

## SKATES

### **Alaska skate (*Bathyraja parmifera*)**

Alaska skate were caught infrequently and in modest numbers in the three westernmost INPFC areas in only 9 out of the 59 survey strata (Tables 67 and 68). No Alaska skate were caught in the Yakutat and Southeastern INPFC areas. CPUEs generally increased with depth to 300 m, but no fish were caught deeper than 300 m. Mean fish weight generally decreased with depth.

### **Aleutian skate (*Bathyraja aleutica*)**

Aleutian skate were caught in approximately 12% of all survey hauls and in moderate numbers in the three westernmost INPFC areas (Table 69). Besides a small catch in one tow in the Southeastern INPFC area, no catches of Aleutian skates were recorded east of Prince William Sound. The highest mean CPUE was recorded in the Lower Shelikof Gully stratum, which accounted for approximately 53% of the total estimated biomass even though it comprises only 3% of the total survey area (Table 70). Aleutian skate were caught in all depths to 500 m, but the highest CPUEs were recorded in the 101 to 300 m depth range. No fish were caught deeper than 500 m. Mean fish weight generally decreased with depth.

**Bering skate (*Bathyraja interrupta*)**

Bering skate were caught in relatively modest numbers in approximately 13% of all survey hauls outside the Shumagin INPFC area, where no catches were recorded (Table 71). The highest CPUEs were recorded in the gullies of the Chirikof and Kodiak INPFC areas (Table 72). Bering skate were caught in all depths to 500 m but the highest CPUEs were generally recorded in the 101 to 300 m depth range. No fish were caught deeper than 500 m.

**Big skate (*Raja binoculata*)**

Big skate were caught in relatively modest numbers in approximately 7% of all survey hauls in all five of the INPFC areas (Table 73). The highest CPUEs were recorded in several of the shallowest strata of the survey area in waters less than 100 m (Table 74). Approximately 87% of its estimated biomass was located shallower than 100 m, with all of the remainder in waters between 101 and 200 m deep.

**Longnose skate (*Raja rhina*)**

Longnose skate were caught in relatively modest numbers in almost 20% of all survey hauls in all five of the INPFC areas (Table 75). Just over 50% of the estimated biomass was located in the Kodiak INPFC area. Longnose skate were caught in all depths to 500 m, with the highest densities recorded in the 101 to 500 m depth range. The highest CPUEs were recorded in the Yakutat Gullies and Kenai Flats strata (Table 76).

Table 67. -- Number of survey hauls, number of hauls with Alaska skate, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
Shumagin	1 - 100	133	2	0.043	177	0	441	6.378
	101 - 200	39	0	---	---	---	---	---
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	2	0.027	177	0	441
Chirikof	1 - 100	82	1	0.077	201	0	615	16.176
	101 - 200	69	8	0.176	419	90	748	3.167
	201 - 300	26	4	0.532	614	0	1,255	3.929
	301 - 500	10	0	---	---	---	---	---
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	13	0.181	1,233	417	2,049
Kodiak	1 - 100	97	2	0.018	70	0	183	4.172
	101 - 200	127	3	0.032	139	0	315	3.321
	201 - 300	30	2	0.153	175	0	644	2.668
	301 - 500	10	0	---	---	---	---	---
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	7	0.038	384	0	867
Yakutat	1 - 100	11	0	---	---	---	---	---
	101 - 200	33	0	---	---	---	---	---
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	0	---	---	---	---
Southeastern	1 - 100	11	0	---	---	---	---	---
	101 - 200	22	0	---	---	---	---	---
	201 - 300	17	0	---	---	---	---	---
	301 - 500	11	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	0	---	---	---	---
<b>All areas</b>	1 - 100	334	5	0.035	448	0	942	7.866
	101 - 200	290	11	0.046	558	189	927	3.204
	201 - 300	107	6	0.219	789	66	1,512	3.556
	301 - 500	49	0	---	---	---	---	---
	501 - 700	24	0	---	---	---	---	---
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	22	0.056	1,795	858	2,731

Table 68. -- Catch per unit of effort by stratum for Alaska skate sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

<b>INPFC area</b>	<b>Depth range</b>	<b>Stratum name</b>	<b>Number of hauls</b>	<b>Hauls with catch</b>	<b>CPUE (kg/ha)</b>	<b>Biomass (t)</b>	<b>Lower CI biomass</b>	<b>Upper CI biomass</b>
Chirikof	201 - 300	Lower Shelikof Gully	18	4	0.61	614	0	1,258
Kodiak	201 - 300	Upper Shelikof Gully	4	2	0.55	175	0	712
Chirikof	101 - 200	Shelikof Edge	27	7	0.45	347	50	644
Chirikof	1 - 100	Semidi Bank	23	1	0.28	201	0	616
Kodiak	101 - 200	Albatross Gullies	28	3	0.18	139	0	315
Chirikof	101 - 200	Chirikof Outer Shelf	25	1	0.14	72	0	220
Shumagin	1 - 100	Fox Islands	21	1	0.13	110	0	339
Kodiak	1 - 100	Albatross Shallows	28	2	0.12	70	0	184
Shumagin	1 - 100	Lower Alaska Peninsula	28	1	0.10	67	0	206

Table 69. -- Number of survey hauls, number of hauls with Aleutian skate, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
<b>Shumagin</b>	1 - 100	133	8	0.266	1,098	310	1,886	8.908
	101 - 200	39	7	1.456	2,137	0	4,339	10.268
	201 - 300	17	1	0.220	61	0	191	10.000
	301 - 500	9	3	0.146	37	0	79	0.834
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	19	0.511	3,333	1,084	5,582
<b>Chirikof</b>	1 - 100	82	6	0.398	1,036	205	1,866	11.792
	101 - 200	69	11	0.881	2,101	468	3,734	9.563
	201 - 300	26	17	11.714	13,525	7,646	19,405	9.257
	301 - 500	10	1	0.010	2	0	5	0.233
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	35	2.449	16,663	10,549	22,778
<b>Kodiak</b>	1 - 100	97	3	0.208	803	0	1,742	15.788
	101 - 200	127	16	0.679	2,941	1,187	4,694	9.480
	201 - 300	30	5	1.198	1,376	0	3,081	7.022
	301 - 500	10	0	---	---	---	---	---
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	24	0.504	5,120	2,780	7,460
<b>Yakutat</b>	1 - 100	11	0	---	---	---	---	---
	101 - 200	33	0	---	---	---	---	---
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	0	---	---	---	---
<b>Southeastern</b>	1 - 100	11	0	---	---	---	---	---
	101 - 200	22	0	---	---	---	---	---
	201 - 300	17	1	0.274	138	0	434	11.355
	301 - 500	11	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	1	0.049	138	0	434
<b>All areas</b>	1 - 100	334	17	0.228	2,937	1,469	4,405	11.210
	101 - 200	290	34	0.587	7,178	4,101	10,255	9.727
	201 - 300	107	24	4.189	15,101	9,097	21,106	9.013
	301 - 500	49	4	0.030	39	0	81	0.753
	501 - 700	24	0	---	---	---	---	---
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	79	0.789	25,255	18,430	32,079

Table 70. -- Catch per unit of effort by stratum for Aleutian skate sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

INPFC area	Depth range	Stratum name	Number of hauls	Hauls with catch	CPUE (kg/ha)	Biomass (t)	Lower CI biomass	Upper CI biomass
Chirikof	201 - 300	Lower Shelikof Gully	18	14	13.44	13,463	7,559	19,366
Kodiak	201 - 300	Upper Shelikof Gully	4	3	4.23	1,358	0	3,311
Shumagin	101 - 200	West Shumagin Gully	4	2	3.56	810	0	2,475
Shumagin	101 - 200	Sanak Gully	7	2	2.30	977	0	2,972
Chirikof	101 - 200	Shelikof Edge	27	7	1.77	1,367	171	2,562
Kodiak	101 - 200	Albatross Gullies	28	5	1.37	1,081	0	2,385
Kodiak	101 - 200	Barren Islands	18	4	0.94	1,028	7	2,050
Kodiak	101 - 200	Kodiak Outer Shelf	28	4	0.85	428	0	929
Chirikof	1 - 100	Semidi Bank	23	3	0.74	540	0	1,161
Shumagin	1 - 100	Davidson Bank	48	6	0.64	872	146	1,597
Chirikof	101 - 200	East Shumagin Gully	17	2	0.63	698	0	1,857
Kodiak	1 - 100	Albatross Banks	39	3	0.52	803	0	1,742
Shumagin	101 - 200	Shumagin Outer Shelf	28	3	0.43	351	0	751
Chirikof	201 - 300	Chirikof Slope	8	3	0.41	63	0	194
Southeastern	201 - 300	Prince of Wales Slope/Gullies	14	1	0.35	138	0	436
Kodiak	101 - 200	Portlock Flats	35	2	0.32	237	0	575
Chirikof	1 - 100	Chirikof Bank	40	2	0.28	299	0	726
Chirikof	1 - 100	Upper Alaska Peninsula	19	1	0.25	197	0	611
Shumagin	201 - 300	Shumagin Slope	17	1	0.22	61	0	191
Shumagin	1 - 100	Fox Islands	21	1	0.15	128	0	396
Shumagin	301 - 500	Shumagin Slope	9	3	0.15	37	0	80
Shumagin	1 - 100	Lower Alaska Peninsula	28	1	0.14	98	0	300
Kodiak	101 - 200	Kenai Flats	18	1	0.14	166	0	517
Kodiak	201 - 300	Kodiak Slope	7	1	0.07	12	0	40
Chirikof	101 - 200	Chirikof Outer Shelf	25	2	0.07	36	0	108
Kodiak	201 - 300	Kenai Gullies	19	1	0.01	7	0	20
Chirikof	301 - 500	Chirikof Slope	10	1	0.01	2	0	5

Table 71. -- Number of survey hauls, number of hauls with Bering skate, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
<b>Shumagin</b>	1 - 100	133	0	---	---	---	---	---
	101 - 200	39	0	---	---	---	---	---
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	0	---	---	---	---
<b>Chirikof</b>	1 - 100	82	4	0.110	287	0	622	3.831
	101 - 200	69	17	0.276	658	284	1,032	1.793
	201 - 300	26	8	0.579	668	116	1,221	2.391
	301 - 500	10	1	0.005	1	0	2	0.143
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	30	0.237	1,614	888	2,341
<b>Kodiak</b>	1 - 100	97	6	0.065	249	0	517	2.072
	101 - 200	127	25	0.270	1,170	629	1,711	1.757
	201 - 300	30	10	0.503	578	169	986	2.001
	301 - 500	10	0	---	---	---	---	---
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	41	0.197	1,996	1,286	2,707
<b>Yakutat</b>	1 - 100	11	1	0.056	94	0	336	1.667
	101 - 200	33	2	0.051	150	0	387	1.722
	201 - 300	17	1	0.029	15	0	49	1.651
	301 - 500	9	1	0.003	1	0	3	0.128
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	5	0.046	260	0	586
<b>Southeastern</b>	1 - 100	11	0	---	---	---	---	---
	101 - 200	22	0	---	---	---	---	---
	201 - 300	17	2	0.031	16	0	40	0.800
	301 - 500	11	2	0.189	59	0	183	1.318
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	4	0.027	75	0	198
<b>All areas</b>	1 - 100	334	11	0.049	630	161	1,099	2.505
	101 - 200	290	44	0.162	1,978	1,292	2,663	1.766
	201 - 300	107	21	0.354	1,277	605	1,948	2.139
	301 - 500	49	4	0.047	61	0	184	1.055
	501 - 700	24	0	---	---	---	---	---
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	80	0.123	3,946	2,893	4,998

Table 72. -- Catch per unit of effort by stratum for Bering skate sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

INPFC area	Depth range	Stratum name	Number of hauls	Hauls with catch	CPUE (kg/ha)	Biomass (t)	Lower CI biomass	Upper CI biomass
Chirikof	201 - 300	Lower Shelikof Gully	18	7	0.67	667	112	1,222
Kodiak	201 - 300	Upper Shelikof Gully	4	2	0.62	199	0	578
Kodiak	201 - 300	Kenai Gullies	19	8	0.57	379	61	697
Kodiak	101 - 200	Barren Islands	18	7	0.50	549	110	989
Chirikof	101 - 200	Shelikof Edge	27	12	0.46	358	149	568
Kodiak	1 - 100	Kenai Peninsula	7	2	0.26	138	0	387
Kodiak	101 - 200	Albatross Gullies	28	4	0.25	195	0	416
Chirikof	101 - 200	East Shumagin Gully	17	3	0.24	267	0	579
Kodiak	101 - 200	Portlock Flats	35	8	0.22	164	0	328
Southeastern	301 - 500	Southeastern Deep Gullies	7	1	0.22	52	0	179
Kodiak	101 - 200	Kenai Flats	18	6	0.22	262	65	459
Yakutat	101 - 200	Yakataga Shelf	8	1	0.19	98	0	330
Chirikof	1 - 100	Semidi Bank	23	1	0.18	133	0	410
Chirikof	1 - 100	Upper Alaska Peninsula	19	2	0.16	130	0	331
Yakutat	1 - 100	Middleton Shallows	5	1	0.14	94	0	355
Southeastern	301 - 500	Southeastern Slope	4	1	0.09	7	0	30
Kodiak	1 - 100	Lower Cook Inlet	14	1	0.07	73	0	230
Yakutat	101 - 200	Middleton Shelf	9	1	0.07	52	0	173
Yakutat	201 - 300	Yakutat Slope	9	1	0.07	15	0	50
Kodiak	1 - 100	Albatross Shallows	28	3	0.07	38	0	91
Chirikof	101 - 200	Chirikof Outer Shelf	25	2	0.07	33	0	80
Southeastern	201 - 300	Prince of Wales Slope/Gullies	14	2	0.04	16	0	41
Chirikof	1 - 100	Chirikof Bank	40	1	0.02	24	0	73
Chirikof	201 - 300	Chirikof Slope	8	1	0.01	1	0	5
Yakutat	301 - 500	Yakutat Slope	7	1	0.01	1	0	3
Chirikof	301 - 500	Chirikof Slope	10	1	0.01	1	0	2



Table 73. -- Number of survey hauls, number of hauls with big skate, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
<b>Shumagin</b>	1 - 100	133	10	1.264	5,221	132	10,310	15.680
	101 - 200	39	1	0.443	651	0	1,983	25.742
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	11	0.900	5,872	615	11,128
<b>Chirikof</b>	1 - 100	82	14	4.051	10,547	3,389	17,705	16.405
	101 - 200	69	4	0.596	1,421	0	3,421	7.022
	201 - 300	26	0	---	---	---	---	---
	301 - 500	10	0	---	---	---	---	---
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	18	1.759	11,968	4,635	19,301
<b>Kodiak</b>	1 - 100	97	16	2.884	11,106	1,047	21,165	13.152
	101 - 200	127	2	0.041	175	0	543	4.993
	201 - 300	30	0	---	---	---	---	---
	301 - 500	10	0	---	---	---	---	---
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	18	1.112	11,281	1,215	21,347
<b>Yakutat</b>	1 - 100	11	4	3.348	5,579	0	11,636	4.595
	101 - 200	33	3	0.887	2,606	0	6,898	25.703
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	7	1.431	8,185	1,342	15,027
<b>Southeastern</b>	1 - 100	11	3	1.761	1,153	0	2,824	11.740
	101 - 200	22	0	---	---	---	---	---
	201 - 300	17	0	---	---	---	---	---
	301 - 500	11	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	3	0.411	1,153	0	2,824
<b>All areas</b>	1 - 100	334	47	2.604	33,606	19,529	47,683	10.728
	101 - 200	290	10	0.397	4,853	134	9,571	13.325
	201 - 300	107	0	---	---	---	---	---
	301 - 500	49	0	---	---	---	---	---
	501 - 700	24	0	---	---	---	---	---
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	57	1.202	38,458	23,818	53,099

Table 74. -- Catch per unit of effort by stratum for big skate sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

<b>INPFC area</b>	<b>Depth range</b>	<b>Stratum name</b>	<b>Number of hauls</b>	<b>Hauls with catch</b>	<b>CPUE (kg/ha)</b>	<b>Biomass (t)</b>	<b>Lower CI biomass</b>	<b>Upper CI biomass</b>
Yakutat	1 - 100	Middleton Shallows	5	3	7.89	5,301	0	11,794
Kodiak	1 - 100	Lower Cook Inlet	14	5	7.18	7,100	0	16,762
Chirikof	1 - 100	Upper Alaska Peninsula	19	8	6.44	5,110	1,315	8,905
Chirikof	1 - 100	Chirikof Bank	40	6	5.04	5,437	0	11,658
Yakutat	101 - 200	Middleton Shelf	9	3	3.55	2,606	0	6,982
Shumagin	1 - 100	Shumagin Bank	36	5	3.25	4,028	0	8,929
Kodiak	1 - 100	Albatross Shallows	28	6	2.34	1,352	0	2,710
Kodiak	1 - 100	Kenai Peninsula	7	1	2.30	1,212	0	4,177
Southeastern	1 - 100	Southeastern Shallows	11	3	1.76	1,153	0	2,844
Chirikof	101 - 200	East Shumagin Gully	17	2	0.99	1,103	0	3,053
Kodiak	1 - 100	Albatross Banks	39	4	0.94	1,443	0	3,021
Shumagin	101 - 200	Shumagin Outer Shelf	28	1	0.80	651	0	1,986
Shumagin	1 - 100	Davidson Bank	48	3	0.66	897	0	2,371
Shumagin	1 - 100	Lower Alaska Peninsula	28	2	0.43	297	0	748
Chirikof	101 - 200	Chirikof Outer Shelf	25	1	0.38	191	0	586
Yakutat	1 - 100	Yakutat Shallows	6	1	0.28	279	0	995
Chirikof	101 - 200	Shelikof Edge	27	1	0.16	127	0	387
Kodiak	101 - 200	Kenai Flats	18	1	0.15	175	0	544
Kodiak	101 - 200	Albatross Gullies	28	1	0.00	0	0	1

Table 75. -- Number of survey hauls, number of hauls with longnose skate, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
.	1 - 100	133	0	---	---	---	---	---
	101 - 200	39	3	0.298	437	0	1,043	7.154
	201 - 300	17	3	0.686	191	0	461	7.538
	301 - 500	9	0	---	---	---	---	---
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	6	0.096	628	0	1,302
Chirikof	1 - 100	82	10	1.052	2,738	822	4,654	12.584
	101 - 200	69	23	1.648	3,931	1,836	6,025	8.115
	201 - 300	26	5	1.740	2,008	0	4,284	8.833
	301 - 500	10	0	---	---	---	---	---
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	38	1.275	8,677	5,140	12,214
Kodiak	1 - 100	97	16	1.000	3,852	1,625	6,079	10.503
	101 - 200	127	51	2.820	12,219	7,374	17,063	9.231
	201 - 300	30	9	1.058	1,216	302	2,129	5.339
	301 - 500	10	1	0.243	71	0	229	6.568
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	77	1.710	17,357	11,998	22,716
Yakutat	1 - 100	11	2	0.580	967	0	2,584	6.993
	101 - 200	33	8	1.071	3,145	0	6,702	7.970
	201 - 300	17	8	2.047	1,059	245	1,872	8.456
	301 - 500	9	4	2.723	716	459	972	7.025
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	22	1.029	5,886	2,092	9,680
Southeastern	1 - 100	11	1	0.055	36	0	115	0.688
	101 - 200	22	5	0.593	657	54	1,260	6.334
	201 - 300	17	8	1.487	751	94	1,408	5.602
	301 - 500	11	4	1.376	429	2	855	6.876
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	18	0.668	1,873	939	2,807
All areas	1 - 100	334	29	0.588	7,593	4,374	10,811	9.798
	101 - 200	290	90	1.667	20,388	14,152	26,623	8.612
	201 - 300	107	33	1.450	5,225	2,578	7,872	7.063
	301 - 500	49	9	0.950	1,215	724	1,707	6.944
	501 - 700	24	0	---	---	---	---	---
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	161	1.076	34,421	27,053	41,788

Table 76. -- Catch per unit of effort by stratum for longnose skate sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

INPFC area	Depth range	Stratum name	Number of hauls	Hauls with catch	CPUE (kg/ha)	Biomass (t)	Lower CI biomass	Upper CI biomass
Yakutat	301 - 500	Yakutat Gullies	2	2	5.00	553	257	849
Kodiak	101 - 200	Kenai Flats	18	11	4.18	5,046	1,044	9,047
Kodiak	101 - 200	Barren Islands	18	8	2.92	3,206	993	5,420
Yakutat	201 - 300	Yakutat Slope	9	4	2.79	593	0	1,306
Kodiak	1 - 100	Kenai Peninsula	7	3	2.79	1,467	0	3,376
Yakutat	101 - 200	Middleton Shelf	9	2	2.54	1,862	0	5,448
Kodiak	101 - 200	Albatross Gullies	28	8	2.53	2,001	202	3,800
Chirikof	101 - 200	Shelikof Edge	27	11	2.53	1,956	142	3,770
Southeastern	201 - 300	Baranof-Chichagof Slope	3	2	2.45	275	0	1,287
Kodiak	1 - 100	Albatross Shallows	28	6	2.29	1,321	228	2,414
Kodiak	1 - 100	Northern Kodiak Shallows	9	4	2.25	494	0	1,074
Chirikof	201 - 300	Lower Shelikof Gully	18	5	2.01	2,008	0	4,293
Kodiak	101 - 200	Portlock Flats	35	18	1.90	1,393	744	2,042
Southeastern	301 - 500	Southeastern Deep Gullies	7	4	1.83	429	0	870
Kodiak	201 - 300	Kenai Gullies	19	9	1.83	1,216	299	2,133
Chirikof	1 - 100	Upper Alaska Peninsula	19	3	1.68	1,336	0	2,994
Yakutat	201 - 300	Yakutat Gullies	8	4	1.53	465	0	1,004
Chirikof	101 - 200	East Shumagin Gully	17	7	1.31	1,459	447	2,472
Chirikof	1 - 100	Semidi Bank	23	5	1.25	911	142	1,681
Southeastern	201 - 300	Prince of Wales Slope/Gullies	14	6	1.21	476	59	892
Yakutat	101 - 200	Yakutat Flats	8	4	1.16	1,052	8	2,095
Kodiak	101 - 200	Kodiak Outer Shelf	28	6	1.14	573	65	1,080
Yakutat	301 - 500	Yakutat Slope	7	2	1.07	162	0	428
Chirikof	101 - 200	Chirikof Outer Shelf	25	5	1.03	515	0	1,051
Yakutat	1 - 100	Yakutat Shallows	6	2	0.97	967	0	2,666
Shumagin	101 - 200	Sanak Gully	7	2	0.88	373	0	998
Southeastern	101 - 200	Baranof-Chichagof Shelf	8	2	0.79	333	0	865
Shumagin	201 - 300	Shumagin Slope	17	3	0.69	191	0	462
Southeastern	101 - 200	Prince of Wales Shelf	14	3	0.47	324	0	713
Chirikof	1 - 100	Chirikof Bank	40	2	0.45	490	0	1,197
Kodiak	1 - 100	Albatross Banks	39	3	0.37	570	0	1,238
Yakutat	101 - 200	Fairweather Shelf	8	1	0.29	227	0	763
Kodiak	301 - 500	Kodiak Slope	10	1	0.24	71	0	231
Shumagin	101 - 200	Shumagin Outer Shelf	28	1	0.08	63	0	193
Southeastern	1 - 100	Southeastern Shallows	11	1	0.06	36	0	116
Yakutat	101 - 200	Yakataga Shelf	8	1	0.01	5	0	16

## MISCELLANEOUS SPECIES

### **Capelin (*Mallotus villosus*)**

Capelin were caught in modest numbers in approximately 24% of hauls less than 100 m deep and in about 8% of hauls in the 101 to 300 m depth range. No capelin were caught deeper than 300 m (Table 77). The highest CPUEs were recorded in the Albatross Shallows and Albatross Banks strata, which accounted for approximately 61% of its estimated biomass even though these strata comprise less than 7% of the survey area (Table 78). Mean fish weight generally increased with depth.

### **Eulachon (*Thaleichthys pacificus*)**

Eulachon were caught in moderate numbers in approximately 31% of hauls less than 300 m deep and in about 9% of hauls deeper than 300 m. No catches were recorded in the 700 to 1,000 m depth range (Table 79). The biomass was primarily confined to the Chirikof and Kodiak INPFC areas, which accounted for approximately 80% of its biomass estimate. The highest CPUEs were recorded in the Shelikof Edge, the Lower Shelikof Gully, and East Shumagin Gully strata, which accounted for approximately 51% of the biomass estimate even though these strata comprise only about 9% of the survey area (Table 80).

**Pacific hake (*Merluccius productus*)**

Pacific hake were predominantly caught in the Yakutat and Southeastern INPFC areas, which accounted for about 97% of the estimated biomass (Table 81). Single small catches were recorded in the Shumagin and Chirikof INPFC areas and 10 tows in the Kodiak INPFC area contained Pacific hake. The highest CPUEs were recorded in the Slope and Gully strata of the Southeastern and Yakutat INPC areas (Table 82). Ninety-eight percent of the biomass was estimated to be in the 101 to 500 m depth range. No fish were caught deeper than 700 m.

Table 77. -- Number of survey hauls, number of hauls with capelin, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
Shumagin	1 - 100	133	26	0.007	28	9	47	0.004
	101 - 200	39	1	0.000	0	0	1	0.018
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	27	0.005	29	10	48
Chirikof	1 - 100	82	25	0.048	125	0	269	0.001
	101 - 200	69	5	0.002	4	0	8	0.007
	201 - 300	26	2	0.001	1	0	2	0.015
	301 - 500	10	0	---	---	---	---	---
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	32	0.019	129	0	273
Kodiak	1 - 100	97	20	0.126	487	0	1,126	0.006
	101 - 200	127	9	0.002	7	0	15	0.007
	201 - 300	30	2	0.006	7	0	21	0.012
	301 - 500	10	0	---	---	---	---	---
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	31	0.049	502	0	1,140
Yakutat	1 - 100	11	8	0.059	99	0	262	0.006
	101 - 200	33	10	0.009	26	0	63	0.011
	201 - 300	17	0	---	---	---	---	---
	301 - 500	9	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	18	0.022	124	0	287
Southeastern	1 - 100	11	1	0.001	1	0	3	0.003
	101 - 200	22	1	0.000	0	0	1	0.017
	201 - 300	17	0	---	---	---	---	---
	301 - 500	11	0	---	---	---	---	---
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	2	0.000	1	0	3
<b>All areas</b>	1 - 100	334	80	0.057	739	71	1,408	0.004
	101 - 200	290	26	0.003	37	0	75	0.009
	201 - 300	107	4	0.002	8	0	22	0.012
	301 - 500	49	0	---	---	---	---	---
	501 - 700	24	0	---	---	---	---	---
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	110	0.025	785	115	1,454

Table 78. -- Catch per unit of effort by stratum for capelin sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

<b>INPFC area</b>	<b>Depth range</b>	<b>Stratum name</b>	<b>Number of hauls</b>	<b>Hauls with catch</b>	<b>CPUE (kg/ha)</b>	<b>Biomass (t)</b>	<b>Lower CI biomass</b>	<b>Upper CI biomass</b>
Kodiak	1 - 100	Albatross Shallows	28	4	0.27	154	0	451
Kodiak	1 - 100	Albatross Banks	39	11	0.21	326	0	898
Chirikof	1 - 100	Chirikof Bank	40	19	0.11	114	0	259
Yakutat	1 - 100	Yakutat Shallows	6	4	0.08	80	0	249
Yakutat	1 - 100	Middleton Shallows	5	4	0.03	19	0	46
Kodiak	1 - 100	Northern Kodiak Shallows	9	2	0.03	6	0	17
Yakutat	101 - 200	Yakutat Flats	8	4	0.02	21	0	59
Kodiak	201 - 300	Upper Shelikof Gully	4	2	0.02	7	0	23
Shumagin	1 - 100	Lower Alaska Peninsula	28	12	0.02	10	0	21
Shumagin	1 - 100	Shumagin Bank	36	8	0.01	17	1	33
Chirikof	1 - 100	Upper Alaska Peninsula	19	4	0.01	11	0	26
Kodiak	101 - 200	Portlock Flats	35	2	0.01	4	0	11
Yakutat	101 - 200	Yakataga Shelf	8	3	0.01	3	0	7
Kodiak	101 - 200	Kenai Flats	18	4	0.00	3	0	7
Chirikof	101 - 200	East Shumagin Gully	17	3	0.00	2	0	6
Kodiak	1 - 100	Lower Cook Inlet	14	2	0.00	2	0	5
Yakutat	101 - 200	Middleton Shelf	9	2	0.00	1	0	4
Chirikof	101 - 200	Shelikof Edge	27	2	0.00	1	0	4
Chirikof	201 - 300	Lower Shelikof Gully	18	2	0.00	1	0	2
Yakutat	101 - 200	Fairweather Shelf	8	1	0.00	1	0	3
Shumagin	1 - 100	Davidson Bank	48	5	0.00	1	0	2
Southeastern	1 - 100	Southeastern Shallows	11	1	0.00	1	0	3
Kodiak	1 - 100	Kenai Peninsula	7	1	0.00	1	0	2
Kodiak	101 - 200	Albatross Gullies	28	3	0.00	1	0	1
Shumagin	101 - 200	Sanak Gully	7	1	0.00	0	0	2
Southeastern	101 - 200	Baranof-Chichagof Shelf	8	1	0.00	0	0	1
Shumagin	1 - 100	Fox Islands	21	1	0.00	0	0	1
Chirikof	1 - 100	Semidi Bank	23	2	0.00	0	0	0



Table 79. -- Number of survey hauls, number of hauls with eulachon, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
Shumagin	1 - 100	133	16	0.009	38	5	71	0.038
	101 - 200	39	5	0.736	1,081	0	2,658	0.026
	201 - 300	17	1	0.001	0	0	1	0.040
	301 - 500	9	2	0.011	3	0	7	0.027
	501 - 700	5	1	0.023	5	0	16	0.023
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	25	0.173	1,126	0	2,705
Chirikof	1 - 100	82	19	0.152	395	0	1,074	0.031
	101 - 200	69	25	6.968	16,618	1,105	32,130	0.019
	201 - 300	26	19	8.632	9,967	182	19,751	0.023
	301 - 500	10	1	0.001	0	0	1	0.027
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	64	3.965	26,980	9,093	44,866
Kodiak	1 - 100	97	20	0.161	621	0	1,505	0.034
	101 - 200	127	50	2.047	8,870	4,953	12,787	0.026
	201 - 300	30	19	4.103	4,714	2,382	7,046	0.030
	301 - 500	10	0	---	---	---	---	---
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	89	1.400	14,205	9,651	18,759
Yakutat	1 - 100	11	7	1.418	2,363	0	6,813	0.034
	101 - 200	33	31	2.234	6,564	4,336	8,792	0.029
	201 - 300	17	10	0.278	144	0	347	0.030
	301 - 500	9	3	0.017	4	0	16	0.052
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	3	0	---	---	---	---	---
	<b>All depths</b>		76	51	1.587	9,074	4,380	13,769
Southeastern	1 - 100	11	2	0.528	346	0	921	0.032
	101 - 200	22	2	0.021	23	0	62	0.047
	201 - 300	17	3	0.083	42	0	117	0.041
	301 - 500	11	1	0.002	1	0	3	0.029
	501 - 700	3	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	8	0.147	411	0	993
<b>All areas</b>	1 - 100	334	64	0.292	3,763	0	8,247	0.033
	101 - 200	290	113	2.710	33,155	17,069	49,240	0.022
	201 - 300	107	52	4.124	14,866	4,842	24,890	0.025
	301 - 500	49	7	0.006	8	0	16	0.037
	501 - 700	24	1	0.006	5	0	16	0.023
	701 - 1000	16	0	---	---	---	---	---
	<b>All depths</b>		820	237	1.619	51,796	32,811	70,782

Table 80. -- Catch per unit of effort by stratum for eulachon sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

INPFC area	Depth range	Stratum name	Number of hauls	Hauls with catch	CPUE (kg/ha)	Biomass (t)	Lower CI biomass	Upper CI biomass
Chirikof	101 - 200	Shelikof Edge	27	19	11.08	8,569	1,964	15,174
Chirikof	201 - 300	Lower Shelikof Gully	18	18	9.95	9,966	140	19,792
Chirikof	101 - 200	East Shumagin Gully	17	6	7.25	8,049	0	22,208
Kodiak	101 - 200	Portlock Flats	35	17	5.01	3,677	844	6,510
Kodiak	201 - 300	Upper Shelikof Gully	4	4	5.01	1,606	0	3,524
Shumagin	101 - 200	West Shumagin Gully	4	3	4.69	1,068	0	2,876
Kodiak	201 - 300	Kenai Gullies	19	15	4.67	3,108	1,139	5,076
Yakutat	1 - 100	Middleton Shallows	5	3	2.89	1,938	0	6,700
Yakutat	101 - 200	Middleton Shelf	9	9	2.67	1,963	687	3,239
Yakutat	101 - 200	Yakutat Flats	8	8	2.25	2,036	1,101	2,970
Kodiak	101 - 200	Barren Islands	18	7	2.25	2,467	197	4,738
Yakutat	101 - 200	Fairweather Shelf	8	6	2.17	1,674	0	3,522
Kodiak	101 - 200	Kenai Flats	18	14	1.84	2,221	645	3,797
Yakutat	101 - 200	Yakataga Shelf	8	8	1.69	891	276	1,507
Kodiak	1 - 100	Albatross Shallows	28	6	0.77	441	0	1,316
Kodiak	101 - 200	Albatross Gullies	28	11	0.64	505	0	1,203
Southeastern	1 - 100	Southeastern Shallows	11	2	0.53	346	0	929
Chirikof	1 - 100	Upper Alaska Peninsula	19	9	0.46	368	0	1,049
Yakutat	201 - 300	Yakutat Gullies	8	6	0.43	130	0	336
Yakutat	1 - 100	Yakutat Shallows	6	4	0.43	425	0	1,020
Kodiak	1 - 100	Kenai Peninsula	7	5	0.26	134	0	317
Southeastern	201 - 300	Prince of Wales Slope/Gullies	14	3	0.11	42	0	118
Yakutat	201 - 300	Yakutat Slope	9	4	0.06	14	0	42
Kodiak	1 - 100	Lower Cook Inlet	14	6	0.04	38	7	69
Yakutat	301 - 500	Yakutat Gullies	2	2	0.03	4	0	38
Southeastern	101 - 200	Prince of Wales Shelf	14	2	0.03	23	0	62
Kodiak	1 - 100	Northern Kodiak Shallows	9	2	0.03	7	0	20
Shumagin	1 - 100	Lower Alaska Peninsula	28	9	0.03	22	1	42
Shumagin	101 - 200	Sanak Gully	7	2	0.03	13	0	42
Chirikof	1 - 100	Chirikof Bank	40	9	0.03	27	0	54
Shumagin	501 - 700	Shumagin Slope	5	1	0.02	5	0	17
Shumagin	1 - 100	Shumagin Bank	36	7	0.01	17	0	43
Shumagin	301 - 500	Shumagin Slope	9	2	0.01	3	0	7
Yakutat	301 - 500	Yakutat Slope	7	1	0.00	1	0	2
Southeastern	301 - 500	Southeastern Deep Gullies	7	1	0.00	1	0	3
Chirikof	1 - 100	Semidi Bank	23	1	0.00	1	0	2
Shumagin	201 - 300	Shumagin Slope	17	1	0.00	0	0	1
Chirikof	301 - 500	Chirikof Slope	10	1	0.00	0	0	1
Chirikof	201 - 300	Chirikof Slope	8	1	0.00	0	0	1
Kodiak	1 - 100	Albatross Banks	39	1	0.00	1	0	2
Kodiak	101 - 200	Kodiak Outer Shelf	28	1	0.00	0	0	1

Table 81. -- Number of survey hauls, number of hauls with Pacific hake, mean CPUE, biomass, and mean weight based on the 2007 Gulf of Alaska biennial bottom trawl survey, by International North Pacific Fisheries Commission statistical areas and depth intervals.

INPFC area	Depth (m)	Number of hauls	Hauls with catch	Mean CPUE (kg/ha)	Estimated biomass (t)	Lower 95% biomass CI (t)	Upper 95% biomass CI (t)	Mean weight (kg)
Shumagin	1 - 100	133	0	---	---	---	---	---
	101 - 200	39	0	---	---	---	---	---
	201 - 300	17	1	0.039	11	0	34	1.444
	301 - 500	9	0	---	---	---	---	---
	501 - 700	5	0	---	---	---	---	---
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		205	1	0.002	11	0	34
Chirikof	1 - 100	82	0	---	---	---	---	---
	101 - 200	69	0	---	---	---	---	---
	201 - 300	26	0	---	---	---	---	---
	301 - 500	10	1	0.022	4	0	12	0.688
	501 - 700	7	0	---	---	---	---	---
	701 - 1000	5	0	---	---	---	---	---
	<b>All depths</b>		199	1	0.001	4	0	12
Kodiak	1 - 100	97	0	---	---	---	---	---
	101 - 200	127	0	---	---	---	---	---
	201 - 300	30	5	0.162	186	0	391	0.888
	301 - 500	10	5	2.059	600	0	1,301	0.850
	501 - 700	6	0	---	---	---	---	---
	701 - 1000	4	0	---	---	---	---	---
	<b>All depths</b>		274	10	0.077	785	86	1,485
Yakutat	1 - 100	11	0	---	---	---	---	---
	101 - 200	33	1	0.024	70	0	233	1.291
	201 - 300	17	8	10.339	5,346	0	11,036	0.828
	301 - 500	9	9	3.317	872	0	1,780	0.810
	501 - 700	3	3	0.287	42	10	75	0.864
	701 - 1000	3	1	0.069	13	0	54	0.657
	<b>All depths</b>		76	22	1.109	6,343	592	12,093
Southeastern	1 - 100	11	2	0.604	396	0	1,228	0.270
	101 - 200	22	9	2.987	3,311	0	6,801	0.801
	201 - 300	17	11	13.781	6,963	2,217	11,708	0.775
	301 - 500	11	11	28.866	8,998	3,270	14,725	0.825
	501 - 700	3	2	0.312	32	0	101	0.889
	701 - 1000	2	0	---	---	---	---	---
	<b>All depths</b>		66	35	7.025	19,699	12,285	27,113
<b>All areas</b>	1 - 100	334	2	0.031	396	0	1,228	0.270
	101 - 200	290	10	0.276	3,381	0	6,875	0.808
	201 - 300	107	25	3.469	12,505	5,432	19,577	0.799
	301 - 500	49	26	8.187	10,472	4,771	16,173	0.825
	501 - 700	24	5	0.091	75	13	136	0.875
	701 - 1000	16	1	0.011	13	0	54	0.657
	<b>All depths</b>		820	69	0.839	26,841	17,614	36,069

Table 82. -- Catch per unit of effort by stratum for Pacific hake sorted by descending CPUE for the 2007 Gulf of Alaska bottom trawl survey.

INPFC area	Depth range	Stratum name	Number of hauls	Hauls with catch	CPUE (kg/ha)	Biomass (t)	Lower CI biomass	Upper CI biomass
Southeastern	201 - 300	Baranof-Chichagof Slope	3	3	37.90	4,265	0	11,904
Southeastern	301 - 500	Southeastern Deep Gullies	7	7	32.26	7,562	1,947	13,177
Southeastern	301 - 500	Southeastern Slope	4	4	18.57	1,435	0	3,899
Yakutat	201 - 300	Yakutat Slope	9	3	10.99	2,339	0	6,829
Yakutat	201 - 300	Yakutat Gullies	8	5	9.88	3,007	0	7,327
Southeastern	201 - 300	Prince of Wales Slope/Gullies	14	8	6.87	2,698	55	5,340
Yakutat	301 - 500	Yakutat Slope	7	7	4.95	752	0	1,689
Southeastern	101 - 200	Baranof-Chichagof Shelf	8	6	4.39	1,844	0	3,933
Southeastern	101 - 200	Prince of Wales Shelf	14	3	2.13	1,467	0	4,536
Kodiak	301 - 500	Kodiak Slope	10	5	2.06	600	0	1,312
Yakutat	301 - 500	Yakutat Gullies	2	2	1.08	119	0	526
Southeastern	1 - 100	Southeastern Shallows	11	2	0.60	396	0	1,239
Southeastern	501 - 700	Southeastern Slope	3	2	0.31	32	0	125
Yakutat	501 - 700	Yakutat Slope	3	3	0.29	42	0	86
Kodiak	201 - 300	Kenai Gullies	19	4	0.25	167	0	370
Yakutat	101 - 200	Yakataga Shelf	8	1	0.13	70	0	237
Kodiak	201 - 300	Kodiak Slope	7	1	0.11	19	0	64
Yakutat	701 - 1000	Yakutat Slope	3	1	0.07	13	0	69
Shumagin	201 - 300	Shumagin Slope	17	1	0.04	11	0	34
Chirikof	301 - 500	Chirikof Slope	10	1	0.02	4	0	12