36.634%	10.857%		
			2	189	5.8557	1.9765	0.9973	0.3434	25.062%	7.119%		
			3	85	1.7917	0.7688	0.2089	0.0905	6.433%	2.692%		
			4	79	5.6106	1.8104	0.8543	0.2813	17.076%	5.278%		
	5	111	3.2662	1.3642	0.6248	0.2618	11.141%	4.329%				
6	85	4.3492	1.7465	0.4796	0.1987	9.021%	3.486%					
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000				
			75-149.9	1-2	121	0.0000		0.0000		0.000%		
			>150	Groundfish Trawl Gear	1	301	1.9687	0.2621	0.2145	0.0283	14.792%	2.120%
	2	303			2.9938	0.5024	0.2893	0.0499	10.652%	1.655%		
	South	Groundfish Trawl Gear	>150	1	61	5.0416	2.7695	0.5939	0.3219	23.800%	11.055%	
				2	109	3.6377	1.2948	0.4204	0.1488	12.695%	4.505%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

L. Mixed Thornyheads

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000		0.000%		
					229	0.0000		0.0000				
					596	0.0000		0.0000				
					164	0.0000		0.0000				
					0							
					0							
			57	0.0000		0.0000		0.000%				
			>150	1-6	1	275	2.6038	0.7185	0.2932	0.0816	79.960%	7.753%
					2	412	8.3877	1.2812	0.9828	0.1576	57.396%	7.948%
					3	175	10.1853	1.7504	1.4249	0.2895	67.728%	8.083%
					4	178	6.3036	1.5566	1.0384	0.2696	99.129%	0.897%
					5	266	9.9042	1.7792	1.6424	0.3146	84.472%	5.699%
					6	226	8.5364	1.4097	1.3584	0.2495	71.092%	7.783%
					South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000
28	0.0000								0.0000			
10	0.0000		0.0000									
0												
7	0.0000		0.0000									
>150	1-6	1	59	2.0021			1.1077	0.2598	0.1515	12.931%	8.502%	
		2	189	3.6036			1.0594	0.6137	0.1832	99.251%	0.585%	
		3	85	1.4750			0.7478	0.1720	0.0918	100.000%		
		4	79	0.9473	0.9439	0.1442	0.1449	100.000%				
5	111	15.4140	6.1742	2.9485	1.2408	100.000%						
6	85	4.2617	1.4776	0.4700	0.1661	100.000%						
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000				
			75-149.9	1-2	121	0.0000		0.0000				
		Groundfish Trawl Gear	>150	1	301	2.7157	0.7162	0.2959	0.0819	31.006%	9.945%	
				2	303	10.5484	2.3753	1.0195	0.2447	82.074%	4.832%	
		South	Groundfish Trawl Gear	>150	1	61	0.0627	0.0356	0.0074	0.0040	5.189%	3.166%
					2	109	5.9986	3.8632	0.6932	0.4600	100.000%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

M. Sablefish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004												
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.7798	0.1426	0.1220	0.0221	24.922%	6.617%	
					229	4.9460	0.9047	0.6381	0.1125	17.425%	5.062%	
					596	6.3043	1.9105	1.1472	0.3422	11.245%	2.781%	
					164	5.0216	0.9049	0.7667	0.1438	26.283%	11.955%	
					0							
					57	27.3331	14.2702	2.8653	1.4321	11.941%	5.837%	
					275	40.6501	6.6410	4.5773	0.7077	41.570%	3.700%	
	412	56.5052	6.4307	6.6211	0.7363	43.285%	3.157%					
	175	37.8635	5.8554	5.2971	0.8093	24.233%	3.241%					
	178	28.1054	4.2919	4.6299	0.7037	17.191%	2.408%					
	266	46.1144	5.1806	7.6471	0.8984	23.644%	2.351%					
	226	18.8469	3.9783	2.9991	0.6198	11.780%	2.056%					
	2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	4.0621	2.9415	2.1009	1.0968	76.391%	8.826%
						28	0.9534	0.9475	0.1881	0.1911	23.019%	0.000%
10						1.0187	1.0043	0.3671	0.3898	100.000%		
0												
7						0.0000		0.0000		0.000%		
59						49.7355	15.7180	6.4538	1.9471	37.364%	8.751%	
189						22.0631	3.6365	3.7575	0.5457	22.336%	2.909%	
85		9.1418	2.2312	1.0660	0.2523	7.626%	1.739%					
79		9.7051	3.2663	1.4777	0.4837	9.770%	3.083%					
111		26.0864	4.0387	4.9900	0.7812	28.017%	3.589%					
85		19.3711	3.7260	2.1362	0.3784	12.653%	2.206%					
2005												
2005		North	Selective Flatfish Gear	0-74.9	1-2	132	1.1942	0.2568	0.2220	0.0512	97.038%	2.111%
						121	46.9995	13.1813	7.3104	2.0238	74.881%	8.956%
	North	Groundfish Trawl Gear	>150	1	301	21.9514	1.9108	2.3915	0.2300	34.081%	2.531%	
					303	20.7107	3.4945	2.0016	0.3627	14.729%	2.449%	
	2005	South	Groundfish Trawl Gear	>150	1	61	16.2625	8.3827	1.9155	0.9690	12.710%	5.418%
109						36.1702	7.4441	4.1797	0.8122	21.907%	3.891%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

N. Pacific Hake

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species					
						lb/hr	se	ratio	se	%	se				
2004															
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	65.3798	15.3180	10.2256	2.4290	100.000%					
					3	229	272.0270	30.3994	35.0926	4.3655	100.000%				
				4	596	141.1703	12.9366	25.6880	2.5637	100.000%					
				5	164	335.8817	70.8562	51.2843	11.1406	100.000%					
				6	0										
				1-6	57	25.0206	8.9442	2.6229	0.9850	100.000%					
			>150	1	275	161.2522	20.4981	18.1573	2.4316	97.779%	1.345%				
				2	412	13.0791	2.3556	1.5326	0.2818	79.317%	6.910%				
				3	175	5.0444	0.7185	0.7057	0.0998	100.000%					
				4	178	51.4532	9.5826	8.4761	1.5037	100.000%					
				5	266	112.3072	12.4216	18.6238	2.1956	100.000%					
				6	226	123.6857	15.0368	19.6817	2.2903	100.000%					
				South Groundfish Trawl Gear											
				2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	56.6544	27.0001	29.3011	15.9077	96.604%	3.647%
3	28	178.1014	63.1614					35.1366	13.5960	100.000%					
4-5	10	29.8572	18.4727					10.7584	7.0833	100.000%					
6	0														
1-6	7	405.9350	372.6524				104.3146	103.5132	100.000%						
>150	1	59	19.9136				5.3605	2.5840	0.6440	100.000%					
	2	189	9.8747				1.6984	1.6817	0.3036	98.965%	0.752%				
	3	85	10.9458				2.6567	1.2763	0.2610	100.000%					
	4	79	38.8344				7.3386	5.9131	1.0664	100.000%					
	5	111	45.1501				8.7057	8.6366	1.5554	100.000%					
	6	85	88.0662	16.8109	9.7118	1.6815	100.000%								
2005															
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.3467	0.0823	0.0644	0.0151	100.000%					
			75-149.9	1-2	121	1.8091	0.3412	0.2814	0.0539	100.000%					
		Groundfish Trawl Gear	>150	1	301	63.8276	8.4021	6.9536	0.9389	100.000%					
				2	303	27.6464	5.3723	2.6719	0.5241	100.000%					
		South	Groundfish Trawl Gear	>150	1	61	81.8768	11.2566	9.6442	1.6044	100.000%				
					2	109	56.8917	9.5906	6.5742	1.1458	100.000%				

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

O. Arrowtooth Flounder

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	7.6063	1.2607	1.1897	0.1931	67.660%	16.111%			
					229	94.7459	26.1263	12.2226	3.3816	71.062%	6.037%			
				4	596	52.1816	4.5433	9.4952	0.9203	79.509%	2.522%			
				5	164	41.7167	6.2623	6.3695	0.9521	61.768%	5.522%			
				6	0									
				1-6	57	148.3364	28.3087	15.5500	3.8413	41.538%	10.111%			
			>150	1	275	10.5070	1.4981	1.1831	0.1700	13.603%	2.513%			
				2	412	7.2003	1.0867	0.8437	0.1169	5.027%	0.740%			
				3	175	4.6581	1.2245	0.6517	0.1755	2.012%	0.662%			
				4	178	4.7681	1.6582	0.7855	0.2754	12.637%	4.322%			
				5	266	5.2940	1.5178	0.8779	0.2471	12.585%	3.121%			
				6	226	7.7318	1.6127	1.2303	0.2558	17.128%	3.729%			
				South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000			
							3	28	0.0000		0.0000			
4-5	10	0.0772	0.0735				0.0278	0.0260	51.641%	16.029%				
6	0													
>150	1-6	7	0.0000				0.0000							
	1	59	0.9029			0.5138	0.1172	0.0670	100.000%					
2	189	1.5405	0.7848	0.2624	0.1314	79.201%	9.988%							
3	85	4.3158	1.1363	0.5032	0.1203	97.613%	1.536%							
4	79	5.8109	1.5127	0.8848	0.2398	81.085%	9.953%							
5	111	1.3330	0.4480	0.2550	0.0845	92.693%	4.301%							
6	85	0.3059	0.2528	0.0337	0.0277	57.203%	23.832%							
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	9.5398	2.3269	1.7734	0.4363	68.415%	8.203%			
				1-2	121	62.7498	11.1235	9.7603	1.8026	47.432%	6.318%			
			>150	1	301	27.0006	3.2200	2.9415	0.3362	19.018%	2.213%			
				2	303	22.4020	3.5020	2.1650	0.3386	18.740%	3.190%			
			South	Groundfish Trawl Gear	>150	1	61	1.2628	1.0083	0.1487	0.1177	21.093%	15.117%	
						2	109	10.1834	1.9803	1.1768	0.2368	100.000%		

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

P. English Sole

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	45.5007	3.8880	7.1164	0.5898	27.470%	2.061%			
					3	229	20.3892	2.4349	2.6303	0.3276	9.394%	1.247%		
				4	596	10.3251	1.0927	1.8788	0.2045	16.163%	1.495%			
				5	164	37.3342	6.6915	5.7004	1.1130	22.144%	4.167%			
				6	0									
				1-6	57	3.2104	1.1791	0.3365	0.1322	6.004%	1.748%			
			>150	1	275	0.0945	0.0297	0.0106	0.0034	0.176%	0.055%			
					2	412	0.1411	0.0292	0.0165	0.0035	3.056%	0.473%		
				3	175	0.0166	0.0098	0.0023	0.0014	0.295%	0.145%			
				4	178	0.1299	0.0565	0.0214	0.0093	3.428%	1.450%			
				5	266	0.5524	0.2205	0.0916	0.0363	6.850%	2.235%			
				6	226	0.0766	0.0277	0.0122	0.0045	2.717%	1.160%			
				South	Groundfish Trawl Gear	0-74.9	1-2	37	68.7365	48.5457	35.5498	23.3652	68.533%	14.337%
								3	28	61.4428	11.0913	12.1217	2.0529	53.499%
							4-5	10	9.4642	3.5126	3.4102	1.3474	11.751%	7.026%
6	0													
1-6	7	14.4377	7.1220	3.7101	2.0443	11.516%	8.027%							
>150	1	59	3.3946	2.0343	0.4405	0.2687	30.137%	5.668%						
		2	189	5.1738	1.2179	0.8811	0.2212	40.138%	4.332%					
	3	85	0.0009	0.0009	0.0001	0.0001	0.031%	0.034%						
	4	79	0.1479	0.1347	0.0225	0.0208	35.011%	20.630%						
	5	111	0.6788	0.2449	0.1298	0.0461	26.971%	14.809%						
	6	85	0.0135	0.0108	0.0015	0.0012	1.458%	1.402%						
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	23.6641	3.5063	4.3990	0.6208	17.806%	2.087%			
					75-149.9	1-2	121	14.1254	2.9478	2.1971	0.4398	12.689%	2.216%	
			Groundfish Trawl Gear	>150	1	301	12.5338	4.5891	1.3655	0.5063	22.506%	6.661%		
	2	303			0.7122	0.3241	0.0688	0.0315	24.745%	9.661%				
	South	Groundfish Trawl Gear	>150	1	61	1.0034	0.5585	0.1182	0.0671	8.418%	4.436%			
				2	109	0.1935	0.1612	0.0224	0.0186	1.653%	1.375%			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

Q. Petrale Sole

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species					
						lb/hr	se	ratio	se	%	se				
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	16.4400	2.7644	2.5713	0.4393	15.102%	2.471%				
					229	6.7343	0.8197	0.8687	0.1157	5.492%	0.723%				
					596	6.5992	0.9778	1.2008	0.1818	6.884%	0.846%				
					164	11.5585	2.8324	1.7648	0.4613	7.268%	1.821%				
					0										
					57	0.3212	0.1571	0.0337	0.0178	3.745%	2.027%				
			>150	1-6	1	275	0.7121	0.2081	0.0802	0.0235	0.226%	0.065%			
					2	412	0.3918	0.1273	0.0459	0.0149	1.292%	0.298%			
					3	175	0.0003	0.0003	0.0000	0.0000	0.356%	0.271%			
					4	178	0.0000		0.0000		0.000%				
					5	266	0.0019	0.0019	0.0003	0.0003	0.088%	0.091%			
					6	226	0.0687	0.0337	0.0109	0.0054	0.314%	0.153%			
					South	Groundfish Trawl Gear	0-74.9	1-2	37	10.1000	6.9405	5.2236	2.7540	12.762%	4.577%
									28	16.8915	4.8933	3.3324	0.8534	6.095%	1.147%
									10	1.4491	1.0423	0.5221	0.3963	1.620%	1.101%
0															
>150	1-6	7	4.4934	4.2729			1.1547	1.1867	4.745%	5.383%					
		1	59	0.0864			0.0488	0.0112	0.0064	0.984%	0.479%				
				189	0.4048	0.1379	0.0689	0.0243	1.201%	0.367%					
				85	0.0000		0.0000		0.000%						
				79	0.0000		0.0000		0.000%						
				111	0.0000		0.0000		0.000%						
				85	0.0306	0.0258	0.0034	0.0029	0.213%	0.183%					
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	3.8444	0.5615	0.7146	0.1227	3.410%	0.671%				
					121	14.7452	2.8572	2.2935	0.4237	7.448%	1.082%				
			>150	1-2	1	301	0.4870	0.1304	0.0531	0.0145	0.156%	0.041%			
	2	303			0.7541	0.3368	0.0729	0.0327	1.115%	0.492%					
	South	Groundfish Trawl Gear	>150	1	61	0.3296	0.2123	0.0388	0.0251	0.267%	0.172%				
					2	109	0.0353	0.0323	0.0041	0.0037	0.048%	0.043%			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

R. Starry Flounder

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004											
	North	Groundfish Trawl Gear									
		0-74.9	1-2	316	1.6118	0.3557	0.2521	0.0563	4.165%	1.033%	
			3	229	1.2071	0.4776	0.1557	0.0621	28.939%	5.315%	
			4	596	9.6288	2.1995	1.7521	0.4014	32.267%	2.700%	
			5	164	4.3799	3.4271	0.6687	0.5254	35.103%	17.437%	
			6	0							
		75-149.9	1-6	57	0.0000		0.0000		0.000%		
		>150	1	275	0.0000		0.0000				
			2	412	0.0000		0.0000				
			3	175	0.0000		0.0000				
			4	178	0.0000		0.0000				
			5	266	0.0000		0.0000		0.000%		
			6	226	0.0000		0.0000				
	South	Groundfish Trawl Gear									
		0-74.9	1-2	37	0.0000		0.0000		0.000%		
			3	28	0.0529	0.0351	0.0104	0.0071	5.660%	0.934%	
			4-5	10	0.0331	0.0345	0.0119	0.0125	3.475%	2.719%	
			6	0							
		75-149.9	1-6	7	0.0000		0.0000				
		>150	1	59	0.0000		0.0000				
			2	189	0.0000		0.0000				
			3	85	0.0000		0.0000				
			4	79	0.0000		0.0000				
			5	111	0.0000		0.0000				
			6	85	0.0000		0.0000				
2005											
	North	Selective Flatfish Gear									
		0-74.9	1-2	132	0.0000		0.0000		0.000%		
		75-149.9	1-2	121	0.0000		0.0000		0.000%		
		Groundfish Trawl Gear									
		>150	1	301	0.0000		0.0000				
			2	303	0.0000		0.0000		0.000%		
	South	Groundfish Trawl Gear									
		>150	1	61	0.0000		0.0000				
			2	109	0.0000		0.0000				

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

S. Other Flatfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004											
	North	Groundfish Trawl Gear									
		0-74.9	1-2	316	78.5119	6.9470	12.2795	1.1473	46.093%	2.677%	
			3	229	60.5207	8.9534	7.8074	1.1547	43.443%	3.339%	
			4	596	36.1110	2.5674	6.5709	0.5268	31.463%	2.150%	
			5	164	56.9304	6.5239	8.6924	1.1941	42.267%	3.616%	
			6	0							
		75-149.9	1-6	57	35.4483	7.4583	3.7160	0.9314	45.519%	7.385%	
		>150	1	275	3.6331	0.9412	0.4091	0.1080	10.505%	2.499%	
			2	412	2.2793	0.4874	0.2671	0.0596	14.005%	2.927%	
			3	175	2.3092	0.3822	0.3231	0.0646	7.395%	1.801%	
			4	178	3.1099	0.3977	0.5123	0.0751	11.885%	1.727%	
			5	266	2.7327	0.3944	0.4532	0.0658	11.481%	1.546%	
			6	226	2.3966	0.3580	0.3814	0.0624	15.402%	3.004%	
	South	Groundfish Trawl Gear									
		0-74.9	1-2	37	38.9931	31.0631	20.1668	15.6495	36.584%	19.296%	
			3	28	183.8756	27.2921	36.2757	5.4521	51.662%	6.993%	
			4-5	10	68.8358	32.7509	24.8036	11.6650	53.469%	9.376%	
		75-149.9	1-6	7	13.7644	7.4744	3.5371	1.7654	61.961%	17.568%	
		>150	1	59	7.9600	2.7673	1.0329	0.3843	28.237%	10.913%	
			2	189	7.4994	1.0909	1.2772	0.2194	29.552%	3.242%	
			3	85	1.5594	0.3915	0.1818	0.0507	8.119%	2.463%	
			4	79	7.3835	2.9699	1.1242	0.4629	18.585%	6.950%	
			5	111	5.6957	0.8232	1.0895	0.1784	36.223%	7.021%	
			6	85	3.2806	0.6259	0.3618	0.0729	17.184%	8.336%	
2005											
	North	Selective Flatfish Gear									
		0-74.9	1-2	132	26.3977	3.7959	4.9071	0.6425	20.432%	2.378%	
		75-149.9	1-2	121	26.1172	3.4319	4.0623	0.5286	44.872%	5.813%	
		Groundfish Trawl Gear									
		>150	1	301	7.8818	2.6008	0.8587	0.2862	20.401%	5.373%	
			2	303	3.9756	0.9264	0.3842	0.0945	19.139%	3.721%	
	South	Groundfish Trawl Gear									
		>150	1	61	9.4132	2.1963	1.1088	0.2789	13.586%	2.802%	
			2	109	6.0136	1.1980	0.6949	0.1512	7.175%	1.761%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

T. Blackgill Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000			
				3	229	0.0000		0.0000			
				4	596	0.0000		0.0000			
				5	164	0.0000		0.0000			
				6	0						
			75-149.9	1-6	57	0.0000		0.0000			
			>150	1	275	0.1150	0.0369	0.0129	0.0041	84.590%	7.983%
				2	412	0.0094	0.0039	0.0011	0.0005	7.211%	5.688%
				3	175	0.0089	0.0089	0.0012	0.0013	69.774%	26.082%
				4	178	2.0672	1.4779	0.3405	0.2322	99.886%	0.139%
				5	266	0.0023	0.0023	0.0004	0.0004	59.322%	34.191%
				6	226	0.0036	0.0022	0.0006	0.0003	100.000%	
	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000			
				3	28	0.0000		0.0000			
				4-5	10	0.0000		0.0000			
			75-149.9	1-6	7	0.0000		0.0000			
			>150	1	59	1.2469	0.8188	0.1618	0.1043	100.000%	
				2	189	0.0491	0.0158	0.0084	0.0027	37.170%	14.879%
				3	85	0.0000		0.0000			
				4	79	0.2456	0.2100	0.0374	0.0324	100.000%	
				5	111	0.0728	0.0428	0.0139	0.0080	95.963%	4.514%
				6	85	0.0000		0.0000			
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000			
			75-149.9	1-2	121	0.0000		0.0000			
		Groundfish Trawl Gear	>150	1	301	0.0997	0.0291	0.0109	0.0033	100.000%	
				2	303	0.0000		0.0000		0.000%	
	South	Groundfish Trawl Gear	>150	1	61	0.0921	0.0649	0.0108	0.0077	100.000%	
				2	109	0.0055	0.0029	0.0006	0.0003	65.060%	25.738%

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

U. Other slope Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000				
					229	0.0019	0.0019	0.0002	0.0002	100.000%		
					596	0.0297	0.0198	0.0054	0.0036	100.000%		
					164	0.0008	0.0008	0.0001	0.0001	100.000%		
					0							
					57	2.1851	1.0990	0.2291	0.1182	100.000%		
					275	3.9118	0.5715	0.4405	0.0646	100.000%		
	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0844	0.0853	0.0437	0.0452	41.971%	34.919%	
					28	1.3587	1.3919	0.2681	0.2790	100.000%		
					10	0.0000		0.0000				
					7	13.0393	13.8549	3.3508	3.2527	100.000%		
					1	59	23.6231	11.9799	3.0654	1.5743	36.047%	11.460%
						189	8.1258	1.7799	1.3839	0.3192	33.941%	5.177%
						85	4.6999	3.8265	0.5480	0.4479	3.154%	2.617%
79	4.3266	2.3770	0.6588	0.3570		29.923%	6.699%					
111	33.8214	9.4258	6.4696	1.6713		63.040%	7.069%					
85	10.2845	4.2119	1.1342	0.4590	12.447%	4.352%						
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0281	0.0282	0.0052	0.0052	100.000%		
					121	0.3535	0.1504	0.0550	0.0236	100.000%		
	South	Groundfish Trawl Gear	>150	1	301	6.0028	0.9423	0.6540	0.1026	100.000%		
					303	1.2304	0.2716	0.1189	0.0268	99.947%	0.055%	
	South	Groundfish Trawl Gear	>150	1	61	43.9440	18.2576	5.1761	2.1257	35.479%	13.604%	
					109	14.3522	8.3803	1.6585	0.9749	30.263%	12.319%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

V. Yellowtail Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	5.1590	3.6447	0.8069	0.5633	53.780%	14.096%			
					229	2.1829	1.9798	0.2816	0.2548	17.286%	12.053%			
				4	596	0.0152	0.0057	0.0028	0.0010	0.254%	0.089%			
				5	164	0.2797	0.1888	0.0427	0.0291	13.245%	8.758%			
				6	0									
				1-6	57	0.0429	0.0423	0.0045	0.0046	0.613%	0.656%			
			>150	1	275	0.0190	0.0117	0.0021	0.0013	100.000%				
				2	412	0.3268	0.2728	0.0383	0.0320	100.000%				
				3	175	0.0046	0.0046	0.0006	0.0006	11.121%	10.654%			
				4	178	0.2930	0.1919	0.0483	0.0313	100.000%				
				5	266	0.0000		0.0000		0.000%				
				6	226	0.0145	0.0145	0.0023	0.0023	100.000%				
				South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000		0.000%	
							3	28	7.0479	3.8770	1.3904	0.8063	84.831%	11.331%
4-5	10	0.0000					0.0000							
6	0													
75-149.9	1-6	7	0.0000				0.0000							
>150	1	59	0.0000				0.0000							
	2	189	0.0132	0.0108	0.0022	0.0018	100.000%							
	3	85	0.0000		0.0000									
	4	79	0.0000		0.0000									
	5	111	0.0000		0.0000									
	6	85	0.0000		0.0000									
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.3576	0.3578	0.0665	0.0662	3.630%	3.632%			
			75-149.9	1-2	121	16.8084	7.9125	2.6144	1.2403	71.132%	11.134%			
		Groundfish Trawl Gear	>150	1	301	0.1762	0.1700	0.0192	0.0186	88.543%	12.406%			
				2	303	0.0000		0.0000						
		South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000					
					2	109	0.0000		0.0000					

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

W. Other Shelf Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.2800	0.1031	0.0438	0.0161	100.000%				
					229	0.1781	0.0373	0.0230	0.0049	100.000%				
				4	596	0.7167	0.3618	0.1304	0.0652	96.368%	2.390%			
				5	164	9.6179	2.3184	1.4685	0.3492	90.999%	5.276%			
				6	0									
				1-6	57	3.5406	1.8979	0.3712	0.1995	96.949%	3.145%			
			>150	1	275	0.7216	0.1669	0.0813	0.0187	97.609%	1.787%			
				2	412	0.3271	0.0811	0.0383	0.0096	100.000%				
				3	175	0.4079	0.1784	0.0571	0.0248	100.000%				
				4	178	3.9094	2.0423	0.6440	0.3349	100.000%				
				5	266	0.1194	0.0407	0.0198	0.0066	100.000%				
				6	226	0.1209	0.0786	0.0192	0.0125	100.000%				
				South	Groundfish Trawl Gear	0-74.9	1-2	37	10.5632	7.5975	5.4632	2.6438	82.972%	4.238%
							3	28	22.4430	8.2541	4.4276	1.7010	89.903%	7.323%
4-5	10	3.5722	2.1656				1.2872	0.8461	13.728%	11.508%				
6	0													
1-6	7	327.1515	242.9584			84.0693	67.0303	96.213%	4.643%					
>150	1	59	8.4533			4.6321	1.0969	0.6117	74.541%	11.635%				
	2	189	0.1485	0.0476	0.0253	0.0084	26.530%	14.349%						
	3	85	0.1867	0.1870	0.0218	0.0219	9.486%	7.825%						
	4	79	0.0047	0.0035	0.0007	0.0005	100.000%							
	5	111	9.2487	4.0742	1.7692	0.7638	60.088%	9.789%						
	6	85	0.1321	0.1326	0.0146	0.0146	100.000%							
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.5493	0.2158	0.1021	0.0413	100.000%				
				1-2	121	10.9080	2.1795	1.6967	0.3858	100.000%				
			>150	1	301	0.1658	0.0351	0.0181	0.0038	100.000%				
	2	303		0.1750	0.0937	0.0169	0.0091	100.000%						
	South	Groundfish Trawl Gear	>150	1	61	0.8184	0.5304	0.0964	0.0635	100.000%				
				2	109	0.1866	0.0943	0.0216	0.0111	15.722%	8.507%			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

X. Black Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.3271	0.3183	0.0512	0.0497	19.570%	14.775%	
					229	0.0000		0.0000		0.000%		
				596	0.0000		0.0000		0.000%			
				164	0.0000		0.0000					
				0								
				0								
				75-149.9	1-6	57	0.0000		0.0000		0.000%	
				>150	1-6	1	275	0.0000		0.0000		
						2	412	0.0000		0.0000		
						3	175	0.0000		0.0000		
						4	178	0.0000		0.0000		
						5	266	0.0000		0.0000		
						6	226	0.0000		0.0000		
2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000				
					28	0.0000		0.0000				
				10	0.0000		0.0000					
				0								
				75-149.9	1-6	7	0.0000		0.0000			
				>150	1-6	1	59	0.0000		0.0000		
						2	189	0.0000		0.0000		
						3	85	0.0000		0.0000		
						4	79	0.0000		0.0000		
	5	111	0.0000				0.0000					
	6	85	0.0000				0.0000					
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000		0.000%		
			Groundfish Trawl Gear	>150	1-2	121	0.0000		0.0000			
			>150	1-2	1	301	0.0000		0.0000			
					2	303	0.0000		0.0000			
	South	Groundfish Trawl Gear	>150	1-2	61	0.0000		0.0000				
					109	0.0000		0.0000				

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

Y. Other Nearshore Rockfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0039	0.0029	0.0006	0.0004	100.000%				
					229	0.0000		0.0000		0.000%				
				4	596	0.3298	0.1430	0.0600	0.0260	100.000%				
				5	164	0.0117	0.0054	0.0018	0.0008	100.000%				
				6	0									
				1-6	57	0.2638	0.2619	0.0277	0.0278	100.000%				
			>150	1	275	0.0000		0.0000						
				2	412	0.0022	0.0022	0.0003	0.0003	100.000%				
				3	175	0.0718	0.0715	0.0100	0.0099	100.000%				
				4	178	0.0000		0.0000						
				5	266	0.0000		0.0000						
				6	226	0.0000		0.0000						
				South	Groundfish Trawl Gear	0-74.9	1-2	37	0.1038	0.0702	0.0537	0.0379	9.245%	7.139%
							3	28	1.3417	0.7181	0.2647	0.1383	100.000%	
4-5	10	0.0313	0.0250				0.0113	0.0089	100.000%					
6	0													
1-6	7	11.1634	10.3127			2.8687	2.8639	100.000%						
>150	1	59	0.0000				0.0000							
	2	189	0.0000				0.0000		0.000%					
	3	85	0.0081			0.0082	0.0009	0.0010	100.000%					
	4	79	0.0000				0.0000							
	5	111	2.9921			2.6421	0.5723	0.5025	100.000%					
	6	85	0.0000		0.0000									
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000						
				1-2	121	0.0000		0.0000						
			>150	1	301	0.0000		0.0000						
	South	Groundfish Trawl Gear	>150	1	303	0.0000		0.0000						
				2	303	0.0000		0.0000						
			>150	1	61	0.2935	0.2864	0.0346	0.0337	100.000%				
				2	109	0.0000		0.0000						

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

Z. Other Roundfish

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004											
	North	Groundfish Trawl Gear									
		0-74.9	1-2	316	5.1520	1.0969	0.8058	0.1627	2.033%	0.401%	
			3	229	5.0613	1.1529	0.6529	0.1502	2.389%	0.577%	
			4	596	0.4250	0.1312	0.0773	0.0233	0.502%	0.154%	
			5	164	0.2285	0.1663	0.0349	0.0255	1.066%	0.718%	
			6	0							
		75-149.9	1-6	57	0.4304	0.1519	0.0451	0.0172	0.475%	0.189%	
		>150	1	275	4.7502	1.6215	0.5349	0.1910	54.543%	8.219%	
			2	412	6.1457	1.2225	0.7201	0.1529	32.838%	6.682%	
			3	175	21.0913	9.9248	2.9507	1.4767	82.444%	11.429%	
			4	178	28.4972	5.4713	4.6945	1.0124	68.081%	7.998%	
			5	266	25.7059	5.4545	4.2628	0.9723	64.217%	6.181%	
			6	226	19.0480	4.5087	3.0311	0.7752	80.577%	4.531%	
	South	Groundfish Trawl Gear									
		0-74.9	1-2	37	0.0000		0.0000		0.000%		
			3	28	0.0000		0.0000				
			4-5	10	0.0000		0.0000				
			6	0							
		75-149.9	1-6	7	0.0000		0.0000				
		>150	1	59	29.3563	8.3322	3.8093	1.2453	100.000%		
			2	189	5.3790	1.7364	0.9161	0.3063	39.865%	10.266%	
			3	85	16.3333	9.3798	1.9045	1.1458	53.783%	19.091%	
			4	79	6.2871	3.1541	0.9573	0.4760	74.996%	5.135%	
			5	111	39.9968	10.5004	7.6509	2.1585	80.432%	6.316%	
			6	85	21.7897	5.1732	2.4029	0.6140	99.001%	0.620%	
2005											
	North	Selective Flatfish Gear									
		0-74.9	1-2	132	0.5045	0.1563	0.0938	0.0293	0.319%	0.087%	
		75-149.9	1-2	121	0.4103	0.1308	0.0638	0.0181	0.272%	0.071%	
		Groundfish Trawl Gear									
		>150	1	301	4.2126	1.1471	0.4589	0.1339	68.081%	6.468%	
			2	303	7.5459	3.0329	0.7293	0.3116	77.869%	11.960%	
	South	Groundfish Trawl Gear									
		>150	1	61	2.0411	0.9748	0.2404	0.1184	92.284%	4.305%	
			2	109	3.5862	1.8135	0.4144	0.2177	55.215%	15.209%	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

AA. California halibut

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004											
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000	0.0000	0.0000			
					229	0.0000	0.0000				
					596	0.0000	0.0000				
					164	0.0000	0.0000				
					0						
					0						
			75-149.9	1-6	57	0.0000	0.0000				
					0						
			>150	1-6	1	275	0.0000	0.0000			
					2	412	0.0000	0.0000			
					3	175	0.0000	0.0000			
					4	178	0.0000	0.0000			
					5	266	0.0000	0.0000			
					6	226	0.0000	0.0000			
2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000	0.0000	0.0000	0.000%		
					28	0.0000	0.0000				
					10	0.0000	0.0000				
					0						
					0						
					0						
			75-149.9	1-6	7	0.0000	0.0000				
					0						
			>150	1-6	1	59	0.0000	0.0000			
					2	189	0.0000	0.0000			
					3	85	0.0000	0.0000			
					4	79	0.0000	0.0000			
					5	111	0.0000	0.0000			
					6	85	0.0000	0.0000			
2005											
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000	0.0000	0.0000			
					121	0.0000	0.0000				
			>150	1-2	1	301	0.0000	0.0000			
					2	303	0.0000	0.0000			
					0						
					0						
2005	South	Groundfish Trawl Gear	>150	1-2	61	0.0000	0.0000	0.0000			
					109	0.0000	0.0000				
			0								
			0								

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

AB. Pacific halibut

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species				
						lb/hr	se	ratio	se	%	se			
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	19.2403	2.9959	3.0092	0.4430	99.125%	0.882%			
					229	18.9102	2.0410	2.4395	0.2493	100.000%				
					596	10.3805	1.9487	1.8889	0.3642	100.000%				
					164	7.1233	2.3078	1.0876	0.3349	100.000%				
					0									
			75-149.9	1-6	57	12.6106	4.1775	1.3220	0.4735	100.000%				
			>150	1-6	275	10.8183	1.5758	1.2182	0.1694	100.000%				
					412	19.3059	3.7253	2.2622	0.4059	100.000%				
					175	2.4821	0.6103	0.3472	0.0734	100.000%				
					178	0.6711	0.2154	0.1106	0.0353	100.000%				
					266	5.7445	0.9590	0.9526	0.1523	100.000%				
					226	2.3727	0.7211	0.3776	0.1125	100.000%				
			2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000			
								28	0.2073	0.2067	0.0409	0.0415	100.000%	
10	2.1390	1.7739						0.7708	0.6356	100.000%				
0														
75-149.9	1-6	7				0.0000		0.0000						
>150	1-6	59				0.0000		0.0000						
		189				0.0334	0.0333	0.0057	0.0057	100.000%				
		85				0.0592	0.0598	0.0069	0.0070	100.000%				
		79				0.0000		0.0000						
		111				0.0000		0.0000						
		85	0.0000		0.0000									
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	14.4243	2.7469	2.6814	0.5614	100.000%				
			75-149.9	1-2	121	55.5649	7.6280	8.6427	1.0997	100.000%				
		Groundfish Trawl Gear	>150	1	301	18.7544	7.4454	2.0432	0.8069	100.000%				
				2	303	7.5914	0.9946	0.7337	0.0939	100.000%				
		South	Groundfish Trawl Gear	>150	1	61	0.0669	0.0483	0.0079	0.0058	100.000%			
					2	109	0.0189	0.0189	0.0022	0.0022	100.000%			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

AC. Chinook Salmon

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.9592	0.2204	0.1500	0.0352	100.000%	
				3	229	0.3584	0.0970	0.0462	0.0127	100.000%	
				4	596	0.0720	0.0457	0.0131	0.0082	100.000%	
				5	164	0.4053	0.2896	0.0619	0.0444	100.000%	
				6	0						
			75-149.9	1-6	57	0.1106	0.0583	0.0116	0.0064	100.000%	
			>150	1	275	0.4998	0.1178	0.0563	0.0138	100.000%	
				2	412	0.1058	0.0463	0.0124	0.0054	100.000%	
				3	175	0.0000		0.0000			
				4	178	0.0000		0.0000			
				5	266	0.0000		0.0000			
				6	226	0.0359	0.0360	0.0057	0.0057	100.000%	
	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000			
				3	28	0.0000		0.0000			
				4-5	10	0.3898	0.3712	0.1405	0.1312	100.000%	
				6	0						
			75-149.9	1-6	7	0.8676	0.8003	0.2229	0.2245	100.000%	
			>150	1	59	0.0455	0.0324	0.0059	0.0043		
				2	189	0.0000		0.0000			
				3	85	0.0000		0.0000			
				4	79	0.0000		0.0000			
				5	111	0.0000		0.0000			
				6	85	0.0000		0.0000			
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0062	0.0061	0.0011	0.0011	100.000%	
			75-149.9	1-2	121	0.0880	0.0647	0.0137	0.0102	100.000%	
		Groundfish Trawl Gear	>150	1	301	0.3670	0.1128	0.0400	0.0124	100.000%	
				2	303	0.0839	0.0443	0.0081	0.0043	100.000%	
	South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000			
				2	109	0.0000		0.0000			

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

AD. Chum Salmon

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
						lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000				
229					0.0000		0.0000					
596				0.0000		0.0000						
164				0.0000		0.0000						
0												
57				0.0000		0.0000						
				75-149.9	1-6	57	0.0000		0.0000			
				>150	1	275	0.0000		0.0000			
						412	0.0000		0.0000			
					175	0.0000		0.0000				
					178	0.0000		0.0000				
					266	0.0000		0.0000				
					226	0.0037	0.0037	0.0006	0.0006	100.000%		
			South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000		0.0000		
		28					0.0000		0.0000			
		10				0.0000		0.0000				
		0										
		75-149.9			1-6	7	0.0000		0.0000			
		>150			1	59	0.0000		0.0000			
						189	0.0000		0.0000			
					85	0.0000		0.0000				
					79	0.0000		0.0000				
					111	0.0000		0.0000				
			85	0.0000		0.0000						
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000				
				75-149.9	1-2	121	0.0000		0.0000			
			Groundfish Trawl Gear	>150	1	301	0.0000		0.0000			
					2	303	0.0000		0.0000			
		South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000			
						2	109	0.0000		0.0000		

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

AE. Coho Salmon

Year	Area	Gear type Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species		
					lb/hr	se	ratio	se	%	se	
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0000		0.0000		100.000%	
				3	229	0.0000		0.0000			
				4	596	0.0294	0.0178	0.0053	0.0033		
				5	164	0.0000		0.0000			
				6	0						
				6	0						
			75-149.9	1-6	57	0.0000		0.0000			
			>150	1	275	0.0105	0.0071	0.0012	0.0008	100.000%	
				2	412	0.0000		0.0000			
				3	175	0.0000		0.0000			
				4	178	0.0000		0.0000			
				5	266	0.0000		0.0000			
				6	226	0.0000		0.0000			
				2004	South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000	
3	28	0.0000							0.0000		
4-5	10	0.0000						0.0000			
6	0										
6	0										
6	0										
75-149.9	1-6	7	0.0000					0.0000			
>150	1	59	0.0000					0.0000			
	2	189	0.0000					0.0000			
	3	85	0.0000					0.0000			
	4	79	0.0000					0.0000			
	5	111	0.0000					0.0000			
	6	85	0.0000					0.0000			
	2005	North	Selective Flatfish Gear				0-74.9	1-2	132	0.0000	
				75-149.9	1-2	121		0.0000		0.0000	
>150				Groundfish Trawl Gear	1	301	0.0017	0.0017	0.0002	0.0002	100.000%
					2	303	0.0000		0.0000		
					2	303	0.0000		0.0000		
South				Groundfish Trawl Gear	>150	1	61	0.0000		0.0000	
						2	109	0.0000		0.0000	

Table 6 (cont.). Ratio estimate and standard error for the discarded pounds of 32 selected species or species groups by area, depth, and 2-month period from January 1, 2004 to April 30, 2005 for observed groundfish tows. Periods have been combined in order to have sufficient data for estimation. Combinations of area and depth with insufficient data have been omitted. Standard errors cannot be calculated when there is only one tow in a category.

AF. Unidentified Salmon Species

Year	Area	Gear type	Depth (fm)	Period	Number of tows	Discarded lb of species per hour of towing		Discarded lb of species per lb of retained groundfish		Percent of species discarded from total catch of species	
						lb/hr	se	ratio	se	%	se
2004	North	Groundfish Trawl Gear	0-74.9	1-2	316	0.0156	0.0110	0.0024	0.0017	100.000%	
					229	0.0000		0.0000			
				3-6	596	0.0081	0.0081	0.0015	0.0015	100.000%	
					164	0.0000		0.0000			
					0						
			75-149.9	1-6	57	0.0000		0.0000			
			>150	1-6	275	0.0000		0.0000			
					412	0.0000		0.0000			
					175	0.0000		0.0000			
					178	0.0000		0.0000			
					266	0.0000		0.0000			
					226	0.0000		0.0000			
					South	Groundfish Trawl Gear	0-74.9	1-2	37	0.0000	
28	0.0000								0.0000		
4-5	10	0.0000		0.0000							
	0										
75-149.9	1-6	7	0.0000				0.0000				
>150	1-6	59	0.0000				0.0000				
		189	0.0000				0.0000				
		85	0.0000				0.0000				
		79	0.0000				0.0000				
		111	0.0000				0.0000				
		85	0.0000		0.0000						
2005	North	Selective Flatfish Gear	0-74.9	1-2	132	0.0000		0.0000			
					121	0.0000		0.0000			
			75-149.9	1-2							
	North	Groundfish Trawl Gear	>150	1	301	0.0000		0.0000			
				2	303	0.0000		0.0000			
	South	Groundfish Trawl Gear	>150	1	61	0.0000		0.0000			
				2	109	0.0000		0.0000			

Table 7. Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

A. Bocaccio Rockfish

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North	0-74.9	1-2	0.0000				0.0000	
		3	0.0000					
		4	0.0020	0.0020				
		5	0.0000					
		6						
		All	0.0008	0.0008			0.0000	
		75-149.9	All	0.0000				0.0044
	> 150	1	0.0055	0.0032	0.0033	0.0017		
		2	0.0018	0.0011	0.0000			
		3	0.0000					
4		0.0008	0.0005					
5		0.0000						
6		0.0000						
All		0.0017	0.0008	0.0017	0.0009			
South	0-74.9	1-2	8.6715	4.5935				
		3	1.3178	0.9894				
		4-5	0.3621	0.2220				
		6						
		All	3.1903	1.3430				
	75-149.9	All	0.3075	0.2147				
	> 150	1	0.0000		0.0000			
		2	0.0187	0.0063	0.0075	0.0061		
		3	0.0183	0.0085				
		4	0.0000					
5		0.1696	0.0840					
6		0.0010	0.0004					
All		0.0333	0.0130	0.0043	0.0035			
Coast	0-74.9	1-2	0.4341	0.2157			0.0000	
		3	0.1290	0.0927				
		4	0.0019	0.0019				
		5	0.0112	0.0084				
		6						
		All	0.1301	0.0527			0.0000	
	75-149.9	All	0.0206	0.0168			0.0044	0.0044
	> 150	1	0.0045	0.0027	0.0027	0.0014		
		2	0.0060	0.0017	0.0017	0.0014		
		3	0.0063	0.0030				
4		0.0005	0.0003					
5		0.0464	0.0230					
6		0.0003	0.0001					
All		0.0103	0.0036	0.0022	0.0010			

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

B. Canary Rockfish

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North								
	0-74.9	1-2	0.1808	0.0440			0.1325	0.0389
		3	0.3933	0.1486				
		4	0.3251	0.0764				
		5	0.2102	0.0752				
		6						
		All	0.2926	0.0488			0.1325	0.0389
	75-149.9	All	0.4819	0.1448			0.5433	0.1068
	> 150	1	0.0018	0.0014	0.0017	0.0011		
		2	0.0082	0.0054	0.0002	0.0002		
		3	0.0100	0.0079				
		4	0.0092	0.0057				
		5	0.0035	0.0010				
		6	0.0000					
		All	0.0052	0.0018	0.0009	0.0006		
South								
	0-74.9	1-2	0.0729	0.0365				
		3	0.3680	0.2540				
		4-5	7.3961	7.3367				
		6						
		All	1.0891	0.8505				
	75-149.9	All	0.0000					
	> 150	1	0.0000		0.0000			
		2	0.0010	0.0008	0.0000			
		3	0.0000					
		4	0.0000					
		5	0.0000					
		6	0.0000					
		All	0.0002	0.0002	0.0000			
Coast								
	0-74.9	1-2	0.1752	0.0419			0.1325	0.0389
		3	0.3908	0.1363				
		4	0.3244	0.0760				
		5	0.4331	0.2373				
		6						
		All	0.3249	0.0579			0.1325	0.0389
	75-149.9	All	0.4467	0.1340			0.5433	0.1068
	> 150	1	0.0015	0.0012	0.0014	0.0009		
		2	0.0064	0.0041	0.0001	0.0001		
		3	0.0065	0.0052				
		4	0.0060	0.0037				
		5	0.0025	0.0008				
		6	0.0000					
		All	0.0039	0.0013	0.0007	0.0004		

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

C. Cowcod Rockfish

Area	Depth	Period	2004		2005		
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl
			ratio	se	ratio	se	ratio
North							
	<075FM	1-2	0.0000			0.0000	
		3	0.0000				
		4	0.0000				
		5	0.0000				
		6					
		All	0.0000			0.0000	
	75-150	All	0.0000			0.0000	
	>150FM	1	0.0000		0.0000		
		2	0.0000		0.0000		
		3	0.0000				
		4	0.0000				
		5	0.0000				
		6	0.0000				
		All	0.0000		0.0000		
South							
	<075FM	1-2	0.4072	0.2377			
		3	0.1362	0.1143			
		4-5	0.1047	0.1124			
		6					
		All	0.2051	0.0943			
	75-150	All	1.1024	1.1232			
	>150FM	1	0.0000		0.0000		
		2	0.0006	0.0006	0.0000		
		3	0.0000				
		4	0.0000				
		5	0.0000				
		6	0.0000				
		All	0.0001	0.0001	0.0000		
Coast							
	<075FM	1-2	0.0204	0.0111		0.0000	
		3	0.0133	0.0107			
		4	0.0013	0.0013			
		5	0.0000				
		6					
		All	0.0083	0.0037		0.0000	
	75-150	All	0.0740	0.0680		0.0000	
	>150FM	1	0.0000		0.0000		
		2	0.0001	0.0001	0.0000		
		3	0.0000				
		4	0.0000				
		5	0.0000				
		6	0.0000				
		All	0.0000	0.0000	0.0000		

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

D. Darkblotched Rockfish

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North								
	<075FM	1-2	0.0008	0.0002			0.0059	0.0024
		3	0.0047	0.0019				
		4	0.4926	0.0973				
		5	0.3666	0.1997				
		6						
		All	0.2514	0.0503			0.0059	0.0024
	75-150	All	1.1014	0.3912			0.3834	0.1536
	>150FM	1	1.1180	0.2198	1.4456	0.1787		
		2	0.5633	0.0897	0.4808	0.0814		
		3	2.1830	0.3304				
		4	6.5182	2.4566				
		5	2.3122	0.4863				
		6	0.0728	0.0380				
		All	1.6663	0.2874	0.9631	0.0996		
South								
	<075FM	1-2	0.0000					
		3	0.0000					
		4-5	0.0000					
		6						
		All	0.0000					
	75-150	All	0.0000					
	>150FM	1	0.0687	0.0661	0.0000			
		2	0.0494	0.0096	0.1670	0.0478		
		3	1.5038	0.6261				
		4	0.0000					
		5	0.0729	0.0304				
		6	0.0188	0.0109				
		All	0.2688	0.1016	0.0957	0.0276		
Coast								
	<075FM	1-2	0.0007	0.0002			0.0059	0.0024
		3	0.0043	0.0017				
		4	0.4903	0.0968				
		5	0.3598	0.1960				
		6						
		All	0.2412	0.0483			0.0059	0.0024
	75-150	All	1.0209	0.3696			0.3834	0.1536
	>150FM	1	0.9358	0.1837	1.1825	0.1488		
		2	0.4367	0.0682	0.4085	0.0638		
		3	1.9491	0.3050				
		4	4.2187	1.6400				
		5	1.6992	0.3539				
		6	0.0561	0.0264				
		All	1.2879	0.2123	0.7836	0.0798		

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

E. Lingcod

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North								
	<075FM	1-2	1.1353	0.1344			1.8548	0.3851
		3	1.6276	0.1899				
		4	4.6240	0.5487				
		5	5.2331	0.8726				
		6						
		All	3.2539	0.2642			1.8548	0.3851
	75-150	All	3.1292	1.3315			4.1444	0.7019
	>150FM	1	0.2807	0.0490	0.4988	0.0569		
		2	0.0829	0.0205	0.2308	0.0682		
		3	0.1050	0.0382				
		4	0.2103	0.0685				
		5	0.4916	0.1285				
		6	0.6527	0.2595				
		All	0.2865	0.0451	0.3647	0.0446		
South								
	<075FM	1-2	3.6603	1.0244				
		3	11.3447	2.6974				
		4-5	17.5808	12.9355				
		6						
		All	9.9098	2.2558				
	75-150	All	14.1744	9.1459				
	>150FM	1	0.0294	0.0267	0.3413	0.1078		
		2	0.2347	0.0485	0.1999	0.1018		
		3	1.6706	0.4944				
		4	0.0000					
		5	1.2620	0.6340				
		6	0.0785	0.0216				
		All	0.5261	0.1239	0.2601	0.0736		
Coast								
	<075FM	1-2	1.2604	0.1353			1.8548	0.3851
		3	2.5794	0.3567				
		4	4.6495	0.5470				
		5	5.5594	0.9418				
		6						
		All	3.5237	0.2711			1.8548	0.3851
	75-150	All	3.8515	1.4382			4.1444	0.7019
	>150FM	1	0.2371	0.0410	0.4701	0.0508		
		2	0.1203	0.0195	0.2236	0.0574		
		3	0.6447	0.1724				
		4	0.1361	0.0447				
		5	0.7020	0.1965				
		6	0.4750	0.1788				
		All	0.3514	0.0470	0.3431	0.0385		

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

F. Pacific Ocean Perch

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North	<075FM	1-2	0.0000				0.0005	0.0003
		3	0.0491	0.0339				
		4	0.0000					
		5	0.0004	0.0003				
		6						
		All	0.0117	0.0081			0.0005	0.0003
		75-150	All	3.2785	2.2711			0.0228
>150FM		1	0.7909	0.1933	0.8680	0.1864		
		2	0.6856	0.1817	0.3118	0.0513		
		3	1.6958	0.3975				
		4	1.5317	0.5980				
		5	1.3888	0.4415				
		6	0.8750	0.4600				
		All	1.0400	0.1377	0.5898	0.0972		
South	<075FM	1-2	0.0000					
		3	0.0000					
		4-5	0.0000					
		6						
		All	0.0000					
75-150	All	0.0000						
>150FM		1	0.0000		0.0000			
		2	0.0000		0.0000			
		3	0.2428	0.2455				
		4	0.0000					
		5	0.0000					
		6	0.0000					
		All	0.0378	0.0379	0.0000			
Coast	<075FM	1-2	0.0000				0.0005	0.0003
		3	0.0443	0.0306				
		4	0.0000					
		5	0.0004	0.0003				
		6						
		All	0.0112	0.0077			0.0005	0.0003
		75-150	All	3.0387	2.1190			0.0228
>150FM		1	0.6536	0.1601	0.7100	0.1534		
		2	0.5166	0.1374	0.2400	0.0396		
		3	1.1951	0.2762				
		4	0.9914	0.3898				
		5	1.0086	0.3221				
		6	0.6042	0.3178				
		All	0.7686	0.1013	0.4678	0.0773		

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

G. Widow Rockfish

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North	<075FM	1-2	0.0030	0.0030			0.0020	0.0005
		3	0.0305	0.0127				
		4	0.0000					
		5	0.5677	0.2058				
		6						
		All	0.0948	0.0327			0.0020	0.0005
	75-150	All	0.0000				0.0021	0.0015
	>150FM	1	0.0032	0.0022	0.0390	0.0251		
		2	0.0166	0.0132	0.0113	0.0038		
		3	0.1389	0.1041				
4		0.0133	0.0055					
5		0.0277	0.0265					
6		0.0000						
All		0.0260	0.0126	0.0252	0.0126			
South	<075FM	1-2	0.0392	0.0411				
		3	0.0000					
		4-5	0.0596	0.0557				
		6						
		All	0.0174	0.0128				
	75-150	All	0.0000					
	>150FM	1	0.0000		0.0000			
		2	0.0011	0.0006	0.0000			
		3	0.0820	0.0830				
		4	0.0000					
5		0.0000						
6		0.0000						
All		0.0130	0.0128	0.0000				
Coast	<075FM	1-2	0.0048	0.0034			0.0020	0.0005
		3	0.0275	0.0115				
		4	0.0000					
		5	0.5589	0.2020				
		6						
		All	0.0917	0.0314			0.0020	0.0005
	75-150	All	0.0000				0.0021	0.0015
	>150FM	1	0.0026	0.0018	0.0319	0.0205		
		2	0.0128	0.0100	0.0087	0.0030		
		3	0.1193	0.0738				
4		0.0086	0.0036					
5		0.0201	0.0193					
6		0.0000						
All		0.0225	0.0098	0.0200	0.0100			

Table 7 (cont.). Ratio estimate and standard errors for the total bycatch of eight overfished species per pound of retained groundfish, by area, depth, and 2-month period for groundfish tows from January 1, 2004 to April 30, 2005. Periods have been grouped for combinations of area and depth that have insufficient data to be estimated separately.

H. Yelloweye Rockfish

Area	Depth	Period	2004		2005			
			Groundfish Trawl		Groundfish Trawl		Selective Flatfish Trawl	
			ratio	se	ratio	se	ratio	se
North								
	<075FM	1-2	0.0008	0.0008			0.0003	0.0003
		3	0.0000					
		4	0.0251	0.0171				
		5	0.0084	0.0021				
		6						
		All	0.0113	0.0068			0.0003	0.0003
	75-150	All	0.0041	0.0028			0.0035	0.0025
	>150FM	1	0.0000		0.0036	0.0033		
		2	0.0009	0.0009	0.0000			
		3	0.0036	0.0031				
		4	0.0002	0.0002				
		5	0.0000					
		6	0.0000					
		All	0.0007	0.0004	0.0018	0.0017		
South								
	<075FM	1-2	0.0000					
		3	0.0000					
		4-5	0.0000					
		6						
		All	0.0000					
	75-150	All	0.0000					
	>150FM	1	0.0000		0.0000			
		2	0.0000		0.0000			
		3	0.0000					
		4	0.0000					
		5	0.0000					
		6	0.0000					
		All	0.0000		0.0000			
Coast								
	<075FM	1-2	0.0008	0.0008			0.0003	0.0003
		3	0.0000					
		4	0.0250	0.0170				
		5	0.0082	0.0021				
		6						
		All	0.0109	0.0065			0.0003	0.0003
	75-150	All	0.0038	0.0026			0.0035	0.0025
	>150FM	1	0.0000		0.0030	0.0027		
		2	0.0007	0.0007	0.0000			
		3	0.0024	0.0020				
		4	0.0001	0.0001				
		5	0.0000					
		6	0.0000					
		All	0.0005	0.0003	0.0014	0.0013		

Table 8. 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, and depth. Standard errors cannot be calculated where there is only one tow in a category.

A. Bocaccio

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005				
		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Groundfish Trawl		Selective Flatfish Trawl		
		ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se	ratio	se	
Area	Depth (fm)													
	North	0-74.9	0.0117	0.0084	0.0000		0.0009	0.0009	0.0008	0.0008			0.0000	
		75-149.9	0.0765	0.0519	0.0088	0.0052	0.0000		0.0000				0.0044	0.0044
		> 150	0.0077	0.0033	0.0141	0.0079	0.0027	0.0010	0.0017	0.0008	0.0017	0.0009		
South	0-74.9	0.6862	0.2803	0.2005	0.1660	2.0446	0.8953	3.1903	1.3430					
		75-149.9	6.8989	1.5478	0.5094	0.5094	0.5757	0.4486	0.3075	0.2147				
		> 150	0.1342	0.0440	0.1631	0.0768	0.0100	0.0026	0.0333	0.0130	0.0043	0.0035		
Coastwide	0-74.9	0.1121	0.0411	0.0283	0.0234	0.1315	0.0566	0.1301	0.0527				0.0000	
		75-149.9	1.3969	0.3185	0.0118	0.0060	0.0220	0.0178	0.0206	0.0168				0.0044
		> 150	0.0512	0.0152	0.0547	0.0218	0.0045	0.0010	0.0103	0.0036	0.0022	0.0010		0.0044

B. Canary Rockfish

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005				
		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Groundfish Trawl		Selective Flatfish Trawl		
		ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se	ratio	se	
Area	Depth (fm)													
	North	0-74.9	0.6010	0.0992	0.3688	0.0904	0.3467	0.0573	0.2926	0.0488			0.1325	0.0389
		75-149.9	1.0054	0.1111	1.3494	0.2394	0.5011	0.1585	0.4819	0.1448			0.5433	0.1068
		> 150	0.0132	0.0052	0.0059	0.0015	0.0055	0.0020	0.0052	0.0018	0.0009	0.0006		
South	0-74.9	0.1011	0.0560	0.0015	0.0015	0.1817	0.1082	1.0891	0.8505					
		75-149.9	0.2675	0.0862	0.0207	0.0207	0.0000		0.0000					
		> 150	0.0072	0.0051	0.0000		0.0003	0.0002	0.0002	0.0002	0.0000			
Coastwide	0-74.9	0.5266	0.0852	0.3170	0.0777	0.3361	0.0542	0.3249	0.0579				0.1325	
		75-149.9	0.8626	0.0890	1.3415	0.2381	0.4820	0.1525	0.4467	0.1340				0.1068
		> 150	0.0111	0.0038	0.0043	0.0011	0.0042	0.0015	0.0039	0.0013	0.0007	0.0004		

Table 8 (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, and depth. Standard errors cannot be calculated where there is only one tow in a category.

C. Cowcod Rockfish

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005			
										Groundfish Trawl		Selective Flatfish Trawl	
		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish	
Area	Depth (fm)	ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se	ratio	se
North	0-74.9	0.0000		0.0000		0.0000		0.0000				0.0000	
	75-149.9	0.0006	0.0006	0.0000		0.0000		0.0000				0.0000	
	> 150	0.0000		0.0000		0.0000		0.0000		0.0000			
South	0-74.9	0.0090	0.0056	0.0195	0.0134	0.1441	0.0633	0.2051	0.0943				
	75-149.9	0.4083	0.1715	2.9184	2.9184	2.0640	1.8264	1.1024	1.1232				
	> 150	0.0104	0.0061	0.0000		0.0002	0.0002	0.0001	0.0001	0.0000			
Coastwide	0-74.9	0.0013	0.0008	0.0028	0.0019	0.0092	0.0040	0.0083	0.0037			0.0000	
	75-149.9	0.0795	0.0336	0.0175	0.0175	0.0789	0.0709	0.0740	0.0680			0.0000	
	> 150	0.0036	0.0021	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000			

D. Widow Rockfish

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005			
										Groundfish Trawl		Selective Flatfish Trawl	
		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish		Species catch per 100 lb of retained groundfish	
Area	Depth (fm)	ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se	ratio	se
North	0-74.9	0.0846	0.0617	0.0123	0.0050	0.0087	0.0036	0.0948	0.0327			0.0020	0.0005
	75-149.9	2.3398	1.8712	0.0431	0.0302	0.0000		0.0000				0.0021	0.0015
	> 150	0.0105	0.0036	0.0254	0.0101	0.0246	0.0132	0.0260	0.0126	0.0252	0.0126		
South	0-74.9	0.0008	0.0008	0.0000		0.0074	0.0074	0.0174	0.0128				
	75-149.9	0.1395	0.0717	0.0000		0.0000		0.0000					
	> 150	0.0126	0.0051	0.0000		0.0164	0.0161	0.0130	0.0128	0.0000			
Coastwide	0-74.9	0.0721	0.0525	0.0106	0.0043	0.0086	0.0034	0.0917	0.0314			0.0020	0.0005
	75-149.9	1.9139	1.5088	0.0429	0.0300	0.0000		0.0000				0.0021	0.0015
	> 150	0.0113	0.0029	0.0184	0.0073	0.0226	0.0107	0.0225	0.0098	0.0200	0.0100		

Table 8 (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, and depth. Standard errors cannot be calculated where there is only one tow in a category.

E. Yelloweye Rockfish

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005			
										Groundfish Trawl		Selective Flatfish Trawl	
		Area	Depth (fm)	ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se
North	0-74.9	0.0031	0.0009	0.0122	0.0052	0.0118	0.0076	0.0113	0.0068			0.0003	0.0003
	75-149.9	0.0209	0.0160	0.0032	0.0013	0.0042	0.0030	0.0041	0.0028			0.0035	0.0025
	> 150	0.0004	0.0003	0.0001	0.0001	0.0007	0.0005	0.0007	0.0004	0.0018	0.0017		
South	0-74.9	0.0000		0.0251	0.0201	0.0158	0.0114	0.0000					
	75-149.9	0.0000		0.0000		0.0000		0.0000					
	> 150	0.0022	0.0022	0.0000	0.0768	0.0000	0.0161	0.0000		0.0000			
Coastwide	0-74.9	0.0027	0.0008	0.0140	0.0053	0.0120	0.0071	0.0109	0.0065			0.0003	0.0003
	75-149.9	0.0169	0.0129	0.0032	0.0013	0.0041	0.0029	0.0038	0.0026			0.0035	0.0025
	> 150	0.0010	0.0008	0.0001	0.0001	0.0006	0.0004	0.0005	0.0003	0.0014	0.0013		

F. Darkblotched Rockfish

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005			
										Groundfish Trawl		Selective Flatfish Trawl	
		Area	Depth (fm)	ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se
North	0-74.9	0.1526	0.0377	0.0884	0.0242	0.2189	0.0464	0.2514	0.0503			0.0059	0.0024
	75-149.9	2.2729	0.4341	0.6956	0.1275	1.7907	0.6202	1.1014	0.3912			0.3834	0.1536
	> 150	0.9524	0.1153	0.8759	0.1302	1.9692	0.3299	1.6663	0.2874	0.9631	0.0996		
South	0-74.9	0.0000		0.0012	0.0012	0.0000	0.0114	0.0000					
	75-149.9	0.1216	0.0519	0.0000		0.0000		0.0000					
	> 150	0.1538	0.0535	0.1234	0.0540	0.3648	0.1307	0.2688	0.1016	0.0957	0.0276		
Coastwide	0-74.9	0.1299	0.0322	0.0761	0.0208	0.2049	0.0435	0.2412	0.0483			0.0059	0.0024
	75-149.9	1.8565	0.3471	0.6914	0.1268	1.7222	0.5966	1.0209	0.3696			0.3834	0.1536
	> 150	0.6780	0.0783	0.6706	0.0958	1.5737	0.2507	1.2879	0.2123	0.7836	0.0798		

Table 8 (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, and depth. Standard errors cannot be calculated where there is only one tow in a category.

G. Pacific Ocean Perch

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005			
										Groundfish Trawl		Selective Flatfish Trawl	
		Area	Depth (fm)	ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se
North	0-74.9	0.0663	0.0374	0.0007	0.0003	0.0131	0.0091	0.0117	0.0081			0.0005	0.0003
	75-149.9	4.0499	1.0601	0.1189	0.0827	3.8539	2.6087	3.2785	2.2711			0.0228	0.0052
	> 150	1.0865	0.1992	1.0954	0.1614	0.9674	0.1282	1.0400	0.1377	0.5898	0.0972		
South	0-74.9	0.0000		0.0000		0.0000		0.0000					
	75-149.9	0.0000		0.0000		0.0000		0.0000					
	> 150	0.0001	0.0001	0.0000		0.0476	0.0476	0.0378	0.0379	0.0000			
Coastwide	0-74.9	0.0565	0.0318	0.0006	0.0003	0.0123	0.0085	0.0112	0.0077			0.0005	0.0003
	75-149.9	3.2661	0.8509	0.1182	0.0822	3.7065	2.5090	3.0387	2.1190			0.0228	0.0052
	> 150	0.7132	0.1311	0.7966	0.1173	0.7407	0.0974	0.7686	0.1013	0.4678	0.0773		

H. Lingcod

		Sept. 2001 - Aug. 2002		Sept. 2002 - Aug. 2003		Sept. 2003-Aug. 2004		Jan. - Dec. 2004		Jan. - Apr. 2005			
										Groundfish Trawl		Selective Flatfish Trawl	
		Area	Depth (fm)	ratio	s.e	ratio	s.e	ratio	se	ratio	se	ratio	se
North	0-74.9	3.7834	0.3318	4.7442	0.6718	2.9165	0.2718	3.2539	0.2642			1.8548	0.3851
	75-149.9	5.0369	0.5271	7.0681	1.4888	4.2782	1.5096	3.1292	1.3315			4.1444	0.7019
	> 150	0.1487	0.0304	0.0868	0.0158	0.1676	0.0199	0.2865	0.0451	0.3647	0.0446		
South	0-74.9	1.4054	0.3842	4.5403	0.8345	7.6000	1.5959	9.9098	2.2558				
	75-149.9	6.2846	1.4628	8.8319	8.8319	25.1514	19.5955	14.1744	9.1459				
	> 150	0.6638	0.2178	0.3249	0.1213	0.4530	0.1048	0.5261	0.1239	0.2601	0.0736		
Coastwide	0-74.9	3.4292	0.2926	4.7155	0.5917	3.2157	0.2732	3.5237	0.2711			1.8548	0.3851
	75-149.9	5.2784	0.5148	7.0787	1.4810	5.0764	1.6494	3.8515	1.4382			4.1444	0.7019
	> 150	0.3257	0.0773	0.1517	0.0351	0.2380	0.0300	0.3514	0.0470	0.3431	0.0385		