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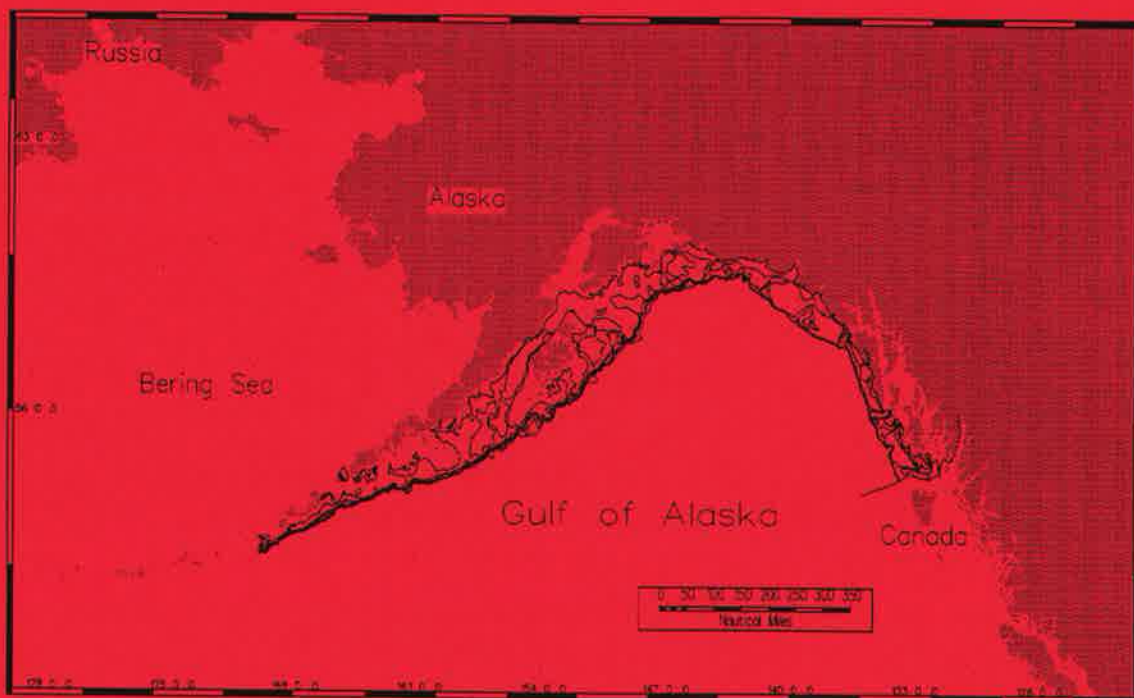
National Marine  
Fisheries Service

U.S. DEPARTMENT OF COMMERCE

## AFSC PROCESSED REPORT 97-05

# Report to Industry: Fishing Log for the 1996 Bottom Trawl Survey of the Gulf of Alaska

April 1997



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REPORT TO INDUSTRY: FISHING LOG FOR THE 1996  
BOTTOM TRAWL SURVEY OF THE Gulf of Alaska

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## INTRODUCTION

The fifth triennial bottom trawl survey of the Gulf of Alaska was completed during the summer of 1996 by the Resource Assessment and Conservation Engineering (RACE) Division of the Alaska Fisheries Science Center (AFSC), Seattle, WA. The triennial groundfish surveys are designed to describe and monitor the distribution, abundance, and biological condition of the important groundfish stocks. Previous surveys in this series were conducted in 1984, 1987, 1990 and 1993.

Historically, the Gulf of Alaska has been an important fishing grounds for a variety of groundfish species including Pacific ocean perch (Sebastes alutus), walleye pollock (Theragra chalcogramma), Pacific cod (Gadus macrocephalus), Pacific halibut (Hippoglossus stenolepis), sablefish (Anoplopoma fimbria), rockfishes (Sebastes spp.) arrowtooth flounder (Atheresthes stomias), lingcod (Ophiodon elongatus), Atka mackerel (Pleurogrammus monopterygius) and several invertebrate groups including crabs, scallop and squid.

The Gulf of Alaska forms the northeastern border of the Pacific Ocean and is comprised of complex bathymetric features ranging from jagged mountainous pinnacles to flat muddy areas. The features provide a wide variety of habitats resulting in a complex ecosystem. The rugged bottom topography prevalent in many areas requires the use of roller gear for all bottom trawling operations. The 1996 Gulf of Alaska survey area included the entire continental shelf and upper portion of the continental slope, down to 500 m in bottom depth.

## METHODS

The survey was conducted in four legs totaling 75 days, aboard three chartered commercial trawlers, the F/V Dominator, F/V Golden Dawn and F/V Vesteraalen from 18 May to 31 July 1996. Sampling began in the Islands of Four Mountains area (170° W long.) and continued east across the Gulf of Alaska over the continental shelf and upper continental slope in depths from 20 m to 479 m ending in Dixon Entrance (133° 25' W long., Figure 1). Sampling occurred at preselected stations. If the bottom conditions were unsuitable for trawling, alternate stations were chosen from a list of locations successfully completed during previous surveys. In addition to the standard survey, a short experiment was conducted to assess groundfish escapement under the footrope of the RACE survey trawl during leg 3 aboard the F/V Golden Dawn. The results of this experiment will be reported later in another report.

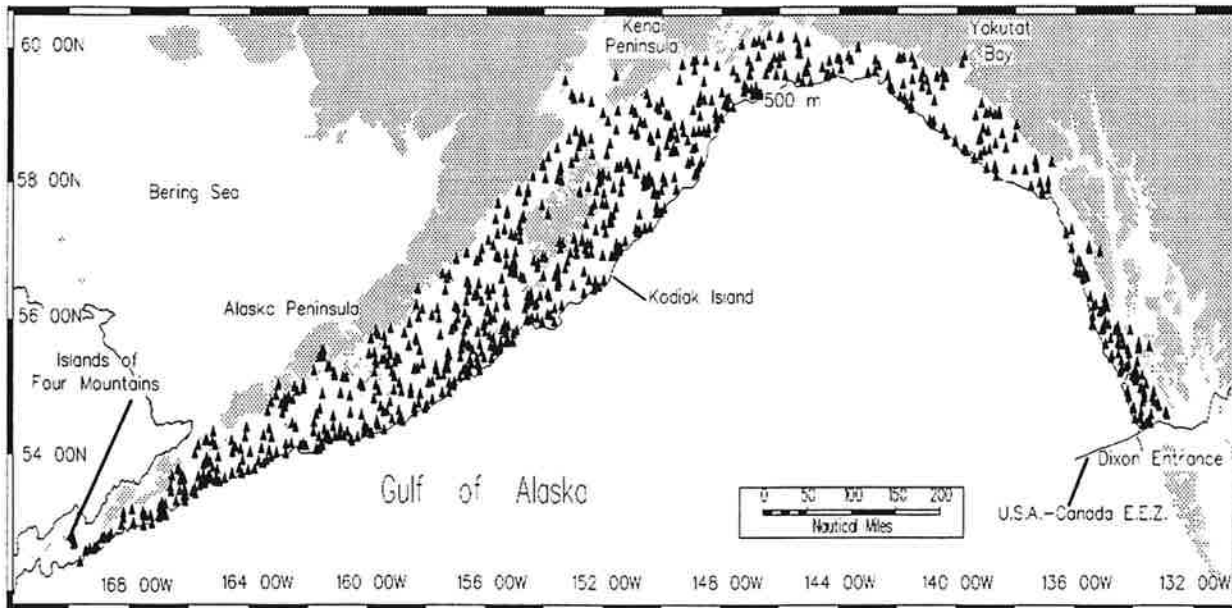


Figure 1. --All survey stations attempted during the NMFS triennial Gulf of Alaska bottom trawl survey, 18 May - 31 July 1996.

### Vessels and Gear Characteristics

All three chartered vessels are house forward stern trawlers with two hydraulic net reels (one mounted over the stern ramp and one forward on the main deck), paired constant tension hydraulic trawl winches with steel cable from 1,280 m to 1,460 m in length and 2.54 cm in diameter, articulating hydraulic cranes for handling catches and gear and a single main diesel engine with a shrouded propeller. Each vessel's overall length (LOA) and continuous main engine power (HP) are 38.7 m LOA and 1,700 HP for the F/V Vesteraalen, 38.7 m LOA and 1,300 HP for the F/V Dominator, and 45 m LOA and 2,000 HP for the F/V Golden Dawn. The navigating equipment for both vessels includes Global Positioning Systems (GPS), Loran C receivers with converters for geodetic positions, Loran C video-plotters, 2 or more radars and auto pilots. Other electronics includes color video fish finders, depth profilers, single sideband and VHF radios.

All vessels used standard RACE Division poly-Nor'eastern high opening bottom trawls rigged with roller gear (Appendix). The headrope consists of a 27.2 m (89 ft-1 inch), 1.3 cm (1/2 in) 6 X 19 gauge galvanized wire rope, wrapped with 1 cm (3/8 in) 3-strand polypropylene rope, strung with 21, 30 cm (12 in) diameter floats. The "fishing line" is composed of longlink alloy chain

24.7 m (81 ft) long and 1.3 cm (1/2 in) in diameter. The footrope is 24.9 m (81 ft-7 in) in length, 1 cm (3/8 in) in diameter 6 X 19 gauge galvanized wire rope wrapped with polypropylene rope. The roller gear is 24.2 m (79 ft-6 in) long and utilizes 1.9 cm (3/4 in) diameter, 6 X 19 gauge galvanized wire rope strung through 10.2 cm (4 in) diameter rubber disks separating 16 35.6 cm (14 in) diameter rubber wing bobbins. Each lower wing is replaced with extensions ("flying wings"), wire rope 5.9 m (19 ft-6 in) long and 1.91 cm (3/4 in) diameter threaded through 20 cm and 10 cm (8 in and 4 in) rubber disks. Trawls are constructed of 4 and 5 mm polyethylene twines stretched to yield a 12.7 cm (5 in) diameter mesh. The codend is 105 open meshes in circumference and 100 meshes deep. Codend meshes are of double bar construction stretched to 8.9 cm (3 1/2 in) in diameter and use 4 mm twine. The codend liner is 315 meshes in circumference and 200 meshes deep and meshes are stretched to a diameter of 3.2 cm (1 1/4 in) and use 18 nylon twine. Net accessory gear includes 54.9 m (180 ft) long, 1.6 cm (5/8 in) diameter galvanized triple dandy lines rigged with chain extensions connected to the headrope (45.7 cm (18 in)) and side panels (22.9 cm (9 in)). Trawl doors were steel V type and measured 1.8 m X 2.7 m (6 X 9 ft) and weighed approximately 800 kg (1,800 lb) each.

A SCANMAR<sup>1</sup> net mensuration system consisting of a headrope unit and two wing units acoustically linked to the vessels data recording system was used to measure the distance between the net's wingtips and the distance between the headrope and footrope at most stations attempted by each vessel. The net opening tended to increase horizontally (and decrease vertically) with depth due to the increased amount of deployed trawl cable (trawl warp). Preliminary results indicate an approximate average opening width of 16 m and height of 5.5 m. The average towing speed of each vessel was approximately 3 nautical miles per hour.

### Survey Design and Operations

The triennial survey design employed a stratified random sampling pattern consistent with previous triennial surveys. The Gulf of Alaska was divided into 49 strata categorized by depth interval, type of geographical area (e.g. banks, gullies and slopes) and International North Pacific Fisheries Commission statistical areas. Depth intervals were defined as less than 100 m, 101-200 m, 201-300 m and 301-500 m. Station locations were allocated for each stratum from a grid of points laid over the

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<sup>1</sup>Reference to trade names does not imply endorsement by the National Marine Fisheries Service, NOAA.



survey area. Within each stratum the sampling density was assigned based on expected variances of abundances for selected species from past surveys. After the number of stations were determined for each stratum, a corresponding number of grid points were chosen randomly. Stations were prioritized within each stratum to provide three potential levels of sampling density. Station prioritization was required due to the unpredictability of trawling, weather, mechanical breakdown, etc. Priority One stations were always expected to be sampled. Priority Two and Three stations were expected to be selected according to the prevailing rate of successful station sampling, remaining survey time available and number of stations remaining. Sampling was limited to depths less than 500 m.

During survey operations, the first trawlable location encountered near the selected station was sampled. In choosing the exact location, only the bottom conditions indicated by the echo sounder were considered and not the presence or absence of fish sign. Tow duration was one-quarter hour, half the duration used in previous surveys. The duration was reduced in part to decrease the proportion of large catches which require subsampling. In cases where there was not enough trawlable bottom for a full one-quarter hour tow, shorter tows were completed. Attempts were made to maintain constant bottom depths, trawl wing spread and towing speeds. However when depths changed, the trawl warp was adjusted to maintain wing spread. Bottom contact was monitored through the use of a RACE Division bottom contact sensor at most stations. The duration of sampling on the sea bottom was determined during trawling operations with the net mensuration system. Later the duration estimate was refined using measurements from a depth and time sensor mounted on the trawl.

Catches weighing less than approximately 1,000 kg were completely sorted to species and weighed. Larger catches were sampled to obtain a representative portion of approximately 1,000 kg. The numbers of individuals for each species were determined from the total catch or from random samples. Additional biological data collected included fish lengths and weights, age structure, sexual maturities and special collections of stomachs, tissues, whole fish and invertebrates. Length data were collected using barcode input devices and individual fish weight data was collected using a Marel motion compensated electronic scale.

Oceanographic data collected at all stations included water temperature profiles and additional sea surface temperatures using calibrated bucket thermometers. A more detailed account of survey sampling methodology, list of species names, relative abundance and biomass estimates of the major groundfish species will appear in a Gulf of Alaska Triennial Survey Data Report.

## RESULTS

Sampling proceeded from the Islands of Four Mountains to the Canadian border at Dixon Entrance, in depths ranging from 20 to 479 m. Successful trawls were completed at 807 of the 868 stations attempted, a 4% increase over the 1993 triennial Gulf of Alaska Survey. Minimal time was lost to bad weather and gear repair.

Priority One stations were always sampled along with most priority Two and Three stations. Some sampling strata were poorly sampled, due primarily to untrawlable bathymetric features, or preemption by commercial fishing gear. The catch comprised more than 500 species of fish and invertebrates. The dominant fish species are ranked by catch weight in Table 1, expressed as kilograms of catch for each of the five management areas. Highest in total catch abundance were arrowtooth flounder, Pacific ocean perch, walleye pollock, Pacific cod and Pacific halibut. Catch abundance was generally highest in the Kodiak and Chirikof areas (159° W long to 147° W long., central gulf), lower in the Shumagin area (170° W long. to 159° W long., western gulf) and lowest in the Yakutat and Southeastern areas (147° W long. to 133° 25'W long., eastern gulf), and is related to the quantity of suitable habitat and trawlable area. In the central and western areas, which have a large relatively flat shelf and extensive system of gullies, the catch by species was predominantly composed of Pacific ocean perch, arrowtooth flounder, walleye pollock, Pacific cod and flatfish. The hard rugged topography of the eastern gulf provided favorable habitat for many rockfish species and lingcod. Atka mackerel was third in abundance in the western gulf due primarily to a single catch. Deepwater fish species, and all invertebrates were not adequately assessed primarily due to the survey's 500 m depth range restriction and use of roller gear on the footrope. Deepwater fish included sablefish, shortspine thornyhead (Sebastolobus alascanus), shortraker rockfish (Sebastes borealis) and grenadier species.

The biological data collected included length measurements from over 262,000 fish representing 67 species including 23 rockfish, 17 flatfish and 10 elasmobranchs. Specimen data were collected from 63 species of fish and red squid (Berryteuthis magister). The specimen data collection includes 16,224 age structures, 16,095 weight measurements, 317 sexual maturity observations and gonad weights, 1,000 whole fish and over 2,450 stomach samples. Stomachs were collected from arrowtooth flounder, Pacific cod, walleye pollock and Pacific halibut for a trophic interaction study. Sea surface temperatures were collected at 781 survey stations and ranged from 4.2°C to 16.1°C.

Sea bottom temperatures were taken from 771 stations and ranged from 3.2°C to 11.7°C.

#### ORGANIZATION OF REPORT AND DATA STANDARDIZATIONS

The purpose of this report is to provide the fishing industry with pertinent catch information collected by the survey vessels and focuses on data collected at individual stations for the principal species encountered during the survey. The fishing results are presented in Section 1 for the F/V Dominator, Section 2 for the F/V Golden Dawn, and Section 3 for the F/V Vesteraalen. Each section has three parts: (1) station charts with haul numbers plotted adjacent to their respective geographical locations, (2) summary listings of species catches by haul, and (3) summary listings of catch rates in descending order of magnitude for selected species of commercial interest. The summary listings of catch rates groups all sharks, skates and octopus, rock sole sp. groups Lepidopsetta bilineata and an undescribed Lepidopsetta species, and dusky rockfish sp. groups Sebastes ciliatus and an undescribed Sebastes species. Hauls which had no catch are omitted from the listings. Explanations of the symbols and codes appearing in the fishing logs are summarized in Table 2.

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Table 1.—Total catch weight ranked by area for the 20 dominant fish species encountered from the NMFS 1996 triennial bottom trawl survey.

<b>Shumagin area</b>		<b>Chirikof area</b>		<b>Kodiak area</b>	
Species	Weight (kg)	Species	Weight (kg)	Species	Weight (kg)
Pacific ocean perch	17,420	Arrowtooth flounder	37,379	Arrowtooth flounder	41,492
Arrowtooth flounder	17,155	Walleye pollock	20,069	Pacific ocean perch	21,756
Atka mackerel	14,991	Pacific ocean perch	18,129	Walleye pollock	15,512
Walleye pollock	13,900	Pacific halibut	10,644	Pacific halibut	10,408
Northern rockfish	12,089	Pacific cod	9,891	Pacific cod	9,324
Pacific cod	7,495	Northern rockfish	4,060	Sablefish	5,656
Pacific halibut	5,887	Flathead sole	3,054	Flathead sole	5,284
Giant grenadier	5,509	Giant grenadier	2,357	Light dusky rockfish	3,067
Flathead sole	4,888	Sablefish	2,191	Northern rockfish	2,533
Northern rock sole	4,215	Light dusky rockfish	1,904	Southern rock sole	2,407
Southern rock sole	2,964	Rex sole	1,651	Rougheye rockfish	2,044
Yellowfin sole	2,541	Dover sole	1,337	Dover sole	1,790
Sablefish	1,465	Shortspine thornyhead	1,261	Rex sole	1,507
Shortspine thornyhead	1,332	Southern rock sole	1,172	Shortspine thornyhead	1,169
Rougheye rockfish	989	Rougheye rockfish	1,048	Eulachon	1,049
Rex sole	760	Big skate	846	Shortraker rockfish	917
Light dusky rockfish	701	Shortraker rockfish	584	Giant grenadier	716
Harlequin rockfish	674	Longnose skate	519	Yellowfin sole	585
Starry flounder	659	Northern rock sole	510	Longnose skate	573
Big skate	595	Yellowfin sole	498	Big skate	502
<b>Yakutat area</b>		<b>Southeastern area</b>		<b>Total all areas</b>	
Arrowtooth flounder	9,591	Pacific ocean perch	17,413	Arrowtooth flounder	111,797
Pacific ocean perch	4,237	Arrowtooth flounder	6,180	Pacific ocean perch	78,955
Sharpchin rockfish	2,408	Sharpchin rockfish	5,684	Walleye pollock	53,821
Sablefish	2,156	Walleye pollock	2,809	Pacific cod	32,977
Dover sole	1,858	Pacific halibut	2,794	Pacific halibut	32,095
Pacific halibut	1,530	Silvergray rockfish	2,698	Atka mackerel	15,076
Walleye pollock	1,508	Redstripe rockfish	1,759	Flathead sole	14,029
Spiny dogfish	1,339	Harlequin rockfish	1,448	Sablefish	12,467
Shortspine thornyhead	1,209	Shortspine thornyhead	1,067	Northern rockfish	12,380
Light dusky rockfish	1,186	Dover sole	1,056	Sharpchin rockfish	8,298
Silvergray rockfish	1,008	Rex sole	967	Giant grenadier	8,008
Flathead sole	695	Sablefish	964	Light dusky rockfish	7,242
Rex sole	650	Rougheye rockfish	904	Southern rock sole	7,003
Rougheye rockfish	482	Pacific cod	719	Dover sole	6,221
Shortraker rockfish	438	Spotted ratfish	630	Shortspine thornyhead	6,048
Lingcod	427	Shortraker rockfish	409	Rex sole	6,015
Harlequin rockfish	263	Redbanded rockfish	358	Rougheye rockfish	5,238
Longnose skate	251	Lingcod	321	Northern rock sole	5,064
Eulachon	229	Light dusky rockfish	180	Silvergray rockfish	3,838
Big skate	214	English sole	151	Yellowfin sole	3,642

Table 2.--Definitions of labels used in the fishing logs of the NMFS  
1996 Gulf of Alaska bottom trawl survey.

Gear Depth-	meters
Duration of tow-	tenths of an hour (standard tow is one-quarter hour)
Distance fished-	nautical miles
Gear performance-	<p>0 = satisfactory</p> <p>1 = satisfactory, unspecified minor problems</p> <p>2 = satisfactory, minor hang or rip in net</p> <p>3 = satisfactory, net off bottom for a minimal time</p> <p>4 = satisfactory, caught crab pot</p> <p>5 = unsatisfactory</p> <p>6 = unsatisfactory, snagged bottom</p> <p>7 = unsatisfactory, ripped net</p> <p>8 = unsatisfactory, net off bottom for extended period</p> <p>9 = unsatisfactory tow, caught crab pot</p> <p>10 = unsatisfactory tow, unable to reach bottom due to strong currents</p> <p>11 = unsatisfactory, net improperly configured</p> <p>12 = unsatisfactory, crossed doors</p>
Gear type-	172 = polyethylene Nor'eastern bottom trawl with roller gear
Catch units-	<p>The listings of species catches by haul are in kilograms. A 0.0 kg weight indicates a catch of less than 0.1 kg. The summary listings of catch rates for selected species use kilograms of catch per square kilometer (kg/km<sup>2</sup>) trawled.</p>

## Section 1

### Fishing Log for the F/V Dominator

- Station charts of haul numbers plotted adjacent to their respective geographical positions

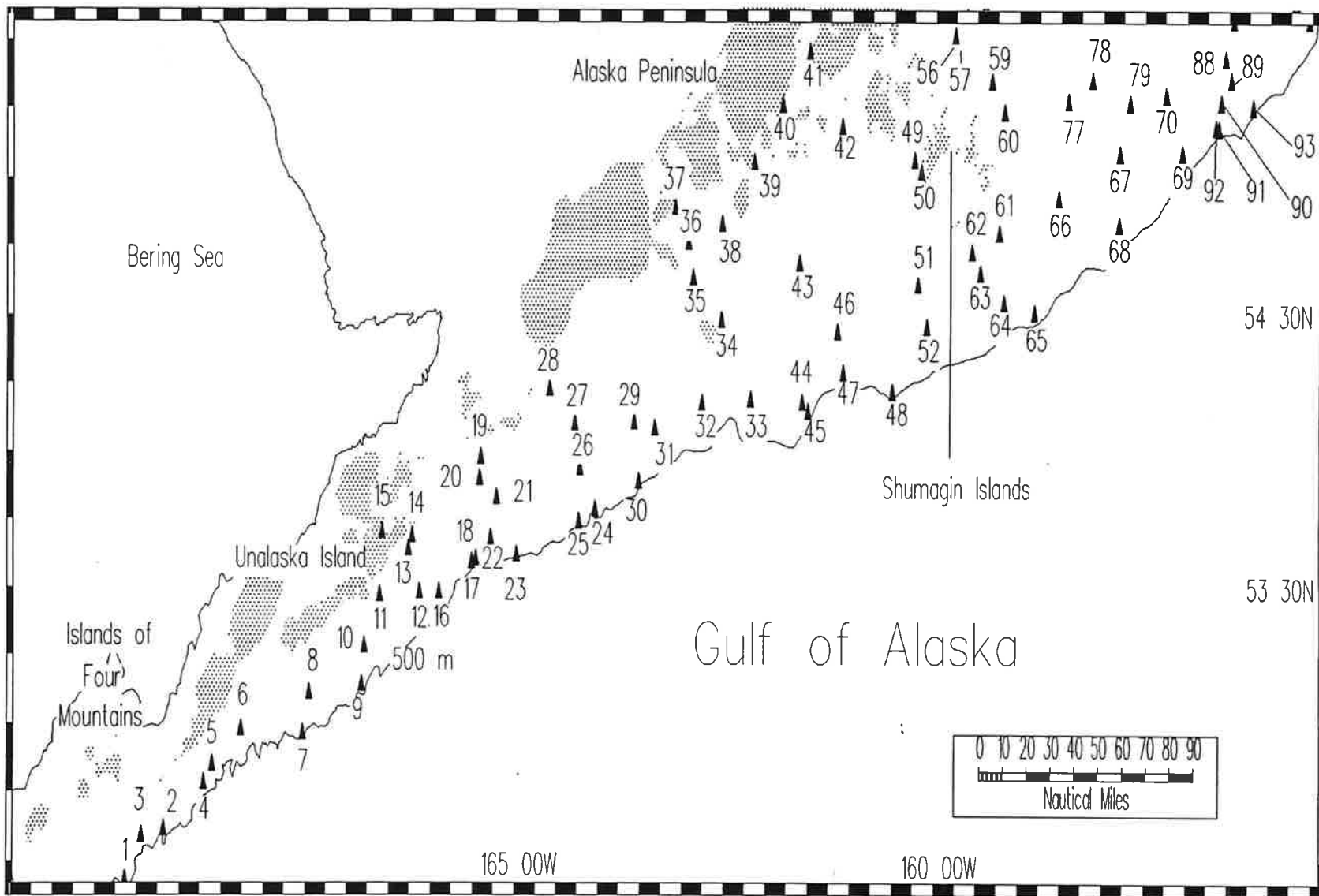


Figure 2.--Stations surveyed by the chartered trawler F/V Dominator from the Islands of Four Mountains to the Shumagin Islands area (hauls 1-52, 56, 57, 59-70, 77-79, 88-93).

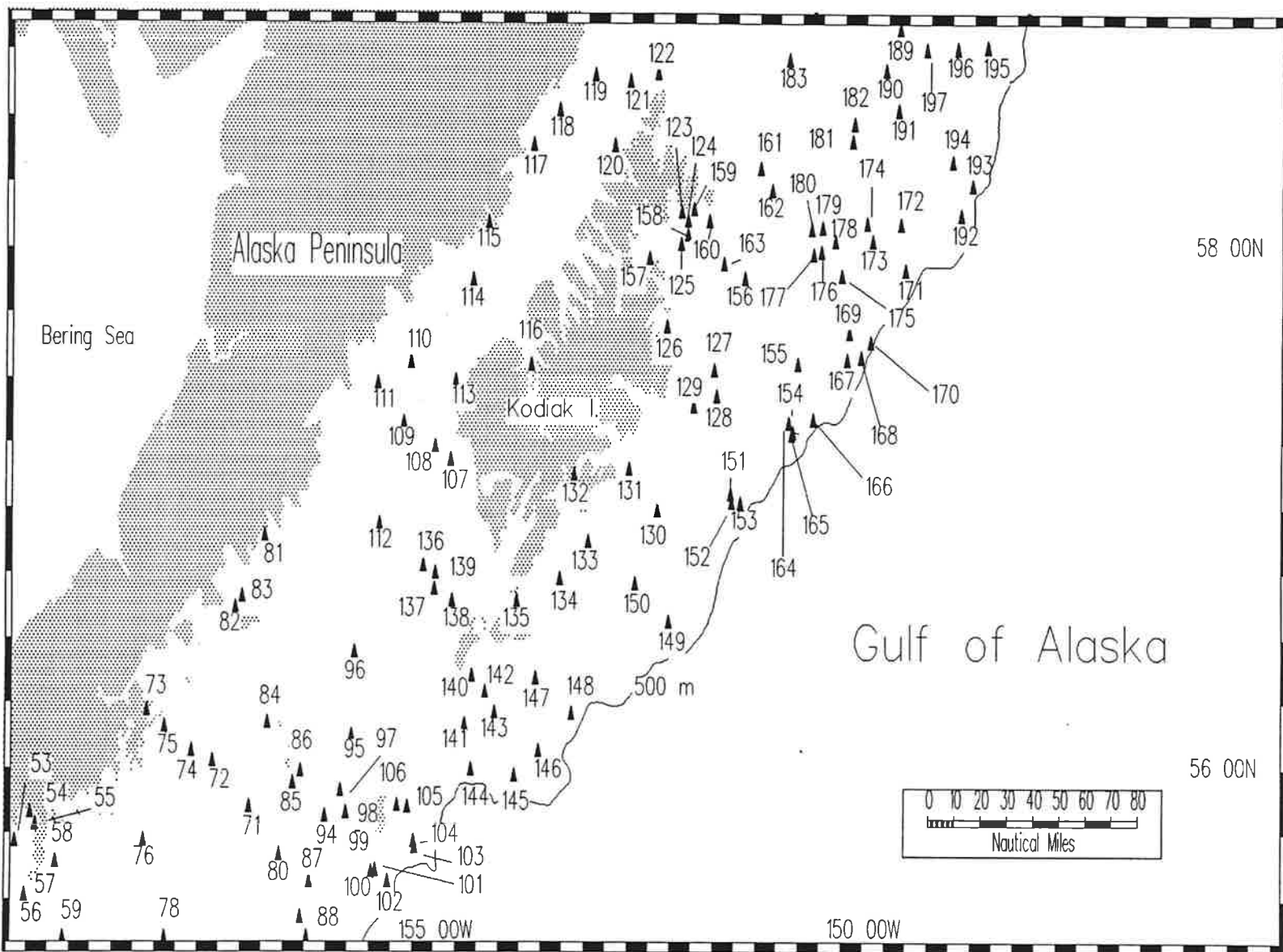


Figure 3.--Stations surveyed by the chartered trawler F/V Dominator in the Kodiak Island area (hauls 53-59, 71-76, 78, 80-88, 94-183, 189-197).



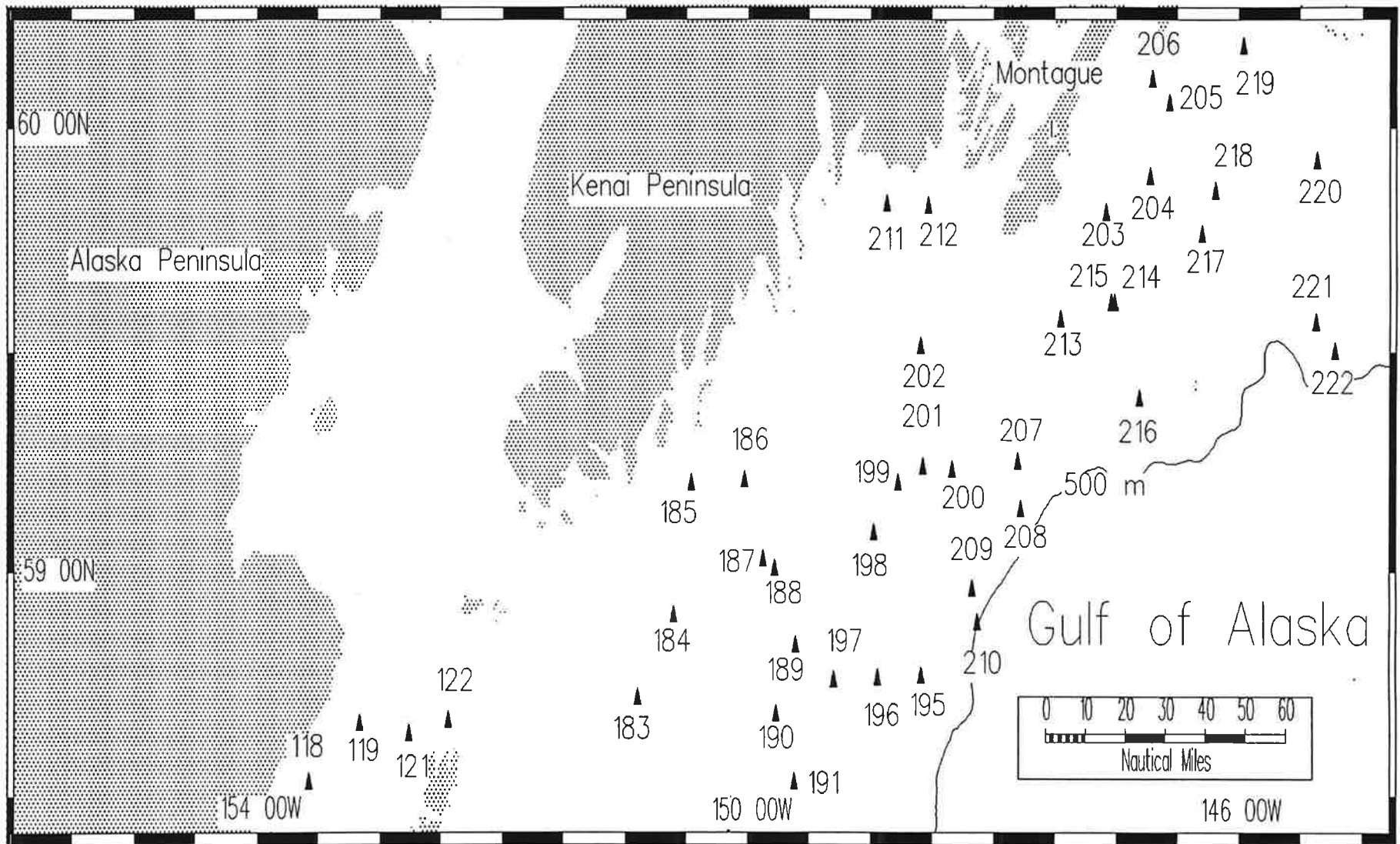


Figure 4.--Stations surveyed by the chartered trawler F/V Dominator from the Alaska Peninsula to Montague Island (hauls 118, 119, 121, 122, 183-191, 195-222).

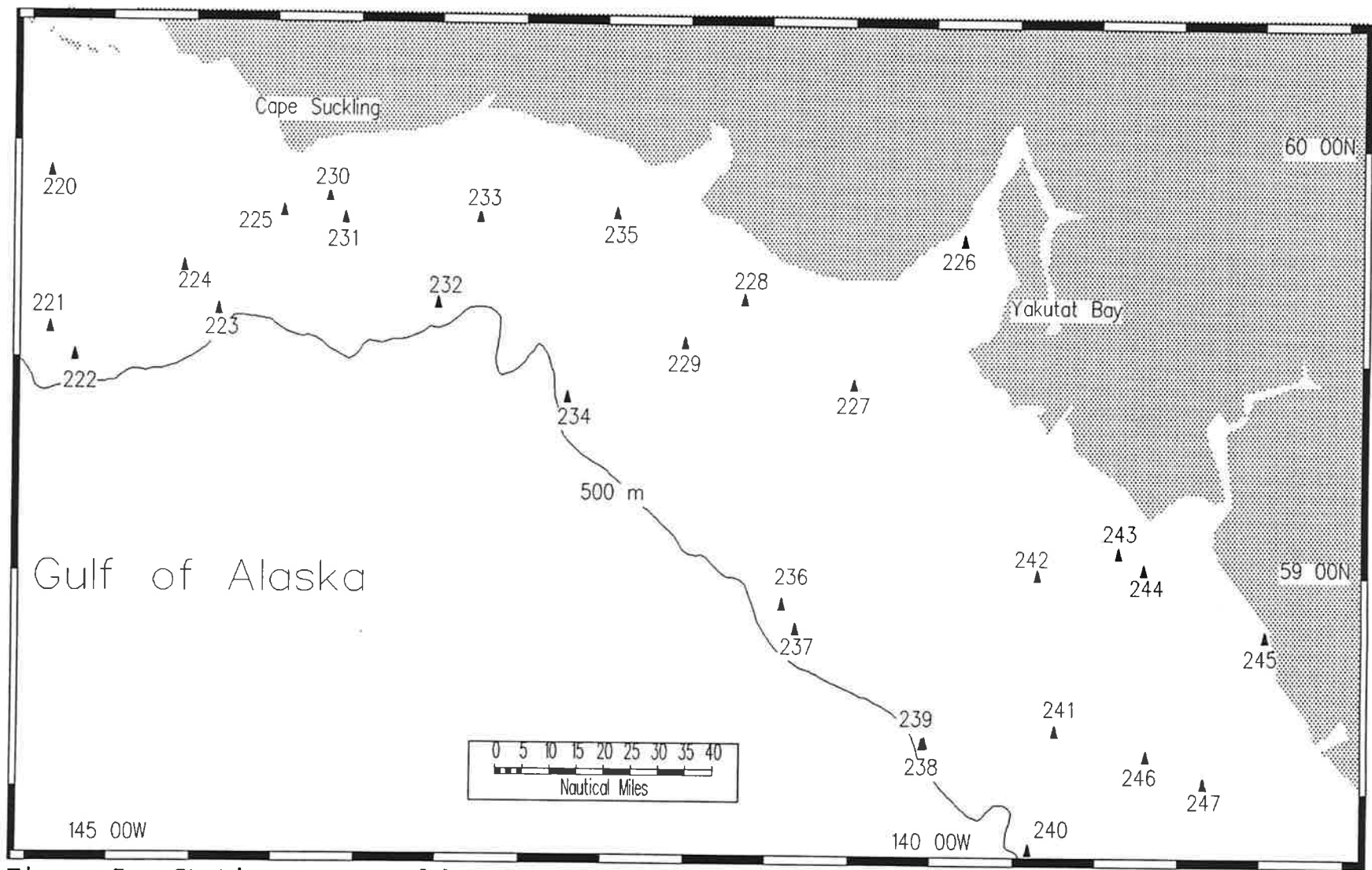


Figure 5.--Stations surveyed by the chartered trawler F/V Dominator from Cape Suckling to Yakutat Bay (hauls 220-247).

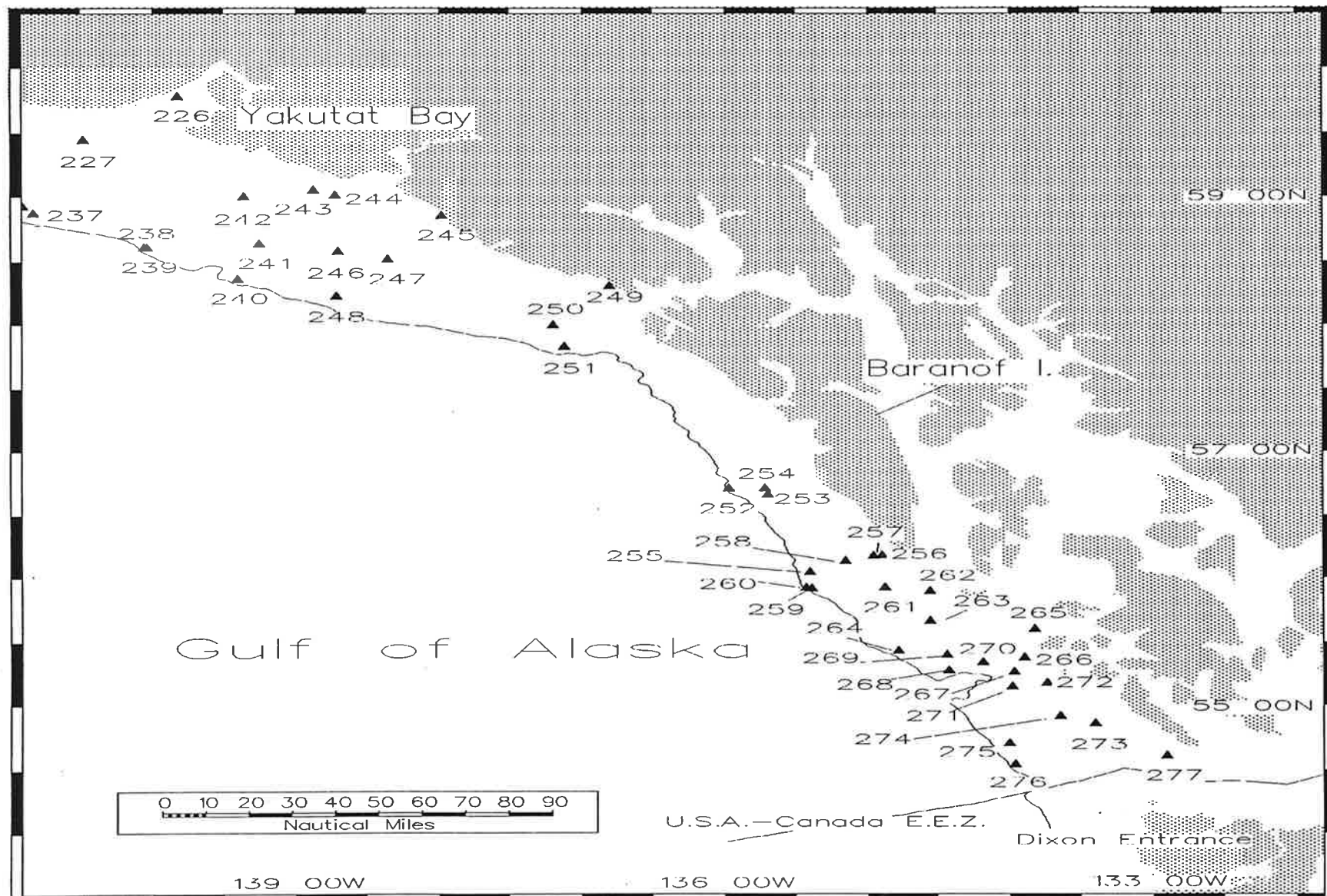


Figure 6.--Stations surveyed by the chartered trawler F/V Dominator from Yakutat Bay to Dixon Entrance (hauls 226, 227, 237-277).

## Section 1 (continued)

### Fishing Log for the F/V Dominator

- Summary listings of species catches by haul
  - Haul start latitude and longitude
  - Bottom depth in meters
  - Duration of tow in hundredths of an hour
  - Distance fished in nautical miles
  - Catch weight in kilograms of principal species
  - Total catch weight in kilograms of all species

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	1	2	3	4	5	6	7	8	9	10	11	12
Start date & time	05/22/96	05/23/96	05/23/96	05/23/96	05/23/96	05/23/96	05/24/96	05/24/96	05/24/96	05/25/96	05/25/96	05/25/96
Start latitude	5226.29	5237.07	5235.77	5247.07	5251.11	5258.98	5258.11	5306.83	5308.76	5317.09	5328.40	5329.20
Start longitude	16938.41	16911.15	16926.53	16842.80	16836.96	16816.33	16732.08	16727.70	16649.74	16647.86	16637.14	16608.51
End latitude	5227.20	5237.11	5235.56	5246.97	5251.51	5258.56	5258.73	5306.93	5309.15	5317.28	5327.73	5329.32
End longitude	16936.57	16911.08	16925.25	16841.15	16838.20	16817.66	16730.98	16726.42	16648.45	16646.52	16637.64	16607.01
Gear depth (m)	325	219	235	109	95	106	227	103	314	125	81	138
Duration (h)	0.60	0.03	0.27	0.34	0.28	0.28	0.28	0.28	0.29	0.27	0.28	0.28
Distance fished (nm)	2.69	0.11	1.49	1.90	1.61	1.81	1.72	1.47	1.62	1.59	1.40	1.68
Performance	7	6	2	0	0	0	0	2	0	0	7	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.64	1	20.7	1	1626.8	789.4	8.8	251.8	7.5	4.9	0.092	18.8
Pacific cod	0	0	21	26.1	158.4	34.7	44.3	243	2.2	41.6	2.4	70.7
Sablefish	0	12.4	0	0	0	0	17.7	0	23.1	0	0	0
Arrowtooth flounder	5.9	103.4	4.8	19	3.6	25.1	27	6.5	14.1	123.4	2.6	204.1
Pacific halibut	0	0	16.938	24.838	62.175	29.94	2.784	30.611	2.784	21.259	34.461	3.08
Flathead sole	0	0	0	0	0	0	0	0	0	0	0	6.7
Dover sole	0	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	7.4	0	14.1	2.4	0	12.5
Rock sole species	0	0	0	78	46.8	27.3	0	123.045	0	36	8.7	18.6
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0.75
Pacific ocean perch	0	668	243.6	0.6	19	0	6353.438	4.7	9.8	0.35	0.036	0
Rougheye rockfish	136.9	33.5	22.4	0	1.15	0	0	0	12.3	0	0	0
Shortspine thornyhead	5.9	1.1	0	0	0	0	13.172	0	29.7	0	0	0
Northern rockfish	0	0	0	64.9	45.7	0	5.018	21.4	0	0	0.632	0
Shortraker rockfish	41.4	0	0	0	0	0	0	0	6	0	0	0
Dusky rockfish species	0	0	4.2	5.1	0	0	0	3	0	0	0	0
Other rockfish	0	0	2.8	3.4	11.2	0	0	2	0	0	0	0
Atka Mackerel	0	0	0	0	2.7	1.1	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	4.08	2.4	17.248	3.6	0	0	0	7.408	0	0	0.64	0
Skates	0.28	0	0	0	0	0	0	0.408	0	0	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0	0	0	0	0
King crabs	0	0	6.202	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0	0	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0.3	0	15.8	0	0	0
Grand total	201.931	822.352	416.052	239.916	1978.705	908.022	6480	879.639	190.66	229.909	54.383	335.23

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	13	14	15	16	17	18	19	20	21	22	23	24
Start date & time	05/25/96	05/25/96	05/26/96	05/27/96	05/27/96	05/27/96	05/29/96	05/29/96	05/29/96	05/29/96	05/29/96	05/30/96
Start latitude	5338.60	5341.62	5342.57	5329.07	5335.77	5336.47	5358.97	5354.27	5349.99	5341.03	5337.39	5347.35
Start longitude	16616.40	16613.58	16635.32	16554.23	16530.92	16527.95	16524.68	16525.20	16513.14	16517.27	16458.81	16402.46
End latitude	5338.43	5341.14	5342.85	5329.47	5336.17	5337.36	5359.79	5353.45	5349.18	5341.40	5337.31	5347.31
End longitude	16617.81	16614.58	16634.25	16553.16	16529.90	16526.18	16524.53	16525.03	16512.37	16515.85	16457.41	16403.46
Gear depth (m)	83	73	62	180	254	249	87	91	107	208	433	120
Duration (h)	0.30	0.28	0.29	0.28	0.29	0.46	0.29	0.29	0.28	0.32	0.29	0.20
Distance fished (nm)	1.71	1.49	1.31	1.44	1.38	2.61	1.56	1.55	1.75	1.75	1.56	1.15
Performance	0	0	0	0	0	0	0	0	0	0	0	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0	0.85	490.5	9.7	24.9	5.2	0	0	1.7	5.1	3.4	199.1
Pacific cod	48.5	7.8	76.6	12.8	0	0	48.3	53	30.7	1.9	0	57.2
Sablefish	0	0	0.23	0	56.4	14.1	0	0	0	14.3	44	0
Arrowtooth flounder	55.5	13.3	0.8	15.8	37.5	34.8	51.4	30.7	298.2	40	11.1	32.1
Pacific halibut	183.023	33.379	0.265	0	19.045	2.643	35.141	37.674	39.3	0	0	6.036
Flathead sole	0	0	36.1	1.1	1.3	1.1	0	0.3	2.1	1.4	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0.044	1	22.7	39.7	0	0	2.4	22.5	8.6	8.2
Rock sole species	120.3	173.4	159.6	11.7	0	0	165	164.7	46.8	0	0	7.2
Yellowfin sole	0	0	25.3	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	52.4	0	1.6	2.6	0	0	0	0	0	0
Pacific ocean perch	1.6	0	0	1	87.5	83.1	2	0	0	27.6	0.4	86.8
Rougheye rockfish	0	0	0	0	0	0.4	0	0	0	0	0	5
Shortspine thornyhead	0	0	0	0	42.4	52.3	0	0	0	9.2	23	3.6
Northern rockfish	1.1	0	5.7	2	0	0	0	0	0	1.1	0	15
Shorthead rockfish	0	0	0	0	0	0	0	0	0	0	2.6	0
Dusky rockfish species	2.1	0	0	0	0	0	0	0	0	0	0	25.2
Other rockfish	1.4	0	0	0	0	0	0	0	0	0	0	19.6
Atka Mackerel	0	0	0	0	0	1.1	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	117.52	0	2.8	12	0	0	3.2	0	0	0.696
Skates	0	205.6	0	0	0	0	0	0	0	0	0	0
Sharks	0	0	0	0	0	0	12.4	0	6	13.6	0	0
Tanner crabs	0	0	1.06	0	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0	0	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0.9	1.09	1.372	0	0	0	1.5	2.2	0.254
Grand total	417.65	445.035	1045.523	67.6	302.071	251.171	314.441	287.074	430.404	138.36	396.044	471.69

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	25	26	27	28	29	30	31	32	33	34	35	36
Start date & time	05/30/96	05/30/96	05/30/96	05/30/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	06/01/96	06/01/96	06/01/96
Start latitude	5344.70	5356.45	5406.37	5414.10	5406.73	5353.62	5405.38	5410.96	5411.52	5429.01	5438.50	5446.25
Start longitude	16414.13	16413.57	16417.41	16435.54	16334.74	16331.09	16319.87	16246.36	16211.45	16232.75	16253.00	16256.62
End latitude	5344.69	5357.22	5407.16	5414.34	5406.77	5354.08	5404.66	5411.37	5411.57	5429.67	5438.50	5446.15
End longitude	16415.66	16412.83	16418.07	16436.46	16333.33	16329.87	16318.89	16245.16	16210.33	16233.71	16251.85	16255.22
Gear depth (m)	222	88	86	113	89	96	81	74	89	141	83	86
Duration (h)	0.29	0.29	0.30	0.26	0.28	0.27	0.31	0.27	0.22	0.29	0.23	0.27
Distance fished (nm)	1.70	1.66	1.66	1.11	1.55	1.64	1.74	1.53	1.22	1.64	1.28	1.53
Performance	0	0	0	0	0	0	0	0	1	0	2	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	7.7	113.6	327.9	51	102.2	0.7	11	0.358	1.2	15.6	9	30.1
Pacific cod	3.2	84.6	30	22.2	11.6	44.5	35.7	14.9	22.6	83.5	46.4	108.8
Sablefish	5.7	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	68.1	58.1	16.9	37.1	30.3	1.8	40.2	5.2	9.2	46.1	28.6	71.8
Pacific halibut	0	19.342	11.615	41.741	14.285	39.046	51.571	41.38	33.194	18.149	6.582	44.143
Flathead sole	2.9	64	4.6	0	25.4	0	33.3	0.4	0	97.9	54.6	91.7
Dover sole	0	0	0	0	0	0	0	0	0	0	0	0
Rex sole	5.7	0	0	0	4.9	0	0.7	0	0	3	0.7	0.1
Rock sole species	0	163.8	198.6	54.3	117.6	59.7	177.3	95.4	17.4	0	184.2	148.8
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0.25	12.2
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	34.4
Pacific ocean perch	293.5	3.1	0	0	0	40.9	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Shortspine thornyhead	121.2	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	0	0	204.4	0	0	0	0	0.6	0
Shortraker rockfish	2.8	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	7.2	0	0	0	0	12	0	0	0	0	0	0.45
Other rockfish	8.8	0	0	0	0	10.8	0	0	0	0	0	0.3
Atka Mackerel	0	87.2	0	0	2.6	0	1	0	0	0	0	1.5
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	2.2	0	0	27.784	2.536	0	4.4	21.6	0	0.184	9.6	186.4
Skates	0	193.6	0	0	0	0	0	0	0	18.64	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0	0	0.072	0	0.324
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	1.076	0	0
Sidestripe shrimp	0	0	0	0	0	0	0	0	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	2.43	0	0	0	0	0	0	0	0	0	0	0
Grand total	532.174	787.35	589.845	234.133	311.469	430.316	357.671	212.008	140.644	295.161	343.888	836.883

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	37	38	39	40	41	42	43	44	45	46	47	48
Start date & time	06/01/96	06/02/96	06/02/96	06/02/96	06/02/96	06/03/96	06/03/96	06/03/96	06/04/96	06/04/96	06/04/96	06/04/96
Start latitude	5454.08	5450.25	5503.79	5516.11	5527.81	5511.64	5441.64	5410.81	5408.93	5426.52	5417.38	5413.13
Start longitude	16305.96	16232.09	16209.70	16149.61	16130.16	16106.74	16137.30	16134.91	16130.77	16109.85	16105.86	16030.76
End latitude	5454.53	5449.95	5502.99	5515.32	5528.66	5511.13	5440.89	5411.57	5409.52	5427.30	5417.35	5413.19
End longitude	16304.26	16230.79	16209.34	16149.82	16130.28	16106.05	16137.78	16134.75	16130.22	16109.82	16104.51	16029.39
Gear depth (m)	41	40	71	92	36	67	73	115	323	151	255	468
Duration (h)	0.31	0.30	0.29	0.27	0.28	0.22	0.28	0.29	0.29	0.28	0.28	0.30
Distance fished (nm)	2.07	1.59	1.58	1.51	1.68	1.27	1.51	1.46	1.28	1.52	1.48	1.53
Performance	0	0	0	0	0	2	0	0	0	0	3	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	7.8	2.9	70	363.2	0.7	1	0.6	0.2	0	6.3	120.4	0
Pacific cod	4.1	0.7	18.7	108.6	65.7	0.7	24.8	34.6	0	4.4	6.8	0
Sablefish	0	0	0.6	0.198	0.174	0	0	0	13.2	0	15.7	37.7
Arrowtooth flounder	4.1	1.1	27.7	120.1	0.3	4.7	2.8	76.7	93.7	185.8	15.7	7.6
Pacific halibut	152.104	13.966	33.263	34.704	43.228	0	26.503	45.133	0	18.406	0	0
Flathead sole	0	2.5	362.6	470.7	1.5	8.6	0	0	0	26.7	0	0
Dover sole	0	0	0	0	0	0	0	0	19.1	0	1	33.4
Rex sole	0	0	0	0.104	0	0	0	0	3.9	24.8	12.4	2
Rock sole species	235.2	150	51.3	68.4	160.8	113.7	78.6	17.4	0	0	0	0
Yellowfin sole	26.8	0.6	157.7	31.1	437.4	0	0	0	0	0	0	0
Butter sole	0	1.3	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	21.2	0	176.8	135.6	22	0	0	0	0	0	0	2.3
Pacific ocean perch	0	0	0	0	0	0	0	26	0	0	5.6	0
Rougheye rockfish	0	0	0	0	0	0	0	0	45.2	0.3	3.6	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	28.1	0	56	48.7
Northern rockfish	0	0	0	0	0	0	2	397.3	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	44.4	3.2	0	0
Dusky rockfish species	0	0	0	0	0	0	7.8	51.9	0	0	0	0
Other rockfish	0	0	0	0	0	0	5.2	97.8	0	0	0	0
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	35.6	20	34.064	17.2	107.6	0	1.6	0	1.912	0	10.8	3
Skates	0	0	0	0	0	0	30.6	0	0	0	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0.028	0.996	0	0	0	0	0	0.06	0	0.82
King crabs	0	0	0	0	0	0	0	0	2.348	0	3.8	0
Northern pink shrimp	0	0	0	0.766	0	0	0	0	0	0.172	0	0
Sidestripe shrimp	0	0	0	0	0	0	0	0	0.07	0	0.054	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	1.642	0	0.184	0.85
Grand total	500.546	202.194	952.917	1364.366	962.577	133.016	186.063	828.814	265.124	271.816	257.375	1425.584



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	49	50	51	52	53	54	55	56	57	58	59	60
Start date & time	06/07/96	06/07/96	06/07/96	06/07/96	06/08/96	06/08/96	06/08/96	06/08/96	06/08/96	06/08/96	06/08/96	06/09/96
Start latitude	5504.24	5501.73	5436.91	5427.48	5543.46	5550.09	5547.30	5531.22	5531.22	5538.88	5521.40	5514.54
Start longitude	16015.01	16010.10	16012.68	16006.22	15953.62	15942.92	15939.22	15946.13	15946.13	15924.63	15919.31	15910.16
End latitude	5503.46	5502.06	5437.67	5428.03	5544.28	5550.08	5548.16	5531.64	5531.64	5537.97	5521.05	5514.95
End longitude	16014.99	16011.34	16012.50	16007.36	15953.33	15942.62	15939.02	15947.42	15947.42	15924.66	15920.67	15912.08
Gear depth (m)	70	37	105	129	124	77	30	163	163	113	170	188
Duration (h)	0.28	0.29	0.27	0.29	0.27	0.06	0.28	0.28	0.28	0.30	0.28	0.39
Distance fished (nm)	1.48	1.47	1.45	1.62	1.58	0.32	1.64	1.59	1.58	1.73	1.62	2.24
Performance	0	0	7	0	0	6	0	11	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	15.6	2.4	1.3	3.1	771.5	0.076	0	1.7	1.6	522.4	12.35	28.9
Pacific cod	43.8	2126.6	7.6	49.5	26.3	0.414	0	0	15.5	48.3	5	18.8
Sablefish	0	0	0	0	0	0	0	0	0	0	0	1.4
Arrowtooth flounder	18.2	0	5.4	1046.3	239.7	39.5	0	68.8	706.3	207	202.7	430
Pacific halibut	16.5	71.558	0	49.928	44.777	11.869	47.827	6.1		47.58	56.607	75.053
Flathead sole	169.2	7.5	0	117.1	131.5	12.6	0	17.1	95.4	69.8	56.4	70.9
Dover sole	0	0	0	6.5	0	0	0	0	3.6	0	0	12.1
Rex sole	0	0	0	38.9	0.264	0	0	0	0.024	0.06	0.73	4.8
Rock sole species	262.2	95.4	4.2	0	7.5	6.9	499.962	1.5	0	9.9	0	0
Yellowfin sole	0	0	0	0	2.1	21	0	0	0	0	0	0
Butter sole	18.8	63	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	49.6	0	0	0	24.8	82.984	0	0	0	0	0
Pacific ocean perch	0	0	0	0	0	0	0	0	0	0.31	0	0
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0.678	0	0
Shortspine thomyhead	0	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	3.6	0.83	0	0	0	0	0	0	0	0
Shorthead rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	226.8	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	151.2	0	0	0	0	0	1.376	0	0	0
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	1.3
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	38.8	0	0	0	1.52	2.968	26.4	0	13.672	8	4.576	20.512
Skates	0.08	139.6	0	0	0	0	14.4	0	19.2	0	0	106.4
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0.008	0	0	0.116	0.048	0.004	0.032	0.128	1.044	0.108	0.268
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0.002	3.33	0.032	1.156	4.168
Sidestripe shrimp	0	0	0	0	0	0	0	0.008	0.008	0	0.146	0.33
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	585.17	2562.975	404.314	1313.62	1226.147	120.567	1074.35	100.257	953.194	936.802	366.207	809.539

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	61	62	63	64	65	66	67	68	69	70	71	72
Start date & time	06/09/96	06/09/96	06/09/96	06/09/96	06/10/96	06/10/96	06/10/96	06/10/96	06/11/96	06/11/96	06/11/96	06/11/96
Start latitude	5448.25	5443.99	5439.41	5432.88	5430.62	5455.69	5505.58	5449.97	5505.75	5518.16	5551.30	5601.87
Start longitude	15913.81	15933.76	15927.70	15910.55	15848.77	15831.81	15748.29	15748.40	15703.51	15715.46	15709.17	15735.05
End latitude	5447.77	5443.95	5439.19	5432.64	5430.82	5454.98	5505.73	5450.30	5506.05	5518.07	5552.09	5602.38
End longitude	15915.08	15934.00	15926.31	15911.80	15847.39	15830.94	15746.88	15747.09	15702.30	15716.97	15708.99	15736.30
Gear depth (m)	55	37	76	119	396	163	76	185	233	92	107	98
Duration (h)	0.28	0.04	0.27	0.28	0.29	0.27	0.29	0.27	0.26	0.29	0.27	0.29
Distance fished (nm)	1.68	0.28	1.58	1.44	1.58	1.63	1.55	1.56	1.44	1.65	1.53	1.64
Performance	2	6	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.42	0	8	0.318	1.5	0	0	1.3	0.286	4.5	0.02	6.9
Pacific cod	2.2	0	0	108.7	0	162.1	0	44.7	86.2	10	3.7	33.1
Sablefish	0	0	0	0	73.2	0	0	0	52.5	0	0	0
Arrowtooth flounder	0	0	0.23	0.43	16.7	272.3	3	94.9	511.4	3.9	309.214	92.1
Pacific halibut	99.828	0	35.887	10.214	0	114.67	251.591	100.312	6.284	187.596	46.124	8.51
Flathead sole	0	0	0	0	0	1.4	0	0	0	0	11.958	0
Dover sole	0	0	0	0	19.6	3.6	0	2.9	2.1	0	14.868	0
Rex sole	0	0	0	0	5.2	44.6	0	2	2.2	0	59.94	2.8
Rock sole species	11.4	0	56.4	0	0	0	16.2	0	0	151.134	2.712	2.364
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0
Pacific ocean perch	0	0	0	0.6	0	8.1	39.9	6.5	112.6	0	0	0
Rougheye rockfish	0	0	0	0	2.8	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	76.8	0	0	0	4.6	0	0	0
Northern rockfish	0	0	0	1.3	0	6.8	53.3	2.8	1.4	0	0	0
Shortraker rockfish	0	0	0	0	10.752	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	0	0	0	23.1	0	0	0	0	0
Other rockfish	0	13.6	2	0	0	0	16.088	0	4.6	0	0	0
Atka Mackerel	0	0	0	0	0	9.2	0	0	9.6	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	6.8	0	0	0.512	0	0	0	0	0.272	0	0	0
Skates	0	0	0	0	0	51.2	56	0	0	0	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0.004	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0.57	0	0	0.026	0	0	0.006
Sidestripe shrimp	0	0	0	0	0	0	0	0	0.096	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	3.38	1.004	0.382	0	0	0	0	0
Grand total	356.662	13.6	121.001	132.717	481.043	686.483	482.339	257.479	798.616	367.352	450.954	147.512

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	73	74	75	76	77	78	79	80	81	82	83	84
Start date & time	06/12/96	06/12/96	06/12/96	06/13/96	06/13/96	06/13/96	06/13/96	06/13/96	06/14/96	06/14/96	06/14/96	06/14/96
Start latitude	5613.52	5604.04	5609.76	5543.63	5516.86	5521.54	5516.53	5540.45	5653.79	5637.34	5639.75	5610.65
Start longitude	15821.36	15749.76	15808.93	15822.72	15824.89	15807.84	15740.88	15647.79	15658.93	15719.16	15714.77	15656.78
End latitude	5613.32	5604.62	5609.42	5544.08	5516.88	5521.15	5516.85	5541.21	5653.20	5637.47	5638.90	5609.80
End longitude	15819.88	15750.83	15810.24	15821.58	15823.34	15806.62	15742.26	15647.82	15659.94	15718.31	15714.70	15657.38
Gear depth (m)	70	169	58	122	172	117	85	119	28	64	98	85
Duration (h)	0.28	0.27	0.28	0.26	0.28	0.26	0.29	0.26	0.29	0.13	0.28	0.29
Distance fished (nm)	1.58	1.58	1.50	1.47	1.66	1.51	1.63	1.42	1.58	0.94	1.62	1.73
Performance	0	0	0	0	0	0	0	0	0	5	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	68.8	5.718	0.756	30.2	3.1	1.292	1.262	0.18	0.04	0.852	30.016	13.344
Pacific cod	84.01	24.5	67.244	20.6	0	0	0.042	248.7	0.104	10.7	13.9	5.692
Sablefish	0.376	0	0	0	2.3	0	0	0	0	0	0	0
Arrowtooth flounder	25.2	56.7	3.2	78.626	372.2	281.736	1.8	919.7	0.3	1.762	132.8	35.426
Pacific halibut	49.895	0	0	0	0	123.8	378.08	100.6	97.271	10.818	17.53	84.668
Flathead sole	164.12	45.5	0	4.574	46.8	29.864	0	0.8	0	0	15.282	1.562
Dover sole	0	0.492	0	0	8.1	9.4	0	0.944	0	0	0	0
Rex sole	0	3.1	0	3	6.7	67.5	0	0.484	0	0	0.5	0
Rock sole species	0	0	165.9	0	0	0	126.3	0	214.2	52.8	17.55	144.066
Yellowfin sole	94.48	0	0	0	0	0	0	0	0.7	0	0	0
Butter sole	3.4	0	0	0	0	0	0	0	2.4	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	48.8	0	0	0	0	0	0	0	7.2	0	0	0
Pacific ocean perch	0	0	0	0.516	0.936	0	0.04	1.148	0	0	0	0.416
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	0	0	0	0	0.78	0	0	0	0
Shorthead rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	0	0	3.288	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	2.192	0	0	0	0	0	0
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	126.4	0.248	100.4	3.296	0	0.232	3.592	0	0	22.624	10.408	0.424
Skates	268.4	0	0	0	89.832	0	34.4	0	77.6	0	15.6	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	15.88	2.164	0.428	0	0	0.016	0	0	0	0	0.156	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0.166	1.58	0	0.084	2.31	0	0	0	0	0	0.62	0
Sidestripe shrimp	0	0.01	0	0	0	0	0	0	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	956.248	141.416	355.172	149.56	537.966	524.154	555.582	1286.586	477.225	104.282	255.768	299.748

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	85	86	87	88	89	90	91	92	93	94	95	96
Start date & time	06/14/96	06/14/96	06/15/96	06/15/96	06/15/96	06/15/96	06/15/96	06/15/96	06/15/96	06/16/96	06/16/96	06/16/96
Start latitude	5556.67	5559.42	5534.41	5526.11	5521.43	5516.60	5511.15	5511.21	5515.80	5549.10	5607.68	5626.88
Start longitude	15638.74	15633.42	15626.58	15632.75	15628.50	15635.26	15636.80	15639.11	15612.15	15616.34	15557.79	15556.03
End latitude	5557.51	5558.80	5533.69	5525.53	5520.93	5516.09	5511.18	5511.25	5516.54	5549.66	5608.57	5626.24
End longitude	15638.62	15634.24	15627.43	15631.69	15627.38	15636.51	15635.75	15637.67	15611.65	15617.20	15557.37	15556.83
Gear depth (m)	194	194	258	167	157	139	453	451	366	231	140	227
Duration (h)	0.28	0.27	0.27	0.29	0.28	0.28	0.26	0.28	0.27	0.27	0.28	0.29
Distance fished (nm)	1.57	1.44	1.62	1.55	1.55	1.68	1.13	1.57	1.49	1.39	1.74	1.50
Performance	0	0	0	0	0	0	5	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	6.4	14.24	11.3	0	1	2.4	0	0.902	5.4	13.5	3130.579	28.7
Pacific cod	0	163.2	0	94.3	38	0	0	0	0	0	656.2	3.4
Sablefish	1.9	0	10.7	3.1	0	0	6.6	193.9	18.2	9.2	0	29.3
Arrowtooth flounder	65.4	208.1	158.9	363.6	147.4	7	2.5	15.4	15.6	90.674	1430.644	230.4
Pacific halibut	2.9	10.363	0	40.743	0	92.353	0	0	0	0	64.6	9.8
Flathead sole	23.4	1.2	0	0	0	0.278	0	0	0	9.826	71.6	7.7
Dover sole	12.3	8.2	0.8	20.7	19.7	1.016	11.5	71.9	31.8	12.1	8.3	0.8
Rex sole	61.3	16.1	12.4	39.9	34.4	0	0.7	1.6	1.1	9	30.2	0
Rock sole species	0.846	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0
Pacific ocean perch	0	8.4	0	204.6	16.5	0	0	0	0	0.8	0	0
Rougheye rockfish	0	2.7	1.7	1.7	0.48	0	0	0	96.3	9.1	0	0
Shortspine thomyhead	0	0	1.2	0	0	0	5.2	48	63	2	0	0
Northern rockfish	0	0	0	658.1	158.8	0	0	0	0	0	29.3	0
Shortraker rockfish	0	0	0	0	0	0	0	2.684	32.2	0	0	0
Dusky rockfish species	0	6.3	0	494.4	24	0	0	0	0	0	13.5	0
Other rockfish	0	4.2	0	359.992	21.272	0	0	0	0	0	11.28	0
Atka Mackerel	1.6	3.2	0	5.9	0	0	0	0	0	1.3	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0.208	19.6	0	0	1.744	0	0	2.16	0	0	0
Skates	0	0.688	39.456	60	197.6	52.4	0	4.696	0	0	44	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	4.56	1.684	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0.006	0.474	0.04	0	0	0	0	0	0	1.176	0	0.054
Sidestripe shrimp	0.07	0.15	0.546	0	0	0	0	0	0	3.488	0	1.892
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	3.3	0	0	0	0	0.836	8.3	0.988	0	0
Grand total	209.93	470.013	262.276	2371.419	664.783	172.614	136.347	507.27	406.738	164.936	5490.203	327.012

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	97	98	99	100	101	102	103	104	105	106	107	108
Start date & time	06/16/96	06/16/96	06/18/96	06/18/96	06/18/96	06/18/96	06/18/96	06/18/96	06/18/96	06/18/96	06/19/96	06/19/96
Start latitude	5555.03	5549.92	5546.24	5536.44	5536.92	5534.32	5542.08	5543.54	5551.32	5551.71	5711.34	5714.52
Start longitude	15605.57	15601.37	15552.70	15543.45	15540.51	15532.10	15513.41	15514.03	15518.68	15525.96	15449.57	15500.22
End latitude	5554.20	5549.12	5546.95	5536.44	5536.13	5535.01	5542.42	5543.84	5551.40	5551.92	5712.15	5715.31
End longitude	15605.90	15600.98	15553.21	15543.34	15540.45	15531.10	15512.17	15512.72	15517.19	15526.02	15449.55	15500.24
Gear depth (m)	145	112	90	138	149	362	256	176	55	42	79	201
Duration (h)	0.27	0.30	0.29	0.02	0.28	0.28	0.28	0.27	0.30	0.07	0.27	0.28
Distance fished (nm)	1.62	1.61	1.44	0.12	1.49	1.66	1.46	1.50	1.60	0.42	1.53	1.47
Performance	0	0	0	6	0	0	0	0	0	6	2	2
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	10.2	0.76	16.3	5.8	46.1	1.4	0	0.916	0	0	5.2	87.7
Pacific cod	48.6	44.9	6	0	59.5	0	0	2.078	290.1	1.152	33.4	50.54
Sablefish	0	0	0	0	0	28.5	13.7	47.2	0	0	0	22
Arrowtooth flounder	447.3	518.1	7.502	0	441.9	18.7	93.6	93.9	2.2	0	214.6	229.9
Pacific halibut	0	96.477	90.615	34.5	54	0	12.4	22.798	155.5	0	45.4	60.9
Flathead sole	15.8	0	0.372	0	0	0	0	0	0	0	0.5	23.2
Dover sole	29.6	2.1	0	0	2.6	21.6	7.6	0	0	0	0	2.7
Rex sole	60.8	0	0	0	10.5	3	49.1	9.5	0	0	0	2
Rock sole species	0	0	14.1	0	0	0	0	0	132	0.198	8.4	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0
Pacific ocean perch	0	0	0	0	0	0.634	282.8	62.5	1.1	0	0	0.9
Rougheye rockfish	0	0	0	0	0	3.2	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	26.5	20.3	0.708	0	0	0	0
Northern rockfish	0	0	0	0	0	0	2.2	115.4	4.7	0	1.9	0
Shortraker rockfish	0	0	0	0	0	15	0	0	0	0	0	0
Dusky rockfish species	0	0	0	0	0	0	3.78	4.536	0	0	11.7	0
Other rockfish	0	0	0	0	0	0	4.208	13.824	0	0	7.8	0
Atka Mackerel	0	0	0	0	0	0	1.3	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	55.6	0	0	0	0	0.88	0	0	0	1.632	77.6
Skates	0	8.4	0	27.48	8.8	0	0	0	96	0	0	62.16
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0	0	0	0	0.044
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0	0.85
Sidestripe shrimp	0	0	0	0	0	0	0.028	0	0	0	0	1.93
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	6	0.296	0.192	0	0	0	2.27
Grand total	615.358	735.457	134.889	67.852	624.44	245.284	492.542	376.048	687.042	13.262	343.448	642.756

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	109	110	111	112	113	114	115	116	117	118	119	120
Start date & time	06/19/96	06/19/96	06/19/96	06/19/96	06/20/96	06/20/96	06/20/96	06/20/96	06/21/96	06/21/96	06/21/96	06/21/96
Start latitude	5719.95	5733.78	5729.17	5656.55	5729.71	5752.98	5806.22	5733.38	5824.00	5831.91	5839.85	5823.75
Start longitude	15522.55	15517.57	15540.81	15538.75	15446.61	15434.70	15423.93	15353.57	15352.82	15334.62	15310.09	15255.96
End latitude	5720.58	5734.45	5728.56	5655.89	5730.31	5753.57	5805.41	5734.22	5824.48	5832.29	5840.49	5824.80
End longitude	15524.20	15516.48	15541.79	15537.85	15445.59	15433.65	15423.56	15353.99	15351.60	15333.36	15309.13	15255.53
Gear depth (m)	256	279	123	282	180	246	135	108	129	117	165	52
Duration (h)	0.44	0.28	0.27	0.29	0.29	0.29	0.28	0.29	0.27	0.28	0.28	0.35
Distance fished (nm)	2.02	1.67	1.52	1.55	1.54	1.53	1.56	1.66	1.51	1.44	1.52	2.01
Performance	0	0	0	0	0	0	0	0	0	0	0	2
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	74.1	13.6	1.146	7.2	96.018	29.1	54.646	154.8	67.5	22	24.8	0
Pacific cod	40.1	20.6	27.488	18.1	59.082	19.2	23	11.5	34.4	25.1	32.6	0
Sablefish	41.5	12.4	0	18.6	0	3.1	0	1.7	0	0	0	0
Arrowtooth flounder	131.378	75.4	3260.984	220.7	230.7	122.7	134.1	202.106	94.2	117.1	61.9	0.104
Pacific halibut	12.8	19.842	0	31.1	0	35	9.163	29.2	87.2	6.4	32.544	73.4
Flathead sole	15.222	6.8	7.012	18.2	17.5	8.8	156.4	208.894	264.6	46.8	4.3	0
Dover sole	0	0	4.9	0	10.2	0	2.312	10.4	1.544	2.306	0	0
Rex sole	1.1	0.9	3.9	4	0.9	0.202	0	2.8	0	0	1.5	0
Rock sole species	0	0	0	0	0	0	11.4	0	1.71	1.488	0	226.8
Yellowfin sole	0	0	0	0	0	0	0	1.8	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0.8	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	4	52.2	7.808	6.976	0	0
Pacific ocean perch	0	0	0	0	28.5	0	0	0	0	0	0	0
Rougheye rockfish	3.5	0	0	0	0	1.632	6.9	0	0.092	0	0.406	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	0	0	0	0	0	0.246	0	0	0.032
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	6.3	0	33.3	0	0	0	0	0	0	0
Other rockfish	0	0	4.2	0	22.2	0	0	0	0	0	0	213.9
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	142.6
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0.552	0	48.664	0	40.4	0.632	20.632	5.392	0.064	0	0	11.712
Skates	139.08	79.464	0	149.6	0	0	69.2	0	43.2	45.2	0	51.2
Sharks	0	156.8	0	0	0	0	0	0	106.8	0	680	0
Tanner crabs	0	0	0	1.596	0	0	0.36	0	0.068	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	1.278	0.216	0	0.03	0.592	2.042	12.493	0.234	1.032	0.74	4.138	0
Sidestripe shrimp	7.508	4.164	0	2.4	0.094	2.4	1.21	0	0.26	0	0.574	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	1.538	6.275	0	3.77	0	2.99	0.34	0	0	0	0	0
Grand total	471.824	399.389	3364.898	478.834	602.303	266.8	514.382	684.82	714.823	284.978	848.282	730.727

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	121	122	123	124	125	126	127	128	129	130	131	132
Start date & time	06/21/96	06/21/96	06/22/96	06/22/96	06/22/96	06/25/96	06/25/96	06/26/96	06/26/96	06/26/96	06/25/96	06/27/96
Start latitude	5838.46	5840.15	5808.57	5806.64	5801.22	5742.07	5731.94	5726.06	5723.63	5659.38	5709.16	5708.00
Start longitude	15245.79	15226.43	15209.08	15204.83	15209.24	15218.67	15145.62	15143.88	15159.60	15224.75	15244.65	15322.88
End latitude	5839.14	5840.36	5808.99	5806.49	5801.68	5742.76	5731.55	5725.19	5722.84	5658.47	5709.29	5707.41
End longitude	15244.60	15227.75	15210.38	15203.38	15207.97	15217.89	15144.45	15143.82	15159.54	15225.10	15243.15	15323.89
Gear depth (m)	190	70	53	68	154	144	144	66	73	120	145	124
Duration (h)	0.28	0.28	0.27	0.28	0.28	0.28	0.27	0.29	0.29	0.31	0.27	0.28
Distance fished (nm)	1.78	1.48	1.53	1.47	1.52	1.52	1.40	1.64	1.49	1.75	1.55	1.51
Performance	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	15.2	0	2.5	1.5	85	12.7	0	0	0.38	2.2	848.8	136.1
Pacific cod	16	287.1	43.2	27.2	21.9	62.3	35	2912.47	21.6	160.4	39.5	86
Sablefish	2.6	0	0	0	0	0	0	0	0	0	0	4
Arrowtooth flounder	265.1	0	80.3	16.8	270.3	186.3	223	0	43.8	1307.02	726.7	352
Pacific halibut	10.2	116.227	41.5	31.3	81.2	136.5	14.3	2438.85	100.039	21.733	25.771	22.547
Flathead sole	15.9	0	0	5	104.7	332.5	93	0	0	41.1	138	397.6
Dover sole	0	0	0	0	11.1	0	0.6	0	0	0	3.1	0.43
Rex sole	0	0	0	0	0	0.08	6.6	0	0	1.05	2.77	1.5
Rock sole species	0	158.1	909.552	430.8	2.7	0	0	255.48	141.6	0	0	3.81
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	28.174	2	0	0	6	0	0.45	0	0	8.82
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	64.9	0	0	0	0	0	0	0	0	26.56
Pacific ocean perch	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	18.2	3.3	3.8	0	0	0	0	2.36
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0.798	0	0	0	0	0	11.1	0	0	0	0	0
Other rockfish	0.532	0	0	0	0	0	7.4	0	0	0	0	0
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	3.4	0	0	1.336	241.52	1.6	0	4.16	0	2.4	105.12
Skates	0	0	84.4	0	54.4	134.8	122.8	0	0	0	108	0
Sharks	0	0	0	0	0	57.2	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0.072	26.6	0.02	0	0	0	0	1.06
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0.038	0	0	0	14.366	14.61	0	0	0	0	0	2.378
Sidestripe shrimp	0.178	0	0	0	1.926	0	0	0	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0.042	0	0	0	0	0	0	0	0	0	0	0
Grand total	374.046	566.373	1256.07	525.874	668.888	1217.38	535.79	5640.1	318.659	1534.003	1905.191	1273.019

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	133	134	135	136	137	138	139	140	141	142	143	144
Start date & time	06/27/96	06/27/96	06/27/96	06/28/96	06/28/96	06/28/96	06/28/96	06/28/96	06/29/96	06/29/96	06/29/96	06/29/96
Start latitude	5652.41	5643.84	5638.72	5646.96	5641.52	5638.81	5645.16	5621.40	5610.21	5617.84	5612.91	5559.76
Start longitude	15312.94	15332.72	15402.69	15508.53	15500.45	15448.43	15459.93	15434.35	15439.40	15424.83	15418.27	15434.53
End latitude	5653.16	5644.07	5638.87	5647.71	5642.32	5639.10	5644.32	5620.78	5610.14	5618.27	5613.43	5559.92
End longitude	15312.50	15334.24	15404.25	15507.70	15500.16	15446.83	15500.20	15435.20	15440.97	15423.48	15416.99	15433.19
Gear depth (m)	167	156	36	86	45	27	55	38	100	87	131	415
Duration (h)	0.27	0.29	0.28	0.31	0.28	0.29	0.28	0.28	0.28	0.30	0.28	0.25
Distance fished (nm)	1.48	1.62	1.66	1.66	1.55	1.74	1.61	1.47	1.66	1.63	1.66	1.43
Performance	0	0	0	0	0	7	0	7	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	12.6	34.5	0	0	0	0	1.23	0	0	6.64	1.57	2.4
Pacific cod	23.9	52.2	0	39.8	0.85	0.24	0.58	0.04	4.2	89.9	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	132.4
Arrowtooth flounder	537.6	166.4	0	1451.95	0	0	6	0	6.62	140.9	448.4	16.9
Pacific halibut	0	7.921	179.904	234.737	205.539	0	23.785	50.387	148.214	39.723	38.602	11.65
Flathead sole	34	63.2	0	22.9	0	0	0	0	0	84.4	25.8	0
Dover sole	0	0	0	27.2	0	0	0	0	0	12	2.4	14
Rex sole	15.7	5.08	0	26.2	0	0	0	0	2.21	69.8	22	10.5
Rock sole species	0	0	5.76	8.4	35.7	0	35.28	2.28	0	186.9	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	1	0	0	0	0	0	0	0	3.14	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	14.84	0	0	0	0
Pacific ocean perch	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0	0	4.4
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	69.3
Northern rockfish	0	0	0	0	0	0	0	0	0.03	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	31.3
Dusky rockfish species	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	277.2	0	0	0	0
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	23.92	34.4	7.28	0.04	0.48	0	5	0	3.6	0	0
Skates	0	0	0	54.8	0	0	0	0	0	0	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0.22	0	0	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	1.2	0	0	0	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0	0	0	0	0	0.058
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0.414
Grand total	632.37	361.221	227.826	1873.627	265.501	6.912	77.349	378.241	161.698	651.233	539.072	293.432



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	145	146	147	148	149	150
Start date & time	06/29/96	06/29/96	06/30/96	06/30/96	06/30/96	06/30/96
Start latitude	5558.54	5604.04	5620.87	5612.79	5634.00	5642.65
Start longitude	15404.35	15347.38	15349.34	15324.27	15216.70	15239.82
End latitude	5558.41	5604.83	5621.19	5612.29	5634.17	5643.47
End longitude	15403.04	15348.29	15347.87	15325.54	15217.10	15239.43
Gear depth (m)	281	183	86	122	85	95
Duration (h)	0.26	0.29	0.29	0.28	0.13	0.28
Distance fished (nm)	1.40	1.74	1.73	1.67	0.55	1.58
Performance	0	0	0	0	7	0
Gear	172	172	172	172	172	172
Walleye pollock	1	0	0	0.4	0.03	3.73
Pacific cod	0	0	0	0	0	2.504
Sablefish	15.2	4.4	0	0	0	0
Arrowtooth flounder	20	96	0	25.8	0	12.7
Pacific halibut	0	11.001	749.554	240.131	0	27.617
Flathead sole	0	2.014	0	0	0	0
Dover sole	21.1	17	0	0	0	0
Rex sole	2.7	25.7	0	0	0	0
Rock sole species	0	0	14.1	6.03	0	49.2
Yellowfin sole	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0
English sole	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0
Pacific ocean perch	115.4	73.9	0	0	0	0.082
Rougheye rockfish	5.9	0	0	0	0	0
Shortspine thornyhead	83.2	1.534	0	0	0	0
Northern rockfish	0	5.482	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0
Dusky rockfish species	8.4	0	0	0	0	0
Other rockfish	5.6	4.912	0	0	0.856	0
Atka Mackerel	0	0	0	0	0	0
Lingcod	0	0	0	0	11.3	0
Sculpins	9.88	0	0	0	0	0
Skates	0	0	0	0	0	0
Sharks	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0
King crabs	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0
Sidestripe shrimp	0.05	0	0	0	0	0
Scallops	0	0	0	0	0	0
Red squid	0	0	0	0	0	0
Grand total	288.45	242.005	763.944	287.957	36.818	98.621

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	151	152	153	154	155	156	157	158	159	160	161	162
Start date & time	07/01/96	07/01/96	07/01/96	07/01/96	07/01/96	07/01/96	07/02/96	07/02/96	07/02/96	07/03/96	07/03/96	07/03/96
Start latitude	5703.40	5701.32	5701.29	5719.80	5733.34	5753.26	5758.00	5803.41	5809.17	5806.56	5818.59	5813.60
Start longitude	15133.50	15132.65	15126.73	15053.11	15047.00	15124.59	15231.39	15204.57	15200.49	15149.69	15113.76	15105.47
End latitude	5704.01	5702.07	5702.11	5720.68	5734.15	5752.38	5757.49	5803.03	5809.87	5806.12	5818.59	5813.02
End longitude	15134.22	15132.65	15125.99	15053.24	15047.01	15124.63	15232.20	15206.04	15200.17	15151.62	15112.23	15104.64
Gear depth (m)	135	133	371	113	96	64	101	152	67	85	85	137
Duration (h)	0.28	0.28	0.29	0.28	0.27	0.28	0.33	0.28	0.28	0.30	0.30	0.28
Distance fished (nm)	1.35	1.40	1.72	1.67	1.55	1.66	1.28	1.62	1.37	2.08	1.52	1.35
Performance	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.046	0	2.2	0.09	1.24	0.3	1117.1	0	1.334	0	0.44	0
Pacific cod	2.6	0	0	1.5	4.55	108.7	22.7	0	12.176	3.6	0	68.1
Sablefish	0	0	58.4	0	0	0	0	0	0	0	0	66.8
Arrowtooth flounder	419.1	11.02	30.2	16.2	4.03	0	299.6	195.2	5.3	211.7	2.05	1939.1
Pacific halibut	31.054	17.294	0	92.625	40.39	66.919	113.603	61.6	34.701	23.697	85.61	6.284
Flathead sole	13.76	1.07	0	0	0	0	128.8	100.9	0	13.38	0	27.9
Dover sole	0	0	47.1	0	0	0	0	6.226	0	0.23	0	33.2
Rex sole	7.5	0	1.02	0	0.03	0	8.8	0.8	0	0.47	0	8.5
Rock sole species	16.2	30.9	0	119.1	101.976	114.84	0	4.278	690.3	351.6	91.2	7.59
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	3.412	4.66	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	5.2	0	0	10.6	0	1.12
Pacific ocean perch	0	0	0	0.42	0	0	0	0	0	0	0	0.83
Rougheye rockfish	0	0	82	0	0	0	29.8	0	0	0	0	0
Shortspine thornyhead	0	0	32.2	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	238.4	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	18.7	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	60.3	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	41.16	0	0	0	0	0	0	0	277.62
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	185.08
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	0	2.28	2.52	2.952	0.52	2.92	0.8	0	0	0
Skates	0	25.6	0	0	0	247.2	75	62	226.4	0	0	24
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0.324	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0.35	5.718	0	0	0	0.046
Sidestripe shrimp	0	0	0.07	0	0	0	0	0.144	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	5.2	1.3	0	0.12	0	0	0	0	0	0
Grand total	497.642	91.584	277.17	590.515	179.862	553.117	1812.773	461.16	976.477	623.917	189.933	2647.53

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	163	164	165	166	167	168	169	170	171	172	173	174
Start date & time	07/03/96	07/04/96	07/04/96	07/04/96	07/04/96	07/04/96	07/04/96	07/05/96	07/05/96	07/05/96	07/05/96	07/05/96
Start latitude	5756.47	5717.67	5716.94	5720.54	5734.31	5734.87	5740.49	5738.40	5755.11	5805.66	5801.89	5805.89
Start longitude	15139.29	15050.10	15050.74	15035.84	15012.49	15002.93	15011.08	14955.82	14932.05	14935.09	14954.78	14958.67
End latitude	5756.14	5716.87	5717.64	5720.97	5734.91	5735.65	5739.96	5738.61	5754.46	5805.55	5801.64	5805.94
End longitude	15140.70	15050.63	15049.87	15034.57	15011.21	15002.06	15012.39	14954.71	14933.16	14933.74	14954.53	15000.33
Gear depth (m)	83	121	122	427	280	473	190	366	141	240	263	290
Duration (h)	0.29	0.27	0.27	0.27	0.28	0.32	0.27	0.26	0.27	0.28	0.18	0.27
Distance fished (nm)	1.53	1.59	1.56	1.54	1.71	1.78	1.64	1.24	1.66	1.36	0.57	1.65
Performance	0	8	0	0	0	0	0	0	0	0	6	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0	0.21	1.7	2.27	2.05	1.5	1.22	0.23	0	7.3	9.1	7.2
Pacific cod	19.7	0	0	0	0	0	50.4	0	0	0	2.8	0
Sablefish	0	0	0	63.1	19.3	166.3	191.4	45	0	71.4	151.6	89.5
Arrowtooth flounder	641.7	2.222	0.754	0.86	24.79	0	15.2	5.6	0.354	58.85	35.3	59.2
Pacific halibut	21.777	9.2	66.127	3.565	0	0	6.8	0	45.367	0	28.691	26.362
Flathead sole	2.514	0	0	0	3.8	0	0.67	0	0	21.75	0.624	10
Dover sole	0	0	0	45.7	19	27	2.14	23.1	1.338	17.4	36.8	20.1
Rex sole	0	0	0	0.95	6.7	2.98	15.1	15.2	0	54.3	9	56.2
Rock sole species	77.88	7.824	9.738	0	0	0	0	0	29.1	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	13.5	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	18.944	0	0	0	1.64	0	0	0	0	0	0	0
Pacific ocean perch	0	0.038	0.002	0	2.6	0.58	2130.5	0	0	0.222	28.7	2.728
Rougheye rockfish	0	0	0	0	2.95	0	0	18.1	0	0.09	4.7	1.784
Shortspine thornyhead	0	0	0	34.4	34.2	23.5	1.02	36.8	0.282	0.6	16.5	23.5
Northern rockfish	0	0	0	0	0	0	0	0	14.1	4.64	0	0
Shortraker rockfish	0	0	0	8.7	7.2	1.78	0	5.7	0	0	0	0
Dusky rockfish species	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	12.24	0	0
Atka Mackerel	0	0	0	0	0	0	2.88	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	1.96	0	0	0.096	0.84	0	37.24	30	0.072	0	20.008	0
Skates	0	0	0	9.208	0	0	0	0	0	5	10.6	7.104
Sharks	0	0	0	0	0	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0.76	0	0.178
Sidestripe shrimp	0	0	0	0	0.326	0	0	0	0	1.092	0	1.274
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	7.29	2.42	0	4.33	1.17	0	0.062	2.214
Grand total	798.975	23.038	80.975	384.329	133.712	277.142	2456.03	185.834	97.619	256.58	363.425	328.324

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	175	176	177	178	179	180	181	182	183	184	185	186
Start date & time	07/06/96	07/06/96	07/06/96	07/06/96	07/06/96	07/06/96	07/07/96	07/07/96	07/07/96	07/07/96	07/08/96	07/08/96
Start latitude	5753.86	5759.37	5758.62	5801.83	5804.90	5804.57	5824.72	5828.76	5843.25	5854.28	5912.38	5912.75
Start longitude	15016.51	15030.73	15036.07	15020.91	15030.04	15037.64	15009.24	15008.24	15053.99	15036.29	15027.46	15001.33
End latitude	5753.06	5758.42	5759.40	5801.05	5804.73	5804.59	5825.31	5829.57	5842.86	5854.51	5912.74	5912.73
End longitude	15015.76	15030.15	15036.26	15021.46	15031.70	15036.28	15010.11	15008.45	15055.52	15034.95	15026.12	14959.67
Gear depth (m)	171	156	141	182	182	140	76	91	180	129	137	159
Duration (h)	0.29	0.30	0.28	0.28	0.28	0.27	0.28	0.27	0.26	0.28	0.28	0.28
Distance fished (nm)	1.68	1.85	1.49	1.57	1.69	1.35	1.41	1.53	1.67	1.38	1.46	1.61
Performance	0	0	0	0	0	0	0	0	0	2	2	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0	0	0	81.1	19	0	0	0.064	11.5	0.152	2.88	0.12
Pacific cod	8.4	52.9	31.1	58.3	0	156.7	0	4.9	32.3	12.7	40.9	2.97
Sablefish	32.3	8.8	7.6	21.7	8.6	250.7	0	0	75.3	5.5	3.68	10.074
Arrowtooth flounder	301.3	651.9	321.6	107.9	467	418.1	0	1.9	60	157.4	382.4	294.4
Pacific halibut	19.724	85.947	40.266	16.444	0	237.235	91.545	83.94	5.333	2.251	1.233	2.784
Flathead sole	11.3	23.43	7.13	2.19	141.6	16.4	0	0	0	0	0	1.23
Dover sole	3.6	17.7	82.7	7.3	6.98	27.3	0	0	8.5	1.61	25	6.59
Rex sole	10.5	29.4	35.7	16.6	32.72	38	0	0	11.8	1.78	15.6	0.93
Rock sole species	1.2	0	4.29	0	0	0	22.5	14.394	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0
Pacific ocean perch	0	0	0	11.3	11	1928.1	0	0.686	0.062	0	1.29	0
Rougheye rockfish	0	0	0	0.62	0	40.3	0	0	0.372	0	0	3.76
Shortspine thornyhead	0.45	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	0	0	344.8	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	0	0	7210.65	0	0	0	0	0	0
Other rockfish	0	1.68	0	0	0	5597.9	0	0.808	0	0	0	1.2
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	0.568	25.6	0.08	13.68	0	0.232	16	0.024	0.68	0
Skates	0	0	0	0	0	9.696	28	32.4	51.2	0	0.096	0
Sharks	0	0	0	0	0	0	0	0	0	8.872	0	0
Tanner crabs	0.048	0	0.064	0	0	0	0	0	0.036	0	0	0.196
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0.13	0	0	0	0.206	0	1.816	0.91
Sidestripe shrimp	0	0	0	0	0	0	0	0	0.36	0	0	0.088
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	390.254	873.773	534.1	350.24	691.32	16355.361	149.645	188.494	278.449	195.495	502.51	482.886

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	187	188	189	190	191	192	193	194	195	196	197	198
Start date & time	07/08/96	07/08/96	07/07/96	07/08/96	07/08/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/10/96	07/10/96
Start latitude	5901.94	5900.71	5850.33	5841.03	5831.85	5807.79	5814.66	5820.05	5846.18	5845.85	5845.61	5905.48
Start longitude	14952.39	14946.71	14936.71	14946.20	14937.42	14853.23	14845.23	14859.23	14835.58	14856.46	14917.96	14858.05
End latitude	5901.43	5901.29	5849.51	5841.13	5831.52	5806.91	5815.28	5820.50	5845.42	5845.76	5845.63	5905.35
End longitude	14952.06	14945.41	14936.32	14944.62	14935.80	14853.27	14843.94	14900.49	14835.62	14854.73	14916.45	14856.49
Gear depth (m)	217	229	227	163	142	131	276	130	273	240	178	140
Duration (h)	0.17	0.28	0.28	0.27	0.27	0.28	0.31	0.27	0.27	0.30	0.30	0.27
Distance fished (nm)	1.03	1.66	1.58	1.56	1.70	1.65	1.72	1.50	1.43	1.73	1.49	1.52
Performance	6	0	0	0	0	2	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	1.246	7.74	71.8	0	0	0.354	27.8	0.34	5.13	3.394	1.45	0
Pacific cod	0	0	2.38	3.342	8.65	0.676	0	47.9	0	2.71	9.62	267.3
Sablefish	74.728	66.2	52.6	3.312	0	0	243.4	0	176.4	31.19	45.2	7.74
Arrowtooth flounder	124.4	84.5	144.9	128.83	81.5	12.5	75.5	58.8	27.1	38.8	191.7	131.8
Pacific halibut	0	22.5	0	11.623	0	91.7	44.299	32.225	36.751	11.269	0	7.405
Flathead sole	3.504	1.186	20.4	15.8	6.24	0	0	0	1.08	0	12.4	0
Dover sole	3.596	8.22	7.25	32.2	41	0	29.6	0	32.1	45.7	39.3	5.75
Rex sole	2.032	3.326	10.165	35.47	36.7	0	1.84	2.95	10.74	11.1	29.7	24.9
Rock sole species	0	0	0	0	0	21.63	0	25.26	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0
Pacific ocean perch	4.772	4.49	0.658	373.4	0	2.406	153.8	0	1.43	13.6	422.12	3995.6
Rougheye rockfish	8.59	2.1	63.5	0	0	0	55.24	0	6.8	5.9	11.14	0
Shortspine thornyhead	8.42	8.9	17.2	0	0	0	120.4	0	55.6	58.3	0	0
Northern rockfish	0	0	0	0	0	0	1.9	0	0	0	0	2.6
Shorthead rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	3.57	0	0	0	3.54	0	0	0	10.8
Other rockfish	0	0	0	5.244	0	39.072	6.816	2.36	0	0	12.92	7.76
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	2.842	0	0	0	0	0	0
Sculpins	0	0	0	0	0	0	4.92	0	1.136	0	0	30.48
Skates	0	0	90.368	52.08	0	0	0	0	0	27.816	32.64	0
Sharks	0	0	0	9.72	0	0	0	0	0	7.312	0	37.024
Tanner crabs	0	0	0	0	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	1.708	1.234	0.042	1.468	0.026	0	0	0	0	0	0.346	0
Sidestripe shrimp	1.018	2.58	2.158	0	0	0	0.284	0	0.052	0.588	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0.42	0.042	0	0
Grand total	301.674	223.769	548.859	687.11	174.276	180.951	767.079	173.581	368.44	273.813	844.996	4533.649

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	199	200	201	202	203	204	205	206	207	208	209	210
Start date & time	07/10/96	07/10/96	07/10/96	07/10/96	07/11/96	07/11/96	07/11/96	07/13/96	07/14/96	07/14/96	07/14/96	07/14/96
Start latitude	5912.34	5914.13	5914.59	5930.96	5948.96	5953.79	6003.57	6006.78	5915.25	5908.79	5857.95	5853.33
Start longitude	14846.60	14820.05	14834.18	14835.53	14704.95	14643.57	14634.00	14642.44	14748.22	14746.87	14810.49	14808.06
End latitude	5912.48	5914.37	5914.03	5930.95	5949.78	5953.05	6004.16	6006.77	5915.45	5908.40	5858.32	5853.86
End longitude	14844.97	14820.15	14833.08	14833.82	14704.79	14643.64	14632.77	14640.84	14746.27	14745.35	14811.98	14806.53
Gear depth (m)	153	112	112	96	207	66	115	111	191	207	251	412
Duration (h)	0.28	0.09	0.29	0.28	0.28	0.28	0.28	0.29	0.33	0.28	0.29	0.31
Distance fished (nm)	1.59	0.48	1.51	1.64	1.56	1.39	1.62	1.55	1.90	1.64	1.59	1.77
Performance	0	7	0	0	0	2	0	0	0	0	0	2
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0	0.87	0.02	0.842	4.846	0	4.65	18.8	33.8	1.102	85	0
Pacific cod	16.3	0	78.4	16.8	0	0	0	4.2	6.3	12.4	9.4	0
Sablefish	2.83	0	0	0	17.8	0	8.78	7.5	8.4	132.9	65.8	63
Arrowtooth flounder	183.7	1.15	118	43.2	18.7	0	152.2	211.6	17.2	42.2	63	16.6
Pacific halibut	0	0	5.561	16.686	0	47.389	0	12.039	24.324	33.685	32.464	17.956
Flathead sole	5.94	0	0	0	2.224	0	9.2	11.5	5.3	0	0	0
Dover sole	21	0	1.03	0	8.464	0	19.8	29.6	11.48	20.2	2.25	19.8
Rex sole	39.1	0.242	6.76	0.024	2.576	0	7.49	13.6	3.04	23.4	0	2.406
Rock sole species	0	0	0	4.092	0	15.234	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	3.104	0	0	0	0
Pacific ocean perch	0.9	0.06	0	0.77	0	0	0	0	6	77.56	9196.032	6.4
Rougheye rockfish	0.29	0	0	0	9.8	0	0	1.044	14.6	3.082	0.798	42.5
Shortspine thornyhead	0	0	0	0	14.6	0	0	0	5.6	0.168	0.63	82.1
Northern rockfish	58.5	16.7	0	2.742	0	0	0	0	0	0	6.7	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	1.06
Dusky rockfish species	59.4	26.7	0	0	0	0	0	0	0	0	110.1	0
Other rockfish	42.896	61.6	0	82.8	0	0	2.624	0	0	4.248	83.128	0
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	1.234	0
Lingcod	0	0	0	8.57	0	12.6	20.4	8.1	0	0	0	0
Sculpins	0	0	0	0.048	0.136	0	0.496	0	0	0	1.432	10.92
Skates	48.8	59.6	0	0	128.408	0	69.32	114.4	8.4	0	0	0
Sharks	5.28	0	32.4	0	19.2	8.104	43.6	16	0	0	0	226.4
Tanner crabs	0	0	0	0	0	0	0.08	0.084	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	4.4
Northern pink shrimp	0	0	0	0	0.044	0	0.322	3.906	1.02	0.968	0	0
Sidestripe shrimp	0	0	0	0	1.366	0	0	0.1	0.898	0.102	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0.12	0	0	1.362
Grand total	489.936	167.322	242.767	190.028	233.037	90.829	378.684	467.449	149.645	363.454	9658.04	501.122

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	211	212	213	215	216	217	218	219	220	221	222	222
Start date & time	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/17/96	07/17/96
Start latitude	5950.17	5949.93	5934.56	5936.73	5923.81	5945.99	5951.81	6011.14	5955.81	5934.10	5930.27	5930.27
Start longitude	14851.85	14831.89	14727.06	14702.57	14648.40	14617.91	14611.38	14557.68	14522.32	14522.69	14513.57	14513.57
End latitude	5950.88	5950.27	5934.42	5936.72	5923.04	5946.62	5952.70	6010.58	5956.63	5934.59	5930.33	5930.33
End longitude	14850.94	14830.40	14725.25	14700.89	14647.87	14619.24	14612.10	14556.15	14522.78	14524.02	14515.16	14515.16
Gear depth (m)	173	137	131	208	153	77	82	109	96	126	135	135
Duration (h)	0.27	0.28	0.28	0.28	0.26	0.30	0.28	0.29	0.28	0.27	0.28	0.28
Distance fished (nm)	1.58	1.55	1.74	1.59	1.53	1.73	1.81	1.77	1.61	1.58	1.52	1.52
Performance	0	0	0	0	0	7	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	52.1	6.4	0.196	10.4	0.032	0	42.148	89	0.066	0.912	0	0
Pacific cod	2.9	3.4	0	0	0	1.432	8.6	3.3	0	0	0	0
Sablefish	5.6	3	0	439.1	0	0	0.238	0.772	2.6	2.268	0	0
Arrowtooth flounder	77.2	323.1	124.84	13.514	3.992	0.082	99.4	72.5	86.5	194.4	19.6	19.6
Pacific halibut	0	0	2.929	0	0	47.034	7.148	0	0	8.22	53.792	53.792
Flathead sole	28.2	16.8	8.584	0.448	0	0	3.3	3.988	10.5	17.6	0	0
Dover sole	10.5	4.2	15.3	12.7	0	0.278	0.64	20.1	2.728	18.4	4.202	4.202
Rex sole	3.4	0.172	2.6	0	0	0.106	3.06	5.302	1.9	10.9	0.23	0.23
Rock sole species	0	0	0	0	0	90.3	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0.28	3.684	0	0	0	0	0
Pacific ocean perch	0	0	0	0	0	0	0	0	0	0.072	0	0
Rougheye rockfish	3.994	14.1	2.1	25.2	0	0	0	0.216	0	0	1.8	1.8
Shortspine thomyhead	0	0	0	12.6	0.956	0	0	0	0	1.148	0	0
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	2.906	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	0	0	0	0	0	0	0	1049.7	1049.7
Other rockfish	0	0	0	0	0	0	0	0	0	0	0.02	748.6
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	18.6	0	0	0	20.1	20.1
Sculpins	0.592	0.504	0.976	0.048	0.912	0	0	1.816	0	0	0	0
Skates	28.8	48.4	48.8	7.504	0	0	0	174	0	67.4	0	0
Sharks	0	24	0	23.2	0	0	0	5.6	0	0	0	0
Tanner crabs	0.236	0.272	0.188	0.016	0	0.06	0	0.064	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	3.488	3.178	2.672	0.172	1.178	0	0	8.036	0.064	0.694	0.088	0.088
Sidestripe shrimp	1.47	0.382	0	2.24	0.95	0	0	0.012	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	227.03	478.484	217.859	573.314	14.674	141.733	217.498	399.899	109.524	344.001	1914.426	1914.426

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	223	224	225	226	227	228	229	230	231	232	233	234
Start date & time	07/17/96	07/17/96	07/17/96	07/18/96	07/18/96	07/18/96	07/18/96	07/19/96	07/19/96	07/19/96	07/19/96	07/19/96
Start latitude	5936.91	5942.86	5950.56	5947.07	5926.81	5938.54	5932.57	5952.84	5949.73	5937.95	5949.98	5924.86
Start longitude	14421.17	14433.71	14357.52	13949.43	14029.09	14109.29	14130.85	14340.92	14335.22	14301.00	14245.96	14213.48
End latitude	5937.40	5942.98	5949.95	5946.73	5926.90	5938.63	5932.44	5953.82	5948.97	5938.56	5950.11	5924.34
End longitude	14419.60	14431.85	14358.61	13951.17	14030.74	14111.04	14129.01	14340.97	14335.58	14259.73	14244.26	14212.14
Gear depth (m)	252	137	99	45	226	76	70	257	288	227	189	237
Duration (h)	0.27	0.29	0.28	0.29	0.27	0.28	0.30	0.33	0.28	0.29	0.28	0.29
Distance fished (nm)	1.76	1.81	1.54	1.76	1.60	1.67	1.78	1.83	1.51	1.66	1.61	1.60
Performance	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	4.8	0	0.708	1.588	26.338	5.916	1.552	12.1	6.7	0.446	6.88	0.776
Pacific cod	0	4.1	4.2	0	0	0	0	0	0	4.3	0	4.2
Sablefish	13.9	3	7.1	0.39	7.3	2.452	0	39.7	7.9	4.8	0	0
Arrowtooth flounder	11.9	107.144	115.2	5.4	60.5	106.2	127.1	20.6	19.9	13	26.25	19
Pacific halibut	0	22.134	13.147	29.806	12.438	0	0	20.118	0	10.534	0	23.1
Flathead sole	0	10.2	6.7	5	0.552	30.6	20.326	7.8	2.914	0	0.006	0
Dover sole	22.2	9.5	2.68	0	18.1	21.492	9.9	32.9	3.9	17.5	51.94	37.5
Rex sole	3.494	3.6	0.854	0	0.682	2.51	1.266	13.618	31.7	4.36	0	10.4
Rock sole species	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	1	0	0	116.8	0	1.244	0	0	0	0.744	0.448	0
Pacific ocean perch	75.016	0	0	0	95.564	0	0	0	0.586	250.6	0.1	245.516
Rougheye rockfish	13.4	0	0	0	3.188	0	0	0	7.7	0.536	38.8	0.208
Shortspine thomyhead	56.984	0	0	0	39.7	0	0	43.678	43.1	11.8	11.67	44.304
Northern rockfish	2.196	0	0	0	0	0	0	0	0	4	0	1.366
Shortraker rockfish	0	0	0	0	0	0	0	15.5	37.8	0	0	0
Dusky rockfish species	0	0	0	0	5.178	0	0	0	0	15.024	0	0
Other rockfish	10.832	0	0	0	83.1	0	0	0	0	742.248	0	294.392
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	15.9	7.6	0	8.11	0	0	0	0	0	0	4.396
Sculpins	25.2	0	0	0.68	0.12	0	0	0	0	0.656	0	32.272
Skates	3.552	3.48	0.72	140.8	41.024	0	0.192	2.736	63.728	0.076	0	3.48
Sharks	0	0	0	32.4	0	8.8	0	0	0	0	0	0
Tanner crabs	0	0.016	0	0	0.112	0	0.012	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0.112	0	13.752	0.45	0	0.02	0.044	0.004	0.014	0.224	0
Sidestripe shrimp	2.292	0.03	0	1.876	0.468	0	0.022	0.978	1.03	0.018	0.368	0.092
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0.588	0	0	0	2.382	0	0	0
Grand total	261.224	185.636	188.13	379.82	421.392	196.974	169.066	312.495	266.904	1092.138	140.166	726.092



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	235	236	237	237	238	239	240	241	242	243	244	245
Start date & time	07/20/96	07/20/96	07/20/96	07/20/96	07/20/96	07/21/96	07/21/96	07/21/96	07/21/96	07/21/96	07/22/96	07/22/96
Start latitude	5950.58	5855.96	5852.60	5852.60	5836.61	5836.70	5821.89	5838.40	5900.25	5903.34	5901.04	5851.74
Start longitude	14156.07	14054.84	14049.84	14049.84	14003.53	14002.63	13924.53	13915.27	13921.69	13852.52	13843.21	13758.70
End latitude	5950.14	5855.96	5851.85	5851.85	5837.47	5835.94	5821.37	5837.96	5859.75	5903.64	5900.54	5850.96
End longitude	14154.48	14055.04	14049.12	14049.12	14003.26	14001.78	13923.32	13916.81	13920.30	13850.96	13841.90	13758.38
Gear depth (m)	65	198	194	194	221	213	236	246	113	90	157	20
Duration (h)	0.31	0.06	0.28	0.28	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.27
Distance fished (nm)	1.71	0.20	1.57	1.57	1.65	1.65	1.55	1.72	1.63	1.59	1.59	1.52
Performance	0	6	0	0	7	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	3.868	3.084	5.457	5.457	35	17.5	38.4	2.722	0	4.7	0.15	3.2
Pacific cod	5.5	0	3.5	3.5	0	4.8	5.6	0	0	0.19	0	9.7
Sablefish	4.178	2.05	2.559	2.559	13.2	18.8	0	36.9	0	0.682	0	0
Arrowtooth flounder	62.674	38.2	177.2	177.2	13.7	138.3	14.1	173.6	110.888	264.6	613.5	2.534
Pacific halibut	8.893	6.317	44	44	20.4	39.5	8.841	0	0	2.6	0	4.897
Flathead sole	15.852	0	0	0	0	0	0.53	2.23	1.442	9.5	5.8	0
Dover sole	4.018	0	0.721	0.721	1.3	12.66	6.1	31.4	0.148	25.9	58.3	0
Rex sole	1.84	0.438	3.282	3.282	1.25	6.04	2.014	19.828	0	0.776	1.218	0
Rock sole species	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	2.298
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	12.862	0.204	0	0	0.624	0.296	5.056	2.112	0	0	0	12.928
Pacific ocean perch	0	7.12	18.13	18.13	56.1	7	46.8	10.3	0	0	0	0
Rougheye rockfish	0	0.702	3.468	3.468	0.202	0.086	0	0.142	0.098	0.2	0.152	0
Shortspine thornyhead	0	0	0.054	0.054	0.556	0.26	2.382	16.75	0	0	3.166	0
Northern rockfish	0	0	1.101	1.101	0	0	0	0	0	0	0	0
Shorthead rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	228	228	0	0	0	0	0	0	0	0
Other rockfish	0	102.808	0.009	883.116	62.616	54.12	107.568	3.352	0	0	0	428
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	9	9	8	5.932	0	6.965	0	0	0	9.974
Sculpins	0	0.584	1.296	1.296	0.448	2.104	0.728	0	0.992	0.408	0.192	0
Skates	0	0	0.3	0.3	0.392	36.048	0	2.856	0	27.4	25.6	27.2
Sharks	0	0	0	0	0	0	0	0	0	21.2	15.6	39.28
Tanner crabs	0	0	0	0	0	0	0	0	0	0.012	0.016	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0.08	0.025	0.025	0.018	0	0.042	2.336	3.966	0	1.542	0
Sidestripe shrimp	0	0	0	0	0	0	0	0.34	0.014	0	0.39	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	132.937	194.127	1398.055	1398.055	218.15	354.28	246.871	328.839	119.08	379.455	730.126	546.767

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	246	247	248	249	250	251	252	253	255	256	257	258
Start date & time	07/22/96	07/22/96	07/22/96	07/23/96	07/23/96	07/24/96	07/25/96	07/25/96	07/25/96	07/26/96	07/26/96	07/26/96
Start latitude	5834.94	5831.24	5814.03	5818.85	5800.37	5750.36	5642.87	5639.76	5603.25	5610.88	5610.74	5608.32
Start longitude	13842.02	13821.02	13843.01	13648.21	13712.00	13707.10	13557.82	13541.62	13523.89	13453.70	13457.08	13508.86
End latitude	5835.08	5831.05	5814.03	5818.08	5801.10	5750.43	5642.02	5640.57	5604.02	5610.90	5610.79	5608.64
End longitude	13840.33	13822.58	13843.80	13648.77	13710.99	13708.83	13557.24	13542.26	13524.47	13455.29	13458.68	13509.89
Gear depth (m)	99	118	168	77	182	413	257	173	318	175	184	291
Duration (h)	0.29	0.28	0.14	0.29	0.31	0.30	0.32	0.30	0.30	0.30	0.29	0.22
Distance fished (nm)	1.69	1.58	0.78	1.55	1.71	1.72	1.70	1.67	1.57	1.66	1.68	1.24
Performance	0	0	1	0	0	0	1	0	0	0	0	2
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0	0.042	3.966	40.4	2.244	0	8.3	11.7	0	5.388	11.4	20.2
Pacific cod	0	0	0	33.3	13.5	0	2.074	14.2	0	14.2	0	0
Sablefish	0	0	0	1.782	19.7	148.6	3.6	20	99.3	6.4	9.5	16.3
Arrowtooth flounder	0	1.726	61.412	57.4	159.2	4.6	12.5	156.62	358.9	272.118	142.9	20.1
Pacific halibut	9.922	50.062	20.32	0.692	0	0	0	50.528	0	38.954	24.971	0
Flathead sole	0	0	0	33.1	0	0	0	0.498	0	0	0	0
Dover sole	0	0	1.05	39.712	1.312	96.4	1.454	3.6	35.546	1.122	9.532	37.792
Rex sole	0	0	13.51	12.25	0	5.2	2.09	77.88	2.34	15.1	27.3	16.108
Rock sole species	2.748	43.188	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	71.288	0	0	0	7.608	2.792	0	0	0
Pacific ocean perch	0	0	0.04	0	1049.174	0.682	677.648	25.4	3750.672	33.678	2981.374	119.19
Rougheye rockfish	0	0	0	1.784	0	6	2.01	0	94.746	0	0	4.944
Shortspine thornyhead	0	0	0	0	1.176	26.1	82.7	0	147.268	0	0	37
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	54.2	172	0	4.2	0	0	0
Dusky rockfish species	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	9.528	4.384	425.736	0	263.608	0	20.128	38.76	81.984	15.032
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	11.27	14.139	0	46.65	0	0	0	0	13.678	24.2	0
Sculpins	0	0	0	2.984	0	0	1.632	0	8.216	0.168	0	0
Skates	0	0	0	28.4	60.192	29.32	0.36	33.6	14	0	0	0
Sharks	0	0	0	0	5.152	0	0	44.4	0	6.8	0	5.976
Tanner crabs	0	0	0	0	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0.534	9.832	0.04	0	0	0.054	0	0	0	0
Sidestripe shrimp	0	0	0	0	0.034	0	0	0	0	0	0	0.026
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	2.084	0.252	0	0.502	0	0	1.668
Grand total	16.348	113.12	129.573	354.032	1794.416	411.774	1239.524	448.006	4540.252	454.278	3317.861	298.084

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

Haul number	259	260	261	262	263	264	265	266	267	268	268	269
Start date & time	07/26/96	07/26/96	07/27/96	07/27/96	07/27/96	07/27/96	07/28/96	07/28/96	07/28/96	07/28/96	07/28/96	07/28/96
Start latitude	5555.52	5555.97	5555.89	5554.10	5540.26	5526.18	5536.28	5522.82	5516.21	5516.81	5516.81	5524.21
Start longitude	13523.31	13525.50	13452.44	13433.43	13433.28	13446.77	13349.63	13353.60	13358.30	13425.50	13425.50	13426.24
End latitude	5555.18	5555.28	5555.64	5553.30	5539.38	5526.19	5535.71	5523.63	5515.37	5516.92	5516.92	5523.35
End longitude	13522.99	13524.55	13453.77	13433.44	13433.61	13448.26	13349.83	13354.46	13357.70	13424.00	13424.00	13426.24
Gear depth (m)	275	369	180	85	206	267	112	104	124	201	201	189
Duration (h)	0.13	0.32	0.28	0.29	0.29	0.27	0.21	0.30	0.29	0.28	0.28	0.28
Distance fished (nm)	0.71	1.65	1.48	1.52	1.68	1.59	1.13	1.76	1.70	1.62	1.62	1.62
Performance	2	0	0	0	0	0	0	0	0	2	2	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	3.8	0	0	0	0	68.674	0	0	0	0.564	0.564	0.426
Pacific cod	0	0	0	0	11.9	3.6	0.152	0	0	2	2	2.1
Sablefish	3.5	0	0	0	6.7	7.84	0	0	0	3.3	3.3	0
Arrowtooth flounder	0	4.6	13.886	0	91.142	40.8	1.584	0.282	1.226	7.956	7.956	3.9
Pacific halibut	0	0	95.5	60.6	18.474	13.65	113.192	190.088	44.466	23.976	23.976	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0	0
Dover sole	0.834	51.9	2.774	0	6.69	9.8	0	0	0	0.466	0.466	2.64
Rex sole	1.444	4.304	3.31	0	9.9	20.5	0.264	0.516	1.54	0.052	0.052	5.698
Rock sole species	0	0	0	7.152	0	0	7.8	7.218	29.4	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0.424	0	0.408	12.832	14.512	66.528	5.2	30.528	0.216	0.216	0.728
Pacific ocean perch	321.79	38.922	105.744	0	0.042	4077.695	0	0	0	0	0	0.902
Rougheye rockfish	0.556	254.736	0	0	0	0	0	0	0	0	0	0
Shortspine thornyhead	26.074	46.1	0	0	0	0.172	0	0	0	0.372	0.372	0.134
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Dusky rockfish species	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	215.072	6.2	26.392	13.44	0	977.088	0	0	0	0.032	7823.376	156.552
Atka Mackerel	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	1.6	0	21.19	0	54.097	20.5	20.5	5.012
Sculpins	0.312	0.24	0	0	0	0	0	0	0	0.288	0.288	0.76
Skates	0	0.024	0	0	26	0	0	0	0	0	0	0
Sharks	0	0	0	0	4.208	0	0	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0.06	0	0	0	0.098	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0	0	0	0	0	0
Scallops	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0.48	0.834	0	0	0	0	0	0	0	0	0	0
Grand total	584.034	412.565	250.296	178.273	192.91	5240.98	233.398	213.18	180.625	7887.56	7887.56	186.318

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Dominator

	270	271	272	273	274	275	276	277
Haul number	270	271	272	273	274	275	276	277
Start date & time	07/29/96	07/29/96	07/29/96	07/29/96	07/29/96	07/30/96	07/30/96	07/30/96
Start latitude	5520.73	5509.35	5511.17	5452.17	5455.52	5442.61	5432.80	5436.82
Start longitude	13411.26	13358.94	13344.12	13324.24	13338.86	13359.99	13357.86	13254.11
End latitude	5521.43	5508.44	5510.65	5451.97	5454.93	5442.37	5432.46	5437.17
End longitude	13412.38	13358.61	13345.30	13325.57	13338.74	13358.60	13356.58	13255.51
Gear depth (m)	164	154	151	144	109	210	220	365
Duration (h)	0.29	0.29	0.29	0.30	0.23	0.28	0.29	0.32
Distance fished (nm)	1.77	1.74	1.60	1.52	1.13	1.58	1.52	1.68
Performance	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172
Walleye pollock	27.8	2.272	239.3	1.482	33.8	27.2	4	6.2
Pacific cod	18.7	81.9	3.7	4.8	0.87	5	2.9	0
Sablefish	4	0.42	1.824	16.1	0	11.5	5.2	83.9
Arrowtooth flounder	177.54	289.388	118.254	273.968	7.515	4.001	2.738	0.936
Pacific halibut	12.901	89.94	0	3.398	23.401	0	0	0
Flathead sole	0	0	0.46	0.404	0	0	0	0
Dover sole	6.216	0	3.564	0.346	0	2.272	1.154	65.014
Rex sole	45.37	11.1	16.8	8.1	0.106	0.486	2.546	18.944
Rock sole species	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0
Butter sole	0	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0	0
Other flatfish	5.69	45.044	13.832	7.376	0	0.656	0	0
Pacific ocean perch	25.23	0	0	0.116	0.744	33.31	609.083	0
Rougheye rockfish	0	0	0	0	0	0	0.046	8.9
Shortspine thornyhead	0	0	0	0	0	5.3	4.3	34.8
Northern rockfish	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	12.5
Dusky rockfish species	0	0	0	0	0	5.538	3.78	0
Other rockfish	182.88	32	0	1.432	10.616	526.236	6441.836	6.808
Atka Mackerel	0	0	0	0	0	0	0	0
Lingcod	5.292	0	0	0	7.3	0	0	0
Sculpins	0.216	0	0	0	0	2.504	3.072	0
Skates	0	0	0	0	0	0	0	174.4
Sharks	9.352	0	26.4	0	0	0	0	0
Tanner crabs	0	0	0	0	0	0	0	0
King crabs	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0.006	1.85	0	0.006	0	0.002
Sidestripe shrimp	0	0	0	0	0	0	0	0.026
Scallops	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0.772	1.314
Grand total	522.815	554.725	427.784	324.196	108.778	628.303	7086.073	585.549

## Section 1 (continued)

### Fishing Log for the F/V Dominator

- Summary listings of selected species catch rates in kilograms of catch per square kilometer trawled

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	123,962.1	1.7	123	111	10,636.4	1.1	154	125	5,548.0	0.7	87	142
	93,621.4	1.4	137	162	10,633.3	0.4	154	271	5,514.8	1.2	227	189
	55,042.9	1.4	86	136	10,457.8	0.7	163	66	5,500.5	0.9	213	239
	52,390.4	1.1	140	95	10,121.6	0.7	90	243	5,499.0	0.3	98	83
	51,846.8	3.4	219	2	10,027.1	1.0	175	256	5,338.5	1.2	135	115
	45,147.4	1.0	120	130	9,716.0	0.7	124	53	5,241.7	0.8	163	190
	41,456.7	1.0	119	80	9,472.4	1.4	144	127	5,233.0	1.2	246	114
	37,747.5	1.0	129	52	9,238.3	1.0	201	108	5,205.9	0.7	117	118
	28,547.9	0.8	163	57	9,100.8	1.4	190	121	5,084.6	0.8	184	257
	27,984.4	1.1	145	131	9,070.0	1.3	180	113	4,960.8	0.8	140	198
	27,428.7	1.3	83	163	9,045.2	1.2	227	96	4,900.1	0.7	92	40
	23,190.3	1.0	167	133	8,869.0	1.0	194	86	4,848.3	0.8	125	10
	22,845.1	0.7	157	244	8,300.1	1.3	111	206	4,636.5	0.7	112	201
	22,031.2	0.8	233	69	8,118.3	0.7	79	107	4,621.3	0.6	168	248
	20,498.9	1.0	156	176	7,864.3	1.0	144	126	4,565.3	0.8	70	229
	20,011.9	0.9	135	151	7,856.6	1.2	282	112	4,545.8	0.7	99	225
	19,823.9	0.5	112	98	7,845.1	0.6	170	59	4,509.2	1.1	231	94
	19,292.2	1.1	140	180	7,729.1	0.7	138	12	4,381.6	2.1	323	45
	17,690.8	0.8	149	101	7,666.4	0.7	126	221	4,338.1	0.3	151	272
	17,680.7	1.1	182	179	7,515.4	1.1	217	187	4,287.1	0.6	131	213
	17,285.4	1.0	145	97	7,502.9	0.8	113	58	4,143.6	1.7	182	178
	16,657.8	0.9	131	143	7,467.0	0.9	178	197	4,094.3	0.6	113	242
	15,893.3	0.8	137	185	7,396.8	0.5	108	116	4,077.1	1.5	176	104
	15,611.7	0.9	124	132	7,387.4	1.5	152	158	4,051.7	1.2	256	109
	15,016.9	0.9	101	157	7,215.8	1.6	151	46	4,046.3	1.2	185	68
	14,393.2	1.6	318	255	7,204.5	0.5	77	54	3,961.2	0.9	76	228
	14,285.3	0.9	167	88	6,980.7	1.0	194	237	3,834.5	1.9	256	103
	13,633.4	0.7	172	77	6,851.9	0.3	85	160	3,757.9	1.1	129	117
	13,101.7	0.5	141	177	6,591.9	0.9	129	184	3,740.4	0.7	137	224
	12,781.5	0.7	137	212	6,534.7	1.0	153	199	3,541.2	1.3	263	173
	12,276.4	0.5	107	71	6,441.1	0.5	157	89	3,523.6	1.1	53	123
	12,040.0	0.5	117	78	6,433.1	0.4	164	270	3,465.2	0.4	82	218
	11,981.5	1.0	188	60	6,141.4	1.0	258	87	3,463.8	1.0	183	146
	11,672.8	0.8	198	236	6,096.1	1.0	156	134	3,462.1	0.4	98	72
	11,131.2	0.5	144	273	5,987.9	0.7	246	241	3,386.3	0.6	122	76
	10,868.1	0.5	107	21	5,900.3	1.1	182	250	3,331.4	0.8	115	44
	10,847.5	0.7	159	186	5,716.5	0.8	115	205	3,319.6	0.4	96	220
	10,716.1	1.1	171	175	5,635.8	0.6	173	253	3,248.6	0.4	206	263

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	3,095.2	0.4	142	191	1,188.5	1.9	371	153	491.8	0.2	133	152
	3,091.7	1.3	229	188	1,176.2	3.0	273	195	484.0	1.0	227	232
	2,804.7	0.8	86	36	1,119.8	0.2	71	39	479.5	0.2	95	150
	2,779.6	0.8	173	211	1,027.8	0.4	70	73	457.9	0.7	89	33
	2,771.2	0.9	163	56	1,008.9	0.5	189	233	453.9	1.0	252	223
	2,667.8	2.1	251	209	993.9	1.1	291	258	442.0	0.5	131	192
	2,631.3	0.6	240	172	979.4	1.8	280	167	436.0	1.4	257	252
	2,616.1	0.6	194	85	950.8	1.5	227	7	399.9	2.2	433	23
	2,609.6	1.0	165	119	924.8	1.8	281	145	388.4	0.1	109	274
	2,598.4	1.3	279	110	906.1	0.2	122	148	326.1	1.9	468	48
	2,521.9	1.7	276	193	830.5	0.3	70	49	321.8	0.1	90	99
	2,475.6	1.3	109	219	814.4	0.7	106	6	292.5	1.3	201	268
	2,444.9	1.1	222	25	793.7	1.0	249	18	270.9	0.4	139	90
	2,421.7	0.6	169	74	755.7	2.8	288	231	266.6	1.9	366	170
	2,349.8	1.5	226	227	754.6	0.2	68	124	265.8	0.9	103	8
	2,310.0	0.3	130	194	753.0	1.6	237	234	264.3	1.8	67	159
	2,285.8	1.0	77	249	730.9	1.9	415	144	245.0	0.1	100	141
	2,239.5	0.7	65	235	720.4	1.0	135	222	238.7	0.1	67	42
	2,153.4	0.5	88	26	705.2	1.3	362	102	233.3	0.2	55	139
	2,152.2	1.2	180	183	685.2	1.7	207	203	231.1	0.5	105	51
	2,120.4	1.6	290	174	684.2	1.5	257	230	210.5	1.6	235	3
	2,088.9	1.1	87	19	672.7	0.6	180	16	210.2	0.6	453	91
	2,080.2	0.8	113	28	645.6	0.7	86	27	204.2	1.3	74	32
	2,021.1	1.1	83	13	642.2	1.3	255	47	186.7	0.3	45	226
	1,887.6	0.3	73	129	641.5	1.7	366	93	174.7	1.5	413	251
	1,760.6	0.6	141	34	634.7	1.9	396	65	166.1	1.5	369	260
	1,648.3	0.7	120	24	626.2	0.3	109	4	164.7	0.6	153	216
	1,638.4	1.2	267	264	602.2	0.2	113	154	163.1	0.1	96	155
	1,637.1	1.1	207	208	601.6	1.2	451	92	158.0	0.7	210	275
	1,579.7	1.1	254	17	591.7	1.0	191	207	148.9	0.2	189	269
	1,561.0	0.7	96	202	575.8	1.2	412	210	145.7	0.6	92	70
	1,491.0	0.6	81	31	574.3	1.7	190	169	145.0	2.0	325	1
	1,387.1	0.4	83	35	570.7	1.1	236	240	143.1	0.9	95	5
	1,383.1	1.0	208	22	555.1	0.9	180	261	139.6	0.2	58	75
	1,297.9	0.2	85	84	546.1	1.5	73	14	128.7	0.2	64	82
	1,290.3	1.6	240	196	532.1	1.1	314	9	127.4	0.7	41	37
	1,271.4	0.7	89	29	523.8	1.4	208	215	120.2	0.5	73	43
	1,238.3	1.5	91	20	521.2	1.1	221	238	119.6	1.3	20	245

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	118.6	0.5	76	67	10.2	0.0	104	266				
	118.2	0.4	81	11	9.4	0.1	76	63				
	109.1	0.1	112	200	3.5	0.1	52	120				
	107.8	1.4	220	276	3.1	0.0	77	217				
	89.4	0.0	112	265								
	87.6	2.2	55	105								
	87.1	0.1	85	161								
	84.8	0.3	121	164								
	78.1	0.1	91	182								
	69.7	0.5	85	79								
	69.4	0.6	96	30								
	66.6	0.1	118	247								
	47.1	0.4	40	38								
	45.6	0.0	124	267								
	36.6	0.1	62	15								
	35.5	0.9	427	166								
	31.2	0.9	365	277								
	30.1	0.3	122	165								
	18.4	0.1	119	64								
	14.0	0.3	28	81								
12.3	0.2	141	171									
11.5	0.1	36	41									
Pacific halibut	91,597.2	3.1	66	128	6,389.5	4.5	112	265	4,240.9	2.2	76	181
	26,661.2	3.6	86	147	6,194.5	2.5	55	105	3,887.4	10.1	90	99
	18,477.5	11.5	138	100	5,762.1	27.3	144	126	3,817.7	8.0	180	261
	14,641.7	3.1	85	79	5,694.1	12.6	101	157	3,691.5	4.2	112	98
	10,946.6	9.9	140	180	5,485.0	8.7	100	141	3,638.1	2.7	85	161
	9,947.1	4.5	76	67	5,290.6	8.3	117	78	3,574.0	13.2	139	90
	8,898.8	10.7	86	136	5,167.3	2.1	70	122	3,478.6	14.5	129	117
	8,433.3	7.5	122	148	4,726.2	1.9	41	37	3,448.6	4.9	91	182
	8,271.2	10.3	45	137	4,534.7	8.4	119	80	3,443.0	5.4	113	154
	7,065.3	3.5	36	135	4,529.9	3.6	28	81	3,304.8	18.0	154	271
	7,010.6	2.2	92	70	4,404.0	16.4	163	66	3,242.8	15.3	131	192
	6,845.7	4.3	104	266	4,311.2	7.7	73	129	3,195.2	13.5	154	125
	6,665.1	4.0	83	13	4,277.0	9.1	185	68	3,102.1	8.5	85	84



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Pacific halibut	2,878.2	14.3	263	173	1,640.4	6.7	141	177	971.5	3.7	106	6
	2,702.6	7.8	156	176	1,634.2	6.7	96	155	944.2	13.2	290	174
	2,641.3	9.4	122	165	1,625.3	6.9	74	32	930.8	7.3	83	163
	2,561.7	6.1	64	156	1,600.7	6.8	167	88	924.8	1.6	55	139
	2,553.8	60.6	85	262	1,595.1	18.4	273	195	915.4	23.1	237	234
	2,471.9	5.7	95	5	1,580.7	11.3	141	171	888.5	25.0	184	257
	2,448.5	1.9	52	120	1,571.0	3.6	213	239	881.4	8.0	201	268
	2,447.2	12.2	201	108	1,567.0	3.4	81	11	836.8	24.3	191	207
	2,365.7	9.2	140	95	1,564.1	3.3	87	142	835.3	2.7	125	10
	2,340.4	2.6	113	28	1,529.1	4.1	168	248	823.2	22.5	229	188
	2,331.3	15.4	152	158	1,519.6	2.4	91	20	818.6	4.1	109	4
	2,190.9	11.3	170	59	1,505.6	4.9	96	30	802.3	4.8	254	17
	2,189.9	50.4	38	140	1,492.7	11.7	246	114	790.0	2.2	64	82
	2,164.8	4.0	77	54	1,482.8	7.8	135	151	776.1	5.1	221	238
	2,161.8	6.8	149	101	1,479.7	44.3	276	193	772.7	7.4	137	224
	2,091.3	12.5	188	60	1,460.6	2.4	76	63	771.9	4.3	133	152
	2,036.1	9.5	66	204	1,435.4	13.0	175	256	767.0	5.9	85	160
	2,035.0	5.0	70	73	1,434.0	5.5	131	143	752.9	4.1	70	49
	1,977.2	9.0	135	222	1,432.3	3.3	107	21	750.7	4.3	120	130
	1,969.9	1.4	30	55	1,428.2	2.2	87	19	742.9	16.9	235	3
	1,960.3	4.1	115	44	1,415.9	6.9	92	40	725.9	8.8	98	83
	1,932.7	3.1	118	247	1,405.9	1.7	68	124	716.9	1.1	88	26
	1,930.3	3.2	198	236	1,374.7	16.2	251	209	714.8	9.2	151	46
	1,912.7	5.2	81	31	1,372.0	16.3	165	119	701.5	9.9	171	175
	1,831.2	4.6	107	71	1,370.7	3.3	73	14	693.1	6.0	141	34
	1,821.1	1.6	53	123	1,344.7	4.8	71	39	683.8	9.9	279	110
	1,818.2	25.3	173	253	1,306.8	16.8	207	208	668.2	20.1	257	230
	1,815.0	14.9	124	53	1,266.0	6.4	130	194	658.5	9.2	206	263
	1,801.3	4.2	129	52	1,251.5	6.1	103	8	631.5	16.4	182	178
	1,768.8	1.4	77	217	1,209.4	4.7	109	274	622.8	18.0	412	210
	1,733.4	4.0	194	237	1,137.9	2.2	73	43	607.4	4.8	144	127
	1,730.2	3.9	67	159	1,107.1	6.2	282	112	602.9	2.4	96	202
	1,724.6	6.8	113	58	1,068.7	3.2	108	116	599.4	3.6	89	29
	1,724.3	3.7	86	36	1,042.8	6.9	95	150	597.5	1.4	40	38
	1,717.5	11.4	79	107	1,030.4	7.5	45	226	548.2	6.8	267	264
	1,661.2	1.9	36	41	1,000.0	11.3	124	132	518.8	4.4	99	225
	1,653.5	4.0	124	267	992.4	6.4	145	131	508.0	12.4	256	103
	1,652.0	4.7	89	33	989.9	11.4	176	104	503.8	11.7	415	144

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Pacific halibut	483.1	12.4	226	227	350.2	10.2	190	121	191.3	5.3	180	183	
	472.9	5.8	163	190	324.2	8.2	126	221	147.1	3.6	427	166	
	472.2	12.0	111	206	319.9	4.3	98	72	138.1	3.4	144	273	
	467.5	6.5	164	270	319.2	2.2	83	35	116.6	3.1	138	12	
	443.7	1.7	86	27	317.8	3.0	65	235	116.0	2.9	194	85	
	441.7	5.2	194	86	309.9	6.0	120	24	105.1	2.8	314	9	
	436.2	3.4	119	64	303.4	6.3	137	162	102.6	2.8	159	186	
	396.9	5.5	183	146	290.2	7.9	156	134	100.6	2.9	131	213	
	394.8	12.8	256	109	284.5	2.1	117	118	99.5	2.6	90	243	
	392.2	10.5	227	232	278.7	3.7	140	198	98.0	2.8	227	7	
	384.7	4.9	227	96	270.7	6.3	233	69	94.3	2.3	129	184	
	379.1	2.0	99	246	256.9	6.8	190	169	60.3	2.6	249	18	
	374.7	11.3	240	196	249.2	3.6	82	218	51.2	1.2	137	185	
	364.8	9.2	135	115	245.7	3.1	163	56	27.6	0.7	77	249	
	357.8	8.8	236	240	231.2	4.9	20	245	12.1	0.1	62	15	
	351.2	4.6	121	164	218.5	5.6	112	201	0.0	0.0	123	111	
	Flathead sole	19,204.8	0.5	92	40	3,582.0	0.3	86	36	1,235.1	0.6	81	31
		17,634.2	0.3	124	132	3,323.3	0.5	87	142	1,141.3	0.4	76	228
		14,658.3	0.3	71	39	2,648.1	0.4	83	35	1,065.8	0.5	89	29
		14,035.8	0.4	144	126	2,622.0	0.6	140	95	1,036.9	0.2	151	46
10,555.5		0.5	129	117	2,530.0	0.2	113	58	1,015.4	0.2	173	211	
7,721.0		0.4	70	49	2,372.0	0.6	88	26	972.5	0.2	240	172	
7,645.2		0.2	108	116	2,315.3	0.4	156	134	958.5	0.4	131	143	
6,693.6		0.3	70	73	2,298.1	0.2	77	54	936.0	0.3	194	85	
6,455.9		0.3	101	157	2,182.9	0.2	170	59	932.3	0.3	201	108	
6,226.3		0.2	135	115	2,080.6	0.3	117	118	868.1	0.3	86	136	
5,361.0		0.3	182	179	1,975.6	0.3	188	60	776.4	0.3	227	189	
5,330.2		0.2	124	53	1,943.3	0.2	169	74	756.7	0.3	140	180	
5,314.2		0.3	145	131	1,714.3	0.2	172	77	736.8	0.5	156	176	
4,224.6		0.5	129	52	1,651.8	0.2	62	15	730.1	0.2	70	229	
4,120.0		0.2	154	125	1,466.6	0.3	167	133	694.1	0.3	126	221	
3,950.4		0.5	144	127	1,419.7	0.6	120	130	688.8	0.3	163	56	
3,856.0		0.2	163	57	1,347.0	0.3	137	162	688.0	0.3	180	113	
3,818.6		0.2	152	158	1,318.1	0.2	77	249	664.6	0.3	137	212	
3,738.8		0.2	141	34	1,276.2	0.4	117	78	657.0	0.4	135	151	

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Flathead sole	647.9	0.5	282	112	253.7	0.5	138	12	54.8	0.3	254	17
	642.9	0.2	163	190	237.0	0.3	142	191	53.8	0.4	163	66
	632.8	0.2	98	83	234.3	0.4	279	110	53.2	0.1	113	242
	610.6	0.4	145	97	224.6	1.0	68	124	51.1	0.4	194	86
	566.4	0.4	65	235	216.0	0.2	157	244	48.4	0.2	208	22
	545.8	0.4	190	121	211.7	0.1	217	187	47.8	0.4	133	152
	488.6	0.4	231	94	211.3	0.4	153	199	46.9	0.5	273	195
	483.0	0.2	178	197	197.0	0.2	122	76	46.8	0.4	180	16
	474.8	0.4	107	71	182.3	0.2	191	207	45.3	0.2	159	186
	469.5	0.5	256	109	181.3	0.2	165	119	43.4	0.2	229	188
	451.1	0.3	111	206	175.7	0.9	86	27	36.1	0.8	119	80
	436.8	0.7	67	42	172.9	0.2	45	226	25.3	0.7	190	169
	433.1	0.5	85	160	150.1	0.3	280	167	25.1	0.2	249	18
	403.0	0.3	96	220	136.2	0.2	109	219	21.5	0.1	236	240
	401.9	0.8	171	175	115.0	0.4	82	218	21.4	0.6	226	227
	375.3	0.4	246	114	110.7	0.3	288	231	18.9	0.3	79	107
	365.1	0.4	37	50	107.5	0.4	83	163	17.9	0.2	173	253
	363.4	0.3	90	243	107.0	0.6	40	38	17.4	0.4	208	215
	358.2	0.4	290	174	104.1	0.4	222	25	16.9	0.2	151	272
	356.1	0.6	137	224	84.1	0.3	182	178	16.4	0.2	144	273
	345.5	0.4	115	205	81.5	0.4	207	203	16.0	0.4	90	99
	302.3	0.5	227	96	76.9	0.1	246	241	15.7	0.4	74	32
	294.8	0.7	131	213	76.5	0.4	107	21	12.1	0.3	91	20
	290.5	0.4	141	177	72.7	0.3	183	146	10.8	0.3	139	90
	266.6	0.5	123	111	62.6	0.3	263	173	0.2	0.0	189	233
264.4	0.4	99	225	57.6	0.3	36	41					
259.1	0.3	257	230	57.2	0.5	85	84					
Dover sole	3,691.7	0.7	263	173	1,874.1	0.5	369	260	1,486.1	0.6	237	234
	3,661.9	0.7	413	251	1,868.7	0.5	291	258	1,433.1	0.8	468	48
	3,369.1	0.9	141	177	1,853.6	0.7	371	153	1,425.5	0.8	318	255
	2,809.0	0.6	451	92	1,602.9	1.0	137	162	1,393.2	0.9	273	195
	2,170.9	1.3	157	244	1,581.4	0.8	77	249	1,310.1	0.9	163	190
	2,164.9	0.9	365	277	1,557.1	1.0	142	191	1,307.6	0.9	366	93
	1,996.3	1.2	189	233	1,530.8	1.2	178	197	1,259.7	1.0	140	180
	1,886.3	0.6	427	166	1,519.7	0.8	240	196	1,161.1	1.1	111	206

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
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Dover sole	1,143.9	1.4	145	97	472.5	1.5	87	142	129.5	0.4	173	253
	1,099.5	0.6	366	170	436.8	2.2	154	125	128.0	0.9	171	175
	1,092.8	0.9	257	230	401.7	1.2	117	78	123.6	1.5	185	68
	1,083.1	0.7	246	241	401.0	1.0	180	113	119.4	1.6	145	131
	1,039.1	1.3	137	185	394.9	0.9	191	207	110.9	0.3	180	261
	1,031.1	1.0	86	136	393.5	0.3	267	264	108.5	0.9	201	108
	990.7	1.3	90	243	380.6	0.8	108	116	105.8	0.7	99	225
	988.7	0.7	276	193	378.1	1.0	173	211	104.7	0.7	96	220
	975.7	1.1	281	145	355.6	0.8	70	229	104.1	1.3	149	101
	966.8	0.6	453	91	349.5	1.4	194	86	102.5	2.3	117	118
	958.1	0.5	473	168	339.2	0.8	184	257	100.8	0.4	189	269
	893.1	1.1	323	45	337.2	1.2	188	60	95.3	0.8	251	209
	860.9	0.9	157	89	331.6	0.9	137	224	92.0	0.5	135	115
	846.8	1.0	252	223	311.3	0.8	256	103	90.5	0.7	233	69
	814.5	0.7	362	102	310.1	0.8	207	203	89.7	0.5	210	275
	813.3	1.2	167	88	304.9	1.4	180	183	89.2	1.2	131	143
	801.6	1.0	76	228	303.9	1.0	140	95	80.9	0.7	190	169
	783.7	0.6	207	208	300.8	1.2	229	188	80.4	1.1	112	98
	778.0	0.7	240	172	296.7	1.2	172	77	79.0	0.3	168	248
	750.7	0.6	280	167	280.3	0.8	182	178	68.1	0.4	275	259
	747.0	0.8	153	199	275.9	1.2	227	189	67.4	0.8	129	184
	744.9	0.8	396	65	264.3	0.9	182	179	61.6	0.4	129	117
	743.7	1.2	115	205	246.9	0.3	236	240	50.7	0.7	257	252
	725.6	0.9	126	221	242.8	1.3	159	186	49.5	0.7	221	238
	719.9	1.0	290	174	238.5	0.5	206	263	48.6	1.3	182	250
	703.0	1.0	226	227	235.6	2.1	152	158	46.6	1.3	141	171
	686.8	0.8	412	210	234.5	1.6	129	52	45.4	0.4	220	276
	686.3	0.9	109	219	225.2	0.3	164	270	42.6	0.9	119	80
	651.6	0.8	227	232	217.2	1.2	217	187	41.3	0.6	175	256
	613.4	1.4	183	146	216.4	0.7	140	198	40.9	1.0	255	47
	605.5	0.8	415	144	186.3	0.7	123	111	40.5	0.3	112	201
	601.7	1.7	231	94	166.1	0.8	137	212	39.3	1.0	139	90
	590.3	1.0	107	71	154.4	1.1	135	222	31.4	0.8	227	96
	556.6	1.1	156	176	148.1	1.3	288	231	30.9	0.8	258	87
	525.4	1.1	131	213	145.5	1.8	163	57	28.4	0.4	194	237
	503.5	0.8	213	239	143.6	0.5	65	235	25.5	0.6	144	127
	492.2	1.0	208	215	138.3	0.7	163	66	22.3	0.1	82	218
	492.0	1.4	194	85	130.7	0.4	151	272	21.0	0.5	169	74

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Dover sole	19.1	0.4	124	132	14.1	0.3	144	273	7.4	0.1	85	160
	17.1	0.2	201	268	10.5	0.3	77	217	5.5	0.1	113	242
Rex sole	2,884.6	0.6	117	78	902.9	0.4	263	173	407.9	0.2	154	271
	2,802.4	0.2	173	253	823.2	0.2	267	264	386.9	0.3	227	189
	2,748.4	0.7	87	142	817.3	0.6	131	143	373.4	0.4	171	175
	2,452.1	0.7	194	85	796.5	0.2	291	258	369.1	0.2	240	196
	2,427.9	0.3	240	172	778.0	0.4	208	22	358.1	0.5	135	151
	2,379.7	0.6	107	71	723.5	0.3	366	170	352.9	0.2	206	263
	2,349.5	0.6	145	97	686.2	0.7	194	86	329.1	0.2	144	273
	2,013.0	0.5	290	174	683.9	0.2	246	241	309.8	0.4	433	23
	2,011.5	0.5	256	103	677.2	0.7	167	133	281.3	0.2	115	205
	1,753.4	0.5	140	180	648.4	0.5	137	185	280.3	1.1	144	127
	1,712.9	0.7	163	66	637.5	0.6	182	178	265.6	0.3	112	201
	1,644.0	0.2	164	270	630.8	0.4	365	277	264.7	0.4	280	167
	1,567.6	0.5	167	88	616.3	0.1	151	272	260.6	0.5	227	7
	1,503.2	0.6	157	89	570.5	0.5	190	169	245.4	0.7	172	77
	1,454.4	0.4	141	177	556.4	0.3	175	256	240.2	0.3	213	239
	1,443.2	0.6	163	190	533.5	0.3	111	206	217.5	0.2	189	269
	1,403.4	0.8	129	52	532.1	0.5	314	9	205.6	1.0	89	29
	1,393.8	0.5	142	191	507.2	0.7	255	47	204.6	0.4	222	25
	1,390.9	0.3	153	199	487.8	0.1	77	249	197.6	0.4	396	65
	1,238.8	0.6	182	179	479.2	0.8	258	87	197.5	0.2	413	251
	1,203.8	0.3	288	231	473.4	0.8	138	12	186.1	1.0	156	134
	1,156.9	0.4	178	197	466.1	0.3	273	195	182.4	0.5	323	45
	1,105.9	0.6	140	95	454.1	0.4	415	144	181.0	0.3	109	219
	1,016.6	0.2	168	248	452.3	0.3	257	230	162.3	0.2	227	232
	993.2	0.6	86	136	447.6	0.8	231	94	155.4	0.2	369	260
	971.4	0.3	184	257	441.1	0.2	101	157	148.3	0.4	123	111
	963.1	0.8	151	46	429.9	0.3	126	221	142.4	0.7	282	112
	956.2	0.6	254	17	423.3	0.7	180	183	133.8	0.4	198	236
	937.2	0.3	140	198	421.1	0.8	120	24	133.7	0.6	188	60
	927.3	0.5	183	146	420.4	0.9	149	101	133.3	0.2	252	223
924.5	0.4	156	176	412.5	0.5	176	104	132.4	0.2	169	74	
907.8	0.2	207	208	412.1	0.2	237	234	132.3	0.2	180	261	
905.5	0.5	249	18	410.4	0.4	137	162	129.3	0.2	194	237	

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Rex sole	129.2	0.3	122	76	81.8	0.7	100	141	29.7	0.1	90	243
	125.7	0.2	137	224	81.5	0.1	236	240	28.3	0.1	170	59
	124.9	0.5	281	145	80.4	0.5	201	108	26.5	0.2	226	227
	122.8	0.3	217	187	74.5	0.6	129	184	26.0	0.7	81	31
	122.4	0.1	173	211	72.9	0.2	96	220	23.0	0.2	112	200
	121.7	0.2	229	188	72.9	0.2	257	252	21.8	0.5	119	80
	117.8	0.2	275	259	66.5	0.2	124	132	20.7	0.1	98	83
	115.9	0.5	130	194	65.7	0.1	65	235	19.2	0.1	210	275
	114.6	0.1	141	34	63.2	0.2	165	119	18.6	0.0	104	266
	113.1	0.3	362	102	62.5	0.3	451	92	15.2	0.1	85	160
	106.7	0.1	82	218	61.5	0.4	276	193	14.9	0.1	112	265
	106.7	1.4	145	131	57.3	0.1	124	267	10.7	0.1	124	53
	105.7	0.3	473	168	47.6	0.3	221	238	8.6	0.2	246	114
	105.3	0.7	98	72	45.5	0.2	70	229	8.5	0.2	135	222
	104.6	0.2	191	207	45.4	0.2	157	244	6.8	0.0	137	212
	102.5	0.2	108	116	45.2	0.4	366	93	5.5	0.1	109	274
	100.2	0.1	220	276	42.6	0.5	180	16	4.2	0.1	92	40
	94.8	0.6	233	69	40.1	0.5	371	153	4.0	0.1	77	217
	94.4	0.3	207	203	39.2	0.5	427	166	3.9	0.1	86	36
	94.3	0.8	125	10	36.3	0.4	120	130	3.4	0.1	144	126
	93.8	0.3	318	255	35.4	0.9	180	113	2.2	0.1	113	58
	93.6	0.2	76	228	34.3	0.2	159	186	2.0	0.0	62	15
	89.3	0.4	131	213	34.0	0.4	83	35	1.9	0.1	201	268
	87.5	0.8	107	21	33.9	0.6	256	109	1.2	0.0	96	155
	85.8	0.3	468	48	33.7	0.2	99	225	1.0	0.0	163	57
	85.3	0.7	185	68	31.0	0.9	279	110	0.9	0.0	96	202
83.5	0.3	412	210	30.3	0.4	152	158	16,808.5	0.3	36	41	
Yellowfin sole	6,375.1	0.4	71	39	832.7	0.6	41	37	32.6	0.4	28	81
	3,853.3	0.5	70	73	476.6	0.6	86	36	25.7	0.3	40	38
	3,830.2	0.5	77	54	85.1	0.7	124	53	12.1	0.3	83	35
	1,157.7	0.5	62	15	65.9	0.6	108	116				

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Rock sole sp.	39,912.0	0.5	53	123	4,125.9	0.4	96	155	591.4	0.4	91	182
	34,417.6	0.8	67	159	3,875.6	0.7	85	161	501.5	0.9	86	147
	20,592.7	0.4	30	55	3,855.7	0.6	64	82	498.2	1.0	180	16
	19,349.6	0.3	68	124	3,747.0	0.4	74	32	453.8	1.0	135	115
	11,964.8	0.3	70	49	3,395.9	0.4	77	217	440.3	0.9	112	265
	11,379.8	0.5	85	160	3,374.6	0.6	73	43	426.1	0.6	55	61
	9,975.3	0.7	28	81	3,328.9	0.8	83	163	395.6	0.4	81	11
	9,595.2	0.7	66	128	3,044.6	0.4	113	28	389.0	0.8	122	165
	8,933.8	0.4	83	35	2,790.8	0.4	92	40	369.7	1.2	120	24
	7,586.5	0.5	86	27	2,570.7	0.6	109	4	366.5	1.3	137	162
	7,565.7	0.7	52	120	2,302.0	0.6	96	30	358.8	0.6	113	58
	7,359.3	0.6	87	142	2,295.5	0.6	76	63	318.4	1.4	86	136
	7,308.2	0.6	41	37	2,073.8	0.3	71	39	317.8	0.9	79	107
	7,302.9	0.3	62	15	1,860.6	0.5	95	5	304.0	0.5	124	53
	7,236.0	0.7	58	75	1,857.8	0.6	95	150	301.4	0.6	85	262
	7,120.4	0.7	73	14	1,705.7	0.9	107	21	298.7	0.9	121	164
	7,028.9	0.9	70	122	1,667.3	0.7	118	247	259.9	0.6	104	266
	6,705.8	0.7	87	19	1,436.6	0.6	45	137	226.2	1.9	36	135
	6,643.2	0.8	91	20	1,414.4	0.7	125	10	211.8	1.0	122	148
	6,576.0	0.6	81	31	1,379.1	0.6	133	152	179.8	0.7	105	51
	6,417.0	0.4	40	38	1,371.7	0.6	55	139	174.8	0.7	141	177
	6,179.3	0.4	36	41	1,258.5	0.4	77	54	169.0	1.3	124	132
	6,102.3	0.3	73	129	1,093.3	1.1	124	267	161.9	1.4	152	158
	6,070.9	0.5	88	26	1,042.3	0.6	76	181	147.9	0.7	96	202
	5,812.5	0.3	86	36	1,013.9	0.8	141	171	107.7	0.9	107	71
	5,775.3	0.4	67	42	992.4	0.7	130	194	106.2	0.9	154	125
	5,648.0	0.6	92	70	885.8	0.9	106	6	105.0	0.2	99	246
	5,278.3	0.5	85	84	866.0	0.2	89	33	99.1	0.8	38	140
	5,258.3	1.1	55	105	773.5	0.7	135	151	88.9	0.8	98	72
	5,030.7	0.5	103	8	764.9	0.9	131	192	68.2	0.6	129	117
	4,934.7	0.6	89	29	755.7	1.5	115	44	66.2	0.5	117	118
	4,891.2	0.7	85	79	726.7	0.7	98	83	60.4	0.5	163	56
	4,644.4	1.8	37	50	704.4	0.8	138	12	42.7	0.4	171	175
	4,427.2	0.5	113	154	654.5	0.6	66	204	33.8	0.3	194	85
	4,396.2	0.5	64	156	640.5	1.1	76	67	29.8	0.0	42	106
	4,381.0	0.5	83	13	604.9	0.4	90	99				

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Butter sole	3,067.0	0.6	37	50	170.1	0.3	67	159	55.6	0.4	40	38
	1,236.3	0.4	53	123	150.8	0.4	85	160	36.6	1.0	156	134
	857.9	0.4	70	49	138.7	0.6	70	73	29.3	0.4	108	116
	577.0	0.3	83	163	123.6	0.8	87	142	19.4	0.5	73	129
	391.2	0.6	124	132	108.5	0.5	20	245				
	254.9	0.3	144	127	89.8	0.4	68	124				
Sablefish	17,018.4	1.2	208	215	1,760.6	3.2	178	197	530.2	0.9	252	223
	15,208.0	3.2	263	173	1,617.6	2.9	468	48	502.2	2.2	221	238
	11,568.0	4.2	140	180	1,585.1	1.8	433	23	494.5	1.8	208	22
	8,130.0	3.9	276	193	1,318.6	2.5	257	230	457.5	3.1	231	94
	7,656.1	4.2	273	195	1,279.9	2.8	256	109	454.2	3.8	210	275
	7,575.2	3.2	451	92	1,272.8	0.8	246	241	427.3	2.5	279	110
	7,231.3	2.9	190	169	1,150.3	2.7	227	96	413.5	3.6	258	87
	6,217.6	4.1	219	2	1,148.8	2.0	171	175	371.2	1.7	159	186
	5,901.0	3.1	473	168	1,074.7	3.6	362	102	338.0	3.2	184	257
	5,726.1	3.1	415	144	1,037.2	3.9	240	196	329.8	0.5	115	205
	5,644.8	2.9	413	251	884.0	3.1	201	108	325.6	1.7	182	179
	5,155.8	3.2	207	208	871.8	1.5	314	9	321.6	1.8	249	18
	3,982.3	5.0	318	255	833.3	2.0	182	178	314.8	0.9	267	264
	3,225.2	2.3	137	162	806.0	2.7	291	258	309.6	1.5	141	177
	3,205.7	3.1	290	174	762.5	3.9	280	167	300.0	2.6	288	231
	3,192.5	2.9	240	172	748.4	3.6	366	93	294.2	0.9	111	206
	2,793.8	2.9	365	277	747.7	1.7	213	239	291.3	3.9	140	198
	2,786.3	3.7	251	209	730.1	4.9	182	250	289.0	2.8	191	207
	2,781.8	3.1	396	65	719.7	0.8	173	253	285.6	3.5	275	259
	2,701.0	3.4	180	183	702.9	3.8	281	145	283.5	1.0	226	227
	2,604.5	3.2	427	166	662.1	3.1	282	112	280.2	0.6	99	225
	2,422.1	2.5	229	188	654.1	1.1	144	273	276.7	1.5	156	176
	2,375.9	1.9	254	17	652.2	1.5	207	203	238.8	0.7	206	263
	2,298.3	3.1	371	153	642.2	2.6	255	47	235.8	3.2	175	256
	2,261.7	2.3	233	69	626.4	2.1	198	236	230.3	1.4	129	184
	2,185.2	3.9	412	210	623.3	1.8	227	7	204.7	2.6	220	276
	2,142.0	3.0	366	170	617.3	2.6	323	45	204.6	2.9	222	25
	2,049.4	2.5	176	104	561.2	3.4	256	103	201.6	1.9	173	211
	2,001.9	2.3	227	189	554.9	3.3	453	91	178.7	1.2	227	232



Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Sablefish	177.4	1.0	124	132	100.8	2.6	194	237	26.4	0.4	109	219
	158.8	4.4	183	146	100.7	1.4	153	199	26.1	0.3	90	243
	152.9	0.7	137	185	99.8	0.4	96	220	24.3	0.2	71	39
	149.3	0.5	65	235	91.5	0.5	76	228	15.4	0.4	154	271
	144.9	1.0	164	270	89.4	0.8	126	221	15.3	0.2	70	73
	134.8	1.7	163	190	89.3	2.6	190	121	13.5	0.4	45	226
	132.2	3.1	246	114	84.2	2.3	172	77	10.5	0.2	62	15
	125.6	3.6	257	252	76.0	1.9	194	85	8.3	0.2	82	218
	121.8	3.1	167	88	71.0	0.6	77	249	8.1	0.2	92	40
	121.3	3.3	201	268	66.9	0.6	151	272	6.7	0.2	36	41
	118.7	1.5	137	212	62.2	0.9	108	116	8.4	0.0	362	102
	104.7	0.8	137	224	39.0	1.4	188	60	18.5	0.0	413	251
	Pacific herring	92.8	0.1	76	228	10.6	0.0	20	245	3.9	0.1	154
53.4		0.2	207	203	9.2	0.1	62	15	1.8	0.1	104	266
24.8		0.1	124	267	6.1	0.2	226	227	1.5	0.0	45	226
14.8		0.1	109	274	4.4	0.1	257	230	0.1	0.0	365	277
Pacific cod	109,385.2	3.6	66	128	4,161.2	2.6	64	156	2,524.7	1.1	36	41
	103,529.9	1.9	37	50	3,814.2	3.6	124	132	2,382.0	3.5	149	101
	24,030.1	4.3	140	95	3,713.5	2.9	233	69	2,322.8	2.2	180	113
	12,764.1	3.8	70	122	3,704.9	3.0	167	88	2,250.4	0.9	83	35
	11,556.4	3.5	55	105	3,539.9	2.9	87	142	2,238.9	1.5	182	178
	11,210.5	2.4	119	80	3,505.0	0.4	62	15	2,137.8	3.3	91	20
	10,060.8	2.1	140	198	3,426.3	2.9	70	73	2,030.9	3.2	201	108
	9,935.1	3.6	103	8	3,287.9	1.4	137	162	1,998.7	2.3	70	49
	7,230.5	2.3	140	180	3,188.9	2.7	141	34	1,963.0	5.4	87	19
	6,955.4	2.8	194	86	3,135.5	5.6	88	26	1,912.4	3.3	156	134
	6,297.5	2.8	95	5	3,080.5	1.9	112	201	1,905.9	3.4	185	68
	6,225.5	2.5	163	66	3,009.3	2.3	154	271	1,904.2	1.4	190	169
	5,540.6	2.2	120	130	2,937.2	2.4	120	24	1,895.7	3.6	53	123
	4,642.4	2.5	119	64	2,933.0	0.9	58	75	1,881.8	1.1	130	194
	4,430.9	3.1	92	40	2,677.4	5.9	138	12	1,878.1	4.1	145	97
	4,250.0	1.8	86	36	2,629.9	4.2	144	126	1,785.8	2.3	129	52

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Pacific cod	1,766.2	2.4	83	13	861.8	2.7	154	125	226.7	5.6	236	240
	1,750.7	2.1	113	58	860.2	3.3	109	4	216.7	3.2	191	207
	1,718.0	2.6	112	98	842.1	1.3	83	163	208.5	0.6	85	84
	1,715.9	2.3	96	30	818.9	3.2	246	114	201.3	1.2	91	182
	1,699.9	1.1	137	185	781.4	0.8	64	82	197.5	2.5	210	275
	1,663.4	1.0	156	176	756.0	1.6	71	39	196.5	2.8	65	235
	1,660.5	2.7	157	89	709.9	3.4	279	110	195.0	2.4	144	273
	1,634.4	3.0	125	10	677.6	2.3	164	270	193.5	2.5	170	59
	1,560.0	2.8	227	7	644.3	3.6	282	112	190.9	4.8	213	239
	1,521.1	3.6	145	131	626.5	2.6	163	57	184.1	0.7	96	155
	1,508.8	4.4	86	136	607.1	0.5	67	159	173.3	1.2	42	106
	1,502.8	2.2	115	44	607.1	2.8	96	202	170.9	2.2	151	46
	1,486.7	1.6	144	127	585.2	1.4	74	32	166.4	4.2	237	234
	1,374.4	2.0	165	119	579.8	3.3	153	199	165.7	4.2	99	225
	1,372.3	1.9	129	117	575.6	1.2	98	83	164.7	4.2	111	206
	1,326.1	3.0	77	249	549.3	3.2	190	121	160.1	4.3	227	232
	1,324.1	2.2	81	31	545.0	3.2	180	16	155.4	1.1	100	141
	1,267.0	0.9	141	177	531.9	1.1	129	184	146.9	1.2	107	71
	1,263.5	2.6	79	107	523.8	2.7	188	60	144.6	3.6	267	264
	1,244.8	1.2	113	28	523.2	3.6	175	256	143.1	4.1	137	224
	1,244.3	1.8	98	72	511.0	2.0	173	253	137.9	3.5	194	237
	1,236.7	3.6	256	109	500.3	3.4	182	250	136.0	3.3	163	190
	1,221.7	2.7	68	124	486.8	1.9	89	29	135.7	1.9	151	272
	1,158.6	1.7	180	183	481.1	4.1	207	208	134.5	3.4	137	212
	1,146.0	3.3	86	27	458.0	4.9	20	245	133.5	3.4	227	96
	1,137.8	1.7	101	157	424.2	1.7	206	263	127.4	1.0	41	37
	1,125.9	2.5	106	6	420.9	2.3	108	116	124.1	2.6	135	151
	1,124.8	1.7	89	33	398.0	3.1	251	209	116.5	0.5	85	160
	1,118.9	2.8	107	21	374.7	1.9	178	197	114.9	1.6	222	25
	1,066.0	3.3	124	53	373.7	3.3	92	70	114.2	2.9	220	276
	1,064.8	1.3	73	43	328.5	1.7	142	191	112.7	3.3	109	219
	1,046.4	3.5	169	74	325.3	1.5	105	51	109.4	3.0	159	186
	1,044.9	1.6	123	111	320.3	2.6	73	14	109.1	2.4	81	11
	1,031.0	2.0	167	133	299.8	2.9	82	218	104.4	2.9	173	211
	930.9	0.6	73	129	298.8	1.2	171	175	94.6	2.5	95	150
	921.1	3.5	235	3	280.9	2.8	263	173	90.6	2.4	227	189
	915.6	2.9	135	115	278.2	2.3	255	47	90.2	2.1	176	104
	887.2	1.9	122	76	257.4	1.5	90	99	90.1	2.7	240	196

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Pacific cod	83.0	2.2	314	9	53.9	0.3	77	217	8.6	0.1	27	138
	80.2	2.1	189	269	45.0	0.4	109	274	8.6	0.2	112	265
	75.5	0.4	77	54	35.6	0.1	67	42	7.3	0.2	90	243
	73.5	2.0	201	268	34.2	0.1	45	137	4.8	0.0	28	81
	72.3	2.1	257	252	29.9	0.4	40	38	1.7	0.0	38	140
	65.7	1.9	208	22	23.9	0.7	131	192	1.6	0.0	85	79
	55.8	0.2	113	154	22.6	0.3	55	139				
Walleye pollock	114,642.2	1.0	140	95	2,757.8	0.5	267	264	912.9	1.1	263	173
	64,676.8	0.9	95	5	2,732.7	1.0	227	189	907.9	0.9	235	3
	55,992.6	1.4	101	157	2,692.7	0.5	129	117	805.3	1.0	188	60
	32,686.3	1.5	145	131	2,285.3	0.1	256	109	737.4	0.5	111	206
	31,271.9	1.2	124	53	2,175.4	0.2	135	115	719.3	0.8	182	179
	25,613.6	0.9	106	6	1,875.9	0.9	173	211	711.9	1.0	138	12
	22,443.9	0.1	62	15	1,845.5	0.5	149	101	711.9	0.6	70	49
	18,934.8	1.1	113	58	1,746.8	0.1	109	274	699.3	0.0	90	99
	14,818.7	1.2	92	40	1,608.8	0.4	77	249	696.0	0.3	213	239
	12,525.7	1.0	86	27	1,554.2	0.5	236	240	671.3	0.5	231	94
	10,294.9	1.0	103	8	1,469.3	0.0	82	218	606.9	0.8	194	86
	10,223.6	1.1	120	24	1,331.5	0.4	221	238	595.8	0.6	141	34
	8,778.7	0.4	151	272	1,300.7	1.1	122	76	543.5	1.6	167	133
	6,036.2	1.4	124	132	1,263.9	1.2	156	134	536.1	0.3	144	126
	5,665.4	1.2	108	116	1,242.9	1.0	98	83	521.8	0.4	190	121
	4,925.2	1.0	255	47	1,241.1	0.1	246	114	501.4	1.0	219	2
	4,288.4	1.0	89	29	1,175.8	0.4	86	36	488.9	0.0	85	84
	4,210.3	0.9	88	26	1,162.8	0.2	191	207	478.0	0.1	170	59
	3,775.0	0.7	180	113	1,126.7	0.6	227	96	468.7	0.5	279	110
	3,599.4	1.1	251	209	1,074.3	0.9	210	275	436.7	1.0	258	87
	3,524.1	0.3	201	108	1,048.9	0.9	254	17	436.5	0.1	83	35
	3,344.8	1.3	154	125	1,045.5	0.6	165	119	421.0	0.1	173	253
	3,114.4	1.5	182	178	1,023.0	0.3	226	227	413.0	0.9	180	16
	3,106.4	1.0	138	100	1,007.3	0.3	164	270	412.5	1.6	180	183
	3,039.0	1.1	109	219	998.8	1.2	291	258	408.0	0.8	81	31
	2,859.6	1.0	113	28	978.1	0.9	117	118	405.6	0.5	184	257
	2,829.8	0.3	71	39	942.4	0.2	198	236	403.1	0.8	208	215
	2,806.0	1.3	70	73	928.6	1.0	276	193	401.9	0.8	257	230

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Walleye pollock	394.2	0.7	145	97	138.2	0.1	65	235	50.8	0.0	67	42
	326.4	1.2	240	172	124.1	0.0	40	38	50.2	0.0	96	155
	325.6	0.1	76	63	122.5	0.9	433	23	48.9	1.3	85	79
	310.1	1.3	275	259	119.7	0.6	137	185	47.8	0.6	55	139
	309.9	1.3	227	7	118.6	1.0	249	18	46.2	1.0	281	145
	298.4	0.1	168	248	116.8	1.2	37	50	46.1	0.6	190	169
	289.5	1.0	257	252	113.6	0.5	172	77	43.7	1.0	157	89
	283.2	0.9	229	188	112.9	1.1	240	196	43.6	0.6	123	111
	283.0	0.8	314	9	111.8	1.0	129	52	42.8	1.1	207	208
	276.4	1.0	222	25	109.7	1.3	53	123	39.8	0.9	176	104
	264.4	0.3	189	233	103.8	1.2	415	144	36.0	0.5	126	221
	261.5	0.2	87	142	93.9	0.2	246	241	35.2	0.9	451	92
	259.4	0.5	98	72	93.7	1.1	427	166	34.9	0.9	73	14
	257.9	1.4	290	174	92.9	0.0	139	90	33.0	0.5	109	4
	256.3	0.2	282	112	86.6	1.1	371	153	30.8	0.8	237	234
	256.0	0.7	194	85	83.5	0.1	154	271	30.4	0.0	96	202
	254.4	0.7	288	231	83.2	0.4	182	250	29.1	0.0	112	98
	253.2	0.2	137	212	82.5	0.0	112	200	27.9	0.0	99	225
	244.7	0.9	151	46	81.0	1.0	280	167	27.0	0.7	96	30
	244.2	0.8	169	74	76.0	1.1	120	130	26.9	0.0	36	41
	242.4	0.0	41	37	75.3	1.2	217	187	25.8	0.1	73	43
	222.7	0.9	273	195	68.5	1.7	163	56	20.7	0.6	201	268
	222.0	1.4	366	93	67.9	0.4	122	165	18.7	0.0	85	161
	220.7	0.1	76	228	67.4	0.5	68	124	16.6	0.4	227	232
	215.0	0.1	194	237	66.5	0.7	67	159	16.4	0.0	73	129
	206.5	0.8	365	277	64.7	1.6	163	57	16.3	0.1	189	269
	198.5	0.4	175	256	62.2	0.0	64	82	15.7	0.6	325	1
	196.7	0.2	79	107	62.0	0.9	107	21	15.7	0.0	55	61
	192.5	0.8	125	10	60.2	0.1	144	273	14.1	0.1	74	32
	183.1	1.0	252	223	59.7	0.1	89	33	14.0	0.1	122	148
	179.8	0.0	90	243	58.3	0.5	131	143	13.9	0.0	77	54
	177.6	0.7	207	203	57.0	1.5	396	65	13.6	0.0	119	64
	176.4	1.0	208	22	56.5	1.5	178	197	13.4	0.0	130	194
	174.6	0.5	115	205	55.7	0.0	70	229	12.5	0.1	131	192
	168.2	0.3	92	70	55.6	1.3	105	51	12.3	0.0	233	69
	157.5	1.0	220	276	54.9	0.1	45	226	11.5	0.1	64	156
	151.1	1.6	20	245	53.2	0.8	473	168	10.9	0.2	366	170
	140.8	0.2	95	150	52.8	1.4	362	102	8.7	0.1	115	44

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the FV Dominator.

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Walleye pollock	8.1	0.0	119	80	4.2	0.1	81	11	1.9	0.0	28	81
	8.0	0.0	121	164	3.3	0.0	113	154	1.6	0.0	118	247
	6.7	0.0	131	213	3.1	0.0	85	149	1.3	0.0	153	216
	6.4	0.0	129	184	2.6	0.0	91	182	0.8	0.0	107	71
	5.6	0.1	157	244	2.5	0.0	96	220	0.8	0.0	112	201
	4.4	0.1	159	186	2.2	0.0	135	151				
Lingcod	2,011.7	9.0	124	267	555.1	8.0	137	224	304.4	8.0	221	238
	1,728.9	4.7	182	250	541.4	6.3	66	204	299.9	7.6	99	225
	1,196.1	4.2	112	265	504.0	6.8	175	256	240.2	7.0	246	241
	1,161.9	11.3	85	149	470.9	5.0	20	245	235.9	5.9	213	239
	1,064.0	7.1	168	248	435.1	3.8	118	247	191.8	5.3	164	270
	861.1	8.1	184	257	377.3	3.7	109	274	191.3	5.0	189	269
	766.2	10.2	115	205	354.6	3.0	194	237	174.2	4.4	237	234
	753.6	6.8	201	268	317.7	8.1	111	206	100.5	2.8	131	192
	738.8	5.0	135	222	315.0	8.1	226	227	57.0	1.6	206	263
	648.4	6.2	82	218	309.7	4.3	96	202				
Atka mackerel	3,231.9	1.6	88	26	108.8	1.4	190	169	52.3	1.2	251	209
	413.6	1.6	233	69	107.3	1.4	95	5	37.1	1.0	81	31
	353.3	1.5	163	66	64.6	1.3	231	94	36.2	1.3	188	60
	231.8	1.5	167	88	64.0	1.6	194	85	35.7	1.1	106	6
	136.4	1.6	194	86	58.6	1.5	86	36	25.1	1.1	249	18
	109.1	1.3	89	29	53.3	1.3	256	103				
Shortspine thornyhead	5,906.0	0.3	318	255	2,847.7	0.3	412	210	1,938.7	0.3	240	196
	4,351.3	0.2	222	25	2,590.5	0.2	366	93	1,875.2	0.3	451	92
	4,021.6	0.3	276	193	2,413.1	0.4	273	195	1,829.6	0.2	291	258
	3,847.3	0.2	281	145	2,290.8	0.2	255	47	1,786.1	0.2	254	17
	2,997.1	0.2	415	144	2,173.5	0.2	252	223	1,755.7	0.1	237	234
	2,918.7	0.3	396	65	2,127.9	0.2	275	259	1,751.7	0.3	366	170
	2,884.5	0.1	257	252	2,089.5	0.3	468	48	1,664.7	0.1	369	260

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Shortspine thornyhead	1,655.2	0.2	263	173	551.6	1.1	219	2	55.3	0.2	183	146
	1,636.7	0.3	288	231	535.0	0.7	207	203	46.4	0.6	258	87
	1,541.9	0.2	226	227	508.7	0.3	217	187	45.3	1.1	126	221
	1,450.8	0.3	257	230	488.3	0.3	208	215	43.6	0.0	182	250
	1,419.9	0.2	427	166	463.8	0.2	227	7	39.4	0.3	153	216
	1,351.2	0.2	280	167	448.5	0.2	189	233	38.5	0.3	190	169
	1,314.0	0.2	323	45	439.4	0.1	227	232	30.7	0.4	176	104
	1,267.2	0.1	371	153	437.2	5.2	453	91	26.8	0.6	240	172
	1,192.9	0.2	249	18	325.6	0.3	229	188	26.7	0.2	251	209
	1,158.8	0.8	365	277	318.1	0.3	208	22	21.2	0.1	221	238
	1,120.8	0.2	314	9	209.3	0.2	210	275	16.0	0.5	171	175
	999.3	0.3	362	102	198.2	0.2	233	69	13.7	0.1	201	268
	991.5	0.3	413	251	192.6	0.2	191	207	10.3	0.0	213	239
	841.7	0.6	290	174	184.9	1.2	120	24	9.8	0.3	141	171
	833.9	0.2	473	168	169.3	0.2	220	276	6.9	0.1	267	264
	831.6	0.2	256	103	145.0	0.7	325	1	6.5	0.2	207	208
	828.6	0.2	433	23	117.9	0.1	157	244	5.1	0.1	189	269
	654.6	0.5	227	189	99.5	0.3	231	94	2.1	0.1	194	237
	577.8	0.2	246	241	96.4	0.1	236	240				
	Rougheye rockfish	16,797.6	0.5	219	2	716.2	0.6	154	125	244.5	1.0	291
9,198.6		1.4	369	260	557.8	0.6	137	212	227.9	1.5	413	251
3,959.8		1.4	366	93	518.9	0.5	217	187	214.5	0.2	198	236
3,799.7		1.1	318	255	511.1	0.4	252	223	196.2	0.7	240	196
3,365.6		1.4	325	1	502.3	0.5	191	207	190.3	1.1	415	144
3,227.1		1.5	371	153	471.5	0.9	263	173	161.4	0.8	144	127
2,416.8		1.0	227	189	464.2	1.2	314	9	147.3	0.3	255	47
2,113.6		1.2	323	45	452.5	1.8	231	94	143.8	0.3	173	211
1,859.5		0.9	140	180	433.9	0.3	178	197	139.3	0.6	144	126
1,845.1		0.7	276	193	359.1	1.0	207	203	138.5	0.3	159	186
1,493.7		1.1	101	157	296.4	0.9	365	277	136.6	0.4	194	237
1,491.3		0.4	189	233	295.1	0.8	273	195	123.8	0.3	226	227
1,474.2		1.4	412	210	292.4	1.5	288	231	120.7	1.1	362	102
982.5		0.8	235	3	274.7	1.2	135	115	119.6	0.4	207	208
976.7		0.7	208	215	272.8	0.6	281	145	116.6	3.0	280	167
861.5		1.5	366	170	256.7	0.8	120	24	115.1	0.7	194	86

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Rougheye rockfish	107.9	1.8	256	109	45.7	1.2	95	5	9.1	0.4	249	18	
	106.4	1.4	396	65	45.4	0.2	275	259	8.2	0.1	237	234	
	104.7	0.8	124	132	41.0	0.3	111	206	7.7	0.1	221	238	
	76.8	0.4	229	188	33.8	0.4	251	209	7.7	0.2	90	243	
	72.1	0.4	131	213	24.6	0.7	113	58	7.4	0.2	109	219	
	71.0	0.2	77	249	23.8	0.3	182	178	5.7	0.2	157	244	
	70.1	1.0	257	252	21.0	0.5	157	89	4.9	0.1	246	241	
	69.6	1.6	246	114	20.0	0.1	227	232	4.0	0.1	240	172	
	66.8	0.4	167	88	17.1	0.4	165	119	3.7	0.1	129	117	
	66.2	1.8	135	222	13.3	0.4	180	183	3.6	0.0	113	242	
	65.7	1.7	258	87	11.7	0.3	151	46	3.4	0.1	213	239	
	63.9	1.8	290	174	10.3	0.3	153	199	1.8	0.0	220	276	
	Pacific ocean perch	389,412.4	0.7	251	209	5,137.2	0.6	276	193	914.2	0.2	164	270
		334,948.4	0.6	219	2	4,850.8	0.6	233	69	914.0	0.2	173	253
223,732.3		0.7	227	7	4,457.1	0.5	120	24	755.4	0.3	95	5	
163,751.2		0.6	267	264	4,227.2	0.5	180	261	721.0	0.6	157	89	
150,415.4		1.0	318	255	3,711.7	0.7	226	227	714.2	0.2	194	237	
150,388.3		0.7	140	198	3,686.0	0.6	254	17	452.3	0.7	240	196	
106,080.9		0.7	184	257	3,008.9	0.7	207	208	433.9	1.1	182	178	
88,967.6		0.6	140	180	2,879.1	0.7	263	173	416.5	0.8	182	179	
80,492.1		0.7	190	169	2,861.3	0.7	252	223	369.8	0.6	314	9	
38,884.5		0.3	182	250	2,713.7	0.6	176	104	358.0	0.6	194	86	
26,260.7		0.7	275	259	2,666.4	0.7	183	146	355.3	0.6	246	241	
23,981.9		0.8	220	276	2,175.7	0.3	198	236	311.1	0.3	163	66	
23,635.4		0.8	257	252	2,134.3	0.5	221	238	288.3	0.8	217	187	
16,442.3		0.6	178	197	1,895.4	0.6	249	18	278.4	0.2	213	239	
15,192.6		0.8	163	190	1,894.2	0.3	236	240	277.1	0.5	185	68	
11,585.5		0.6	256	103	1,577.5	0.1	76	67	229.1	0.8	255	47	
10,684.6		0.5	235	3	1,577.1	0.5	96	30	222.0	0.7	412	210	
10,537.1		0.7	222	25	1,405.5	0.8	369	260	206.4	0.7	191	207	
9,729.6		0.7	237	234	1,315.6	0.3	210	275	192.2	0.2	103	8	
9,330.9		0.7	227	232	1,241.0	0.5	175	256	164.3	0.7	229	188	
8,038.4		0.7	167	88	1,129.3	0.4	115	44	114.9	0.6	88	26	
5,893.7		0.7	291	258	1,120.5	1.1	180	113	102.7	0.7	280	167	
5,336.3		0.6	281	145	954.4	0.6	208	22	97.7	0.7	290	174	

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

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Pacific ocean perch	85.1	0.1	131	192	32.0	0.3	153	199	13.8	0.4	125	10
	81.3	0.7	87	19	28.2	0.0	91	182	11.2	0.2	113	58
	62.1	0.7	273	195	27.8	0.0	96	202	9.9	0.2	240	172
	58.3	0.1	83	13	25.9	0.7	413	251	5.7	0.1	112	200
	53.6	0.3	137	185	25.6	0.3	119	64	4.7	0.1	144	273
	51.7	0.4	119	80	25.0	0.7	227	189	3.8	0.1	189	233
	43.8	0.4	55	105	23.9	0.6	362	102	3.1	0.0	95	150
	42.6	0.5	180	16	22.3	0.6	288	231	3.0	0.0	168	248
	40.1	0.4	137	162	22.2	0.3	122	76	2.8	0.1	126	221
	39.8	0.8	231	94	20.6	0.6	473	168	2.2	0.1	180	183
	38.5	0.1	109	274	19.8	0.3	109	4	1.6	0.0	81	11
	36.2	0.9	201	108	15.6	0.1	113	154	1.5	0.0	85	79
	34.4	0.1	189	269	15.2	0.1	85	84	1.5	0.0	206	263
	34.3	0.2	172	77	14.4	0.4	433	23	1.5	0.0	121	164
									0.1	0.0	122	165
Dusky rockfish sp.	332,718.2	1.6	140	180	1,048.8	1.6	157	89	196.9	1.5	176	104
	38,582.8	1.8	135	222	913.3	1.1	76	67	184.2	1.4	235	3
	19,424.2	1.6	167	88	559.4	1.7	227	232	168.1	1.7	109	4
	13,403.7	1.5	137	162	471.5	1.2	144	127	154.9	1.3	256	103
	9,706.9	1.3	105	51	462.7	1.3	96	30	148.8	1.3	220	276
	8,982.0	1.8	194	237	442.6	0.4	79	107	145.3	1.2	163	190
	7,135.4	0.7	52	120	406.5	1.8	140	198	140.5	1.1	117	78
	4,662.3	1.5	251	209	388.4	1.4	281	145	139.1	1.2	130	194
	2,533.3	1.3	112	200	334.9	0.9	73	43	122.7	1.0	103	8
	2,254.2	1.3	115	44	268.5	1.1	194	86	76.5	0.7	83	13
	2,241.5	1.4	113	154	258.5	1.2	222	25	27.4	0.3	190	121
	2,113.0	1.3	153	199	239.5	1.1	123	111	17.6	0.2	86	36
	1,309.2	1.4	180	113	218.7	1.8	210	275				
	1,294.0	1.7	120	24	201.1	1.7	226	227				



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Northern rockfish	25,855.7	1.0	167	88	283.7	0.7	251	209	71.9	0.3	79	107
	17,256.2	1.1	115	44	261.2	1.0	163	66	63.5	0.6	276	193
	15,910.0	1.0	140	180	260.8	0.2	62	15	60.3	0.7	233	69
	8,861.8	0.9	113	154	207.5	0.9	240	172	55.5	1.3	119	64
	7,881.5	1.0	96	30	197.8	0.7	183	146	54.1	0.7	237	234
	6,939.3	0.9	157	89	187.2	0.8	55	105	43.4	0.6	194	237
	5,010.6	1.0	176	104	176.7	0.8	227	7	40.1	0.4	83	13
	2,139.0	1.0	109	4	154.1	0.9	105	51	38.0	0.6	208	22
	2,107.3	0.4	76	67	148.9	0.7	227	232	35.2	0.8	119	80
	2,081.0	0.8	153	199	119.4	0.6	185	68	29.9	0.8	129	52
	1,816.9	0.7	95	5	99.1	0.5	96	202	29.1	0.6	83	35
	1,584.5	0.9	112	200	97.9	0.7	140	198	28.7	0.3	81	11
	1,073.0	1.0	140	95	90.1	0.6	256	103	9.8	0.2	129	117
	874.9	0.7	103	8	85.9	0.7	73	43	1.1	0.0	100	141
	770.2	0.7	120	24	85.2	0.7	180	16	1.1	0.0	52	120
	491.3	0.9	141	171	83.8	0.7	252	223				
	Shortraker rockfish	5,999.1	9.1	257	252	565.6	2.1	362	102	168.4	4.2	318
2,076.2		3.7	323	45	514.8	5.2	257	230	124.3	3.2	151	46
2,058.9		3.9	413	251	416.2	12.5	365	277	104.9	2.7	451	92
1,435.4		5.4	288	231	408.6	2.2	396	65	104.6	2.9	173	211
1,353.7		2.0	415	144	359.1	2.9	427	166	100.5	2.8	222	25
1,324.0		2.1	366	93	284.5	2.4	280	167	93.7	2.6	433	23
1,017.8		1.6	325	1	271.3	1.9	366	170	63.2	1.8	473	168
735.9		2.7	371	153	226.4	3.0	314	9	36.8	1.1	412	210

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Sharpchin rockfish	56,107.7	0.3	220	276	724.5	0.3	236	240	44.7	0.2	131	192	
	54,854.2	0.3	201	268	372.8	0.3	221	238	35.9	0.7	120	24	
	6,330.9	0.3	227	232	367.4	0.2	184	257	14.2	0.2	112	200	
	5,106.1	0.4	198	236	197.9	0.1	189	269	11.5	0.2	153	199	
	4,075.4	0.3	275	259	128.8	0.2	175	256	11.5	0.3	252	223	
	3,663.7	0.3	194	237	127.3	0.2	213	239	11.1	0.3	159	186	
	3,202.6	0.2	182	250	115.7	0.3	210	275	8.2	0.2	226	227	
	2,896.7	0.4	237	234	115.2	0.1	180	261	7.8	0.2	276	193	
	2,193.0	0.3	257	252	111.3	0.6	95	5	4.7	0.1	168	248	
	1,167.4	0.3	140	180	76.7	0.3	178	197	1.5	0.0	144	273	
									1.3	0.0	109	274	
	Shortraker rockfish	5,999.1	9.1	257	252	565.6	2.1	362	102	168.4	4.2	318	255
		2,076.2	3.7	323	45	514.8	5.2	257	230	124.3	3.2	151	46
2,058.9		3.9	413	251	416.2	12.5	365	277	104.9	2.7	451	92	
1,435.4		5.4	288	231	408.6	2.2	396	65	104.6	2.9	173	211	
1,353.7		2.0	415	144	359.1	2.9	427	166	100.5	2.8	222	25	
1,324.0		2.2	366	93	284.5	2.4	280	167	93.7	2.6	433	23	
1,017.8		1.6	325	1	271.3	1.9	366	170	63.2	1.8	473	168	
735.9		2.7	371	153	226.4	3.0	314	9	36.8	1.1	412	210	
Yelloweye rockfish	929.8	3.3	112	200	172.9	4.4	167	88	110.0	3.1	131	192	
	522.0	3.6	201	268	165.4	4.5	135	222	27.0	0.7	96	30	
	191.1	2.2	115	44	138.4	3.0	140	180					
Redstripe rockfish	5,462.2	0.5	201	268	37.5	0.5	189	269	1.6	0.0	144	273	
	4,715.0	0.5	210	275	35.7	1.0	227	232					
	1,339.9	0.5	220	276	4.9	0.1	76	67					

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Harlequin rockfish	2,939.3	0.4	140	180	60.1	0.2	182	250	11.7	0.2	291	258	
	2,192.8	0.2	201	268	57.6	0.4	157	89	11.5	0.1	144	273	
	729.9	0.1	96	202	49.4	0.2	220	276	10.4	0.3	252	223	
	518.8	0.3	194	237	29.1	0.7	163	190	8.9	0.2	113	154	
	495.1	0.4	115	44	25.0	0.3	207	208	8.3	0.2	91	182	
	283.0	0.3	135	222	22.0	0.2	85	149	5.3	0.1	140	198	
	257.9	0.2	198	236	19.0	0.2	276	193	3.9	0.1	365	277	
	190.8	0.2	131	192	17.3	0.4	256	103	3.9	0.1	189	269	
	117.2	0.5	176	104	16.7	0.5	184	257	1.9	0.1	76	67	
	116.5	0.3	227	232	13.9	0.3	163	57					
	90.4	0.3	167	88	13.0	0.1	109	274					
	Yellowmouth rockfish	1,043.1	0.5	201	268	88.6	0.6	220	276				
	Sharks unidentified	28,667.5	170.0	165	119	968.5	1.3	151	272	348.2	2.0	66	204
7,852.9		2.4	412	210	949.4	6.0	137	212	338.9	1.2	164	270	
5,403.5		39.2	279	110	899.2	2.9	208	215	328.2	1.1	76	228	
4,260.5		26.7	129	117	810.9	1.8	90	243	295.5	1.5	291	258	
2,414.6		14.3	144	126	703.5	2.4	207	203	250.6	1.7	175	256	
1,854.7		2.5	20	245	627.6	2.0	111	206	243.2	1.8	240	196	
1,637.6		1.8	115	205	580.9	1.3	157	244	218.7	1.5	107	21	
1,597.7		1.9	173	253	503.9	3.1	87	19	191.2	1.4	109	219	
1,393.5		3.1	140	198	470.3	1.7	208	22	190.9	1.3	182	250	
1,273.1		2.7	112	201	395.5	1.2	163	190	187.8	1.3	153	199	
1,120.1		1.6	45	226	371.6	2.2	129	184	150.0	1.1	206	263	

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Skates unidentified	14,717.7	6.9	138	100	2,077.4	13.7	86	136	352.3	2.2	149	101
	11,288.0	14.2	67	159	2,027.8	13.1	139	90	321.4	2.1	112	98
	10,946.6	33.6	70	73	2,009.5	11.3	117	118	290.8	0.9	208	215
	9,463.1	20.6	64	156	1,966.4	6.4	163	66	289.0	2.1	191	207
	8,634.8	12.4	157	89	1,914.7	4.0	137	212	254.4	1.8	290	174
	8,442.6	51.4	73	14	1,836.5	12.8	180	183	223.6	1.3	240	172
	7,175.4	48.4	88	26	1,735.9	12.2	153	199	183.5	1.2	451	92
	6,796.2	17.5	37	50	1,723.3	10.8	129	117	137.9	0.9	237	234
	5,941.4	8.7	109	219	1,708.0	12.8	52	120	135.5	0.4	252	223
	5,807.3	4.8	365	277	1,675.8	12.2	131	213	121.5	0.3	137	224
	5,690.3	16.9	144	126	1,611.3	11.0	140	95	98.5	0.7	246	241
	5,655.0	14.9	112	200	1,593.4	2.6	226	227	90.9	0.7	257	230
	5,325.5	9.4	282	112	1,524.9	1.2	258	87	29.3	0.0	194	86
	5,216.2	30.7	144	127	1,433.7	3.0	213	239	28.4	0.2	99	225
	4,867.5	4.4	45	226	1,332.2	8.6	85	79	16.7	0.1	103	8
	4,705.2	6.4	207	203	1,331.1	8.1	91	182	14.9	0.0	221	238
	4,487.4	7.2	111	206	1,313.8	7.7	73	43	12.6	0.0	257	252
	4,289.3	3.9	256	109	1,297.1	7.0	76	181	11.8	0.0	194	237
	4,159.0	6.8	145	131	1,284.3	6.8	20	245	6.9	0.0	70	229
	3,824.2	24.0	55	105	1,271.4	8.2	178	197	6.9	0.1	325	1
	3,759.2	9.4	101	157	1,209.1	8.4	173	253	4.0	0.0	137	185
	3,703.5	5.3	53	123	1,158.7	6.0	137	162	3.7	0.0	70	49
	3,613.8	9.7	28	81	1,142.6	6.4	133	152	2.8	0.0	227	232
	3,439.4	4.5	227	189	1,131.0	2.4	77	249	0.9	0.0	369	260
	3,290.5	7.5	172	77	1,113.8	1.8	413	251				
	2,964.7	6.7	188	60	1,063.4	2.7	263	173				
	2,754.8	8.7	135	115	1,048.1	6.9	90	243				
	2,738.4	2.5	279	110	1,037.0	1.8	173	211				
	2,658.0	5.6	126	221	953.3	6.4	157	244				
	2,603.6	1.9	115	205	926.7	6.5	206	263				
	2,497.8	0.9	201	108	925.0	3.5	240	196				
	2,420.1	4.0	288	231	776.0	4.8	163	57				
	2,357.3	15.0	167	88	711.9	4.7	141	34				
	2,346.4	15.5	152	158	646.0	3.9	98	83				
	2,230.8	1.9	182	250	593.1	3.6	30	55				
	2,214.1	14.0	76	67	561.5	3.5	318	255				
	2,140.7	6.8	154	125	447.4	2.4	140	180				
	2,119.0	13.0	163	190	380.1	2.3	427	166				

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Northern pink shrimp	616.7	0.0	144	126	32.9	0.0	117	118	1.1	0.0	233	69
	565.3	0.0	154	125	31.3	0.0	92	40	1.1	0.0	282	112
	497.3	0.0	135	115	27.4	0.0	126	221	1.0	0.0	194	237
	475.4	0.0	45	226	25.7	0.0	98	83	1.0	0.0	142	191
	391.5	0.0	77	249	24.4	0.0	198	236	0.7	0.0	70	229
	274.4	0.0	109	219	23.3	0.0	180	113	0.7	0.0	221	238
	216.4	0.0	152	158	21.9	0.0	163	66	0.5	0.0	227	232
	174.4	0.0	165	119	20.2	0.0	194	86	0.2	0.0	194	85
	153.2	0.0	111	206	17.5	0.0	101	157	0.2	0.0	210	275
	146.4	0.0	113	242	17.5	0.0	226	227	0.2	0.0	151	272
	134.6	0.0	163	57	13.5	0.0	178	197	0.2	0.0	98	72
	125.7	0.0	137	212	12.1	0.0	115	205	0.2	0.0	288	231
	125.6	0.0	173	211	8.6	0.0	189	233	0.1	0.0	163	56
	116.1	0.0	188	60	8.6	0.0	108	116	0.1	0.0	365	277
	105.5	0.0	124	132	7.4	0.0	279	110				
	103.2	0.0	217	187	7.4	0.0	180	183				
	91.8	0.0	131	213	6.8	0.0	70	73				
	87.1	0.0	246	114	6.7	0.0	151	46				
	84.6	0.0	172	77	6.7	0.0	208	215				
	80.6	0.0	246	241	6.4	0.0	290	174				
	75.5	0.0	137	185	4.9	0.0	182	179				
	75.2	0.0	144	273	3.9	0.0	137	224				
	67.5	0.0	169	74	3.6	0.0	124	267				
	59.7	0.0	163	190	3.6	0.0	122	76				
	58.5	0.0	231	94	3.2	0.0	135	222				
	57.4	0.0	157	244	2.5	0.0	96	220				
	48.6	0.0	153	216	2.2	0.0	137	162				
	45.1	0.0	229	188	2.1	0.0	206	263				
	44.7	0.0	170	59	2.1	0.0	227	96				
	41.2	0.0	129	117	1.9	0.0	173	253				
	41.1	0.0	141	34	1.7	0.0	236	240				
	40.2	0.0	168	248	1.6	0.0	207	203				
	39.4	0.0	256	109	1.6	0.0	227	189				
	37.6	0.0	207	208	1.5	0.0	258	87				
	35.1	0.0	191	207	1.5	0.0	182	250				
	34.2	0.0	201	108	1.5	0.0	257	230				
	34.0	0.0	240	172	1.3	0.0	190	121				
	33.5	0.0	159	186	1.2	0.0	113	58				

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Spot prawn	263.2	0.1	257	252	22.2	0.1	210	275	6.8	0.1	175	256
	195.5	0.1	275	259	20.4	0.1	194	237	5.6	0.1	180	261
	111.0	0.1	189	269	17.7	0.1	198	236	4.6	0.1	221	238
	89.2	0.1	220	276	15.7	0.1	109	274	2.1	0.0	144	126
	45.7	0.1	201	268	13.9	0.0	96	202	2.0	0.1	227	232
Humpy shrimp	0.8	0.0	144	126								
Coonstripe shrimp	21.3	0.0	62	15	0.7	0.0	77	249	0.2	0.0	98	83
	4.4	0.0	45	226								
Sidestripe shrimp	231.5	0.0	256	109	32.5	0.0	257	230	3.9	0.0	111	206
	173.5	0.0	231	94	30.9	0.0	191	207	3.7	0.0	180	113
	143.5	0.0	279	110	24.2	0.0	165	119	3.6	0.0	237	234
	102.4	0.0	246	114	21.1	0.0	258	87	3.3	0.0	323	45
	94.4	0.0	229	188	19.6	0.0	240	196	3.2	0.0	159	186
	87.4	0.0	252	223	18.2	0.0	226	227	2.8	0.0	194	85
	86.8	0.0	208	215	15.1	0.0	137	212	2.8	0.0	371	153
	85.4	0.0	282	112	14.5	0.0	157	244	2.5	0.0	415	144
	82.1	0.0	227	189	14.1	0.0	189	233	2.3	0.0	281	145
	77.6	0.0	201	108	12.9	0.0	180	183	2.3	0.0	273	195
	75.8	0.0	154	125	12.9	0.0	280	167	2.2	0.0	255	47
	74.3	0.0	227	96	11.7	0.0	246	241	1.3	0.0	291	258
	64.9	0.0	45	226	10.4	0.0	129	117	1.3	0.0	182	250
	61.5	0.0	217	187	9.5	0.0	276	193	1.1	0.0	256	103
	52.9	0.0	173	211	9.2	0.0	188	60	1.0	0.0	137	224
	50.1	0.0	207	203	6.4	0.0	194	86	0.9	0.0	365	277
	48.8	0.0	240	172	6.1	0.0	190	121	0.8	0.0	70	229
	48.2	0.0	135	115	5.7	0.0	170	59	0.7	0.0	227	232
	45.6	0.0	290	174	5.4	0.0	152	158	0.5	0.0	113	242
	39.2	0.0	153	216	4.1	0.0	233	69	0.4	0.0	169	74
	39.1	0.0	288	231	4.0	0.0	207	208	0.4	0.0	109	219

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Sidestripe shrimp	0.3	0.0	163	57								
	0.3	0.0	163	56								
Broad tanner crab	561.4	0.2	144	126	3.7	0.0	188	60	1.1	0.0	109	219
	323.8	0.0	70	73	3.6	0.0	159	186	0.9	0.0	201	108
	46.2	0.0	169	74	3.2	0.1	131	213	0.9	0.0	171	175
	28.4	0.4	282	112	3.2	0.0	98	83	0.6	0.0	180	183
	24.3	0.1	62	15	2.6	0.0	163	57	0.6	0.0	163	56
	23.5	0.5	124	132	2.4	0.0	124	53	0.6	0.0	71	39
	20.3	0.0	92	40	2.2	0.0	226	227	0.4	0.0	144	127
	18.9	0.1	113	58	2.1	0.0	170	59	0.3	0.0	117	78
	9.3	0.1	58	75	1.6	0.0	111	206	0.3	0.0	208	215
	7.2	0.0	135	115	1.5	0.0	115	205	0.3	0.0	157	244
	6.3	0.2	86	36	1.4	0.0	154	125	0.3	0.0	137	224
	6.1	0.2	152	158	1.4	0.0	141	34	0.2	0.0	90	243
	5.4	0.0	137	212	1.4	0.0	129	117	0.2	0.0	70	229
	4.4	0.0	77	54	1.3	0.0	141	177	0.2	0.0	37	50
	4.2	0.0	173	211	1.2	0.0	151	46	0.1	0.0	30	55
4.0	0.0	156	134	1.1	0.0	77	217	0.1	0.0	163	66	
Golden king crab	76.3	1.1	412	210								
Red king crab	136.0	1.6	235	3	77.7	1.9	255	47	54.9	1.2	323	45
Chlamys rubida	11.7	0.0	85	161	2.9	0.0	96	155	0.6	0.0	106	6
	8.7	0.0	95	150	2.9	0.0	83	35	0.5	0.0	81	11
	4.1	0.0	85	262	2.0	0.0	76	181	0.5	0.0	124	267
	3.6	0.1	67	159	1.7	0.0	137	162	0.3	0.0	115	44
	3.5	0.0	62	15	1.4	0.0	96	30	0.1	0.0	89	33
	3.3	0.0	109	4	1.0	0.0	120	24				
	3.0	0.0	74	32	0.8	0.0	86	36				

Species catch distribution and abundance during the NMFS 1996 triennial Gulf of Alaska bottom trawl survey by the F/V Dominator.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Weathervane scallop	1,155.7	0.3	198	236	49.4	0.2	65	235	11.5	0.2	126	221
	294.4	0.2	99	225	19.1	0.1	135	222	7.3	0.2	226	227
	233.1	0.1	90	243	18.8	0.2	96	220	6.3	0.2	76	228
	90.6	0.1	109	219	17.2	0.2	70	229	5.2	0.1	194	237
	66.2	0.1	115	205	11.9	0.2	67	159	3.2	0.1	157	244
Octopus unidentified	107.2	2.8	64	156	6.7	0.2	257	252	0.8	0.0	240	196
	64.1	1.4	62	15	4.1	0.1	140	198	0.6	0.0	237	234
	34.7	0.8	115	44	1.3	0.0	288	231	0.2	0.0	221	238
	31.3	0.4	453	91	1.1	0.0	213	239				
	6.9	0.2	76	228	1.0	0.0	139	90				
Red squid	596.3	0.2	314	9	79.2	0.2	413	251	22.8	0.6	226	227
	341.3	0.3	366	93	76.8	0.2	323	45	20.1	0.5	318	255
	288.0	0.2	280	167	51.9	0.2	208	22	18.2	0.4	273	195
	226.3	0.2	362	102	49.1	1.0	231	94	17.9	0.1	415	144
	216.2	0.9	279	110	48.3	0.1	113	154	15.1	0.4	76	67
	206.1	0.4	366	170	47.4	0.3	256	109	13.5	0.1	135	115
	204.6	0.1	371	153	47.2	1.4	412	210	13.0	0.3	120	24
	134.2	0.4	282	112	45.9	0.2	254	17	12.1	0.2	256	103
	128.5	0.2	396	65	43.8	0.1	365	277	10.6	0.3	227	7
	127.5	1.7	258	87	40.8	0.2	141	171	8.8	0.1	257	252
	127.5	0.3	246	114	39.2	0.5	275	259	8.3	0.2	176	104
	91.2	0.6	201	108	38.6	0.2	163	66	7.5	0.2	255	47
	90.5	0.1	288	231	38.3	0.2	180	16	6.2	0.1	263	173
	87.2	0.2	222	25	36.5	0.4	468	48	4.6	0.1	64	156
	85.9	0.2	473	168	32.7	0.3	451	92	4.1	0.1	191	207
	82.5	0.6	291	258	31.3	0.2	249	18	1.4	0.0	190	121
	79.3	0.1	290	174	30.4	0.8	220	276	1.4	0.0	240	196
	79.3	0.7	433	23	30.1	0.4	369	260				



## Section 2

### Fishing Log for the F/V Golden Dawn

- Station charts of haul numbers plotted adjacent to their respective geographical positions

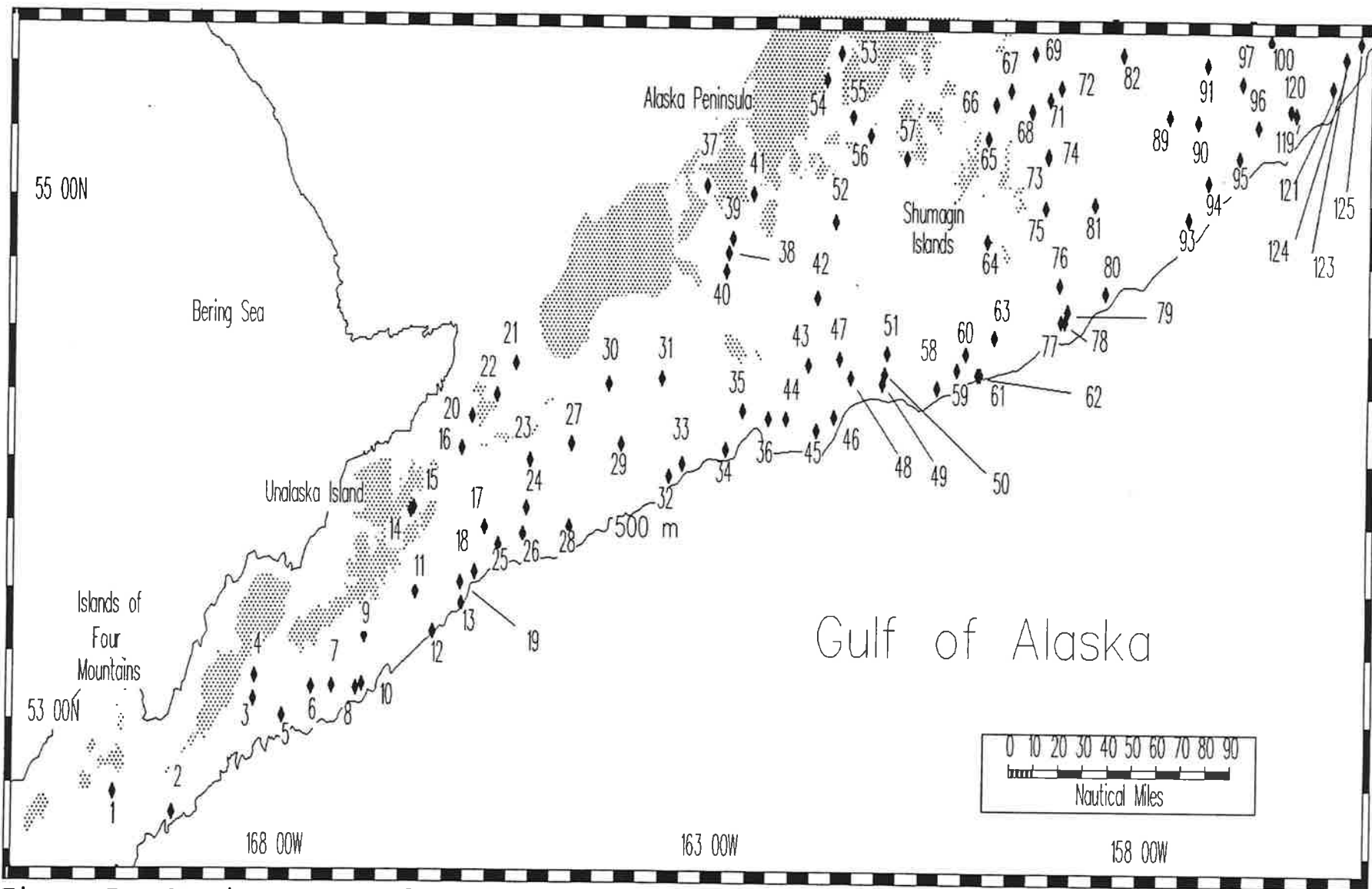


Figure 7.--Stations surveyed by the chartered trawler F/V Golden Dawn from the Islands of Four Mountains to the Shumagin Islands area (hauls 1-69, 71-82, 89-91, 93-97, 100, 119-121, 123-125).

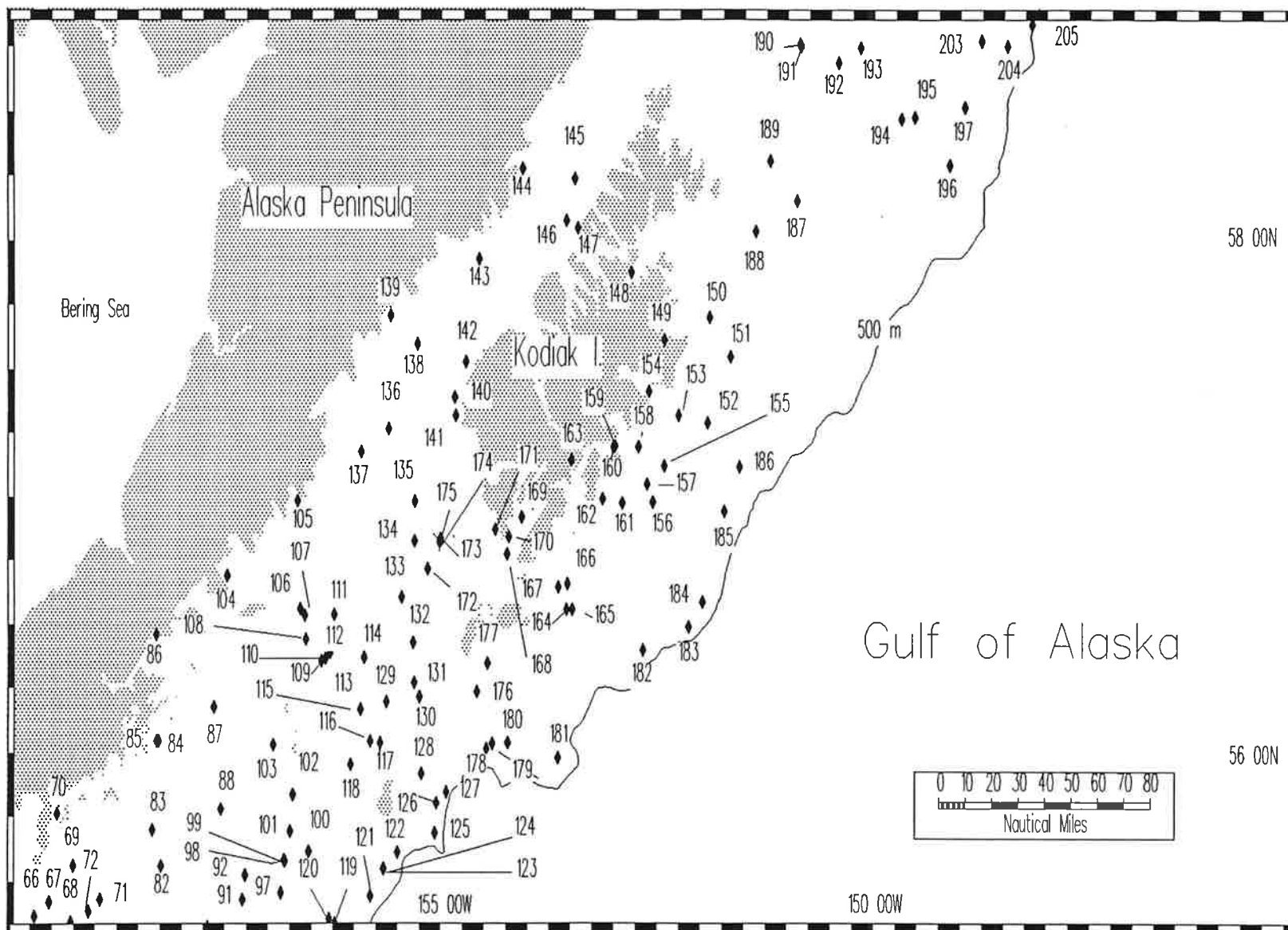


Figure 8.--Stations surveyed by the chartered trawler F/V Golden Dawn in the Kodiak Island area (hauls 66-72, 82-88, 91, 92, 97-197, 203-205).

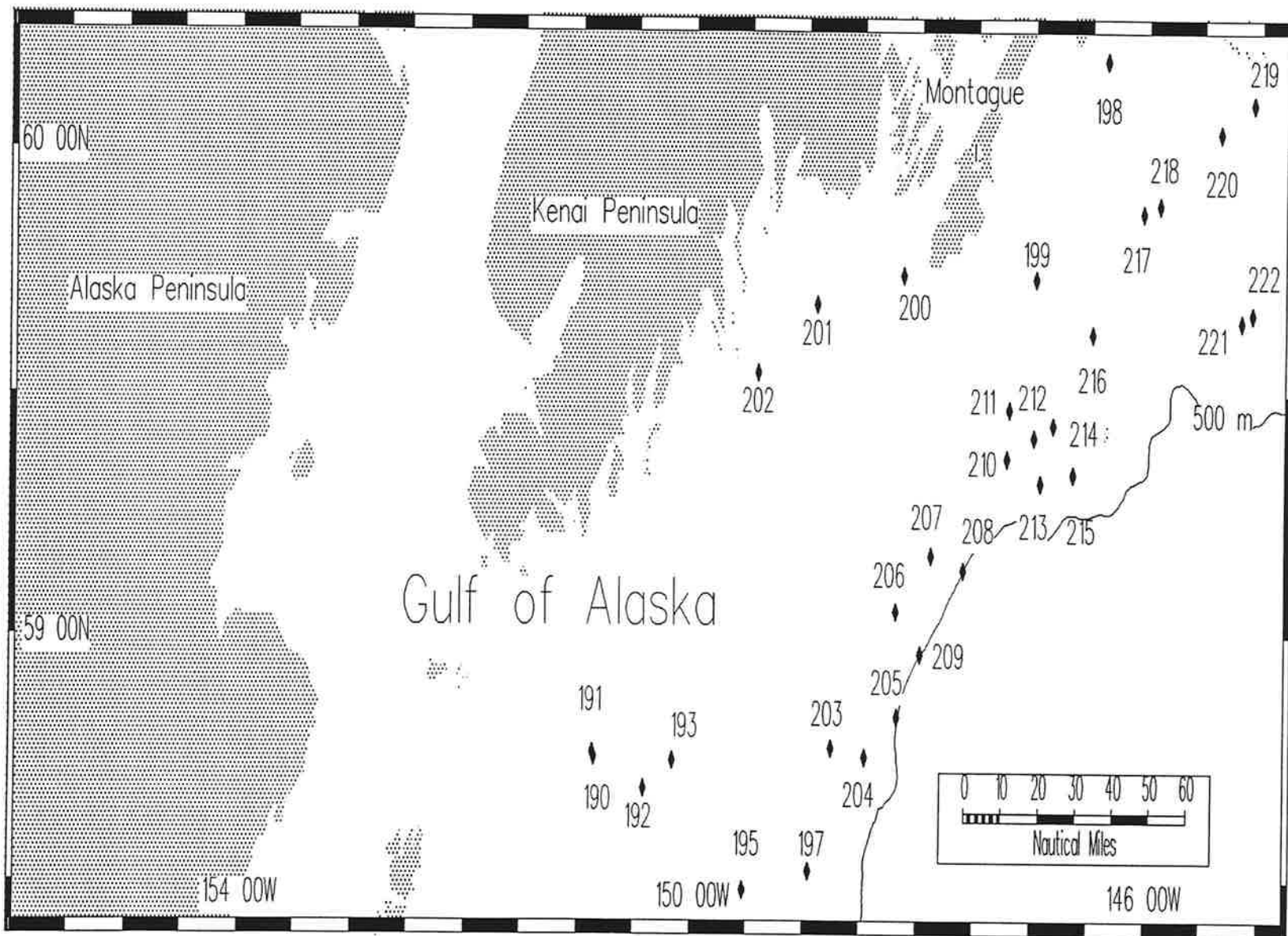


Figure 9.--Stations surveyed by the chartered trawler F/V Golden Dawn from the Alaska Peninsula to Montague Island (hauls 190-193, 195, 197-222).

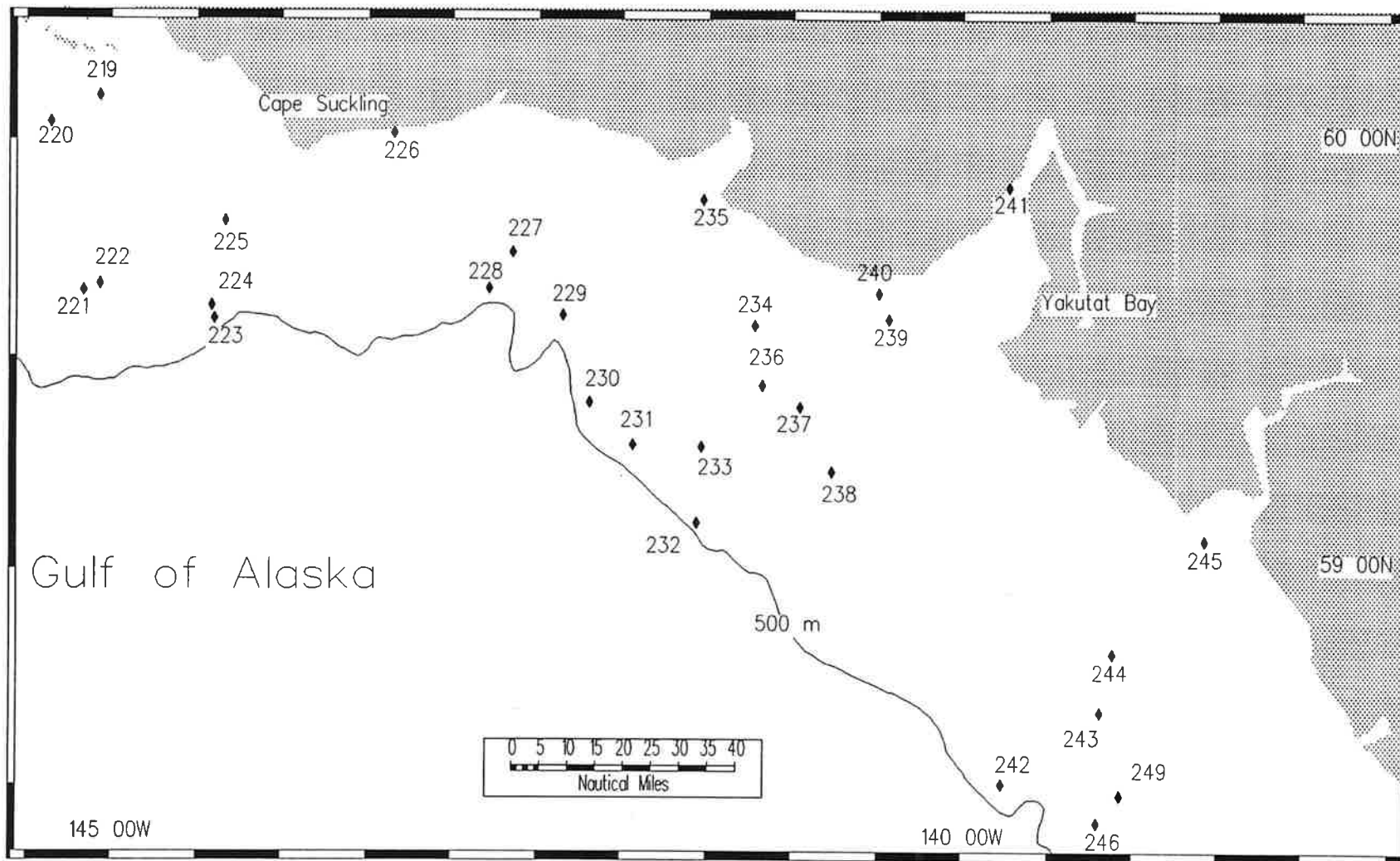


Figure 10.--Stations surveyed by the chartered trawler F/V Golden Dawn from Cape Suckling to Yakutat Bay (hauls 219-246, 249).

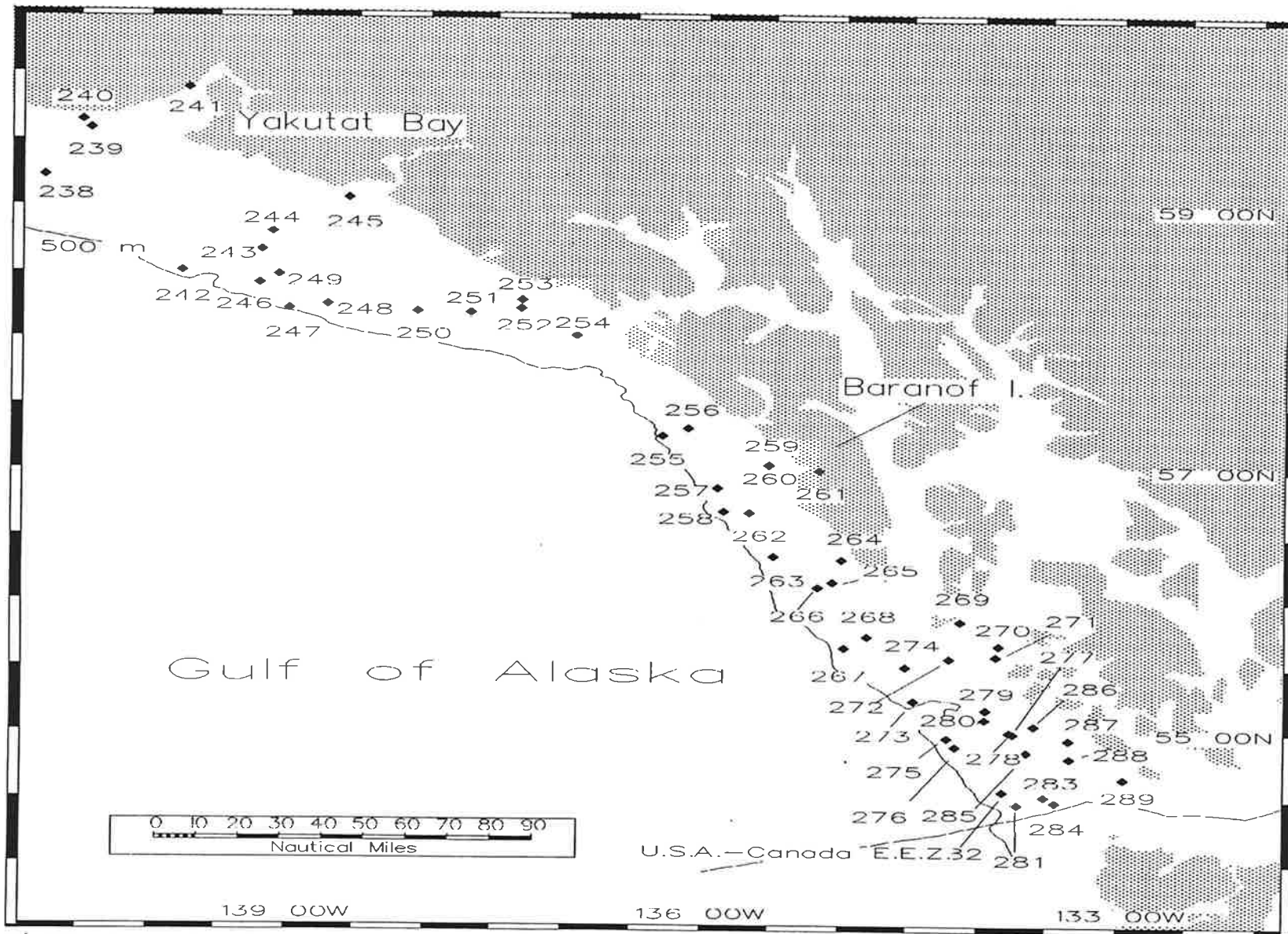


Figure 11.--Stations surveyed by the chartered trawler F/V Golden Dawn from Yakutat Bay to Dixon Entrance (hauls 238-289).

## Section 2 (continued)

### Fishing Log for the F/V Golden Dawn

- Summary listings of species catches by haul
  - Haul start latitude and longitude
  - Bottom depth in meters
  - Duration of tow in hundredths of an hour
  - Distance fished in nautical miles
  - Catch weight in kilograms of principal species
  - Total catch weight in kilograms of all species

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Start date & time	05/22/96	05/22/96	05/22/96	05/23/96	05/23/96	05/23/96	05/23/96	05/23/96	05/24/96	05/24/96	05/24/96	05/24/96	05/24/96	05/25/96
Start latitude	5242.94	5238.31	5304.36	5309.68	5300.64	5307.16	5307.40	5307.00	5319.03	5307.89	5329.38	5320.07	5326.66	5348.58
Start longitude	16948.92	16908.02	16812.22	16811.63	16752.47	16732.42	16717.97	16701.17	16655.51	16657.21	16620.37	16608.16	16548.46	16621.70
End latitude	5242.08	5238.55	5304.14	5308.73	5300.04	5306.95	5307.29	5306.64	5318.70	5308.08	5329.36	5320.56	5326.83	5349.25
End longitude	16949.79	16906.65	16810.66	16812.04	16751.36	16731.06	16717.05	16659.94	16654.17	16655.93	16619.00	16607.12	16547.04	16620.30
Gear depth (m)	148.00	126.00	107.00	71.00	103.00	98.00	113.00	238.00	99.00	251.00	112.00	410.00	415.00	188.00
Duration (h)	0.28	0.30	0.31	0.31	0.32	0.29	0.20	0.28	0.29	0.30	0.30	0.27	0.30	0.40
Distance fished (nm)	1.88	1.66	1.83	1.85	1.75	1.64	1.08	1.54	1.62	1.51	1.54	1.47	1.60	2.07
Performance	0	2	0	0	0	0	7	0	0	0	7	0	0	5
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	2.10	2.10	0.80	4.50	1.00	0.00	14.12	12.10	1.80	4.20	0.03	16.60	0.60	7.50
Pacific cod	7.00	26.60	31.00	62.10	273.90	48.20	89.80	0.00	21.50	0.00	35.30	0.00	0.00	35.10
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	2.20	0.00	8.90	6.20	0.00
Arrowtooth flounder	0.00	1.98	37.29	12.81	5.30	0.00	0.83	6.70	44.20	16.80	52.40	0.00	4.80	107.80
Pacific halibut	50.65	71.41	40.10	10.20	28.20	25.68	18.68	3.24	40.86	0.00	87.03	0.00	0.00	4.29
Flathead sole	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	34.40
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
Rex sole	0.00	0.00	8.90	0.00	0.00	0.00	0.00	5.60	0.00	8.80	0.18	2.25	0.00	0.26
Rock sole species	0.00	37.64	66.60	257.70	214.50	239.10	111.90	0.00	117.90	0.00	92.10	0.00	0.00	1.53
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	3.20	414.66	0.53	0.00	0.00	0.00	9.30	68.90	0.00	197.98	16.04	0.00	0.58	1.15
Rougheye rockfish	1.50	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	5.60	1.59	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.50	0.00	29.40	0.55	24.30	9.90	0.00
Northern rockfish	30.30	208.10	0.00	0.00	0.00	0.00	4.50	2.90	0.00	1.52	3.36	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30	2.00	0.00
Dusky rockfish specie	0.00	141.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	94.40	0.80	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
Atka Mackerel	13.30	4.30	0.00	0.00	1.03	4.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	11.85	6.21	70.40	12.49	0.00	0.00	3.58	27.56	2.24	0.59	0.00	0.00	0.00	0.00
Skates	0.00	0.00	79.60	359.60	0.00	0.00	0.00	2.92	0.00	2.22	0.00	1.22	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	2.70	0.00	0.40	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70	0.00	5.36	0.62	4.94	2.08	1.06
Grand total	453.33	2320.00	190.92	270.46	382.31	158.81	215.84	135.74	171.15	275.58	274.51	379.98	477.59	197.32



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Start date & time	05/25/96	05/25/96	05/25/96	05/25/96	05/25/96	05/26/96	05/26/96	05/26/96	05/26/96	05/26/96	05/27/96	05/27/96	05/29/96	05/29/96
Start latitude	5347.91	5402.34	5344.07	5333.95	5331.47	5409.80	5422.04	5414.69	5359.73	5348.51	5340.22	5342.56	5403.61	5344.35
Start longitude	16623.56	16548.92	16532.55	16539.50	16549.31	16542.00	16512.36	16525.16	16501.70	16503.99	16523.18	16506.19	16432.94	16433.81
End latitude	5348.42	5401.84	5343.40	5333.53	5331.76	5410.81	5421.29	5414.98	5359.72	5349.22	5340.88	5343.20	5403.54	5343.48
End longitude	16622.54	16547.59	16533.66	16540.82	16547.92	16542.59	16512.05	16523.75	16503.06	16503.05	16524.08	16507.24	16434.44	16433.71
Gear depth (m)	249.00	75.00	89.00	134.00	125.00	84.00	163.00	108.00	78.00	135.00	208.00	259.00	95.00	130.00
Duration (h)	0.27	0.29	0.31	0.29	0.29	0.29	0.27	0.28	0.27	0.30	0.28	0.29	0.28	0.27
Distance fished (nm)	1.47	1.75	1.77	1.66	1.63	1.89	1.45	1.64	1.50	1.71	1.58	1.71	1.65	1.62
Performance	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	12.60	0.00	2.40	22.40	128.20	11.40	0.00	0.13	0.00	11.44	6.70	6.50	84.70	58.00
Pacific cod	53.40	24.80	137.69	256.10	76.60	50.10	2.57	547.79	0.00	42.70	9.10	0.00	188.42	26.10
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.30	0.00	0.00
Arrowtooth flounder	382.70	5.90	13.70	42.10	57.40	13.80	395.70	2.60	0.00	67.30	28.70	38.10	35.75	48.70
Pacific halibut	17.60	166.42	40.35	6.68	3.10	26.32	9.69	17.20	14.70	36.30	0.00	0.00	17.08	0.00
Flathead sole	56.80	0.00	0.00	0.00	0.00	0.74	95.25	0.00	0.00	0.60	2.34	0.90	0.93	0.17
Dover sole	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	0.11	0.00	0.00	0.50	0.09	0.00	8.70	0.00	0.00	55.70	6.50	8.60	0.71	5.32
Rock sole species	1.92	970.80	144.60	0.00	10.17	101.40	50.84	556.80	45.30	2.38	0.00	0.00	148.74	69.60
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.35	0.00	1.83	719.90	37.04	1.98	3.60	0.09	0.00	0.00	18.50	11.70	0.00	0.00
Rougheye rockfish	1.33	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.60	11.00	0.00	0.00
Northern rockfish	0.00	0.00	45.50	37.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	26.40	3.45	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	17.60	2.30	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	2.58	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	11.20	15.20	8.67	0.10	0.22	107.40	37.20	106.27	14.00	0.00	0.00	0.93	4.16	0.09
Skates	0.00	633.20	0.70	1.02	0.00	0.00	0.00	0.00	0.00	0.72	0.25	0.17	0.00	0.00
Sharks	0.00	0.00	0.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	2.25	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Sidestripe shrimp	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
Scallops	0.00	0.00	0.23	0.34	2.69	0.81	0.28	8.53	0.96	1.72	0.51	0.00	0.00	0.48
Red squid	0.00	0.00	0.43	0.64	0.69	0.00	0.00	0.00	0.00	0.00	1.87	11.70	0.00	0.21
Grand total	536.68	682.82	314.26	1145.57	346.10	177.54	542.47	831.08	46.22	218.06	80.06	106.79	378.98	162.34

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Start date & time	05/29/96	05/29/96	05/29/96	05/30/96	05/30/96	05/30/96	05/30/96	05/30/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	06/01/96
Start latitude	5403.44	5417.29	5418.51	5356.12	5359.09	5402.50	5411.21	5409.53	5503.03	5447.84	5451.17	5443.48	5501.40	5437.56
Start longitude	16358.59	16407.64	16330.77	16325.01	16315.98	16246.19	16234.95	16217.03	16301.31	16245.81	16243.05	16247.09	16229.14	16144.25
End latitude	5403.18	5417.59	5417.57	5356.19	5359.06	5402.11	5410.74	5409.07	5502.14	5447.16	5451.34	5443.52	5501.33	5436.85
End longitude	16357.42	16406.29	16330.50	16323.66	16314.61	16247.60	16236.58	16215.94	16301.39	16245.34	16244.46	16248.61	16227.52	16144.33
Gear depth (m)	70.00	75.00	107.00	88.00	108.00	193.00	78.00	346.00	33.00	61.00	44.00	95.00	64.00	151.00
Duration (h)	0.24	0.28	0.28	0.27	0.27	0.27	0.28	0.29	0.28	0.24	0.28	0.27	0.29	0.27
Distance fished (nm)	1.38	1.59	1.84	1.50	1.51	1.72	2.01	1.47	1.69	1.39	1.60	1.65	1.78	1.34
Performance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.60	37.90	24.00	0.64	300.00	50.10	13.00	1.60	18.40	0.00	0.00	483.70	0.00	176.70
Pacific cod	10.50	5.00	6.00	84.40	127.50	41.80	107.50	0.00	3.60	5.10	6.60	22.10	43.60	96.10
Sablefish	0.00	0.00	0.00	0.00	1.97	2.33	0.00	37.00	0.00	0.00	0.00	0.33	0.00	0.00
Arrowtooth flounder	7.60	17.01	83.60	5.60	386.70	66.40	4.00	50.50	1.30	6.90	0.00	58.60	12.40	133.80
Pacific halibut	15.66	31.94	39.14	5.29	53.94	0.00	118.99	4.90	177.97	3.25	25.97	21.06	43.40	24.92
Flathead sole	5.30	8.50	19.90	0.00	5.50	1.30	0.00	6.00	0.00	12.20	1.00	185.90	36.78	40.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	0.00	0.00	14.00	0.00	93.00	6.70	0.00	12.90	0.00	0.00	0.00	0.00	0.00	0.80
Rock sole species	75.00	145.20	2.02	15.90	93.90	0.00	53.40	0.00	346.80	81.00	92.10	44.10	99.19	7.15
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.90	34.18	0.34	0.00	67.96	0.00
Butter sole	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	2.80	0.00	0.00	44.00	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	40.60	3491.57	0.00	4.40	0.00	0.00	0.00	0.70	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	2.67	0.00	70.40	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	24.30	0.00	63.25	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	29.10	65.30	2.10	0.00	0.00	0.00	0.00	0.00	59.80	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	10.50	0.00	37.90	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	4.05	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	14820.97	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	30.00	0.00	0.00	4.10	6.68	3.18	20.80	0.00	20.00	1.86	32.40	27.20	27.16	0.00
Skates	0.00	0.05	0.00	0.00	0.00	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.03	0.03
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.18	0.13	0.27	0.00	0.34	0.00	0.00	0.00	0.13	0.00	0.47	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	1.19	0.00	1.36	0.33	0.00	0.00	0.00	0.00	0.00
Grand total	73.34	156.34	189.26	14960.77	1118.10	3710.19	280.13	470.37	360.30	91.72	75.62	861.00	261.99	477.57

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	43	44	45	46	47	48	49	50	51	52	53	54	55	56
Start date & time	06/01/96	06/01/96	06/01/96	06/01/96	06/02/96	06/02/96	06/02/96	06/02/96	06/02/96	06/02/96	06/03/96	06/03/96	06/03/96	06/03/96
Start latitude	5421.93	5409.49	5406.75	5409.90	5423.60	5418.99	5417.79	5419.89	5424.93	5455.06	5533.23	5527.38	5518.97	5514.95
Start longitude	16149.91	16204.76	16143.84	16131.70	16128.13	16120.22	16058.12	16056.95	16055.12	16131.86	16129.57	16139.58	16121.05	16108.60
End latitude	5421.22	5409.25	5406.28	5409.28	5422.79	5418.64	5417.30	5419.88	5425.32	5454.94	5532.35	5526.63	5518.96	5514.55
End longitude	16149.39	16205.18	16142.89	16132.03	16128.42	16119.02	16057.14	16055.76	16053.96	16133.51	16130.23	16139.89	16119.69	16107.82
Gear depth (m)	136.00	88.00	111.00	210.00	79.00	116.00	238.00	128.00	110.00	119.00	32.00	69.00	53.00	76.00
Duration (h)	0.27	0.12	0.26	0.19	0.27	0.28	0.29	0.28	0.29	0.29	0.28	0.28	0.28	0.20
Distance fished (nm)	1.46	0.65	1.37	1.22	1.55	1.47	1.41	1.30	1.48	1.79	1.80	1.44	1.45	1.12
Performance	1	7	2	2	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	3.50	0.73	2.00	6.20	0.00	6.33	22.10	0.05	68.00	1.90	0.00	736.90	0.00	8.00
Pacific cod	3.50	5.30	14.20	2.30	0.00	10.70	2.90	2.00	9.00	11.60	141.40	117.20	26.10	46.10
Sablefish	0.00	0.00	0.00	107.60	0.00	135.80	0.00	0.00	0.00	0.00	1.50	0.00	1.91	0.00
Arrowtooth flounder	114.41	4.00	11.60	21.00	0.00	130.10	66.00	48.50	117.70	256.40	0.00	11.30	34.80	85.39
Pacific halibut	26.58	5.80	33.60	0.00	228.38	23.49	9.83	15.02	19.95	12.18	38.91	47.18	61.07	10.91
Flathead sole	19.62	0.00	0.00	0.00	0.45	0.00	7.00	0.00	37.69	415.50	5.20	333.10	24.06	53.31
Dover sole	5.90	0.00	0.00	0.00	0.00	0.00	4.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	24.00	0.00	0.00	7.79	0.00	0.00	20.00	0.50	7.60	1.13	0.00	0.00	0.00	0.00
Rock sole species	5.69	12.30	0.00	0.00	8.10	0.00	0.00	3.90	81.00	3.90	168.00	140.40	183.35	170.70
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	270.50	259.60	277.50	41.60
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42	0.38
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	44.80	172.64	0.00	10.40
Pacific ocean perch	0.00	0.00	35.40	167.20	0.00	4.00	10.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	1.06	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	14.55	0.00	0.00	30.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	1175.54	0.67	0.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shorthead rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	699.93	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	804.07	20.00	4.00	1.96	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	19.40	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
Sculpins	0.00	0.00	1.13	0.82	39.18	2.36	1.49	0.35	0.00	23.30	11.92	33.82	68.91	0.00
Skates	0.00	18.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.60
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.88	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.02	2.68	0.00	0.09	0.04	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.26	0.06	0.00	0.00	0.00	0.00	0.00
Grand total	202.35	86.37	1608.00	341.44	250.64	368.64	184.68	78.63	288.38	706.92	542.66	1620.17	661.88	319.14

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Start date & time	06/03/96	06/04/96	06/04/96	06/04/96	06/04/96	06/04/96	06/04/96	06/04/96	06/07/96	06/07/96	06/07/96	06/07/96	06/07/96	06/07/96
Start latitude	5509.64	5416.89	5421.15	5424.81	5420.02	5419.95	5428.58	5450.74	5514.51	5522.10	5525.31	5520.60	5533.69	5545.87
Start longitude	16043.14	16020.59	16006.95	16000.57	15950.99	15952.51	15941.55	15946.78	15946.69	15941.99	15931.64	15916.93	15915.36	15926.19
End latitude	5509.29	5416.84	5421.19	5424.47	5419.86	5419.96	5428.11	5450.26	5515.21	5521.30	5525.71	5520.08	5533.36	5545.03
End longitude	16041.89	16019.24	16005.71	15959.43	15950.60	15953.78	15941.65	15947.89	15946.66	15941.63	15930.58	15915.76	15914.04	15926.15
Gear depth (m)	59.00	368.00	255.00	135.00	346.00	355.00	129.00	40.00	72.00	129.00	156.00	174.00	92.00	92.00
Duration (h)	0.28	0.32	0.29	0.27	0.11	0.28	0.19	0.29	0.28	0.26	0.28	0.27	0.26	0.28
Distance fished (nm)	1.50	1.58	1.39	1.38	0.52	1.39	0.89	1.51	1.32	1.54	1.36	1.58	1.58	1.57
Performance	0	0	0	0	8	0	2	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	2.60	0.00	15.60	14.70	0.00	0.00	0.91	0.00	6.48	2.84	0.00	9.50	2.92	262.90
Pacific cod	4.40	0.00	8.00	236.70	0.00	0.00	30.00	109.20	3.94	76.10	0.00	3.20	424.40	7.80
Sablefish	0.00	29.20	31.00	0.00	2.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arrowtooth flounder	21.00	1.90	76.00	846.70	21.20	24.00	413.70	11.40	5.20	77.10	152.30	245.20	49.60	110.00
Pacific halibut	41.99	0.00	0.00	51.23	0.00	8.22	46.23	180.22	12.23	22.81	0.00	19.10	37.08	24.90
Flathead sole	29.60	0.00	1.93	0.00	0.00	0.00	0.00	0.00	2.51	41.30	45.00	61.20	1.15	124.20
Dover sole	0.00	6.40	11.00	6.00	27.00	15.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	0.00	4.60	91.50	10.10	0.60	0.32	2.50	0.00	0.23	3.56	0.53	4.95	0.38	1.45
Rock sole species	512.10	0.00	0.00	0.00	0.00	0.00	0.00	388.20	36.36	1.14	0.00	0.00	45.30	1.53
Yellowfin sole	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.50
Butter sole	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	41.60	0.00	0.00	0.00	0.00	0.00	0.00	191.20	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	7.60	0.00	0.50	0.00	5.60	0.00	0.00	0.00	0.00	0.00	196.70	0.00
Rougheye rockfish	0.00	26.90	1.33	0.00	9.80	24.80	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.80
Shortspine thornyhead	0.00	87.50	97.60	0.00	9.00	107.56	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	147.60	0.00	0.00	0.00	0.00	0.00	51.50	0.00
Shortraker rockfish	0.00	17.80	0.00	0.00	11.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	53.54	0.00
Other rockfish	0.00	0.00	5.80	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	35.70	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.25	77.83	0.20	0.00	0.83	0.00	0.00	6.52	6.38	0.60	0.00	0.00	6.04
Skates	0.00	0.00	3.99	7.38	32.00	0.00	0.00	91.60	0.00	0.00	0.00	26.80	0.08	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20	0.50	0.38	0.00	0.36
King crabs	0.00	0.00	0.00	0.00	3.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.27	1.43	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.22	0.07	0.00	0.00	0.00	1.17	0.00
Red squid	0.00	0.47	0.21	0.00	0.22	6.00	4.33	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	320.51	1073.63	366.17	1188.50	145.65	332.99	686.18	517.48	59.12	233.01	206.79	363.28	798.80	561.62

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	71	72	73	74	75	76	77	78	79	80	81	82	83	84
Start date & time	06/08/96	06/08/96	06/08/96	06/08/96	06/08/96	06/08/96	06/09/96	06/09/96	06/09/96	06/09/96	06/09/96	06/10/96	06/10/96	06/10/96
Start latitude	5525.96	5523.23	5510.25	5510.73	5458.55	5440.84	5432.42	5432.41	5434.89	5438.96	5459.44	5533.60	5541.92	5602.74
Start longitude	15856.63	15904.46	15904.97	15905.24	15906.71	15856.44	15855.25	15852.59	15850.89	15824.67	15832.42	15814.57	15820.52	15816.27
End latitude	5525.92	5523.21	5510.04	5510.53	5457.73	5440.96	5432.45	5432.23	5434.66	5438.88	5458.92	5534.20	5542.58	5602.45
End longitude	15857.90	15902.87	15904.48	15903.80	15906.73	15855.25	15854.89	15851.37	15849.66	15823.38	15831.50	15813.39	15819.76	15817.36
Gear depth (m)	155.00	170.00	97.00	109.00	79.00	95.00	213.00	246.00	154.00	308.00	191.00	138.00	124.00	100.00
Duration (h)	0.29	0.28	0.15	0.28	0.27	0.26	0.07	0.27	0.28	0.26	0.26	0.28	0.27	0.27
Distance fished (nm)	1.38	1.68	0.69	1.61	1.56	1.31	0.40	1.38	1.41	1.40	1.38	1.68	1.48	1.61
Performance	0	0	6	0	0	0	7	0	0	0	0	0	0	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	1.45	6.23	0.04	1.62	7.20	7.35	33.10	45.00	0.12	3.24	1.20	4.40	6.40	6.50
Pacific cod	23.10	0.00	13.40	7.70	69.00	7.70	9.40	8.60	240.00	0.00	0.00	0.00	16.90	19.10
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	11.00	31.30	4.30	21.90	0.00	0.00	0.00	0.00
Arrowtooth flounder	94.80	134.60	561.00	669.00	12.00	1.79	10.40	47.40	389.00	67.20	222.90	67.80	37.50	75.30
Pacific halibut	0.00	36.97	17.16	66.24	20.01	0.00	0.00	9.83	44.77	0.00	0.00	27.32	86.94	30.23
Flathead sole	29.70	60.00	4.60	3.20	1.97	0.00	1.05	1.41	1.95	0.00	56.50	66.10	9.70	41.80
Dover sole	0.00	0.00	3.40	5.30	0.00	0.00	1.62	22.30	5.60	10.50	7.30	0.00	0.00	0.00
Rex sole	1.44	3.83	2.50	16.10	0.00	0.00	2.02	9.10	3.90	7.30	26.40	0.25	1.84	0.58
Rock sole species	0.00	0.00	13.50	2.43	207.30	34.57	0.00	1.50	1.50	0.00	0.00	0.00	0.00	18.30
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	5.07	0.25	0.00	0.00	0.00	1.33	53.60	42.66	43.60	2.50	0.00	0.00	0.80	0.00
Rougheye rockfish	0.71	1.76	0.00	0.00	0.00	0.00	0.00	8.50	0.00	63.80	0.00	24.50	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.30	0.59	47.90	1.30	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.17	23.20	3.35	0.99	0.65	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	141.60	0.00	0.00	0.00	0.00
Dusky rockfish specie	22.80	0.00	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	15.20	0.00	0.00	0.00	0.00	4.48	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.77	0.80	2.26	0.00	1.87	2.23	0.62	1.58	0.12	1.17	0.78	0.00	0.24	0.00
Skates	0.00	47.68	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	6.00	34.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	2.04	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.58	0.56
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.33	2.91	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.23	0.02	0.22	0.04
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.93	0.00	4.62	1.80	0.67	2.95	0.09	0.00	0.07	0.00	0.00	0.00	0.00	0.57
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	10.90	1.20	0.00	0.00	0.00
Grand total	186.65	281.49	610.73	771.81	181.77	65.82	126.97	282.10	752.56	399.98	327.73	202.28	162.80	185.69

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	85	86	87	88	89	90	91	92	93	94	95	96	97	99
Start date & time	06/10/96	06/10/96	06/11/96	06/11/96	06/11/96	06/11/96	06/11/96	06/11/96	06/12/96	06/12/96	06/12/96	06/12/96	06/12/96	06/12/96
Start latitude	5602.82	5627.47	5610.63	5546.79	5519.53	5518.40	5525.81	5531.35	5456.11	5504.58	5510.33	5517.54	5527.38	5534.89
Start longitude	15817.68	15818.08	15738.06	15732.80	15741.80	15722.15	15717.77	15716.24	15728.01	15714.20	15652.77	15639.91	15651.34	15649.07
End latitude	5602.17	5626.86	5610.24	5546.06	5519.00	5518.28	5525.56	5530.71	5455.64	5505.24	5510.45	5517.75	5527.29	5534.18
End longitude	15818.41	15819.11	15736.61	15731.74	15740.68	15720.80	15716.28	15715.11	15726.76	15713.43	15651.34	15638.57	15651.37	15649.34
Gear depth (m)	94.00	35.00	109.00	114.00	81.00	90.00	90.00	88.00	153.00	144.00	164.00	114.00	96.00	94.00
Duration (h)	0.27	0.29	0.29	0.29	0.28	0.27	0.28	0.31	0.26	0.27	0.26	0.27	0.03	0.23
Distance fished (nm)	1.48	1.57	1.70	1.77	1.55	1.46	1.66	1.69	1.59	1.50	1.54	1.50	0.18	1.37
Performance	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	1.96	0.92	0.05	1.13	0.00	0.12	0.03	5.28	0.40	0.62	1.48	0.00	0.00	28.91
Pacific cod	60.50	2.20	95.10	143.90	0.00	224.50	0.00	2.45	66.70	6.80	295.50	513.80	0.00	0.00
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arrowtooth flounder	58.10	0.00	168.80	711.10	0.00	0.29	0.00	0.00	435.50	201.70	1064.30	5.60	0.05	0.16
Pacific halibut	29.02	9.50	23.89	56.64	55.70	43.98	48.97	163.80	47.48	148.60	140.65	25.88	45.46	37.53
Flathead sole	11.10	0.00	9.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.50	1.54	12.00	0.00	0.00
Rex sole	0.71	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rock sole species	134.47	401.40	8.10	20.85	28.97	15.60	9.27	125.40	0.00	0.00	0.61	1.66	10.20	23.78
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	22.80	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.42	0.00	0.21	0.00	0.00	0.00	2.82	1.80	1.32	0.00	0.00	290.01	1.30	9.06
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00	1715.22	9.10	365.73
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	0.00	0.00	5548.44	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.00	3703.35	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	1.74	0.00	1.43	1.30	0.00	7.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	26.89	8.50	6.10	0.00	0.00	0.00	0.00	22.63	0.00	0.00	0.00	0.00	0.00	2.64
Skates	0.47	244.80	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.43	0.05	0.00	0.00	6.46	1.21	1.19	0.15	0.04	0.05	0.00	0.00	0.37	0.23
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	224.43	427.16	316.26	956.14	70.91	280.64	70.83	240.59	571.11	361.94	1549.54	4404.00	64.48	466.64

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	100	101	102	103	104	105	106	107	108	110	111	112	113	114
Start date & time	06/13/96	06/13/96	06/13/96	06/13/96	06/13/96	06/14/96	06/14/96	06/14/96	06/14/96	06/14/96	06/15/96	06/15/96	06/15/96	06/15/96
Start latitude	5536.94	5541.55	5550.08	5601.72	5641.28	5659.13	5633.54	5631.97	5626.41	5621.91	5632.15	5623.22	5616.81	5622.14
Start longitude	15631.94	15644.83	15643.21	15656.82	15728.55	15639.76	15638.11	15634.71	15634.00	15620.57	15614.51	15617.34	15608.00	15553.56
End latitude	5536.23	5542.22	5550.05	5600.93	5640.89	5658.38	5632.70	5632.02	5626.31	5621.85	5631.47	5622.40	5616.13	5621.40
End longitude	15631.37	15645.86	15641.84	15656.18	15727.29	15639.26	15638.17	15633.17	15635.61	15619.31	15613.66	15617.82	15608.73	15553.99
Gear depth (m)	253.00	191.00	216.00	98.00	42.00	58.00	163.00	184.00	194.00	243.00	245.00	252.00	245.00	185.00
Duration (h)	0.27	0.32	0.25	0.26	0.27	0.28	0.25	0.27	0.28	0.22	0.30	0.26	0.25	0.29
Distance fished (nm)	1.45	1.66	1.44	1.62	1.52	1.52	1.57	1.59	1.67	1.30	1.55	1.61	1.48	1.48
Performance	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	6.70	2.22	7.20	12.90	319.10	67.04	2.63	22.90	62.10	14.80	34.00	56.80	23.17	14.80
Pacific cod	3.40	10.80	0.00	685.20	44.80	68.76	14.20	5.10	11.60	141.20	58.40	36.20	0.00	0.00
Sablefish	67.20	91.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	33.70	61.90	0.22	3.50
Arrowtooth flounder	37.10	203.70	167.00	24.30	67.60	15.20	218.60	124.40	118.40	121.70	177.80	111.70	103.10	691.40
Pacific halibut	0.00	32.06	0.00	52.67	104.84	28.11	29.94	30.63	19.46	56.72	0.00	38.01	7.35	46.54
Flathead sole	0.45	5.80	21.00	3.65	67.20	11.77	8.00	6.70	11.75	0.44	0.31	1.48	5.90	20.90
Dover sole	0.00	36.10	14.10	0.00	0.75	0.16	2.84	0.00	0.00	2.47	1.07	2.04	2.90	29.40
Rex sole	24.00	54.00	17.80	2.50	0.13	0.16	0.00	2.96	5.30	5.00	0.53	2.07	5.50	12.50
Rock sole species	0.00	0.00	2.38	111.11	51.60	168.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	107.08	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	72.40	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	2.65	0.00	0.00	0.00	0.00	1.58	1.43	1.08	0.00	0.00	0.00	0.00	0.00
Rougheye rockfish	0.00	4.40	11.60	0.00	0.00	0.00	0.87	0.37	0.76	0.60	0.00	1.46	10.70	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	46.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	1.47	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	16.40	0.00	0.00	45.96	54.14	49.20	0.33	21.39	45.91	0.07	0.15	0.00	0.40
Skates	21.20	36.80	0.34	0.00	166.80	38.22	48.02	20.02	8.54	316.08	112.82	83.84	1.60	8.60
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	408.00	0.00
Tanner crabs	0.00	0.04	0.15	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.65	0.00	0.02	1.56
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47	0.00	0.00
Northern pink shrimp	0.00	0.01	0.00	0.00	0.00	0.00	0.39	1.42	0.17	0.11	0.23	1.42	0.14	0.00
Sidestripe shrimp	1.19	0.09	0.65	0.00	0.00	0.00	1.54	3.03	3.51	2.72	6.31	20.44	2.80	0.00
Scallops	0.00	0.00	0.00	0.00	0.29	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	1.04	3.84	2.35	0.00
Grand total	160.78	482.15	263.98	819.54	822.29	381.96	315.53	209.46	245.73	464.07	365.32	377.65	276.02	826.18

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	115	117	118	119	120	121	122	124	125	126	127	128	129	130
Start date & time	06/15/96	06/15/96	06/15/96	06/16/96	06/16/96	06/16/96	06/18/96	06/18/96	06/18/96	06/18/96	06/18/96	06/19/96	06/19/96	06/19/96
Start latitude	5609.91	5602.20	5557.02	5520.37	5521.23	5526.50	5536.58	5533.01	5541.14	5548.24	5550.73	5555.05	5611.68	5612.97
Start longitude	15556.12	15542.56	15602.87	15613.85	15617.50	15548.76	15530.17	15539.90	15504.47	15503.28	15456.63	15513.78	15538.10	15515.13
End latitude	5609.12	5602.08	5556.75	5520.44	5520.65	5526.13	5536.15	5533.56	5541.54	5548.03	5550.09	5555.56	5612.14	5612.53
End longitude	15556.57	15540.79	15604.31	15613.97	15618.58	15549.79	15531.17	15538.72	15503.01	15502.02	15457.39	15512.95	15539.38	15514.96
Gear depth (m)	115.00	52.00	113.00	193.00	180.00	220.00	269.00	177.00	401.00	160.00	364.00	60.00	61.00	31.00
Duration (h)	0.28	0.28	0.27	0.05	0.27	0.26	0.27	0.27	0.31	0.26	0.24	0.29	0.28	0.29
Distance fished (nm)	1.56	1.87	1.59	0.19	1.58	1.33	1.33	1.62	1.72	1.41	1.44	1.30	1.60	0.88
Performance	0	0	0	6	2	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	0.00	0.27	2.20	14.30	1.07	24.90	1.00	0.93	0.00	6.90	0.00	0.02	0.00
Pacific cod	531.60	480.10	70.10	5.90	41.20	0.00	0.00	84.50	0.00	30.20	0.00	0.00	213.30	0.00
Sablefish	0.00	0.00	0.00	0.00	5.00	173.40	17.80	3.70	38.50	81.50	57.60	0.00	0.00	0.00
Arrowtooth flounder	418.28	0.00	113.80	3.20	175.70	20.40	55.93	296.00	9.10	717.60	122.90	0.00	0.00	0.00
Pacific halibut	107.87	92.95	28.15	0.00	7.35	0.00	0.00	27.46	324.52	28.85	0.00	764.18	44.91	33.49
Flathead sole	302.62	0.00	9.90	0.00	0.23	0.00	4.39	0.00	0.00	0.47	0.00	0.00	28.45	0.00
Dover sole	1.86	0.00	13.50	2.60	8.60	0.00	29.70	10.10	16.80	16.30	19.00	0.00	0.00	0.00
Rex sole	1.69	0.00	8.00	2.58	30.50	0.00	59.00	3.10	0.00	42.00	21.50	0.00	0.00	0.00
Rock sole species	5.18	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.40	322.35	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.90	0.00	0.67	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.00	73.90	863.30	8288.52	196.40	574.10	2.12	2.59	1.17	0.00	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	12.50	1.68	0.00	12.30	0.00	43.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	51.20	0.00	104.00	0.00	25.60	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	23.70	93.50	0.00	4.93	4.60	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.70	0.00	45.20	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	3.90	12.60	4.50	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	5.19	8.40	544.65	12.02	42.40	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	1.60	0.00	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	1.58	0.00	0.88	0.00	16.80	0.80	0.14	5.86	0.00	0.00	0.00	13.16	0.00
Skates	0.20	0.00	0.00	0.05	177.00	0.00	0.00	13.06	0.00	0.11	0.05	166.80	174.40	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Scallops	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	5.31	0.00	3.21	1.04	2.42	0.00	0.00	0.00
Grand total	1369.87	599.18	271.97	127.70	1299.60	8655.00	457.35	1023.41	737.57	923.20	466.09	1174.24	465.87	62.00



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	131	132	133	134	135	136	137	138	139	140	141	142	143	144
Start date & time	06/19/96	06/19/96	06/19/96	06/20/96	06/20/96	06/20/96	06/20/96	06/20/96	06/21/96	06/21/96	06/21/96	06/21/96	06/21/96	06/21/96
Start latitude	5616.21	5625.62	5636.30	5649.57	5658.80	5716.01	5710.57	5735.87	5742.55	5723.37	5719.05	5731.76	5755.76	5816.85
Start longitude	15518.78	15519.46	15527.47	15518.56	15518.03	15536.52	15555.36	15516.70	15535.36	15450.95	15450.14	15443.30	15434.24	15404.18
End latitude	5615.92	5626.52	5636.94	5648.85	5659.57	5716.93	5710.18	5734.95	5743.35	5722.61	5719.68	5731.29	5756.28	5817.60
End longitude	15519.85	15519.90	15527.66	15519.45	15517.54	15537.01	15556.64	15516.58	15535.44	15451.35	15449.58	15444.51	15434.19	15403.67
Gear depth (m)	41.00	51.00	105.00	220.00	246.00	276.00	256.00	288.00	28.00	147.00	82.00	186.00	267.00	60.00
Duration (h)	0.27	0.27	0.19	0.27	0.26	0.27	0.26	0.27	0.27	0.25	0.22	0.28	0.18	0.26
Distance fished (nm)	1.29	1.74	1.21	1.62	1.53	1.79	1.48	1.73	1.50	1.48	1.31	1.56	1.01	1.50
Performance	0	0	0	0	0	0	0	0	2	0	2	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	0.00	2498.92	38.90	13.10	12.20	6.10	20.20	1.02	127.70	0.93	147.90	13.00	276.10
Pacific cod	4.11	10.90	66.80	11.30	2.40	4.20	11.90	21.80	55.60	7.80	15.40	38.90	4.30	37.30
Sablefish	0.00	0.00	0.00	29.60	18.00	6.50	8.40	5.90	0.00	0.00	0.00	4.30	0.00	0.83
Arrowtooth flounder	0.00	0.00	999.13	554.10	148.00	14.60	63.30	56.40	0.15	1124.90	555.70	247.50	80.20	190.30
Pacific halibut	47.62	89.12	119.24	11.27	0.00	47.80	19.33	0.00	52.07	0.00	47.89	29.79	20.94	157.72
Flathead sole	0.00	0.00	12.70	23.90	30.10	8.10	1.85	3.40	0.72	66.80	0.49	9.70	3.38	107.10
Dover sole	0.00	0.00	10.40	1.23	0.00	0.00	1.97	0.68	0.00	34.80	0.00	12.70	0.00	0.00
Rex sole	0.00	0.00	11.51	0.73	1.38	0.00	0.00	0.00	0.00	14.30	0.00	1.45	0.00	0.42
Rock sole species	9.00	137.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	246.30	3.96	62.10	0.00	4.45
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00	0.00	0.00	0.00	0.92
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.90	0.24	0.00	0.00	0.00	0.29
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	177.60	0.00	0.00	0.00	0.00	27.20
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	6.10	0.00	1.40	2.40	0.85	0.00	0.00	0.00	2.37	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	5.70	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.34	0.23	0.66	0.18	1.13	6.77	4.13	16.36	1.48	0.53	1.42
Skates	0.00	228.40	205.20	0.00	89.20	140.57	65.60	55.60	63.60	66.80	0.00	11.24	32.95	720.80
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	200.00	0.00
Tanner crabs	0.00	0.00	0.00	0.04	0.25	0.00	3.14	0.33	0.00	0.00	0.00	0.06	0.05	0.10
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.03	0.00	0.01	0.49	1.02	0.00	0.00	0.00	0.13	0.03	0.00
Sidestripe shrimp	0.00	0.00	0.00	1.65	2.12	3.53	5.32	3.89	0.00	0.00	0.00	0.50	0.38	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	1.71	1.37	5.90	1.80	28.20	0.00	0.00	0.00	0.00	6.67	0.00
Grand total	75.56	210.23	3770.00	764.08	251.84	158.37	305.38	165.74	395.58	1405.21	683.39	518.58	196.05	962.59

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	145	146	147	148	149	150	151	152	153	154	155	156	157	158
Start date & time	06/22/96	06/22/96	06/22/96	06/22/96	06/26/96	06/26/96	06/26/96	06/26/96	06/26/96	06/27/96	06/27/96	06/27/96	06/27/96	06/27/96
Start latitude	5814.45	5804.70	5802.96	5752.64	5736.91	5742.09	5732.97	5717.32	5719.19	5724.86	5707.27	5658.78	5702.91	5711.79
Start longitude	15327.85	15333.53	15325.78	15248.63	15225.50	15154.34	15139.46	15155.45	15215.51	15235.86	15225.22	15232.99	15237.04	15243.20
End latitude	5814.82	5805.30	5802.41	5753.21	5737.47	5741.55	5733.19	5718.03	5719.68	5724.20	5706.51	5659.19	5703.80	5712.40
End longitude	15326.51	15332.48	15324.67	15247.03	15224.52	15152.93	15140.68	15154.68	15214.41	15234.88	15225.08	15234.00	15237.05	15243.97
Gear depth (m)	178.00	192.00	47.00	66.00	24.00	69.00	143.00	71.00	66.00	93.00	150.00	159.00	148.00	145.00
Duration (h)	0.28	0.30	0.26	0.29	0.25	0.32	0.24	0.28	0.26	0.28	0.26	0.26	0.31	0.25
Distance fished (nm)	1.49	1.55	1.49	1.93	1.54	1.73	1.33	1.55	1.46	1.60	1.43	1.29	1.68	1.40
Performance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	13.90	423.90	0.00	55.00	108.50	0.00	3763.70	0.20	1.80	223.00	1338.95	355.90	0.00	1128.36
Pacific cod	7.40	241.10	10.30	0.43	25.70	205.30	82.70	0.00	91.80	67.80	64.80	3.30	0.00	63.80
Sablefish	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	3.60	8.90	6.70	0.00
Arrowtooth flounder	218.50	217.20	3.20	184.30	8.60	24.10	101.80	4.50	8.60	206.40	1665.42	463.00	1177.60	4154.47
Pacific halibut	0.00	26.09	38.46	35.97	0.00	210.30	38.65	81.19	31.66	57.35	20.45	25.93	6.04	13.26
Flathead sole	151.20	14.60	11.30	218.60	55.80	0.00	22.10	0.00	0.00	155.00	59.36	39.00	13.00	71.03
Dover sole	0.00	12.40	1.16	0.55	0.00	0.00	10.30	0.00	0.00	0.00	0.00	5.10	0.00	5.15
Rex sole	0.32	11.20	0.00	0.11	0.00	0.00	34.30	0.00	0.00	0.00	7.42	0.03	0.00	6.81
Rock sole species	0.00	0.00	150.90	138.60	114.60	176.40	0.00	171.00	178.80	3.84	0.00	0.00	0.00	3.32
Yellowfin sole	0.00	0.00	0.00	96.90	352.30	0.00	0.00	0.00	0.00	5.30	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	75.40	0.00	2.10	0.00	0.42	68.80	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	4.00	32.35	102.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.40	0.00	0.00	0.00	0.00
Rougheye rockfish	5.30	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	0.00	0.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	4.44	0.00	0.00	0.30	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.90	0.16	16.40	83.10	116.00	1160.80	38.40	0.00	1.04	37.04	0.00	0.52	0.48	3.00
Skates	0.00	107.20	0.00	131.20	142.40	140.00	8.40	0.00	0.00	53.80	0.00	42.60	70.80	75.44
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	5.43	0.00	0.00	10.60	0.20	0.00	0.00	0.00	0.00	25.60	0.00	2.60	0.60	0.00
King crabs	0.00	0.00	0.00	0.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	2.71	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.04	0.01	0.00
Sidestripe shrimp	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	1.42	0.08	0.30	0.00	0.00	0.00	0.09	0.00	0.00	1.50	0.00	0.75
Red squid	0.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	454.88	999.91	134.66	727.59	857.30	929.24	4100.00	150.43	196.15	846.34	3160.00	919.09	1222.20	5464.00

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	160	161	162	163	165	166	167	168	169	170	171	172	173	176
Start date & time	06/27/96	06/28/96	06/28/96	06/28/96	06/28/96	06/28/96	06/28/96	06/29/96	06/29/96	06/29/96	06/29/96	06/29/96	06/29/96	06/30/96
Start latitude	5711.76	5658.49	5659.55	5708.72	5633.34	5639.40	5638.70	5646.45	5655.24	5650.56	5652.18	5642.92	5649.30	5614.16
Start longitude	15300.28	15254.41	15307.81	15329.67	15328.98	15332.09	15338.86	15414.18	15404.30	15413.33	15422.40	15509.62	15501.29	15435.36
End latitude	5712.14	5657.96	5658.86	5707.97	5633.99	5640.16	5639.24	5645.93	5654.66	5650.18	5652.72	5643.65	5649.94	5613.68
End longitude	15259.24	15255.36	15308.72	15329.94	15328.16	15332.15	15338.41	15415.29	15405.28	15411.99	15423.40	15509.92	15500.52	15436.23
Gear depth (m)	121.00	133.00	79.00	105.00	131.00	155.00	76.00	51.00	84.00	45.00	57.00	79.00	78.00	85.00
Duration (h)	0.28	0.25	0.27	0.27	0.28	0.26	0.18	0.27	0.26	0.28	0.26	0.26	0.25	0.23
Distance fished (nm)	1.30	1.37	1.59	1.44	1.48	1.45	1.11	1.49	1.47	1.56	1.44	1.42	1.44	1.28
Performance	1	0	0	0	0	0	2	0	0	0	0	0	0	6
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	138.80	398.80	15.40	372.20	3.10	25.00	23.50	495.40	903.10	4.70	0.24	2606.53	1362.80	1.08
Pacific cod	45.80	17.60	352.70	117.80	14.10	74.70	2.93	2.70	44.40	15.00	17.60	40.90	21.20	30.90
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00
Arrowtooth flounder	216.30	196.50	37.40	153.30	50.90	37.10	0.59	23.80	60.40	4.81	59.69	428.44	176.70	50.30
Pacific halibut	41.55	0.00	30.81	0.00	10.53	31.34	52.18	45.35	5.11	27.05	83.04	75.08	57.30	284.80
Flathead sole	241.30	55.90	5.10	279.20	87.70	104.40	2.64	129.70	83.40	25.70	63.90	44.20	34.80	0.00
Dover sole	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	1.84	0.00	0.00
Rex sole	0.00	44.10	1.10	0.21	4.23	1.20	0.00	0.88	0.00	0.00	0.00	19.60	9.60	0.70
Rock sole species	0.00	0.00	699.00	28.80	0.00	0.00	18.24	1.44	2.28	7.20	8.10	16.50	0.00	20.10
Yellowfin sole	4.70	0.00	0.00	69.40	0.00	0.00	0.00	45.00	13.70	68.30	49.10	0.00	0.00	0.00
Butter sole	0.74	0.00	0.00	0.00	0.00	1.00	0.00	7.15	0.00	41.20	2.36	0.00	0.00	0.60
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.13	0.00	2.50	0.00	0.00	77.32	18.00	37.76	0.00	5.60	9.60	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.35	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shorthead rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	78.40	0.04	4.48	108.64	0.04	1.64	0.00	0.00	54.48	4.12	0.00	7.56	8.76	7.20
Skates	24.40	4.80	0.04	0.28	4.00	59.32	0.00	442.00	0.00	0.00	166.80	120.00	36.40	0.00
Sharks	0.00	0.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	7.20	2.14	0.00	10.40	0.18	3.14	0.08	0.00	3.12	0.00	5.60	0.08	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	2.84	0.01	0.00	0.04	0.05	1.26	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.60	0.00	0.00	1.56	0.72	0.27	0.00	6.54	3.99	0.81	0.00	0.39
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	770.78	743.63	699.05	1115.36	183.96	309.41	94.51	906.21	1156.51	218.87	349.49	3290.00	1696.16	417.33

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	177	178	179	180	181	182	183	184	186	187	188	189	191	192
Start date & time	06/30/96	06/30/96	06/30/96	06/30/96	06/30/96	07/01/96	07/01/96	07/01/96	07/01/96	07/02/96	07/02/96	07/02/96	07/02/96	07/03/96
Start latitude	5620.66	5600.81	5601.93	5602.26	5558.63	5623.86	5629.18	5635.07	5707.08	5809.14	5802.19	5818.54	5845.09	5841.19
Start longitude	15427.89	15428.54	15424.64	15413.94	15339.25	15239.76	15208.47	15158.67	15133.05	15054.01	15122.56	15112.22	15051.40	15025.09
End latitude	5620.13	5601.12	5601.77	5602.05	5558.63	5624.18	5629.81	5634.60	5706.57	5809.51	5801.69	5818.61	5845.67	5840.40
End longitude	15429.13	15427.67	15422.95	15412.57	15338.25	15238.65	15207.73	15159.90	15134.33	15055.24	15123.93	15113.74	15052.36	15024.78
Gear depth (m)	60.00	339.00	280.00	139.00	102.00	151.00	221.00	144.00	131.00	148.00	94.00	82.00	178.00	174.00
Duration (h)	0.28	0.20	0.33	0.27	0.20	0.24	0.27	0.26	0.29	0.27	0.28	0.27	0.26	0.27
Distance fished (nm)	1.67	1.08	1.80	1.49	1.06	1.31	1.43	1.56	1.64	1.39	1.65	1.53	1.42	1.52
Performance	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.13	4.20	1.08	0.10	0.00	0.11	0.00	0.03	0.06	5.40	0.20	0.03	5.80	13.00
Pacific cod	0.56	0.00	0.00	0.00	0.00	131.20	0.00	0.00	331.90	39.50	53.00	8.20	52.60	0.00
Sablefish	0.00	34.70	93.20	0.00	0.00	0.00	237.10	0.00	2.17	23.50	9.00	0.00	6.60	16.80
Arrowtooth flounder	8.30	64.70	29.70	58.10	0.00	116.90	39.50	0.10	552.70	289.10	1641.00	12.20	529.00	621.80
Pacific halibut	25.37	0.00	20.69	5.98	52.40	17.12	34.37	245.69	10.37	8.84	4.90	122.18	0.00	7.07
Flathead sole	0.58	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	16.60	9.40	0.00	0.00	14.70
Dover sole	0.00	15.90	15.90	0.00	0.00	4.90	0.00	0.00	0.00	20.60	1.31	0.00	1.30	18.60
Rex sole	0.00	5.62	0.41	24.90	0.00	23.10	0.00	0.00	0.00	23.10	2.40	0.00	0.60	11.00
Rock sole species	112.50	0.93	0.00	0.00	0.00	2.25	0.00	14.55	48.60	0.00	58.80	46.80	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	3.80	136.20	0.00	0.00	1149.30	235.50	0.00	0.00	0.00	0.00	0.00	0.63	0.00
Rougheye rockfish	0.00	242.75	11.40	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	1.39
Shortspine thornyhead	0.00	38.40	180.10	0.19	0.00	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	1181.20	9.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shorthead rockfish	0.00	45.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	3.75	0.00	917.85	26.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	10.10	0.00	611.90	17.40	124.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	1.62	28.84	0.00	0.00	0.00	77.52	0.00	0.00	0.00	0.00	0.00	0.00	20.80
Skates	31.40	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	16.40	51.20	0.00	53.60	72.08
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.17	0.12
Sidestripe shrimp	0.00	0.31	1.20	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.19
Scallops	14.10	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.96	0.00	0.00
Red squid	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	113.52	460.96	500.56	89.84	1562.87	1472.08	675.03	250.80	914.36	431.70	1753.64	167.94	610.90	730.06

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	193	194	195	196	197	198	199	200	201	202	203	204	205	206
Start date & time	07/03/96	07/03/96	07/03/96	07/03/96	07/03/96	07/13/96	07/13/96	07/13/96	07/13/96	07/14/96	07/14/96	07/14/96	07/14/96	07/15/96
Start latitude	5844.59	5828.27	5828.77	5817.62	5831.00	6011.21	5944.36	5944.79	5941.21	5932.71	5846.15	5845.01	5850.05	5903.07
Start longitude	15009.77	14941.22	14931.82	14907.58	14857.22	14621.95	14658.56	14808.81	14854.75	14925.75	14845.65	14827.83	14810.87	14811.75
End latitude	5844.28	5828.34	5828.66	5817.47	5830.61	6011.25	5943.65	5944.28	5941.17	5931.90	5845.89	5845.56	5849.47	5902.34
End longitude	15008.33	14942.78	14930.27	14905.92	14855.81	14623.51	14658.34	14808.91	14856.28	14925.88	14844.11	14826.78	14810.94	14811.15
Gear depth (m)	152.00	147.00	149.00	137.00	110.00	110.00	160.00	73.00	178.00	135.00	241.00	286.00	367.00	133.00
Duration (h)	0.27	0.28	0.29	0.28	0.27	0.26	0.25	0.18	0.26	0.26	0.27	0.26	0.20	0.27
Distance fished (nm)	1.52	1.54	1.54	1.66	1.58	1.46	1.34	1.00	1.45	1.53	1.56	1.45	1.10	1.47
Performance	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	0.83	0.65	0.00	0.74	2.39	0.36	11.90	10.80	0.05	2.80	11.30	0.00	0.00
Pacific cod	14.70	61.30	234.00	8.40	0.74	0.00	0.00	0.00	0.00	26.50	0.00	0.00	0.00	51.95
Sablefish	55.30	11.90	2.18	11.70	0.00	4.14	0.00	0.00	6.38	13.50	221.60	28.30	109.80	0.00
Arrowtooth flounder	73.70	69.70	299.70	1507.39	2.20	53.87	47.30	11.45	118.70	587.40	16.80	14.20	38.10	54.50
Pacific halibut	17.44	0.00	0.00	40.46	28.90	4.10	0.00	13.17	0.00	20.12	0.00	0.00	0.00	79.05
Flathead sole	0.00	0.00	11.10	6.80	0.00	18.90	1.93	0.00	31.90	3.70	0.00	0.00	0.00	0.00
Dover sole	6.10	41.40	53.20	15.70	0.00	8.07	0.00	0.00	16.90	13.10	6.58	20.50	9.75	0.00
Rex sole	10.60	29.40	21.20	38.50	0.00	2.21	0.00	0.00	7.94	17.20	11.00	5.10	1.00	7.60
Rock sole species	0.00	0.00	0.00	0.00	16.50	0.00	0.00	39.30	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	23.20	2.46	0.00	0.00	0.00	0.00	0.11	0.00	0.00	8.70	38.10	4.90	9.90	0.69
Rougheye rockfish	2.90	0.45	0.00	0.00	0.89	2.07	0.00	0.00	23.53	1.77	17.80	1.51	337.90	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	43.20	19.80	59.20	0.00
Northern rockfish	1.60	0.31	0.00	0.00	120.90	0.00	0.00	0.00	0.00	48.00	0.00	0.48	0.00	1.25
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216.88	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	18.63	0.00	0.00	0.00	0.00	7.62	12.90	0.00	0.00	0.00
Other rockfish	15.20	1.44	0.00	0.00	80.66	0.00	0.00	0.00	0.00	34.76	8.60	0.00	0.00	13.56
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.30	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	35.20	0.00	0.80	0.00	0.00	1.18	0.29	2.06	0.00	4.02	0.00
Skates	0.02	32.83	0.00	0.00	32.00	41.76	0.00	108.60	30.46	0.00	82.40	0.00	0.00	0.14
Sharks	0.00	0.00	0.00	0.00	0.00	5.20	20.80	0.00	0.00	8.36	0.00	0.00	0.00	29.60
Tanner crabs	0.00	0.00	0.04	0.00	0.22	0.00	0.00	0.06	0.12	0.03	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.39	0.00
Northern pink shrimp	0.90	0.35	0.05	0.00	0.00	3.94	0.31	0.00	1.16	1.51	0.01	0.01	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.25	1.65	0.03	0.12	0.02	0.08	0.02	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.10	2.56	0.00
Grand total	258.85	234.69	623.16	1650.00	217.51	117.24	58.32	80.65	242.37	858.48	411.34	110.23	789.39	212.76

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1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	207	208	209	210	211	212	213	214	215	216	217	218	219	220
Start date & time	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/17/96	07/17/96
Start latitude	5910.05	5908.11	5857.76	5922.03	5928.06	5924.69	5919.05	5926.20	5920.06	5937.54	5952.56	5953.46	6006.00	6002.40
Start longitude	14753.25	14736.08	14758.66	14713.35	14712.25	14659.13	14655.69	14649.06	14638.69	14628.79	14602.13	14553.45	14503.93	14521.32
End latitude	5909.88	5908.74	5858.07	5922.80	5927.95	5923.93	5919.80	5925.37	5919.91	5937.07	5951.76	5953.00	6006.04	6002.40
End longitude	14751.70	14735.21	14757.92	14713.32	14710.73	14659.21	14655.54	14649.13	14637.21	14627.78	14602.02	14552.12	14505.53	14522.90
Gear depth (m)	201.00	332.00	463.00	189.00	212.00	200.00	184.00	150.00	156.00	98.00	99.00	99.00	84.00	129.00
Duration (h)	0.28	0.26	0.15	0.26	0.26	0.26	0.26	0.27	0.26	0.23	0.26	0.27	0.27	0.26
Distance fished (nm)	1.55	1.43	0.92	1.44	1.47	1.46	1.41	1.54	1.45	1.32	1.49	1.52	1.51	1.47
Performance	3	7	1	0	0	0	0	0	0	2	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	1.42	5.20	0.00	1.02	10.30	6.10	0.00	0.00	2.96	0.29	0.84	4.91	12.32	19.90
Pacific cod	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sablefish	29.20	8.90	77.80	5.70	11.60	8.30	4.90	0.00	0.00	0.00	0.00	0.00	1.93	8.50
Arrowtooth flounder	32.60	28.90	1.20	40.50	9.30	14.20	67.40	7.14	26.10	212.10	34.20	32.00	20.85	66.70
Pacific halibut	13.69	0.00	0.00	0.00	0.00	0.00	15.96	0.00	0.00	4.10	0.00	0.00	0.00	21.99
Flathead sole	0.50	0.00	0.00	60.80	11.16	0.00	0.00	0.45	12.00	15.00	3.00	2.75	5.60	21.20
Dover sole	14.60	11.20	6.00	36.00	26.90	2.40	143.80	0.00	16.92	0.00	7.40	2.80	0.00	20.30
Rex sole	4.58	0.00	0.95	2.64	16.60	1.42	2.30	0.00	1.99	1.63	0.48	0.40	0.00	18.90
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	46.10	6.95	0.00	0.00	0.00	0.23	1.77	0.69	0.18	0.00	0.00	0.00	2.79	0.00
Rougheye rockfish	7.10	622.00	0.00	4.94	68.30	65.56	0.00	0.00	0.00	0.00	0.06	0.00	0.36	6.10
Shortspine thornyhead	4.19	64.30	9.20	14.60	13.80	15.50	1.65	0.14	1.28	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.66	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	238.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.35	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	2.74	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.30	0.00	13.80	0.00	0.00
Sculpins	0.00	8.64	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.29	0.12	0.23	0.46
Skates	0.00	0.09	0.00	16.90	0.00	7.29	32.20	7.76	1.47	7.65	0.00	0.00	0.00	11.47
Sharks	0.00	0.00	0.00	5.52	135.60	13.20	0.00	8.68	0.00	0.00	17.20	18.40	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	1.27	0.00	0.00	0.10	0.34	0.29	0.01	0.29	0.26	0.07	1.13	0.42	0.00	2.51
Sidestripe shrimp	0.32	0.00	0.00	0.31	1.54	0.52	0.02	1.34	0.46	0.00	0.00	0.00	0.00	0.17
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00
Red squid	0.00	1.80	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	162.76	991.99	317.32	174.72	206.70	121.92	254.94	23.85	72.48	268.30	57.10	68.69	51.90	199.83

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	221	222	223	224	225	226	227	228	229	230	231	232	233	234
Start date & time	07/17/96	07/17/96	07/17/96	07/17/96	07/17/96	07/18/96	07/18/96	07/18/96	07/18/96	07/18/96	07/18/96	07/19/96	07/19/96	07/19/96
Start latitude	5939.11	5939.98	5935.31	5937.07	5948.74	6001.02	5944.55	5939.54	5935.81	5923.56	5917.62	5906.57	5917.26	5934.27
Start longitude	14509.66	14504.06	14423.83	14424.78	14419.97	14320.84	14238.90	14247.23	14221.01	14211.44	14156.05	14133.50	14131.75	14113.33
End latitude	5938.35	5940.74	5935.95	5937.61	5948.96	6001.06	5944.60	5939.86	5935.09	5922.93	5917.25	5906.60	5918.02	5934.15
End longitude	14509.55	14503.98	14422.82	14423.66	14418.47	14319.25	14237.36	14245.61	14220.66	14210.43	14154.70	14131.79	14131.39	14114.89
Gear depth (m)	185.00	152.00	262.00	169.00	71.00	99.00	201.00	354.00	252.00	249.00	236.00	335.00	293.00	129.00
Duration (h)	0.26	0.27	0.27	0.26	0.27	0.27	0.27	0.25	0.30	0.26	0.26	0.30	0.26	0.26
Distance fished (nm)	1.43	1.44	1.53	1.47	1.48	1.49	1.47	1.64	1.41	1.52	1.47	1.66	1.46	1.49
Performance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	10.00	0.95	2.37	0.00	10.00	51.55	0.00	5.20	5.30	6.30	39.50	1.50	5.95	0.09
Pacific cod	0.00	0.00	10.40	0.00	3.00	7.60	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00
Sablefish	4.28	0.00	8.80	0.00	1.79	0.00	2.65	53.00	7.27	0.00	5.70	435.60	552.10	0.00
Arrowtooth flounder	28.20	39.47	4.42	12.90	84.20	64.65	17.20	43.70	64.80	40.60	13.20	52.40	18.00	226.90
Pacific halibut	5.11	0.00	37.09	0.00	1.79	58.28	67.74	59.34	12.44	0.00	0.00	0.00	0.00	0.00
Flathead sole	6.45	1.49	0.00	0.00	49.43	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.30
Dover sole	10.70	0.00	21.35	6.90	28.40	28.10	17.20	5.27	40.60	17.00	27.40	4.50	10.95	6.00
Rex sole	32.00	2.25	5.30	0.00	9.00	28.30	1.27	3.11	10.70	16.20	12.20	0.00	6.70	0.64
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	1.01	0.00	0.00	0.00	3.34	4.25	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	259.28	7.34	0.00	0.00	2.07	0.00	28.00	290.30	469.35	21.50	40.00	0.00
Rougheye rockfish	1.14	0.00	3.55	2.40	0.00	0.00	0.00	123.50	4.39	0.00	0.17	25.90	4.10	0.00
Shortspine thornyhead	25.70	3.54	51.20	1.15	0.00	0.00	2.08	36.10	43.40	43.50	38.10	31.50	31.40	0.00
Northern rockfish	0.00	0.00	2.82	0.00	0.00	0.00	1.24	0.00	0.00	0.00	6.90	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.55	0.00	0.00	0.00	19.50	87.50	0.00
Dusky rockfish specie	0.00	0.00	40.50	0.00	0.00	0.00	3.15	0.00	0.00	3.19	4.80	0.00	0.00	0.00
Other rockfish	0.00	0.00	78.85	0.00	0.00	0.00	2.10	0.00	4.80	39.61	442.33	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	11.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.23	0.00	0.24	0.00	0.00	0.06	0.00	0.00	0.00	2.83	18.91	1.97	0.66	0.00
Skates	0.00	7.44	26.83	0.00	0.00	38.24	65.17	30.10	0.00	0.00	0.00	0.00	0.00	29.64
Sharks	0.00	21.20	0.00	464.00	0.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.01	0.02	0.02	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.79	0.89	0.00	0.00	0.00	0.20	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.79	5.02	0.14	0.00	0.08	0.04	0.18	0.26	0.11	0.04	0.00	0.41	0.01
Scallops	0.00	0.00	0.00	0.00	58.54	3.58	26.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88	0.88	0.32	0.00	0.08	0.00	0.00
Grand total	135.74	65.43	454.64	153.87	216.98	289.20	151.53	467.97	221.46	427.23	734.15	594.17	757.47	291.12

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	235	236	237	238	239	240	241	242	243	244	245	246	247	248
Start date & time	07/19/96	07/20/96	07/20/96	07/20/96	07/20/96	07/20/96	07/20/96	07/21/96	07/21/96	07/21/96	07/21/96	07/22/96	07/22/96	07/22/96
Start latitude	5951.82	5925.82	5922.82	5913.79	5935.13	5938.82	5953.61	5830.14	5840.16	5848.28	5904.18	5824.73	5813.40	5815.39
Start longitude	14131.72	14110.46	14057.17	14046.04	14026.21	14029.64	13943.91	13946.22	13911.68	13907.15	13834.40	13912.61	13859.55	13843.07
End latitude	5952.67	5926.50	5922.81	5914.59	5934.60	5938.67	5952.87	5829.78	5840.97	5848.74	5903.95	5824.09	5813.39	5815.11
End longitude	14130.87	14111.17	14055.72	14046.13	14025.03	14028.09	13944.48	13944.92	13911.45	13905.96	13832.88	13911.80	13858.06	13844.41
Gear depth (m)	29.00	325.00	157.00	154.00	190.00	68.00	60.00	215.00	241.00	194.00	94.00	139.00	213.00	155.00
Duration (h)	0.30	0.26	0.26	0.26	0.26	0.27	0.26	0.25	0.26	0.25	0.26	0.26	0.26	0.25
Distance fished (nm)	1.79	1.44	1.40	1.50	1.50	1.49	1.50	1.43	1.54	1.45	1.53	1.46	1.48	1.41
Performance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.51	39.80	0.48	0.64	6.00	8.60	3.30	4.70	14.80	33.50	5.19	0.05	199.50	0.42
Pacific cod	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sablefish	0.00	37.50	1.59	0.76	1.12	0.00	0.00	30.20	35.65	5.50	0.98	0.00	0.84	0.00
Arrowtooth flounder	0.00	9.70	70.50	28.10	41.30	556.40	0.29	32.48	168.70	392.50	189.30	0.05	39.00	19.20
Pacific halibut	18.37	20.12	8.64	0.00	0.00	45.19	4.90	21.26	0.00	6.28	0.00	7.94	57.30	31.95
Flathead sole	0.00	0.63	0.00	0.19	1.32	7.35	0.16	0.39	2.96	9.40	17.90	0.00	0.00	0.00
Dover sole	0.00	58.25	0.67	0.79	10.30	15.70	0.00	1.82	51.30	64.30	18.68	0.14	3.60	0.09
Rex sole	0.00	7.05	2.33	1.29	0.39	12.50	0.00	5.55	16.97	13.10	5.22	0.33	7.20	0.00
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	1.04	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	78.64	0.00	0.00	0.00	0.00	32.60	0.00	0.49	4.89	0.36	0.00	0.00	0.41	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.69	0.00	0.00	618.44	23.60	19.20	0.00	0.04	69.05	0.00
Rougheye rockfish	0.00	14.49	0.00	0.00	8.00	0.14	0.00	23.00	0.75	0.29	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	34.21	0.00	0.00	33.30	0.00	0.00	0.00	11.30	38.85	0.00	0.00	2.77	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56	0.00	0.00	0.59	0.00	0.00	0.00
Shortraker rockfish	0.00	11.60	0.00	0.00	0.00	0.00	0.00	10.13	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00	0.00	9.90	5.36	0.00	2020.80	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	58.20	3.58	0.00	9314.59	13.20	6.28	0.00	0.00	53.30	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	15.30	0.00	11.90	0.00	0.00	23.99	0.00	22.20	0.00
Sculpins	0.00	0.00	0.06	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.71	0.00
Skates	53.77	7.89	17.74	0.00	38.88	0.31	6.10	0.00	0.00	0.00	32.60	0.00	0.00	0.00
Sharks	4726.60	0.00	0.00	0.00	220.14	4.14	2.79	3.47	0.00	0.00	92.80	180.40	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.01	0.00	0.00	0.06	0.00	3.24	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.10	0.00	0.00	0.75	0.00	12.20	0.00	0.12	0.04	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Red squid	0.00	0.07	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	1272.63	237.09	95.88	37.35	188.83	732.88	36.51	3470.00	340.72	600.45	296.11	56.67	416.18	52.33



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	249	250	251	252	253	254	255	256	257	258	259	260	261	262
Start date & time	07/22/96	07/22/96	07/23/96	07/23/96	07/23/96	07/23/96	07/23/96	07/24/96	07/24/96	07/24/96	07/24/96	07/25/96	07/25/96	07/25/96
Start latitude	5828.65	5812.23	5811.88	5813.79	5817.68	5801.47	5716.01	5719.55	5652.16	5641.28	5702.42	5702.78	5700.09	5640.62
Start longitude	13904.47	13804.10	13741.35	13719.34	13718.98	13655.41	13617.95	13606.65	13553.82	13550.78	13531.52	13531.41	13509.82	13539.61
End latitude	5828.41	5812.25	5811.89	5813.73	5817.45	5801.91	5715.36	5720.10	5651.34	5641.96	5702.51	5702.81	5700.84	5641.39
End longitude	13902.99	13802.63	13739.86	13719.43	13720.55	13656.70	13617.70	13607.75	13553.78	13551.52	13530.77	13530.41	13510.31	13539.76
Gear depth (m)	91.00	143.00	154.00	123.00	124.00	409.00	359.00	143.00	188.00	225.00	71.00	69.00	66.00	163.00
Duration (h)	0.27	0.25	0.26	0.02	0.28	0.25	0.22	0.26	0.27	0.26	0.15	0.18	0.28	0.26
Distance fished (nm)	1.52	1.44	1.46	0.14	1.60	1.52	1.23	1.52	1.52	1.48	0.80	1.02	1.51	1.46
Performance	0	7	0	6	0	0	3	0	0	0	5	2	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	2.61	25.40	0.37	1.33	0.00	0.00	21.42	0.32	79.85	463.70	0.00	523.31	12.60
Pacific cod	0.00	2.43	0.00	0.00	0.00	0.00	0.00	2.25	10.75	10.80	32.40	0.00	0.00	0.00
Sablefish	0.00	0.00	0.74	0.00	2.46	73.80	5.64	0.00	17.20	5.30	0.35	0.00	9.58	3.18
Arrowtooth flounder	0.00	66.30	23.00	10.57	136.40	0.00	45.10	0.22	515.90	47.95	7.10	1.08	26.10	157.10
Pacific halibut	44.30	10.01	0.00	2.25	9.03	0.00	0.00	52.78	0.00	0.00	0.00	0.00	0.00	0.00
Flathead sole	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	3.76	0.33	22.30	0.00
Dover sole	0.00	0.00	0.00	0.00	8.20	109.60	4.70	0.00	1.58	1.79	0.43	0.00	0.00	2.02
Rex sole	0.00	3.68	0.00	0.00	7.80	1.40	2.35	0.55	5.55	0.28	2.01	2.90	0.09	49.40
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.04	27.60	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.22	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	9.46	0.00	20.00	4.68	4.47	5.15
Pacific ocean perch	0.00	0.09	0.00	0.00	2.16	0.00	4.20	0.00	0.00	71.44	0.00	0.00	0.00	0.35
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	5.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	38.75	55.50	0.00	0.05	15.20	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	7.70	103.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish specie	0.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	3046.43	0.00	0.00	0.00	0.00	6.94	0.00	0.00	14.27	0.00	50.99	0.00	325.81
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	24.11	0.00	0.00	0.00	0.00	0.00	4.35	0.00	5.71	0.00	0.50	0.00	4.40
Sculpins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
Skates	0.00	0.00	0.00	0.00	0.00	28.06	46.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	28.20	0.00	0.00	0.00	2.64	4.69	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.14	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	1.46	2.71	0.30	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	56.26	875.23	58.24	13.72	178.07	258.36	254.76	85.27	554.49	243.75	557.28	49.15	866.68	312.40

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	263	264	265
Start date & time	07/25/96	07/26/96	07/26/96
Start latitude	5620.59	5619.16	5608.74
Start longitude	13529.24	13459.57	13503.57
End latitude	5619.89	5618.34	5608.70
End longitude	13528.48	13459.45	13502.18
Gear depth (m)	190.00	135.00	256.00
Duration (h)	0.26	0.27	0.26
Distance fished (nm)	1.54	1.54	1.45
Performance	0	0	0
Gear	172	172	172
Walleye pollock	9.60	11.00	80.20
Pacific cod	23.20	0.00	0.00
Sablefish	12.40	2.48	31.50
Arrowtooth flounder	36.38	86.60	52.00
Pacific halibut	13.26	17.25	0.00
Flathead sole	0.00	0.10	0.00
Dover sole	4.90	0.67	24.50
Rex sole	5.00	21.30	9.75
Rock sole species	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00
English sole	0.00	0.00	0.00
Other flatfish	1.31	3.83	0.00
Pacific ocean perch	327.10	0.00	545.75
Rougheye rockfish	0.00	0.00	0.00
Shortspine thornyhead	12.70	0.00	19.10
Northern rockfish	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00
Dusky rockfish specie	0.00	0.00	0.00
Other rockfish	182.20	0.00	3.54
Atka Mackerel	0.00	0.00	0.00
Lingcod	10.93	0.00	0.00
Sculpins	1.88	0.00	0.79
Skates	0.00	0.00	0.00
Sharks	0.00	13.12	3.21
Tanner crabs	0.00	0.00	0.00
King crabs	0.00	0.00	0.00
Northern pink shrimp	0.00	0.01	0.00
Sidestripe shrimp	0.00	0.00	0.00
Scallops	0.00	0.00	0.00
Red squid	0.00	0.00	7.00
Grand total	507.09	146.89	772.08

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	266	267	268	269	270	271	272	273	274	275	276	277	278	279
Start date & time	07/26/96	07/26/96	07/26/96	07/27/96	07/27/96	07/27/96	07/27/96	07/27/96	07/27/96	07/28/96	07/28/96	07/28/96	07/28/96	07/28/96
Start latitude	5606.54	5538.64	5543.75	5550.84	5539.84	5534.97	5534.02	5514.43	5530.06	5457.72	5453.84	5459.93	5500.48	5510.59
Start longitude	13509.62	13458.24	13448.29	13408.09	13351.47	13352.57	13412.73	13428.23	13431.61	13413.39	13409.89	13345.17	13346.73	13357.09
End latitude	5606.07	5538.48	5542.94	5551.65	5539.03	5535.75	5534.41	5515.02	5529.33	5457.02	5454.61	5459.02	5459.67	5509.78
End longitude	13508.52	13457.25	13448.19	13407.96	13351.26	13352.89	13411.37	13427.34	13432.10	13412.87	13410.26	13345.19	13346.73	13356.86
Gear depth (m)	336.00	202.00	206.00	244.00	104.00	80.00	153.00	211.00	196.00	198.00	198.00	110.00	116.00	134.00
Duration (h)	0.25	0.18	0.26	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.27	0.29	0.27	0.27
Distance fished (nm)	1.45	1.07	1.53	1.51	1.53	1.50	1.61	1.46	1.45	1.43	1.50	1.69	1.52	1.56
Performance	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	3.40	0.00	32.60	24.30	0.30	0.00	0.00	1.85	26.26	1.31	3.55	0.00	0.00	258.37
Pacific cod	0.00	4.10	2.00	15.60	0.00	0.00	0.40	10.40	71.60	0.00	1.81	0.00	0.00	7.50
Sablefish	55.04	0.00	7.40	0.00	0.00	0.00	0.00	7.80	0.00	0.86	5.40	0.00	0.00	0.00
Arrowtooth flounder	121.70	4.46	71.50	64.15	0.60	0.00	12.80	9.50	49.75	5.50	4.73	0.09	0.99	11.70
Pacific halibut	0.00	42.41	30.13	0.00	131.66	24.13	38.28	32.93	0.00	0.00	0.00	370.08	484.67	76.61
Fathead sole	0.00	0.00	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	77.60	0.86	4.12	23.00	0.00	0.00	0.00	1.07	2.95	5.29	2.05	0.00	0.00	0.00
Rex sole	16.50	0.93	13.00	13.50	0.03	0.00	0.68	0.00	0.43	7.14	5.90	0.00	0.00	0.00
Rock sole species	0.00	0.00	0.00	0.00	31.20	20.42	0.00	0.00	0.00	0.00	0.00	21.33	0.00	5.03
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	1.28	0.66	127.70	0.05	0.00	0.67	12.14	0.00	0.00	0.00	0.43	4.58
Pacific ocean perch	378.80	34.70	0.00	0.82	0.00	0.00	0.00	0.52	0.00	112.15	127.37	0.00	0.00	0.00
Rougheye rockfish	130.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thomyhead	45.70	0.00	0.00	5.10	0.00	0.00	0.00	3.23	0.00	1.20	3.96	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	243.00	0.00	0.00	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	1.81	14221.62	0.00	0.59	0.00	0.00	0.00	5127.58	114.93	217.55	164.77	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	4.72	0.00	7.70	0.00	0.00	5.57	7.52	0.00	0.00	0.00	0.00	8.00
Sculpins	0.64	0.00	0.00	0.25	0.00	0.00	0.00	1.02	0.00	1.18	0.78	0.00	0.00	0.00
Skates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.48	0.00	0.00
Sharks	0.00	0.00	8.40	24.40	0.00	0.00	0.00	0.00	13.89	0.00	8.47	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	838.37	3700.00	172.91	212.57	223.73	59.08	63.57	1361.14	199.01	192.82	202.46	401.77	489.76	381.77

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Golden Dawn

Haul number	280	281	282	283	284	285	286	287	288	289
Start date & time	07/28/96	07/29/96	07/29/96	07/29/96	07/29/96	07/30/96	07/30/96	07/30/96	07/30/96	07/30/96
Start latitude	5506.33	5427.75	5433.28	5431.51	5428.94	5451.36	5503.58	5457.06	5448.67	5439.35
Start longitude	13357.20	13343.30	13349.32	13331.54	13327.00	13339.32	13335.84	13320.99	13320.57	13257.19
End latitude	5505.49	5427.29	5432.60	5431.61	5429.20	5451.37	5503.86	5456.46	5447.91	5439.23
End longitude	13357.02	13344.34	13349.12	13330.22	13325.70	13337.93	13334.54	13320.77	13320.70	13258.40
Gear depth (m)	142.00	221.00	249.00	343.00	284.00	119.00	150.00	189.00	143.00	263.00
Duration (h)	0.28	0.26	0.23	0.27	0.26	0.26	0.26	0.21	0.26	0.25
Distance fished (nm)	1.58	1.44	1.29	1.44	1.50	1.51	1.49	1.18	1.44	1.32
Performance	0	0	0	0	0	0	0	3	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	6.15	6.35	0.00	0.00	0.11	118.68	5.01	0.48	21.53
Pacific cod	48.80	20.10	0.00	0.00	0.00	0.00	13.50	0.00	0.00	0.00
Sablefish	3.50	18.50	6.20	8.80	10.00	0.00	14.82	0.00	2.26	13.00
Arrowtooth flounder	402.95	11.20	11.30	10.90	38.35	0.28	145.20	13.50	156.15	12.70
Pacific halibut	114.46	4.15	0.00	0.00	0.00	73.85	4.90	0.00	8.22	0.00
Flathead sole	0.00	0.00	0.00	0.00	0.00	0.00	11.85	0.25	0.00	0.00
Dover sole	0.00	2.32	2.25	53.20	31.17	0.00	2.65	0.00	1.11	30.80
Rex sole	1.09	3.85	12.30	36.70	46.13	2.04	51.80	0.11	10.10	18.00
Rock sole species	4.57	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	12.86	0.22	0.00	0.00	0.00	10.29	3.55	7.79	0.31
Pacific ocean perch	0.00	197.60	279.60	18.15	25.30	0.00	0.00	0.00	0.13	17.55
Rougheye rockfish	0.00	0.00	0.20	2.52	2.25	0.00	0.00	1.20	0.00	35.96
Shortspine thornyhead	0.00	0.00	11.60	36.65	28.10	0.00	0.00	0.00	0.00	69.49
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	32.10	0.00	0.00	0.00	0.00	20.00
Dusky rockfish species	0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	1665.80	128.78	2.84	23.85	3.40	0.00	0.00	0.45	764.04
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	21.70	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	32.53
Skates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharks	23.60	0.00	0.00	0.00	0.00	0.00	0.00	5.74	3.19	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.01	0.00	0.02	0.00	0.00	4.81	0.00	0.04
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.72	0.14	0.39	0.00	0.00	0.00	0.00	0.00
Grand total	610.52	685.95	369.87	176.40	224.44	90.30	375.78	55.05	189.81	508.83

## Section 2 (continued)

### Fishing Log for the F/V Golden Dawn

- Summary listings of selected species catch rates in kilograms of catch per square kilometer trawled

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	187,708.0	1.5	145	158	10,321.4	1.5	186	142	5,008.8	0.6	110	51
	68,055.1	1.5	150	155	10,006.3	1.0	191	81	4,862.0	2.0	364	127
	64,555.0	1.3	94	188	9,751.0	0.5	98	216	4,687.6	1.0	178	201
	55,740.4	1.6	105	133	9,479.1	0.7	163	106	4,602.7	0.3	113	118
	55,251.9	0.8	97	73	9,275.8	1.0	119	52	4,448.5	0.4	92	70
	54,620.6	1.4	137	196	9,002.2	0.7	129	234	4,411.2	1.5	252	112
	46,340.9	1.0	148	157	8,830.8	1.2	178	145	4,374.4	0.9	136	43
	45,377.2	1.1	147	140	8,588.7	1.3	192	146	4,276.4	0.9	194	108
	44,446.6	1.2	164	95	8,584.9	0.9	133	161	4,219.0	0.4	155	71
	39,280.8	1.3	135	60	8,569.6	0.5	78	173	4,196.8	1.6	245	113
	30,850.8	1.5	160	126	8,564.8	0.9	144	94	3,757.5	2.1	339	178
	27,924.3	1.6	185	114	8,501.1	0.8	93	154	3,628.8	0.6	123	252
	27,425.6	0.8	129	63	8,460.1	0.8	60	144	3,594.2	0.8	71	225
	26,960.9	0.8	114	88	7,633.8	1.0	191	101	3,575.2	0.5	135	264
	26,691.2	0.6	109	74	7,607.5	1.0	94	245	3,240.2	1.4	255	59
	26,543.6	0.8	82	141	7,506.8	1.2	105	163	3,208.4	1.0	188	14
	24,111.5	0.8	174	192	7,452.1	0.7	163	262	3,079.7	0.7	157	237
	23,728.8	1.3	68	240	7,131.8	1.0	216	102	3,034.0	1.6	308	80
	23,593.5	1.3	135	202	6,787.8	0.9	241	243	3,033.2	0.3	42	104
	23,494.5	1.0	178	191	6,713.6	0.4	143	288	2,975.3	0.5	129	66
	22,685.8	0.9	188	257	6,666.5	0.4	66	148	2,960.3	0.5	238	49
	21,660.2	0.6	159	156	6,610.1	0.5	156	67	2,955.2	0.6	206	268
	21,163.8	0.7	131	186	6,497.7	1.4	245	111	2,932.4	0.9	184	213
	20,121.7	1.0	220	134	6,453.3	1.0	180	120	2,901.0	1.1	84	169
	19,445.4	0.8	79	172	6,352.6	1.1	246	135	2,870.7	0.7	152	193
	18,460.4	0.7	163	21	6,325.3	0.7	150	286	2,868.8	0.4	107	31
	18,224.9	0.7	142	280	6,056.6	0.7	151	42	2,863.1	0.3	100	84
	18,203.0	0.8	153	93	5,927.4	0.4	109	87	2,775.6	1.3	256	137
	17,586.9	0.7	115	115	5,882.6	1.5	243	110	2,770.8	0.4	143	250
	17,508.8	1.2	249	15	5,752.8	0.9	116	48	2,739.3	1.5	99	226
	17,001.3	1.0	154	79	5,644.7	1.3	151	182	2,716.6	0.9	129	220
	16,679.0	0.8	108	33	5,530.3	0.8	184	107	2,692.9	0.7	147	194
	16,167.5	0.8	194	244	5,488.7	1.4	336	266	2,655.1	1.5	252	229
	12,732.4	1.7	148	187	5,427.0	0.6	124	253	2,649.9	0.7	57	171
	12,161.5	0.7	149	195	5,390.9	0.7	170	72	2,629.1	0.9	244	269
	11,870.5	1.4	177	124	5,149.0	1.7	267	143	2,589.0	0.4	139	180
	11,249.2	1.0	121	160	5,122.4	1.6	143	151	2,536.2	0.4	135	24
	10,622.5	0.7	174	68	5,040.9	0.3	76	56	2,521.1	0.7	138	82

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	2,494.3	1.1	269	122	1,536.2	1.5	155	166	581.8	1.2	200	212
	2,452.2	1.7	359	255	1,532.1	0.8	134	18	564.0	1.3	263	289
	2,426.4	0.3	94	85	1,487.4	0.8	190	263	563.2	1.1	236	231
	2,411.9	0.9	193	34	1,458.6	1.1	259	26	556.7	0.7	169	224
	2,401.8	1.0	256	265	1,445.4	0.6	99	217	552.0	1.3	249	282
	2,369.8	1.4	346	61	1,432.6	0.6	95	27	546.6	0.1	153	272
	2,340.2	0.4	95	40	1,432.5	1.0	215	242	544.3	1.0	276	136
	2,304.2	0.6	133	206	1,424.6	0.6	201	207	535.0	0.8	111	45
	2,299.5	0.9	125	19	1,420.4	0.5	99	218	529.3	1.0	40	64
	2,256.6	0.7	196	274	1,262.8	1.3	332	208	520.8	0.8	221	281
	2,236.9	0.9	110	198	1,212.4	1.1	208	25	518.2	0.4	79	75
	2,235.8	0.8	128	50	1,201.3	0.2	107	3	513.8	0.3	69	54
	2,217.6	0.5	131	165	1,186.0	0.7	185	221	512.3	0.2	84	20
	2,202.5	1.0	85	176	1,172.8	0.6	66	261	509.5	0.2	134	279
	2,202.1	0.4	92	69	1,120.6	0.5	156	215	507.2	1.2	82	189
	2,147.5	1.3	225	258	1,082.8	1.1	193	119	497.0	1.1	343	283
	2,129.1	0.8	160	199	1,063.2	0.4	154	238	496.8	1.0	89	17
	2,105.4	0.8	112	11	1,062.3	0.5	98	103	471.9	0.1	64	41
	2,092.3	1.6	246	78	1,059.5	1.9	210	46	456.6	0.4	71	4
	2,091.4	1.3	288	138	1,026.6	0.3	51	168	424.1	0.5	211	273
	2,071.5	1.3	346	36	1,016.6	1.3	355	62	403.4	0.6	88	44
	2,060.1	2.0	367	205	1,014.8	2.0	280	179	396.0	1.4	325	236
	2,046.3	2.3	335	232	976.2	0.4	154	251	390.2	0.2	24	149
	2,014.5	0.6	130	28	969.9	0.2	59	57	378.4	0.4	66	153
	1,792.0	1.1	190	239	966.1	2.6	220	121	376.7	1.0	212	211
	1,760.7	0.7	99	9	929.5	0.5	84	219	350.4	0.6	60	177
	1,671.4	0.1	53	55	924.2	1.0	69	150	342.0	0.2	61	38
	1,663.6	1.8	221	183	825.7	0.2	155	248	333.1	2.3	401	125
	1,660.1	1.0	152	222	784.2	2.6	293	233	326.8	0.5	70	29
	1,654.5	1.5	354	228	763.5	0.7	201	227	281.5	0.6	150	214
	1,639.2	0.8	189	210	736.2	1.6	73	200	269.1	1.3	238	8
	1,637.4	1.3	249	230	731.8	0.2	189	287	260.6	0.4	198	275
	1,615.5	1.3	213	77	715.3	0.6	75	30	260.3	1.5	202	267
	1,592.0	0.9	284	284	674.4	1.0	251	10	259.7	0.2	72	65
	1,571.4	0.5	124	83	669.7	0.2	58	105	236.5	0.9	88	32
	1,567.9	0.9	213	247	625.8	1.5	241	203	232.5	0.9	114	96
	1,546.0	1.0	253	100	621.0	2.4	286	204	228.1	2.0	75	16
	1,538.9	0.3	79	162	590.2	0.6	71	259	205.3	0.1	45	170

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	201.6	0.4	198	276	77.5	1.2	463	209	12.6	0.1	60	241
	194.2	2.3	71	152	73.7	0.3	126	2	12.4	0.1	90	90
	190.7	1.6	415	13	73.5	1.0	368	58	11.9	0.0	119	285
	190.1	0.6	103	5	69.6	0.1	69	260	9.3	0.1	143	256
	170.9	0.9	262	223	53.1	1.3	33	37	7.6	0.1	94	99
	145.0	0.8	47	147	46.1	0.2	113	7	7.2	0.1	28	139
	129.7	1.3	78	35	43.2	0.0	116	278	4.0	0.1	144	184
	100.1	0.4	108	22	33.6	0.6	76	167	3.4	0.0	110	277
	88.3	0.3	95	76	26.2	0.0	104	270	1.9	0.0	139	246
	83.5	0.1	110	197	17.7	0.1	96	97				



Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Pacific halibut	39,772.8	3.1	60	128	2,784.8	5.6	31	130	1,646.3	3.4	92	69
	21,254.1	5.8	116	278	2,778.7	9.5	78	173	1,634.7	5.5	153	272
	16,094.6	11.4	96	97	2,741.5	11.3	243	110	1,627.5	4.1	99	9
	14,551.8	4.6	110	277	2,657.4	10.2	126	2	1,549.7	4.2	111	45
	12,470.7	5.3	85	176	2,642.8	6.0	109	74	1,500.9	12.7	252	112
	11,879.2	21.6	401	125	2,539.8	3.3	28	139	1,480.8	18.5	170	72
	9,859.6	8.2	144	184	2,474.7	21.2	202	267	1,479.9	3.9	32	53
	9,083.3	12.0	79	47	2,469.2	14.6	99	226	1,469.8	16.5	211	273
	8,366.8	13.9	40	64	2,436.2	2.8	41	131	1,466.0	8.1	137	196
	8,064.8	4.7	69	150	2,376.9	8.5	135	60	1,463.1	5.0	89	17
	7,269.0	2.1	33	37	2,362.2	6.4	93	154	1,447.7	17.2	221	183
	7,011.5	8.3	60	144	2,348.0	5.6	81	89	1,434.4	9.3	262	223
	6,652.4	9.9	105	133	2,326.6	4.9	108	33	1,393.2	1.9	66	153
	6,432.7	7.6	75	16	2,303.6	14.3	213	247	1,374.2	4.6	155	248
	6,310.0	5.0	144	94	2,302.6	3.8	98	103	1,367.9	5.2	135	24
	6,147.0	8.2	88	92	2,287.3	6.0	82	141	1,361.5	15.3	184	107
	5,873.6	10.8	164	95	2,252.0	6.6	143	256	1,344.6	7.0	267	143
	5,737.6	3.9	104	270	2,246.6	29.7	354	228	1,343.6	3.2	75	30
	5,176.8	4.6	142	280	2,160.7	10.4	121	160	1,343.2	3.3	107	31
	5,079.1	1.7	82	189	2,147.6	3.5	114	88	1,301.0	1.6	66	148
	4,704.1	1.8	42	104	2,144.9	4.3	69	54	1,298.2	10.0	163	106
	4,535.5	4.7	115	115	1,984.4	6.8	153	93	1,297.5	31.3	155	166
	3,857.9	4.4	78	35	1,956.9	11.2	154	79	1,291.9	2.9	107	3
	3,686.5	5.5	57	171	1,956.0	5.0	51	168	1,267.8	2.4	79	162
	3,643.1	17.4	124	83	1,947.6	4.1	61	129	1,245.4	15.1	206	268
	3,503.0	2.9	71	152	1,944.8	9.7	143	151	1,242.4	14.9	186	142
	3,496.9	6.2	112	11	1,939.4	2.6	59	57	1,240.2	7.2	160	126
	3,496.4	1.9	51	132	1,927.3	9.0	68	240	1,238.3	1.6	58	105
	3,407.5	15.0	79	172	1,887.3	2.6	90	90	1,213.0	8.6	159	156
	3,342.2	11.3	133	206	1,882.8	4.9	90	91	1,212.1	2.6	94	85
	3,335.9	5.5	134	279	1,879.8	11.6	185	114	1,201.6	10.7	191	101
	3,333.0	1.7	52	117	1,857.8	44.3	91	249	1,154.4	1.8	45	170
	3,173.5	4.9	119	285	1,782.0	11.9	276	136	1,149.5	3.4	100	84
	3,110.1	13.1	102	181	1,742.4	1.0	47	147	1,138.4	3.1	113	118
	3,064.4	15.4	129	63	1,740.5	3.4	94	99	1,128.1	5.0	151	42
	3,006.7	22.6	201	227	1,712.9	16.9	148	1	1,114.1	1.3	44	39
	2,966.9	4.3	76	167	1,690.5	4.3	97	73	1,101.2	9.2	177	124
	2,933.0	5.1	53	55	1,651.7	3.3	64	41	1,096.8	3.6	110	197

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Species	Average				Species	Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Pacific halibut	1,076.1	2.7	80	271										
	1,074.5	4.3	114	96										
	1,070.9	5.1	60	177										
	1,038.5	5.9	116	48										
	1,038.3	4.7	113	7										
	1,031.5	13.0	192	146										
	1,016.4	3.0	136	43										
	1,015.8	6.8	138	82										
	1,011.7	3.5	103	5										
	1,007.0	5.0	92	70										
	985.3	2.9	98	6										
	977.0	1.6	84	20										
	937.8	21.3	215	242										
	895.5	7.3	129	220										
	880.0	5.7	129	66										
	864.0	2.2	79	75										
	849.0	2.2	110	51										
	847.4	9.7	256	137										
	846.8	1.2	73	200										
	840.9	3.5	95	40										
	839.0	3.4	109	87										
	835.8	6.8	150	155										
	827.4	6.4	174	68										
	826.7	8.6	151	182										
	821.3	20.1	325	236										
	808.1	20.1	135	202										
	805.4	8.8	249	15										
	772.8	2.3	123	252										
	721.2	2.3	29	235										
	712.2	5.8	135	264										
	706.8	20.7	280	179										
	703.0	6.5	194	108										
	694.4	16.0	184	213										
692.5	15.0	128	50											
684.3	1.7	95	27											
679.4	17.4	152	193											
673.2	3.9	70	29											
662.0	8.6	108	22											

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Flathead sole	15,144.9	0.5	69	54	1,589.3	0.3	100	84	424.4	0.4	194	108
	15,031.5	0.3	119	52	1,399.6	0.3	64	41	406.5	0.2	124	83
	13,672.0	0.2	105	163	1,367.1	0.4	59	57	404.5	0.4	186	142
	12,724.2	0.7	115	115	1,360.8	0.4	129	234	400.4	0.8	113	118
	12,549.4	0.3	121	160	1,321.8	0.1	155	71	387.2	0.1	194	244
	7,907.2	0.2	66	148	1,292.0	0.4	246	135	369.8	0.5	94	188
	7,423.8	0.4	95	40	1,259.8	0.2	178	201	357.5	0.4	75	30
	6,384.1	0.5	93	154	1,233.8	1.1	61	129	346.9	0.3	163	106
	6,110.8	0.3	178	145	1,220.3	0.8	99	226	344.1	0.3	109	87
	5,594.6	0.4	51	168	1,155.6	0.3	53	55	314.0	0.3	238	49
	5,022.8	0.1	92	70	1,112.0	0.3	143	151	313.5	0.3	68	240
	4,761.3	0.3	60	144	1,096.8	0.3	45	170	312.6	0.1	71	259
	4,443.8	0.4	163	21	1,023.8	0.3	188	14	302.0	0.5	276	136
	4,323.0	0.4	155	166	1,002.1	0.2	66	261	297.9	0.3	184	107
	4,005.7	0.6	84	169	896.8	0.3	216	102	271.3	0.3	185	221
	3,821.0	0.6	131	165	867.9	0.4	220	134	249.6	0.2	84	219
	3,209.2	0.4	145	158	863.5	0.2	129	220	246.4	0.9	137	196
	3,147.5	0.3	76	56	844.1	0.3	185	114	246.1	0.4	346	36
	3,015.2	0.6	42	104	784.8	0.3	110	198	240.2	0.4	245	113
	2,836.8	0.3	57	171	750.1	0.2	136	43	237.2	0.4	108	33
	2,694.6	0.4	147	140	731.1	0.3	148	187	227.9	0.8	70	29
	2,651.3	0.2	174	68	719.4	0.1	94	245	217.4	0.4	191	101
	2,598.6	0.3	249	15	708.5	0.3	105	133	217.0	0.7	267	143
	2,536.4	0.3	191	81	689.6	0.5	98	216	209.8	0.3	79	162
	2,532.0	0.2	24	149	683.1	0.2	107	31	197.8	0.2	32	53
	2,460.8	0.5	189	210	667.3	0.4	114	88	195.8	0.2	269	122
	2,457.9	0.2	138	82	604.6	0.4	61	38	163.7	0.4	213	77
	2,442.2	0.2	133	161	577.3	0.4	192	146	159.6	0.3	98	103
	2,425.5	0.3	150	155	570.0	0.4	174	192	150.1	0.3	76	167
	2,403.1	0.2	170	72	518.6	0.3	58	105	148.6	0.6	135	202
	2,110.0	0.8	71	225	516.2	0.2	150	286	127.7	0.6	109	74
	2,006.1	0.3	79	172	515.2	0.5	156	215	126.8	0.1	99	217
	1,953.1	0.1	156	67	511.9	0.5	47	147	126.1	0.4	288	138
	1,824.5	0.2	159	156	511.6	0.3	148	157	125.4	0.4	72	65
	1,810.6	0.2	151	42	463.6	0.2	94	85	122.1	0.1	99	218
	1,687.7	0.3	78	173	453.0	0.7	97	73	119.0	0.1	241	243
	1,604.1	0.5	110	51	452.0	0.5	212	211	112.8	0.2	107	3
	1,593.8	0.2	129	66	450.4	0.3	149	195	106.6	0.2	206	268

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Flathead sole	98.8	0.2	208	25	37.4	0.5	95	27	20.0	0.2	160	126
	86.9	0.2	160	199	34.9	0.2	28	139	18.9	0.5	253	100
	85.2	0.4	154	79	34.5	0.2	259	26	18.0	0.5	79	47
	85.1	0.5	79	75	27.4	0.2	84	20	17.8	0.1	150	214
	82.3	0.4	255	59	25.6	0.6	325	236	17.3	0.1	215	242
	81.2	0.4	256	137	24.5	0.6	60	177	13.4	0.1	189	287
	62.8	0.7	152	222	23.2	0.5	82	141	11.3	0.3	245	111
	62.2	0.4	246	78	22.6	0.3	135	24	8.8	0.2	251	10
	58.4	0.5	252	112	21.8	0.5	201	207	8.3	0.2	180	120
	57.4	0.3	190	239	21.3	0.5	124	253	7.3	0.0	154	238
	51.1	0.3	92	69	21.2	0.2	69	260	7.2	0.1	60	241
	47.2	0.7	193	34	21.2	0.4	243	110	6.9	0.2	130	28
	42.9	0.3	44	39	20.5	0.2	139	180	4.1	0.1	135	264
	Petrale sole	1,255.1	1.1	104	270	100.1	1.1	188	257	49.9	1.2	134
135.2		1.0	196	274	62.3	1.5	143	288	39.6	1.0	135	264
130.2		0.7	221	281	54.9	1.2	163	262	23.9	0.6	110	51
English sole	1,662.6	0.3	71	259	133.2	0.8	71	225	38.7	1.2	107	3
	1,390.3	0.5	68	240	124.6	0.7	84	219	31.8	0.7	184	213
	300.2	0.2	69	260	108.9	2.5	131	165	22.7	0.2	24	149
	181.2	1.0	47	147	102.4	0.4	150	286	13.7	0.3	263	289
	180.2	1.1	99	226	79.5	1.1	114	88	9.6	0.1	29	235
	142.2	0.3	66	261	42.6	0.5	185	221	5.3	0.1	79	162

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

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Dover sole	6,256.4	0.9	184	213	669.6	1.0	68	240	247.7	0.9	368	58
	4,547.3	0.7	409	254	667.4	0.8	178	201	245.1	0.8	241	203
	3,499.8	0.5	336	266	638.0	0.8	201	207	244.7	1.9	154	79
	3,018.1	1.1	346	61	635.4	0.8	355	62	238.6	2.6	159	156
	2,648.6	1.0	194	244	615.0	1.1	401	125	238.0	0.8	129	234
	2,425.8	0.5	343	283	602.1	1.8	216	102	237.6	1.0	152	193
	2,378.1	1.1	325	236	580.2	1.5	105	133	236.6	1.2	151	182
	2,158.8	1.0	149	195	568.9	1.1	137	196	232.5	1.3	145	158
	2,064.1	1.0	241	243	546.0	1.9	113	118	225.6	1.2	136	43
	1,663.5	0.7	252	229	543.3	1.1	280	179	211.5	1.1	109	74
	1,599.5	1.0	147	194	529.6	1.3	186	142	200.4	0.4	190	263
	1,457.1	0.9	189	210	527.2	0.8	367	205	199.5	1.3	354	228
	1,403.8	1.1	147	140	526.2	0.9	135	202	179.4	1.0	238	49
	1,367.7	0.6	263	289	518.3	0.9	143	151	175.7	0.8	335	232
	1,352.9	1.4	191	101	501.1	1.5	164	95	170.3	0.4	206	268
	1,324.5	0.9	269	122	490.3	1.0	192	146	144.7	0.3	213	247
	1,294.0	0.6	284	284	489.4	0.7	332	208	133.8	0.5	196	274
	1,212.3	1.0	71	225	477.0	0.7	293	233	124.3	1.4	99	218
	1,190.6	1.1	99	226	474.1	1.3	308	80	123.3	1.4	163	106
	1,187.4	1.1	185	114	469.0	1.6	255	59	119.5	1.2	243	110
	1,169.1	0.6	236	231	450.0	0.7	185	221	118.0	1.5	245	113
	1,131.6	0.5	256	265	446.9	1.0	190	239	115.4	0.3	150	286
	1,089.5	0.7	212	211	438.9	0.9	153	93	110.0	0.3	249	282
	984.4	1.1	246	78	405.0	1.4	177	124	108.1	0.5	221	281
	942.6	0.5	244	269	387.6	0.5	463	209	98.3	1.2	200	212
	923.4	1.0	339	178	362.6	2.1	133	161	95.8	0.7	163	262
	907.3	1.0	148	187	335.1	1.2	110	198	87.5	0.4	198	276
	896.6	0.7	286	204	334.9	0.9	97	73	86.5	2.0	256	137
	879.8	1.3	193	119	331.5	1.7	129	63	83.5	0.6	79	172
	826.8	1.0	129	220	327.7	1.2	191	81	83.0	1.8	128	50
	825.7	0.9	262	223	326.3	0.6	124	253	80.4	1.0	252	112
	763.5	1.0	201	227	315.9	0.8	180	120	80.4	1.8	215	242
	751.6	1.0	364	127	312.7	0.7	99	217	80.3	0.6	225	258
	750.7	0.7	94	245	297.8	1.2	169	224	78.1	0.9	115	115
	726.5	1.1	156	215	278.4	1.2	135	60	69.5	0.4	188	257
	721.3	1.2	174	192	255.5	1.2	359	255	65.5	0.8	144	94
	700.8	1.5	160	126	252.0	1.6	213	77	57.7	1.3	178	191
	685.6	0.6	249	230	250.5	0.4	198	275	53.3	1.3	346	36

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Species	Average				Species	Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Dover sole	52.7	1.2	47	147										
	51.5	1.3	94	188										
	50.4	0.4	202	267										
	47.8	0.3	143	288										
	47.8	0.3	211	273										
	44.7	1.2	220	134										
	39.1	1.1	245	111										
	35.6	0.1	71	259										
	33.8	0.4	42	104										
	29.9	0.8	154	238										
	29.2	0.7	157	237										
	27.7	0.3	135	264										
	25.1	0.7	288	138										
	22.6	0.6	251	10										
	20.0	0.2	66	148										
	18.9	0.4	249	15										
	12.4	0.3	45	170										
	6.9	0.2	58	105										
	5.8	0.1	139	246										
	4.0	0.1	155	248										

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Rex sole	4,011.2	0.8	108	33	642.1	0.6	105	133	291.9	0.3	293	233
	3,901.0	0.5	255	59	600.8	0.1	249	282	289.5	0.2	213	247
	2,631.2	0.4	269	122	576.8	0.5	147	140	287.8	0.2	325	236
	2,343.3	0.2	163	262	568.7	0.5	114	88	286.7	0.7	107	3
	2,256.6	0.2	150	286	553.3	0.3	244	269	274.6	0.3	208	25
	2,099.1	0.7	135	24	539.6	0.3	194	244	251.7	0.2	198	276
	2,023.7	0.7	191	101	537.3	0.2	206	268	246.2	0.5	97	73
	1,926.7	1.0	133	161	533.1	0.3	68	240	244.8	0.2	215	242
	1,915.0	0.2	284	284	529.2	0.4	346	36	244.2	0.2	188	257
	1,805.7	0.6	160	126	520.5	0.2	236	231	243.4	0.6	193	34
	1,725.9	0.6	143	151	504.9	1.0	185	114	241.7	0.8	243	110
	1,673.5	0.2	343	283	480.4	0.5	107	31	224.9	0.9	238	8
	1,395.1	0.5	137	196	468.6	0.8	135	60	223.9	0.7	245	113
	1,345.8	0.3	185	221	465.6	0.8	78	173	223.0	0.2	286	204
	1,199.1	0.4	99	226	450.3	0.3	256	265	220.2	0.7	130	28
	1,185.1	0.9	191	81	442.9	0.5	192	146	214.4	0.3	174	68
	1,135.9	0.5	147	194	438.4	0.2	252	229	209.8	0.3	94	245
	1,120.2	0.5	180	120	434.2	0.2	143	288	205.0	0.2	262	223
	1,115.4	0.5	151	182	426.5	0.6	174	192	204.4	0.2	190	263
	1,109.6	0.6	139	180	412.9	0.6	152	193	200.1	0.3	201	207
	1,017.4	0.6	148	187	409.8	0.3	241	203	191.4	0.7	194	108
	1,000.1	0.8	253	100	405.9	0.7	163	21	186.0	0.1	69	260
	917.6	0.8	136	43	401.7	0.6	246	78	184.3	1.4	131	165
	897.1	0.5	238	49	393.2	0.7	210	46	179.0	0.2	221	281
	889.6	0.9	79	172	384.2	0.2	71	225	178.0	0.3	368	58
	879.4	0.3	135	264	353.3	0.5	251	10	170.4	0.8	154	79
	871.7	0.5	193	119	338.2	0.2	198	275	166.9	0.1	71	259
	860.3	0.4	149	195	329.6	0.5	308	80	165.7	0.8	129	63
	850.6	0.4	364	127	329.2	0.3	259	26	154.0	0.3	143	250
	799.3	0.2	263	289	326.4	0.4	339	178	153.4	0.1	170	72
	769.8	0.2	129	220	323.6	0.9	113	118	137.4	0.3	129	66
	760.2	0.8	216	102	323.4	0.8	110	51	131.4	0.7	184	107
	744.2	0.3	336	266	321.3	0.3	133	206	127.8	0.3	359	255
	690.9	0.4	135	202	314.1	0.7	213	77	124.3	0.8	177	124
	682.8	0.2	241	243	313.6	0.2	178	201	117.7	0.3	354	228
	672.3	0.2	212	211	310.3	0.2	124	253	109.3	0.5	98	103
	653.4	0.2	249	230	307.5	0.8	145	158	106.8	0.2	189	210
	642.3	0.5	109	74	303.2	0.7	150	155	101.8	0.3	157	237

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Rex sole	100.1	0.2	184	213	23.0	0.3	156	67				
	95.3	0.6	410	12	22.1	0.1	100	84				
	94.8	0.3	152	222	20.5	0.1	99	217				
	94.4	1.2	94	188	19.6	0.1	196	274				
	91.9	0.4	110	198	19.4	0.5	245	111				
	87.8	0.2	119	285	18.7	0.1	60	144				
	85.6	0.2	156	215	18.2	0.3	134	18				
	81.9	1.0	252	112	17.8	0.1	99	218				
	77.1	0.5	124	83	16.9	0.4	190	239				
	74.8	0.3	98	216	16.9	0.2	92	69				
	71.2	0.9	115	115	14.0	0.4	280	179				
	66.8	0.6	346	61	13.6	0.3	139	246				
	64.1	0.1	155	71	13.5	0.3	355	62				
	61.4	0.2	463	209	13.0	0.3	178	145				
	60.5	0.7	186	142	12.4	0.3	225	258				
	59.4	0.7	246	135	11.5	0.1	72	65				
	58.6	0.1	92	70	10.3	0.1	105	163				
	58.1	0.2	200	212	9.3	0.3	138	82				
	58.0	0.3	409	254	7.6	0.3	188	14				
	56.5	0.3	201	227	7.4	0.1	112	11				
	54.0	0.2	202	267	6.9	0.1	58	105				
	54.0	0.3	367	205	5.7	0.0	189	287				
	49.7	1.2	155	166	5.7	0.1	42	104				
	49.4	0.1	142	280	4.9	0.1	249	15				
	48.8	0.2	154	238	4.0	0.1	66	261				
	45.3	1.1	79	162	3.8	0.1	66	148				
	40.8	0.4	119	52	3.8	0.1	125	19				
	38.0	0.9	51	168	1.4	0.0	159	156				
	36.2	0.3	151	42	1.1	0.0	104	270				
	30.7	0.7	85	176								
	29.8	0.1	94	85								
	29.1	0.2	153	272								
	28.4	0.1	95	27								
	26.6	0.6	178	191								
	26.5	0.4	220	134								
	25.6	0.3	129	234								
	23.4	0.2	143	256								
	23.0	0.5	128	50								



Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
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Yellowfin sole	15,986.1	0.5	24	149	2,915.0	0.3	45	170	1,071.7	0.7	92	70
	13,327.7	0.4	53	55	2,586.5	0.4	64	41	658.0	0.6	84	169
	11,803.1	0.3	69	54	2,455.9	0.6	76	56	330.4	0.3	58	105
	10,287.1	0.3	32	53	2,179.7	0.5	57	171	279.5	0.3	66	261
	4,804.7	0.6	42	104	1,941.1	0.7	51	168	244.4	0.8	121	160
	3,505.1	0.5	66	148	1,694.0	0.4	61	38	218.3	1.1	93	154
	3,398.4	0.7	105	163	1,570.3	0.6	59	57	40.7	0.9	60	144
	3,043.8	0.4	28	139	1,221.3	0.4	33	37	14.6	0.3	44	39
Butter sole	3,799.8	0.4	28	139	308.4	0.3	51	168	38.5	0.7	121	160
	3,421.4	0.4	24	149	161.6	0.5	59	57	26.3	0.6	85	176
	2,833.7	0.6	93	154	145.4	0.2	42	104	22.6	0.4	76	56
	1,758.4	0.4	45	170	105.7	0.4	143	151	18.5	0.4	66	153
	1,076.8	0.4	53	55	104.8	0.3	57	171	12.9	0.3	60	144
	966.6	0.3	113	118	51.5	0.6	44	39	11.7	0.3	68	240
	603.7	0.6	60	177	41.4	1.0	155	166	9.5	0.2	147	140
	311.3	0.4	75	30	40.7	0.4	29	235				
Alaska plaice	1,823.2	1.6	69	54	323.5	0.9	64	41	153.5	2.6	76	56
	921.1	0.9	24	149	302.3	1.4	60	144	116.4	1.2	78	173
	729.0	1.4	51	168	294.5	0.8	45	170	63.9	1.5	58	105
	623.7	1.5	42	104	216.1	2.3	84	169	63.5	1.4	79	172
	584.9	2.8	93	154	184.5	1.3	66	148				
	404.9	1.0	28	139	178.7	1.2	32	53				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

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Rock sole sp.	37,524.2	0.8	75	16	3,775.1	0.4	64	41	671.5	0.7	88	32
	28,761.3	0.8	79	162	3,764.2	0.4	84	20	669.4	0.7	90	90
	23,651.3	0.5	59	57	3,700.6	1.1	112	11	626.3	0.6	110	197
	21,428.9	0.7	108	22	3,611.1	0.9	96	97	583.9	0.7	144	184
	18,071.3	0.5	35	86	3,447.0	1.2	110	51	460.4	1.5	41	131
	18,022.7	0.5	40	64	3,224.7	0.6	70	29	407.4	0.7	125	19
	14,164.9	0.6	33	37	2,966.3	0.8	82	141	359.6	0.5	57	171
	13,979.4	0.9	61	129	2,879.1	0.7	130	28	356.4	0.6	90	91
	12,014.0	0.5	28	139	2,526.8	1.1	73	200	323.7	0.6	151	42
	10,077.5	0.3	76	56	2,371.7	0.5	163	21	322.2	1.4	79	47
	9,187.9	0.9	71	4	2,315.3	0.5	42	104	307.3	0.2	45	170
	9,172.3	0.6	98	6	2,313.1	0.6	94	188	284.4	0.9	109	87
	8,952.5	0.5	79	75	2,145.7	0.8	107	3	219.2	0.8	134	279
	8,806.1	0.3	53	55	2,011.2	1.0	92	69	217.7	1.7	115	115
	7,867.7	0.4	66	153	1,954.5	0.7	78	23	217.5	0.2	136	43
	7,695.1	0.7	103	5	1,945.5	0.7	82	189	206.5	0.8	142	280
	7,414.8	0.5	58	105	1,861.0	0.7	131	186	197.9	0.7	60	144
	7,377.8	0.7	71	152	1,816.1	0.4	72	65	179.8	1.3	128	50
	6,835.5	0.5	47	147	1,771.0	0.3	69	260	159.7	1.3	147	140
	6,764.8	0.7	69	150	1,761.1	0.4	95	40	158.2	0.6	93	154
	6,389.0	0.6	32	53	1,731.4	0.5	78	35	149.9	0.3	145	158
	6,383.5	0.5	69	54	1,705.6	0.8	95	76	141.1	0.3	119	52
	6,220.2	0.5	113	7	1,613.6	1.1	52	117	109.5	0.8	84	169
	6,107.3	0.5	75	30	1,400.8	0.8	126	2	108.6	0.8	151	182
	5,960.2	0.3	95	27	1,359.7	0.5	104	270	101.7	0.8	216	102
	5,615.7	0.8	94	85	1,329.6	0.6	97	73	97.0	0.8	109	74
	5,402.3	1.3	51	132	1,240.4	0.4	88	44	89.8	0.8	135	24
	5,243.8	0.8	89	17	1,237.6	1.0	119	285	87.8	0.6	249	15
	5,200.1	0.4	24	149	1,221.4	0.6	81	89	69.4	0.3	107	31
	5,013.4	0.6	66	148	1,167.2	0.8	71	259	68.8	0.6	114	96
	4,857.2	0.8	98	103	1,103.0	0.5	94	99	66.2	0.5	246	78
	4,749.2	1.0	60	177	1,037.2	1.2	76	167	65.6	0.5	154	79
	4,705.9	0.6	88	92	910.4	0.5	80	271	62.1	0.2	51	168
	4,696.5	0.7	99	9	880.1	1.7	85	176	61.9	0.5	92	70
	4,050.1	0.6	108	33	838.7	0.5	110	277	54.0	0.2	339	178
	4,014.5	0.2	61	38	790.5	1.0	114	88	45.5	0.5	188	14
	3,951.6	0.5	44	39	748.9	1.4	79	172	44.0	0.4	129	66
	3,872.3	1.6	60	128	695.8	0.9	100	84	25.3	0.2	164	95

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Sablefish	24,052.0	3.8	293	233	376.7	2.2	410	12	942.6	6.5	243	110
	17,011.1	5.4	335	232	368.3	4.2	256	137	860.2	1.3	221	281
	9,985.7	3.5	221	183	230.4	2.7	198	276	20.4	0.5	57	171
	8,254.9	3.4	241	203	226.6	0.8	194	244	13.2	0.3	95	40
	8,211.6	3.0	220	121	218.8	1.5	288	138	9.1	0.2	245	113
	6,004.8	2.0	116	48	213.2	1.6	184	213	354.0	3.0	94	188
	5,937.1	3.2	367	205	187.9	2.2	154	79	348.2	3.9	211	273
	5,428.5	2.4	210	46	183.6	5.0	180	120	346.2	0.5	129	220
	5,025.4	3.1	463	209	180.0	0.9	185	221	340.4	1.1	262	223
	3,503.8	2.6	160	126	179.3	4.3	186	142	340.0	1.4	200	212
	3,436.5	2.9	191	101	171.9	0.7	110	198	306.7	2.8	359	255
	3,184.4	3.3	280	179	158.3	0.9	142	280	305.9	0.7	206	268
	3,062.0	3.5	409	254	151.0	0.5	163	262	302.8	3.1	249	282
	2,800.4	3.2	253	100	148.4	3.7	177	124	301.8	2.7	346	61
	2,482.3	3.7	336	266	147.1	3.6	150	155	297.7	1.8	252	229
	2,444.5	4.1	252	112	141.4	1.8	185	114	293.1	3.3	178	191
	2,278.7	3.4	364	127	117.6	0.9	201	227	263.7	1.7	148	157
	2,154.0	3.3	152	193	102.5	0.8	135	264	252.0	1.1	178	201
	2,015.2	2.9	339	178	97.9	0.6	124	253	246.3	1.6	415	13
	2,006.6	3.1	354	228	97.1	0.6	143	288	243.2	1.9	236	231
	793.8	3.0	269	122	91.6	0.3	53	55	242.3	2.2	276	136
	772.6	2.6	246	135	88.5	1.1	149	195	237.4	2.7	225	258
	756.3	1.0	188	257	1,708.7	2.2	213	77	230.7	1.9	189	210
	651.5	2.8	174	192	1,531.0	2.9	325	236	88.3	0.7	251	10
	645.6	0.5	150	286	1,517.8	1.6	346	36	85.9	0.5	84	219
	624.0	1.8	259	26	1,454.9	3.9	256	265	85.1	2.0	108	33
	577.3	4.3	263	289	1,434.4	1.0	241	243	84.8	2.3	193	34
	542.2	4.5	135	202	1,409.3	4.8	401	125	83.1	2.2	131	186
	508.3	3.0	355	62	1,381.6	2.2	246	78	76.4	0.6	71	225
	507.0	2.1	190	263	1,331.9	7.6	215	242	69.5	0.8	157	237
	469.8	1.0	212	211	1,321.7	2.1	255	59	57.0	0.2	32	53
	459.8	3.0	147	194	1,276.0	3.2	201	207	52.2	1.3	238	8
	430.7	0.5	66	261	1,237.7	3.5	286	204	48.8	0.6	190	239
	424.0	2.9	137	196	1,231.6	4.2	245	111	40.8	0.9	198	275
	416.4	3.0	159	156	1,130.0	2.3	368	58	39.3	0.5	94	245
	415.1	1.4	284	284	1,074.9	2.5	220	134	36.7	0.8	60	144
	401.3	1.8	343	283	1,035.0	1.5	148	187	33.9	0.9	66	148
	388.9	3.0	332	208	988.8	3.1	308	80	33.6	0.8	213	247

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Sablefish	31.4	0.7	154	251	29.4	0.4	71	259	28.7	0.8	154	238
Pacific cod	29,954.0	2.9	98	103	3,485.5	2.3	78	35	1,739.6	1.2	148	187
	22,351.7	4.3	115	115	3,388.7	3.3	177	124	1,659.4	1.3	64	41
	21,333.7	3.0	114	96	3,339.4	2.3	109	87	1,658.2	2.1	60	144
	21,082.0	1.8	108	22	3,247.7	1.8	196	274	1,622.2	2.3	186	142
	18,842.1	1.7	92	69	3,093.2	3.4	155	166	1,609.1	8.5	135	24
	17,215.7	3.1	52	117	3,068.7	3.3	125	19	1,518.3	2.5	193	34
	14,512.3	0.8	79	162	3,029.4	1.0	58	105	1,513.2	2.8	180	120
	12,709.0	2.2	131	186	2,979.9	2.4	79	75	1,484.1	4.4	68	240
	12,340.5	2.9	164	95	2,936.7	2.0	129	66	1,460.2	2.4	213	77
	10,981.2	2.7	135	60	2,882.6	3.5	145	158	1,429.6	3.6	252	112
	10,489.2	2.6	154	79	2,835.2	3.3	113	118	1,418.4	4.4	112	11
	9,826.0	6.2	103	5	2,792.5	3.2	93	154	1,353.0	1.5	85	176
	9,633.3	2.9	90	90	2,787.9	2.8	153	93	1,319.7	2.7	97	73
	9,533.8	2.8	192	146	2,721.6	1.7	76	56	1,298.3	1.9	160	126
	9,495.5	1.9	149	195	2,712.1	2.8	28	139	1,253.5	1.0	53	55
	9,320.2	2.9	134	18	2,693.5	0.8	71	259	1,166.2	0.8	24	149
	9,250.2	3.2	61	129	2,648.0	3.6	150	155	1,079.7	2.4	130	28
	7,873.1	0.1	69	150	2,526.7	1.7	94	85	1,064.4	2.7	135	202
	7,550.3	4.1	95	27	2,443.1	5.3	249	15	1,044.7	5.9	188	14
	6,825.2	3.3	243	110	2,381.9	3.8	121	160	1,028.2	1.9	78	173
	6,335.2	2.6	151	182	2,368.3	1.3	147	194	1,028.1	2.9	155	71
	5,768.5	5.9	105	163	2,336.1	3.1	178	191	998.7	2.8	107	3
	5,499.3	2.1	108	33	2,214.1	2.5	71	4	989.9	3.0	126	2
	5,455.9	2.9	114	88	2,207.2	1.4	142	280	958.6	2.8	75	16
	5,377.4	1.7	32	53	2,196.4	2.1	133	206	948.6	2.9	190	263
	5,328.7	2.4	69	54	2,134.2	3.7	245	111	934.6	3.4	221	281
	5,069.8	1.9	40	64	2,132.5	2.8	84	169	882.6	2.0	95	40
	4,993.1	2.7	89	17	2,085.0	0.9	94	188	856.4	3.1	99	9
	4,991.8	4.3	113	7	2,010.2	3.2	42	104	808.4	3.6	288	138
	4,350.1	1.9	151	42	1,996.5	3.0	193	119	781.3	3.5	57	171
	4,161.3	3.5	143	151	1,988.8	2.7	129	63	768.9	3.5	133	161
	4,039.5	0.7	66	153	1,859.8	2.2	84	20	735.6	2.6	82	141
	3,726.7	4.8	105	133	1,856.3	2.9	79	172	726.2	1.2	100	84
	3,564.5	3.0	88	32	1,849.0	3.4	98	6	708.2	1.4	124	83

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Pacific cod	655.0	1.8	111	45	239.2	2.1	202	267				
	640.2	2.5	45	170	236.7	2.3	148	1				
	639.3	3.1	244	269	226.7	2.6	184	107				
	615.8	2.8	163	106	210.3	1.7	75	30				
	614.3	3.5	131	165	210.1	4.1	41	131				
	588.1	3.4	150	286	205.9	3.0	107	31				
	572.6	2.1	152	193	203.2	1.5	59	57				
	534.5	1.8	88	44	196.8	0.8	72	65				
	521.8	4.0	256	137	166.6	0.3	76	167				
	483.7	2.2	225	258	156.6	4.2	276	136				
	473.1	1.8	116	48	154.4	3.3	159	156				
	472.7	2.7	188	257	147.0	0.1	33	37				
	466.6	2.6	47	147	141.7	3.4	253	100				
	464.2	2.6	211	273	138.6	1.6	174	68				
	451.5	1.8	70	29	133.8	3.5	136	43				
	427.6	3.6	51	132	130.1	2.9	238	49				
	419.7	2.3	119	52	128.1	3.0	71	225				
	419.0	2.9	194	108	123.7	2.9	236	231				
	410.4	3.8	220	134	119.9	2.6	163	21				
	404.7	3.6	191	101	116.5	2.7	51	168				
	402.2	3.5	262	223	116.0	2.3	210	46				
	384.4	2.3	208	25	103.0	2.4	246	135				
	383.0	2.3	110	51	101.5	2.4	143	250				
	379.9	1.9	95	76	99.0	0.4	35	86				
	379.6	2.2	246	78	96.0	0.8	143	256				
	341.1	2.7	255	59	92.2	2.0	128	50				
	340.9	4.1	82	189	91.9	2.5	88	92				
	326.6	0.4	134	279	82.7	2.0	206	268				
	322.0	3.8	99	226	77.1	0.9	198	276				
	315.4	2.0	92	70	63.1	1.5	184	213				
	314.6	2.0	147	140	28.1	0.7	110	197				
	307.2	1.9	109	74	23.6	0.2	60	177				
	304.4	1.4	137	196	17.0	0.2	153	272				
	299.1	3.7	178	145	15.7	0.4	66	148				
	288.7	3.4	144	94	0.3	0.0	69	260				
	283.2	0.1	44	39								
	276.1	4.3	267	143								
	252.8	1.0	61	38								

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Walleye pollock	189,383.5	1.3	143	151	2,243.0	0.1	194	108	597.7	0.2	185	114
	139,411.9	1.0	105	133	2,184.3	0.3	99	226	597.7	0.1	163	262
	118,301.6	1.2	79	172	1,989.5	1.5	66	148	595.5	0.4	241	243
	66,093.0	1.2	78	173	1,986.4	1.1	246	78	576.5	1.2	249	15
	54,714.6	1.5	150	155	1,819.8	1.0	193	34	563.9	1.3	98	103
	50,981.7	1.6	145	158	1,685.4	0.7	236	231	562.3	0.3	246	135
	43,375.4	1.2	84	169	1,624.9	0.6	325	236	561.8	0.6	178	145
	38,548.3	0.1	71	259	1,594.1	1.3	75	30	549.0	0.0	84	219
	33,504.2	1.7	69	54	1,412.6	0.2	220	134	525.2	1.0	180	120
	23,515.0	0.1	66	261	1,379.9	0.6	194	244	504.1	1.2	174	192
	21,369.2	1.4	51	168	1,347.4	0.5	206	268	494.2	1.0	286	204
	19,316.3	1.1	95	40	1,340.7	0.2	94	99	485.9	0.9	238	8
	18,226.0	1.5	105	163	1,336.3	1.2	76	167	472.3	0.1	76	56
	17,423.2	1.4	133	161	1,242.5	0.5	245	111	454.9	0.8	276	136
	16,762.2	1.6	192	146	1,190.9	0.3	196	274	454.1	0.1	135	264
	16,649.8	1.4	159	156	1,110.5	0.6	269	122	431.0	1.1	135	24
	14,317.9	1.2	42	104	1,078.0	0.3	154	251	426.9	0.5	71	225
	12,939.5	1.0	108	33	1,035.2	0.8	155	166	426.5	0.2	178	201
	12,274.4	1.2	60	144	1,018.0	0.6	184	107	423.0	0.1	84	20
	11,250.6	0.1	134	279	995.9	0.9	244	269	421.5	0.5	78	35
	10,631.9	0.8	92	70	991.3	1.3	238	49	420.6	0.8	185	221
	9,184.8	1.8	93	154	956.1	1.5	263	289	417.2	1.0	212	211
	8,020.3	0.5	213	247	943.3	0.2	245	113	411.6	0.6	174	68
	7,998.5	1.2	151	42	914.0	0.0	143	256	392.5	0.4	190	263
	7,218.6	1.5	121	160	834.6	0.8	267	143	366.8	0.3	68	240
	6,167.8	1.0	186	142	823.6	1.2	107	31	362.8	0.2	95	76
	5,170.0	0.2	150	286	815.2	1.4	134	18	323.7	0.0	72	65
	5,151.3	0.8	147	140	810.5	0.5	129	220	312.6	1.0	210	46
	5,141.8	0.7	213	77	784.9	0.9	113	7	310.9	0.3	79	75
	5,135.8	1.3	125	19	765.1	1.7	73	200	310.2	1.1	249	282
	4,923.3	1.2	24	149	751.5	0.1	33	37	307.5	0.7	216	102
	3,704.3	0.9	256	265	749.2	0.6	288	138	286.0	0.5	221	281
	3,576.3	0.6	225	258	745.1	1.1	193	119	283.0	0.8	208	25
	3,394.1	1.0	95	27	715.4	0.7	243	110	279.7	0.6	116	48
	2,953.6	0.1	58	105	702.7	0.9	410	12	279.2	1.0	253	100
	2,893.8	1.1	110	51	682.0	1.1	135	60	273.0	0.3	364	127
	2,399.3	1.1	130	28	665.1	1.2	255	59	271.7	0.2	189	287
	2,243.1	0.8	252	112	633.7	0.0	79	162	268.2	0.8	124	83

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Walleye pollock	267.5	0.3	256	137	92.2	1.0	111	45	26.4	0.0	144	94
	260.3	0.1	190	239	91.5	0.8	262	223	26.4	0.2	149	195
	259.2	0.7	293	233	87.0	0.8	89	17	25.8	0.6	70	29
	257.6	1.9	178	191	83.2	0.3	191	101	25.8	0.8	107	3
	254.1	0.9	249	230	82.6	1.9	211	273	24.1	0.0	154	238
	249.9	1.0	200	212	81.7	0.5	94	85	23.8	0.6	415	13
	249.5	1.0	170	72	79.2	0.1	66	153	21.0	0.1	157	237
	248.9	1.1	259	26	78.2	0.5	126	2	20.6	0.1	143	288
	247.1	1.1	100	84	74.0	0.1	88	44	19.9	0.0	29	235
	243.9	1.1	339	178	71.7	0.6	99	9	18.2	0.0	155	248
	237.8	0.9	148	187	71.0	0.1	148	1	16.6	0.1	153	93
	227.2	1.0	332	208	68.7	1.0	119	52	16.3	0.4	160	199
	223.2	1.3	188	14	65.6	0.8	346	36	14.0	0.3	188	257
	218.1	0.1	99	218	64.6	0.2	109	74	13.5	0.0	98	216
	217.2	0.8	252	229	64.6	1.5	155	71	13.2	0.1	104	270
	208.6	0.1	94	245	62.2	0.1	198	275	10.8	0.0	113	118
	207.3	0.4	215	242	62.0	0.7	201	207	10.7	0.1	57	171
	200.6	0.3	45	170	61.6	0.1	164	95	8.6	0.1	71	152
	198.1	1.1	88	92	60.2	0.9	129	63	7.9	0.1	94	188
	196.9	0.9	354	228	58.7	0.4	335	232	5.5	0.0	60	177
	168.6	1.1	251	10	53.9	1.2	191	81	5.3	0.0	90	90
	163.6	1.1	138	82	52.9	0.1	124	253	5.3	0.1	151	182
	160.4	1.1	71	4	50.6	1.1	220	121	5.2	0.1	154	79
	153.3	1.1	336	266	49.7	0.3	28	139	5.2	0.0	108	22
	151.5	0.1	198	276	47.3	0.0	85	176	4.7	0.1	119	285
	146.1	1.1	308	80	44.4	0.9	82	141	4.5	0.0	139	180
	145.5	0.0	60	241	42.7	1.1	114	88	3.9	0.0	97	73
	135.1	1.6	131	165	41.4	0.9	35	86	3.7	0.0	129	234
	133.8	1.2	136	43	41.1	1.0	189	210	2.3	0.0	128	50
	129.6	0.4	92	69	40.2	1.0	177	124	2.3	0.1	131	186
	128.4	0.0	123	252	40.0	0.3	152	222	2.1	0.0	135	202
	127.3	1.5	156	215	36.9	1.1	280	179	2.0	0.0	139	246
	120.1	0.3	59	57	35.9	1.0	103	5	1.6	0.0	109	87
	114.1	0.7	163	106	35.6	0.0	99	217	1.2	0.0	82	189
	109.6	1.4	129	66	34.0	0.9	401	125	1.2	0.0	112	11
	109.2	0.1	143	250	32.1	0.1	147	194	1.2	0.0	144	184
	104.3	0.7	241	203	28.1	0.1	110	197	1.0	0.0	90	91
	99.2	0.4	110	198	26.9	0.6	88	32	0.9	0.0	61	129

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the FV Golden Dawn.

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Lingcod	1,007.6	12.1	143	250	530.4	12.0	201	227	248.6	5.6	211	273
	981.5	5.4	142	280	524.8	6.0	215	242	208.7	4.4	163	262
	964.1	12.0	94	245	446.9	5.5	190	263	195.2	4.7	206	268
	892.5	5.6	213	247	413.7	10.3	135	202	185.6	4.4	143	256
	887.3	6.4	98	216	348.4	4.0	134	279	62.4	1.5	119	285
	652.5	7.7	68	240	340.9	7.5	196	274	32.2	0.3	69	260
	612.6	13.8	99	218	335.6	3.9	104	270	3.3	0.1	53	55
	597.1	12.5	82	141	256.9	6.7	69	150				
	575.7	9.7	102	181	255.6	5.7	225	258				
Atka mackerel	625,937.1	1.5	88	32	160.0	1.1	126	2	58.7	1.6	180	120
	1,956.4	1.4	88	44	99.5	1.1	111	45	56.9	1.4	170	72
	449.8	1.0	148	1	93.7	1.3	89	17	56.8	1.3	151	42
	292.3	1.4	164	95	89.6	1.1	125	19	54.5	1.3	153	93
	200.1	1.2	113	7	74.7	1.7	90	90	53.7	1.4	88	92
	198.4	1.5	108	33	61.1	1.5	253	100	52.5	0.7	191	101
	168.8	1.5	98	6	59.7	1.5	177	124	36.8	1.0	103	5
Pacific herring	950.3	0.1	71	259	21.8	0.1	134	279	4.8	0.1	143	250
	192.1	0.1	84	219	14.4	0.1	29	235	4.5	0.1	24	149
	148.6	0.1	66	261	11.5	0.1	142	280	3.9	0.1	188	257
	135.7	0.1	143	256	9.8	0.2	57	171	3.9	0.1	116	278
	87.9	0.2	190	239	7.3	0.2	154	238	3.7	0.1	189	287
	76.2	0.1	150	286	5.8	0.2	150	214	1.5	0.0	99	218
	58.4	0.1	110	277	5.4	0.1	154	251	1.3	0.0	45	170
	27.0	0.1	129	220	5.4	0.0	69	260				



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Shortspine thornyhead	6,153.5	0.2	280	179	823.3	0.3	238	8				
	4,556.1	0.3	355	62	734.1	0.3	210	46				
	4,161.1	0.2	255	59	680.8	0.1	225	258				
	3,807.0	0.3	401	125	635.0	0.4	200	212				
	3,386.0	0.3	368	58	594.3	0.2	463	209				
	3,201.1	0.2	367	205	590.9	0.4	189	210				
	3,085.9	0.3	263	289	566.6	0.1	249	282				
	3,017.7	0.1	359	255	558.9	0.3	212	211				
	2,809.7	0.3	332	208	519.3	0.2	190	263				
	2,594.7	0.2	346	36	454.7	0.2	241	243				
	2,283.3	0.2	269	122	421.1	0.2	259	26				
	2,230.1	0.2	339	178	393.3	0.2	415	13				
	2,162.6	0.1	308	80	256.9	0.2	221	183				
	2,087.9	0.3	246	78	236.6	0.3	208	25				
	2,061.1	0.3	336	266	209.0	0.5	244	269				
	1,980.2	0.2	262	223	183.3	0.4	201	207				
	1,778.2	0.2	252	229	168.8	0.1	198	276				
	1,754.4	0.1	249	230	148.7	0.3	152	222				
	1,671.2	0.2	343	283	144.2	0.1	211	273				
	1,625.6	0.1	236	231	112.7	0.6	129	63				
	1,609.3	0.3	241	203	111.4	0.1	213	247				
	1,607.7	0.4	409	254	92.3	0.2	201	227				
	1,600.3	0.2	194	244	71.9	0.3	184	213				
	1,444.9	0.3	190	239	58.4	0.2	191	81				
	1,396.7	0.3	325	236	56.8	0.1	198	275				
	1,380.5	0.2	238	49	54.9	0.4	156	215				
	1,367.9	0.2	293	233	49.5	0.1	169	224				
	1,366.8	0.3	354	228	32.2	0.4	160	199				
	1,230.1	0.2	335	232	25.8	0.2	154	79				
	1,180.3	0.2	251	10	21.9	0.1	112	11				
	1,166.5	0.3	284	284	8.5	0.2	139	180				
	1,080.8	0.3	185	221	5.7	0.1	150	214				
	1,028.5	0.2	410	12	2.1	0.1	188	257				
	1,012.7	0.2	364	127								
	1,006.0	0.6	346	61								
	882.7	0.3	193	34								
	882.2	0.2	256	265								
	865.9	0.4	286	204								

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

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Rougheye rockfish	27,179.4	1.2	332	208	170.7	0.8	126	2	25.0	0.5	105	163
	18,270.9	1.5	367	205	164.9	0.9	191	101	23.5	0.5	131	165
	14,097.7	1.6	339	178	163.7	0.9	159	156	19.8	0.5	112	11
	5,890.1	1.4	336	266	137.3	0.2	262	223	17.4	0.2	147	194
	4,675.8	1.2	354	228	114.8	0.5	343	283	16.4	0.4	184	107
	2,887.8	2.4	346	36	113.0	0.4	152	193	16.0	0.2	84	219
	2,880.5	1.3	308	80	105.1	1.2	256	137	15.4	0.4	89	17
	2,766.3	0.9	212	211	103.6	0.3	169	224	11.9	0.3	194	244
	2,686.1	1.0	200	212	98.7	1.2	186	142	10.0	0.2	249	282
	1,701.1	1.4	364	127	97.0	0.9	193	34	7.2	0.1	236	231
	1,596.8	0.7	263	289	93.4	0.8	284	284	5.9	0.1	68	240
	1,095.5	1.4	346	61	86.0	0.4	110	198	2.5	0.1	99	217
	1,050.5	1.6	355	62	74.9	0.8	269	122				
	1,041.0	2.5	368	58	71.1	0.2	135	202				
	1,014.4	1.4	215	242	70.5	0.9	170	72				
	1,011.4	0.8	335	232	66.0	0.5	286	204				
	929.2	0.7	178	201	65.2	0.2	189	287				
	911.0	0.7	138	82	63.9	1.6	192	146				
	880.8	1.0	359	255	63.0	1.6	415	13				
	663.1	0.9	241	203	61.5	0.3	174	68				
	592.0	0.6	220	121	60.8	0.7	249	15				
	591.6	1.1	325	236	57.7	1.5	252	112				
	495.4	1.7	216	102	56.5	1.3	255	59				
	450.2	1.5	401	125	53.9	1.4	174	192				
	435.6	1.8	245	113	53.6	0.5	210	46				
	389.5	1.0	280	179	52.2	1.4	276	136				
	375.2	0.7	246	78	50.7	0.8	148	1				
	358.8	2.0	238	49	47.9	0.6	185	221				
	347.1	0.4	190	239	37.6	0.9	163	106				
	310.3	0.6	201	207	36.6	0.1	221	183				
	248.4	0.3	129	220	33.8	0.3	110	197				
	237.0	1.4	410	12	32.5	0.8	93	154				
	221.5	2.0	220	134	32.4	0.4	92	70				
	215.7	1.7	409	254	31.7	0.4	155	71				
	214.2	0.7	178	145	31.4	0.9	288	138				
	200.0	0.5	189	210	30.2	0.3	241	243				
	179.9	0.3	252	229	28.9	0.6	243	110				
	178.6	0.7	293	233	27.5	0.8	194	108				

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Pacific ocean perch	392,513.4	0.6	220	121	1,419.3	0.7	241	203	77.5	0.7	401	125
	126,828.7	0.6	193	34	1,147.3	0.7	252	229	77.0	0.4	184	213
	55,496.1	0.7	151	182	1,050.3	1.0	284	284	73.6	0.3	84	20
	31,708.0	0.6	180	120	949.6	0.6	241	243	68.5	0.8	163	106
	27,275.0	0.6	215	242	903.7	0.6	152	193	67.5	0.1	88	92
	26,199.2	0.7	134	18	839.6	0.7	335	232	66.5	0.2	89	17
	25,207.3	0.7	256	265	827.6	1.0	343	283	65.6	0.2	95	76
	25,007.0	0.6	193	119	790.9	0.3	194	244	63.7	1.4	184	107
	23,023.1	0.6	177	124	781.5	0.6	208	25	56.3	0.5	346	61
	20,026.1	0.6	236	231	779.3	1.2	263	289	55.0	0.3	153	93
	17,084.0	0.9	336	266	644.5	0.4	112	11	46.4	0.6	364	127
	15,431.2	0.2	126	2	535.3	0.8	367	205	39.2	0.5	194	108
	13,657.4	0.7	249	282	517.0	0.3	113	7	34.3	0.6	188	14
	13,374.8	0.6	190	263	460.2	0.7	96	97	33.6	0.3	244	269
	12,041.6	0.6	114	96	448.5	0.7	238	49	33.5	0.4	124	83
	11,708.0	0.7	249	230	447.9	0.6	259	26	29.9	0.4	190	239
	10,028.0	0.7	262	223	420.1	0.2	94	99	29.1	0.1	133	206
	9,918.4	0.6	221	183	371.2	0.6	129	63	28.0	0.6	178	191
	9,188.2	0.7	221	281	349.4	0.5	135	202	28.0	0.7	95	40
	8,758.8	0.6	269	122	324.0	0.8	255	59	27.2	0.7	150	214
	8,732.9	0.4	92	69	316.8	0.4	169	224	23.2	0.6	415	13
	8,435.4	0.6	210	46	303.7	0.7	332	208	23.1	0.3	211	273
	8,326.3	0.6	213	77	228.4	0.6	359	255	17.5	0.4	94	85
	7,948.2	0.8	251	10	225.6	0.5	155	71	17.1	0.3	107	3
	5,434.1	0.3	198	276	220.7	0.6	339	178	16.8	0.2	163	262
	5,313.0	0.3	198	275	214.3	0.6	286	204	16.1	0.4	249	15
	4,653.6	0.6	280	179	180.5	0.7	346	36	9.8	0.3	170	72
	3,199.5	0.4	225	258	176.9	0.4	116	48	9.3	0.1	200	212
	2,776.0	0.2	213	247	167.9	0.6	163	21	9.2	0.2	128	50
	2,767.0	0.6	238	8	112.9	0.5	308	80	7.6	0.2	156	215
	2,024.6	0.9	202	267	111.5	0.7	160	126	7.2	0.2	109	87
	2,014.6	0.7	201	207	108.4	0.1	90	91	5.4	0.1	143	288
	1,905.5	0.6	154	79	108.2	0.2	148	1	4.9	0.1	160	199
	1,883.1	0.6	246	78	100.5	1.2	186	142	3.9	0.0	143	250
	1,751.1	0.9	108	33	99.3	0.7	191	101	3.6	0.1	108	22
	1,742.6	0.7	293	233	95.0	0.6	147	194	1.8	0.0	139	246
	1,633.0	0.4	111	45	91.8	0.1	201	227				
	1,483.7	0.5	125	19	85.8	0.1	124	253				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Northern rockfish	71,218.2	1.0	114	96	1,144.7	0.8	95	76	60.9	0.8	251	10
	70,107.2	0.6	102	181	1,024.7	0.9	148	1	57.7	0.7	216	102
	54,220.7	0.8	111	45	1,017.5	0.9	125	19	57.4	0.5	259	26
	16,960.4	0.7	94	99	897.6	1.1	116	48	55.0	0.6	201	227
	9,784.9	1.2	129	63	520.1	0.7	213	77	54.8	0.7	221	183
	8,019.8	0.7	193	119	473.2	0.5	151	182	52.8	1.3	133	206
	7,744.3	1.1	126	2	294.4	0.7	236	231	43.7	1.0	246	78
	4,588.8	0.6	110	197	250.1	0.9	113	7	38.3	0.9	184	213
	3,434.1	0.8	180	120	219.9	0.7	269	122	34.0	0.7	210	46
	3,221.7	0.9	96	97	184.5	0.7	177	124	28.4	0.7	154	79
	2,816.5	1.1	108	33	135.0	0.4	112	11	26.9	0.7	189	210
	2,388.1	0.8	95	40	116.5	0.7	238	8	23.9	0.6	94	245
	2,286.4	0.7	92	69	109.1	0.7	262	223	20.8	0.5	286	204
	1,928.0	0.8	135	202	102.7	0.7	90	91	14.4	0.1	79	162
	1,650.0	0.9	89	17	76.3	1.1	193	34	13.1	0.2	76	167
	1,372.0	0.8	134	18	68.9	0.8	215	242	11.8	0.3	147	194
	1,229.0	1.0	88	32	62.3	0.8	152	193	7.2	0.1	79	75
	Sharpchin rockfish	230,378.8	1.6	114	96	795.5	1.3	129	63	179.1	0.5	76
89,123.8		1.7	215	242	707.1	1.6	110	197	177.8	1.4	108	33
54,476.7		1.5	102	181	628.8	1.2	269	122	165.5	1.2	211	273
32,283.7		1.3	111	45	564.2	2.3	143	250	161.7	1.4	95	40
14,178.3		1.4	202	267	480.5	1.4	241	203	151.6	1.2	221	183
5,269.6		1.4	126	2	462.8	1.4	180	120	139.8	1.1	201	227
2,377.2		0.9	92	69	429.6	1.7	190	239	128.5	1.1	249	230
1,753.9		1.7	191	101	331.6	1.1	95	76	128.1	1.3	280	179
1,566.4		1.5	262	223	306.1	1.3	135	202	125.6	1.2	134	18
1,319.7		1.3	193	119	238.6	2.0	79	47	121.9	0.8	249	282
1,260.3		1.7	151	182	228.8	1.8	68	240	115.4	0.9	153	93
1,014.7		1.1	155	71	213.1	1.5	220	121	65.0	0.2	84	20
957.4		1.5	89	17	210.9	1.8	150	214	38.7	0.4	107	3
890.6		1.2	143	151	204.8	1.6	236	231	30.7	0.2	82	141

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Redstripe rockfish	45,454.3	0.5	202	267	764.7	0.6	111	45	146.5	0.6	221	281
	13,743.8	0.6	211	273	425.1	0.9	177	124	90.0	0.4	190	263
	1,298.0	0.5	198	275	266.4	0.6	198	276	58.3	0.5	262	223
Yelloweye rockfish	1,324.5	3.8	202	267	209.0	5.0	143	250	159.4	4.2	110	197
	375.1	5.9	69	260	171.4	3.8	211	273				
Harlequin rockfish	74,071.3	0.2	202	267	123.7	0.2	133	206	13.8	0.3	128	50
	10,284.7	0.3	215	242	113.3	0.3	135	202	12.4	0.2	284	284
	3,126.4	0.4	111	45	33.5	0.1	119	285	8.7	0.2	249	282
	915.5	0.4	220	121	29.5	0.4	262	223	8.5	0.1	213	247
	843.6	0.2	211	273	21.8	0.5	251	10	8.5	0.2	198	275
	428.6	0.2	190	263	21.7	0.5	116	48	6.7	0.2	198	276
	356.8	0.1	110	197	20.4	0.2	336	266	6.1	0.2	244	269
	219.3	0.7	193	119	18.1	0.2	256	265	4.8	0.1	143	288
Sharpchin rockfish	72,999.2	0.3	215	242	561.7	0.2	249	282	107.9	0.2	198	275
	68,237.7	0.4	202	267	418.1	0.2	213	247	81.5	0.2	135	202
	37,495.3	0.4	211	273	252.3	0.4	210	46	52.1	0.2	225	258
	5,497.1	0.4	220	121	209.7	0.3	249	230	51.5	0.1	143	250
	4,625.2	0.3	236	231	148.0	0.4	152	193	19.6	0.2	133	206
	1,221.4	0.4	221	183	125.3	0.1	110	197	13.9	0.4	147	194
	1,111.3	0.2	190	263	117.2	0.3	198	276	13.2	0.3	262	223
Yellowmouth rockfish	390.92	1.12	202	267								

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the FV Golden Dawn.

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	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	
Shortraker rockfish	11,727.1	3.7	367	205	1,332.6	16.1	284	284	381.4	5.3	193	34	
	10,434.8	4.1	332	208	1,251.9	2.8	346	61	319.5	3.9	409	254	
	6,393.1	4.9	308	80	977.4	2.4	401	125	302.5	3.5	256	137	
	5,624.8	4.3	359	255	888.1	10.0	263	289	207.0	5.7	220	134	
	4,564.1	3.9	354	228	761.5	4.9	335	232	198.4	4.4	336	266	
	3,811.9	5.2	293	233	688.8	2.5	368	58	97.4	2.3	410	12	
	2,636.6	3.5	339	178	542.2	2.1	355	62	79.5	1.0	415	13	
	1,788.1	3.0	364	127	473.6	5.8	325	236					
	1,554.7	1.8	346	36	446.5	10.1	215	242					
	Sharks unidentified	185,574.1	1.7	29	235	936.3	2.6	160	199	335.8	2.1	135	202
26,308.7		150.0	256	137	891.7	2.7	152	222	311.0	1.4	189	287	
20,025.4		116.0	169	224	816.8	2.3	99	218	223.4	1.4	189	210	
16,608.2		102.0	245	113	726.9	2.2	99	217	215.9	1.3	110	198	
12,840.4		50.0	267	143	629.9	1.7	196	274	210.0	1.2	225	258	
9,551.6		27.5	190	239	626.0	2.2	134	18	176.4	1.0	68	240	
7,545.3		45.1	139	246	625.4	3.8	79	162	153.1	0.9	215	242	
5,492.1		2.8	212	211	541.6	3.3	135	264	148.2	0.8	256	265	
3,729.4		1.7	94	245	540.8	3.3	200	212	137.2	0.8	143	288	
1,251.5		2.5	133	206	361.5	1.1	198	276	123.3	0.1	60	241	
1,122.0		3.5	124	253	355.9	2.1	99	226	116.1	0.7	188	257	
1,067.4		1.0	142	280	347.2	2.1	206	268					
1,000.0		2.0	244	269	342.4	2.2	150	214					
Skates unidentified		32,044.2	11.3	60	144	7,404.9	41.7	57	171	3,828.7	11.2	246	135
		24,475.0	52.8	75	16	6,982.3	13.6	73	200	3,577.0	4.0	346	61
	19,065.8	18.4	51	168	6,501.0	6.3	180	120	3,408.5	4.7	145	158	
	15,278.5	4.4	243	110	6,461.6	11.9	24	149	3,311.0	4.2	252	112	
	12,820.9	30.0	71	4	5,446.4	15.0	79	172	3,102.3	15.9	28	139	
	11,447.9	51.3	105	133	5,368.9	35.0	69	150	3,069.5	10.3	241	203	
	11,021.0	30.6	35	86	5,240.8	8.8	276	136	2,928.6	18.6	110	277	
	8,960.7	28.6	51	132	4,745.8	10.9	66	148	2,892.7	8.1	201	227	
	8,681.3	20.9	60	128	4,252.7	11.5	40	64	2,876.4	16.4	256	137	
	7,563.2	43.6	61	129	4,239.0	13.4	192	146	2,795.0	3.0	174	192	
	7,484.3	20.9	42	104	4,123.2	2.8	245	111	2,786.1	17.7	148	157	

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

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Skates unidentified	2,694.6	16.7	147	140	775.1	4.4	157	237	4.8	0.0	160	126
	2,564.5	6.6	107	3	722.3	4.1	148	187	4.4	0.0	210	46
	2,546.6	5.9	359	255	683.8	4.2	189	210	3.8	0.0	332	208
	2,456.3	4.9	155	166	523.9	1.1	177	124	3.6	0.0	92	69
	2,380.5	13.4	178	191	468.7	1.4	186	142	2.1	0.0	79	75
	2,215.9	6.7	93	154	467.2	1.4	129	220	2.0	0.0	75	30
	2,115.6	2.7	267	143	422.7	2.1	143	151	1.9	0.0	364	127
	2,111.0	6.7	29	235	351.6	1.9	98	216	1.7	0.0	144	94
	2,082.1	2.4	163	106	347.3	0.5	185	114	1.6	0.0	79	162
	2,061.8	7.0	288	138	342.2	1.8	135	60				
	2,014.1	12.8	94	188	322.0	1.0	325	236				
	1,992.9	5.3	159	156	312.9	1.9	152	222				
	1,970.1	5.1	151	182	308.3	0.7	194	108				
	1,909.7	6.0	170	72	306.1	1.9	150	214				
	1,815.2	4.5	88	44	298.6	1.8	200	212				
	1,765.3	9.1	78	173	269.5	0.5	60	241				
	1,734.0	5.2	110	198	269.3	0.8	191	81				
	1,686.8	4.9	190	239	209.7	1.2	133	161				
	1,683.7	1.9	58	105	174.3	1.0	131	165				
	1,620.1	2.4	99	226	170.2	1.0	255	59				
	1,400.9	8.1	184	213	117.3	0.7	238	8				
	1,379.1	2.3	191	101	89.3	0.1	251	10				
	1,325.6	3.9	60	177	65.1	0.1	245	113				
	1,310.1	8.2	94	245	63.2	0.4	156	215				
	1,275.2	5.4	76	56	51.8	0.1	410	12				
	1,269.0	6.1	121	160	37.0	0.1	134	18				
	1,268.5	4.1	147	194	27.1	0.0	135	24				
	1,264.3	8.5	138	82	25.2	0.2	89	17				
	1,214.6	8.0	110	197	22.7	0.1	114	88				
	1,202.9	7.6	178	201	19.7	0.1	94	85				
	1,191.4	8.2	193	34	16.2	0.0	193	119				
	1,176.0	7.4	129	234	14.3	0.1	216	102				
	1,164.4	3.5	409	254	13.7	0.0	105	163				
	1,161.0	6.7	174	68	13.3	0.1	68	240				
	1,139.4	3.8	354	228	10.5	0.0	208	25				
	1,037.8	2.2	262	223	8.4	0.1	115	115				
	890.2	1.0	184	107	6.4	0.0	259	26				
	883.5	5.3	253	100	5.7	0.0	133	206				

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Broad tanner crab	527.2	0.1	93	154	7.3	0.0	92	70	1.3	0.0	154	251
	254.6	0.4	105	163	6.4	0.0	188	14	1.3	0.0	186	142
	191.7	0.1	66	148	6.2	0.2	288	138	0.8	0.0	149	195
	187.2	0.1	121	160	5.4	0.1	246	135	0.8	0.0	220	134
	124.3	1.4	57	171	4.5	0.0	24	149	0.7	0.0	151	42
	109.7	0.3	178	145	4.3	0.0	95	40	0.7	0.0	191	101
	81.0	0.1	129	66	4.2	0.1	110	197	0.6	0.0	64	41
	74.9	0.5	84	169	3.9	0.0	131	165	0.6	0.0	135	202
	68.9	0.2	256	137	3.2	0.0	216	102	0.5	0.0	191	81
	65.0	0.1	155	166	2.8	0.0	136	43	0.5	0.0	119	52
	60.8	0.2	159	156	2.8	0.0	138	82	0.5	0.0	152	222
	50.9	0.2	170	72	2.8	0.0	109	87	0.5	0.0	262	223
	46.7	0.1	133	161	2.4	0.0	178	201	0.4	0.0	99	218
	45.4	0.3	155	71	2.3	0.0	76	167	0.4	0.0	99	226
	31.5	0.8	185	114	2.2	0.0	60	144	0.4	0.0	245	113
	20.0	0.0	69	54	1.9	0.0	73	200	0.4	0.0	249	15
	12.2	0.1	124	83	1.8	0.0	32	53	0.3	0.0	243	110
	11.9	0.3	245	111	1.8	0.0	79	172	0.3	0.0	185	221
	11.8	0.1	148	157	1.7	0.0	267	143	0.2	0.0	201	227
	10.8	0.0	156	67	1.5	0.0	107	31	0.1	0.0	251	10
10.6	0.1	100	84	1.4	0.0	88	44					
8.2	0.1	174	68	1.4	0.0	194	108					
Golden king crab	169.4	1.3	355	62	145.8	1.4	367	205	48.9	1.2	364	127
	167.7	1.5	346	61	112.9	2.5	308	80	48.7	1.2	252	112
Blue king crab	285.9	0.7	24	149								



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Northern pink shrimp	163.76	0.01	110	198	14.04	0.01	160	199	1.87	0.01	159	156
	147.7	0.01	121	160	13.93	0	212	211	1.52	0	100	84
	142.94	0	60	241	13.52	0	147	194	1.08	0	220	134
	116.62	0	170	72	11.79	0	200	212	0.91	0	94	85
	109.36	0.01	178	145	11.71	0.01	156	67	0.91	0.01	109	87
	103.12	0.01	249	15	11.43	0	150	214	0.89	0.01	138	82
	102.39	0.01	129	220	11.24	0	156	215	0.88	0.01	148	187
	91.25	0.01	84	169	10.14	0	191	81	0.77	0.01	180	120
	70.59	0.01	188	14	9.05	0.01	124	83	0.65	0.01	194	244
	63.12	0	184	107	8.38	0.01	99	226	0.62	0	238	49
	61.95	0.01	174	68	8.25	0	245	111	0.6	0	210	46
	60.81	0.01	135	202	7.55	0.01	178	191	0.53	0.01	201	227
	56.23	0	252	112	5.99	0	194	108	0.44	0.01	116	48
	55.41	0	201	207	5.86	0	245	113	0.43	0.01	133	161
	52.17	0.01	155	166	5.51	0	243	110	0.43	0.01	184	213
	47.67	0.01	99	217	5.42	0.01	186	142	0.42	0	208	25
	45.88	0.01	178	201	5.41	0	193	119	0.39	0.01	148	157
	44.37	0.01	129	66	4.65	0	174	192	0.37	0	276	136
	38.83	0.01	151	42	3.96	0	189	210	0.26	0.01	286	204
	37.89	0	288	138	3.1	0	213	77	0.25	0.01	160	126
	37.43	0.01	152	222	3.03	0	98	216	0.24	0	125	19
	35.05	0	152	193	2.77	0	190	239	0.24	0.01	177	124
	33.05	0	185	221	2.24	0.01	119	52	0.24	0.01	325	236
	21.66	0.01	256	137	2.18	0	267	143	0.24	0.01	135	264
	18.64	0.01	99	218	2.17	0	131	165	0.22	0.01	191	101
	18.18	0.01	192	146	2.05	0.01	93	154	0.22	0.01	241	203
16.82	0.01	163	106	2.02	0	149	195	0.18	0	69	54	
14.68	0.01	155	71	1.95	0.01	105	163	0.15	0	136	43	
Spot prawn	175.11	0.05	211	273	23.02	0.05	198	275	4.22	0.05	169	224
	53.44	0.06	202	267	9.28	0.06	249	282	2.81	0.07	135	202
	42.06	0.07	198	276	7.34	0.08	225	258				
	40.01	0.06	221	183	5.88	0.07	190	263				
Coonstripe shrimp	9	0.03	60	241								

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average				
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	
Sidestripe shrimp	807.36	0.01	252	112	24.26	0.01	267	143	3.3	0.01	99	226	
	538.5	0.01	60	241	21.14	0.02	200	212	2.98	0.02	241	203	
	260.8	0.02	189	287	20.93	0.01	186	142	2.18	0.02	73	200	
	233.09	0.01	256	137	19.83	0.02	156	215	2.06	0.02	238	49	
	230.74	0.02	245	111	19.09	0.02	244	269	1.95	0.01	263	289	
	194.15	0.01	262	223	18	0.01	339	178	1.87	0.01	236	231	
	144.24	0.01	288	138	17.94	0.02	293	233	1.8	0.02	346	36	
	134.87	0.02	184	107	14.15	0.01	201	207	1.68	0.01	201	227	
	131.46	0.01	276	136	12.54	0.02	189	210	1.66	0.01	364	127	
	131.38	0.02	243	110	11.21	0.01	246	78	1.63	0.02	359	255	
	126.7	0.02	194	108	10.73	0.02	252	229	1.48	0.02	194	244	
	113.81	0.02	245	113	10.21	0.01	110	198	1.45	0.01	259	26	
	91.16	0.02	246	135	7.36	0.02	174	192	1.35	0.03	154	251	
	74.4	0	160	199	6.92	0.02	129	220	1.09	0.02	249	15	
	66.77	0.01	163	106	6.66	0.02	354	228	1.04	0.02	286	204	
	62.21	0.02	212	211	6.44	0.02	225	258	1.04	0.02	184	213	
	59.91	0.02	220	134	6.12	0.01	169	224	0.91	0.02	284	284	
	52.86	0.01	150	214	5.17	0.01	269	122	0.89	0.01	346	61	
	49.59	0.02	253	100	4.89	0.02	178	201	0.8	0.02	135	202	
	41	0.01	280	179	4.66	0.02	241	243	0.59	0.02	188	14	
	35.32	0.02	178	145	4.35	0.02	249	230	0.58	0.01	249	282	
	33.31	0.02	152	222	4.08	0.01	325	236	0.42	0.01	255	59	
	32.54	0.01	190	239	3.52	0.02	191	101	0.42	0.01	221	183	
	27.92	0.02	216	102	3.46	0.02	174	68	0.31	0.01	129	234	
	Chlamys rubida	151.7	0.0	97	73	13.3	0.0	82	189	1.9	0.1	131	186
		43.9	0.0	96	97	12.0	0.0	73	200	1.3	0.0	66	153
35.9		0.2	99	9	9.7	0.0	79	75	1.1	0.0	72	65	
23.9		0.0	109	74	8.2	0.0	79	162	1.0	0.0	66	148	
21.5		0.0	47	147	5.7	0.0	85	176	1.0	0.0	154	79	
17.3		0.0	92	69	4.4	0.0	42	104	0.7	0.0	35	86	

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Golden Dawn.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Weathervane scallop	833.0	0.2	71	225	48.8	0.8	339	178	9.5	0.2	79	172
	394.6	0.1	201	227	23.4	0.3	159	156	9.0	0.2	99	218
	198.4	0.5	60	177	21.5	0.3	155	166	4.5	0.1	24	149
	93.0	0.4	45	170	13.8	0.3	155	71	3.9	0.1	51	168
	59.0	0.3	57	171	13.6	0.2	76	167	3.3	0.1	213	247
	50.6	0.2	99	226	11.3	0.3	145	158	3.1	0.1	107	31
Octopus unidentified	1,165.2	29.0	112	11	64.7	0.8	31	130	1.9	0.1	180	120
	974.1	8.5	69	150	13.6	0.3	40	64	1.7	0.0	144	94
	786.1	7.2	134	18	9.2	0.2	335	232	1.4	0.0	156	215
	708.1	6.1	108	22	6.8	0.2	368	58	1.4	0.0	60	128
Red squid	1,045.7	1.1	288	138	78.8	0.9	256	137	23.3	0.2	134	18
	492.1	0.2	308	80	78.5	0.3	332	208	18.3	0.2	368	58
	447.9	0.2	259	26	73.8	0.1	339	178	16.2	0.1	284	284
	428.2	0.3	267	143	66.8	1.7	192	146	15.7	0.4	89	17
	323.3	0.5	256	265	62.1	0.2	220	134	13.7	0.3	246	78
	287.3	0.3	129	63	60.7	0.2	409	254	13.6	0.2	33	37
	269.1	0.2	238	8	58.6	0.3	246	135	13.5	0.2	110	198
	254.1	0.3	355	62	55.6	0.2	346	36	13.0	0.3	249	230
	236.8	0.3	269	122	53.7	0.1	191	81	13.0	0.1	143	256
	220.0	0.6	276	136	44.8	0.2	160	126	12.1	0.1	128	50
	215.2	0.2	251	10	43.2	0.4	193	34	9.4	0.2	40	64
	209.1	0.2	410	12	42.4	0.9	243	110	9.0	0.1	255	59
	184.9	0.1	354	228	41.0	0.9	336	266	8.9	0.2	130	28
	151.8	1.0	252	112	38.1	0.5	245	111	6.2	0.1	343	283
	147.2	0.2	359	255	36.1	0.1	252	229	4.2	0.0	286	204
	138.2	0.5	367	205	35.1	0.4	249	282	3.1	0.0	335	232
	117.6	0.4	401	125	31.6	0.5	188	14	3.0	0.0	325	236
	95.7	1.2	245	113	28.3	0.1	157	237	2.4	0.1	110	51
	95.7	0.1	364	127	27.6	0.4	125	19				
	82.8	0.4	415	13	25.0	0.1	112	11				
79.9	0.3	238	49	24.6	0.6	189	210					
78.9	0.4	208	25	24.6	0.2	346	61					

## Section 3

### Fishing Log for the F/V Vesteraalen

- Station charts of haul numbers plotted adjacent to their respective geographical positions

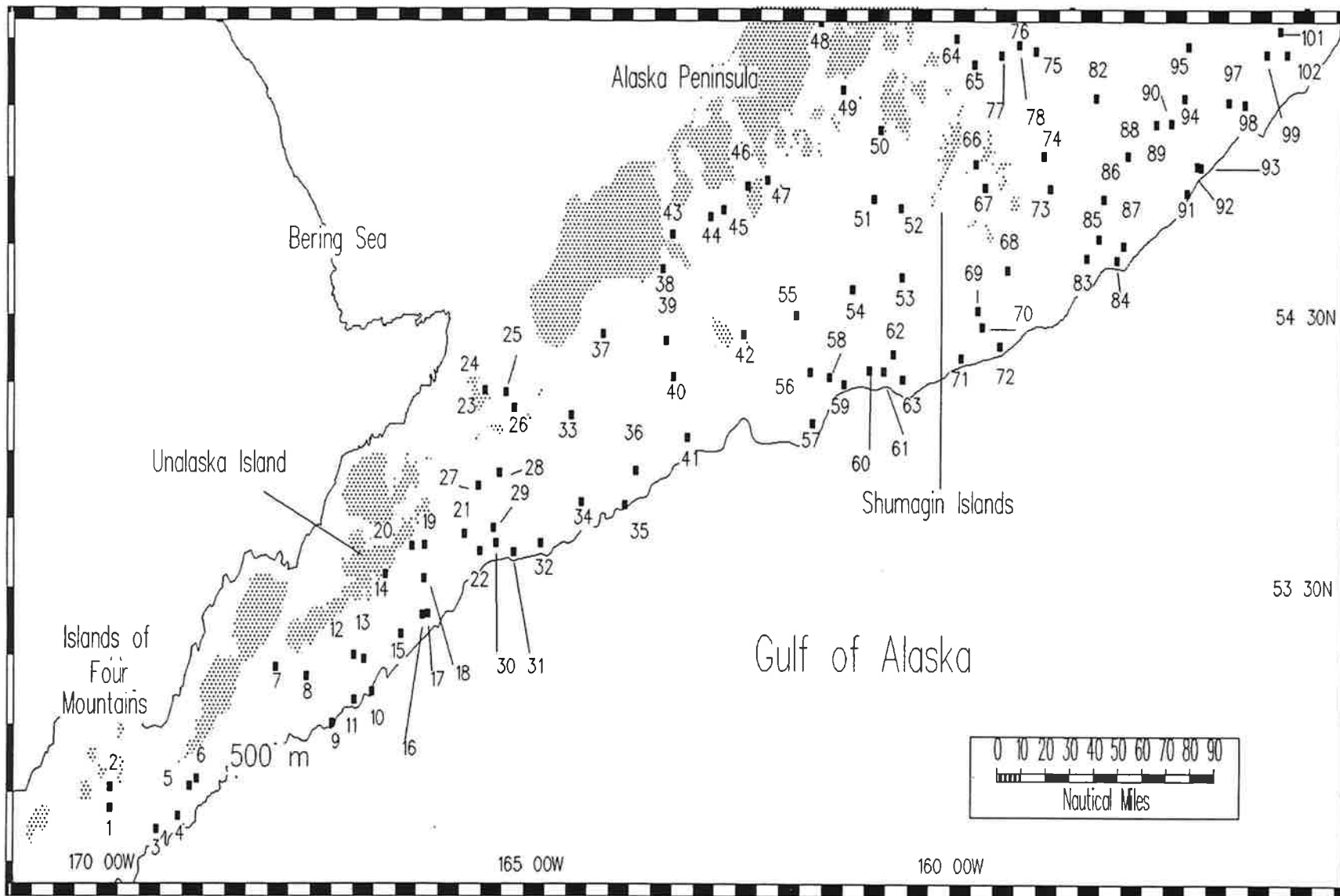


Figure 12.--Stations surveyed by the chartered trawler F/V Vesteraalen from the Islands of Four Mountains to the Shumagin Islands (hauls 1-78, 82-95, 97-99, 101, 102).

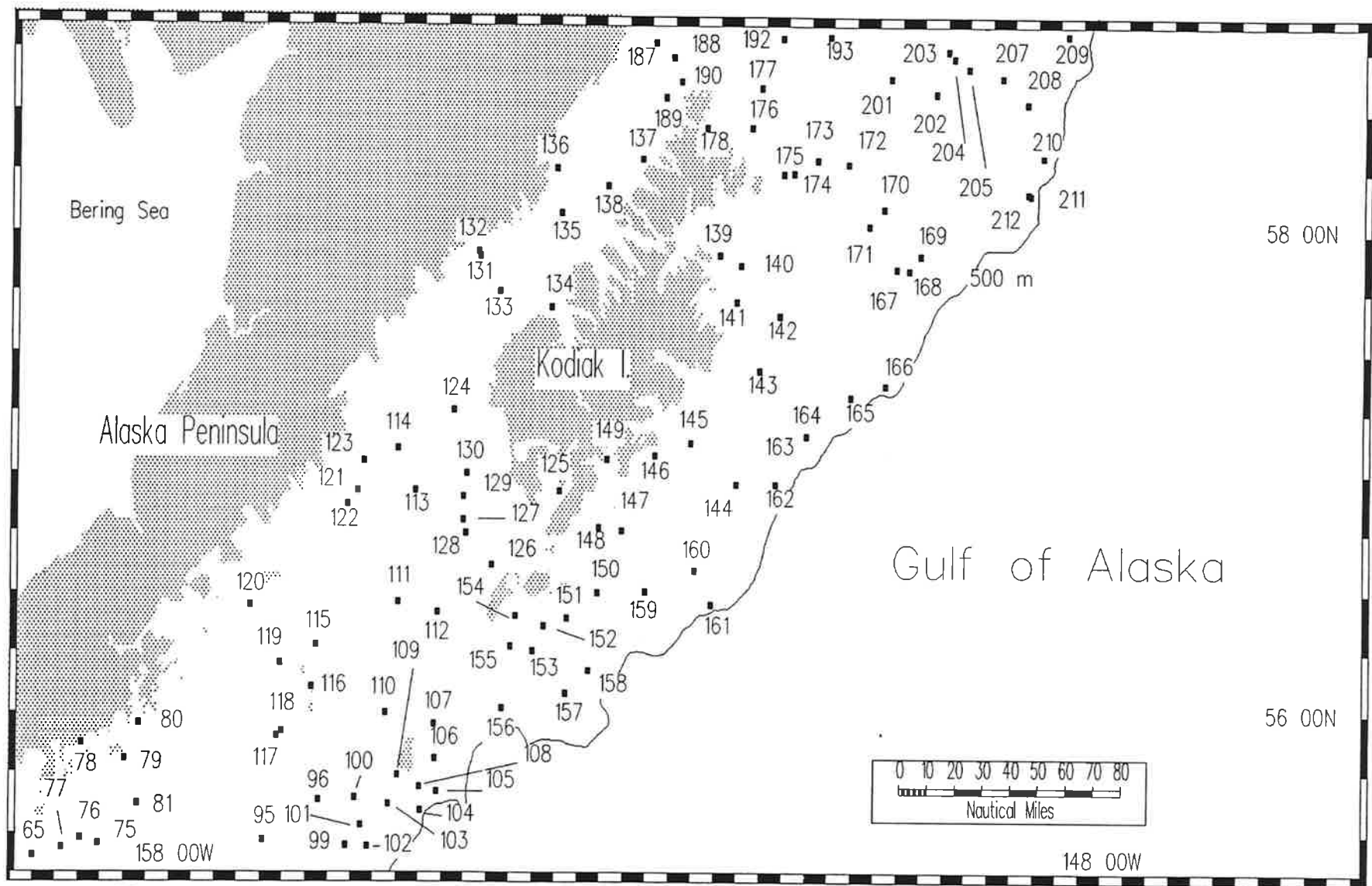


Figure 13.--Stations surveyed by the chartered trawler F/V Vesteraalen in the Kodiak Island area (hauls 65,75-81, 95, 96, 99-178, 187-190, 192, 193, 201-205, 207-212).

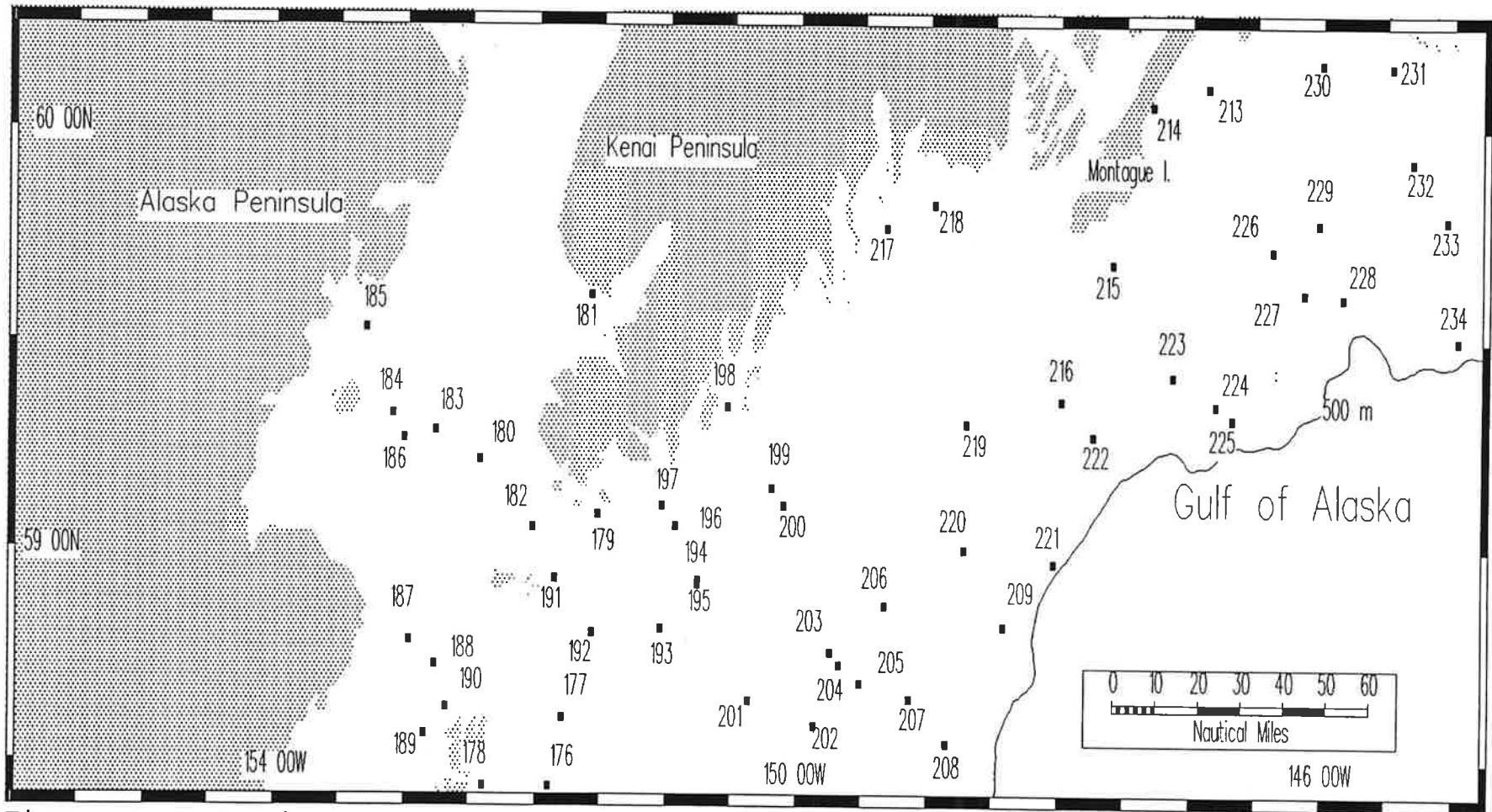


Figure 14.---Stations surveyed by the chartered trawler F/V Vesterdaalen from the Alaska Peninsula to Montague Island (hauls 176-209, 213-234).

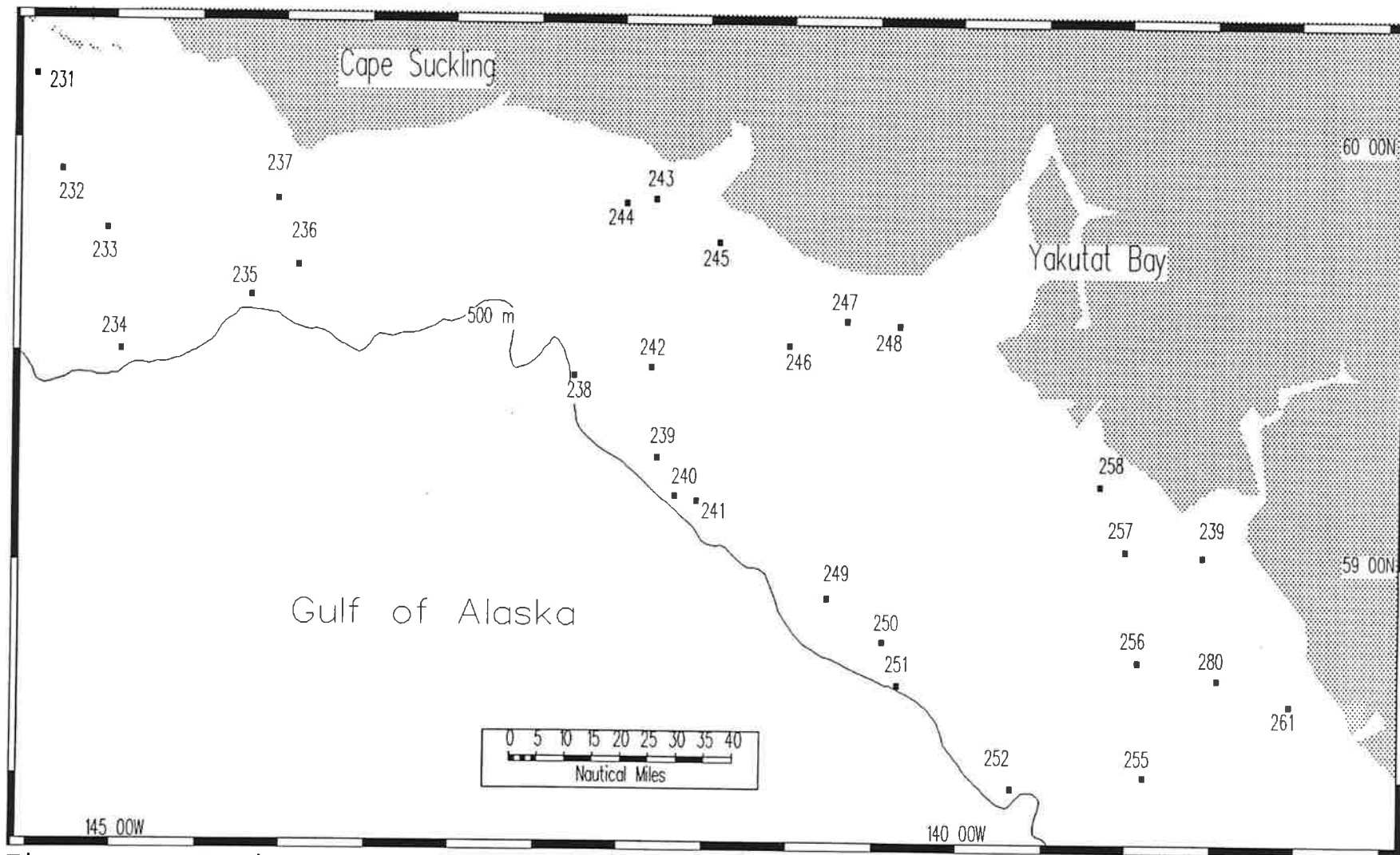


Figure 15.--Stations surveyed by the chartered trawler F/V Vesteraalen from Cape Suckling to Yakutat Bay (hauls 231-252, 255-261).



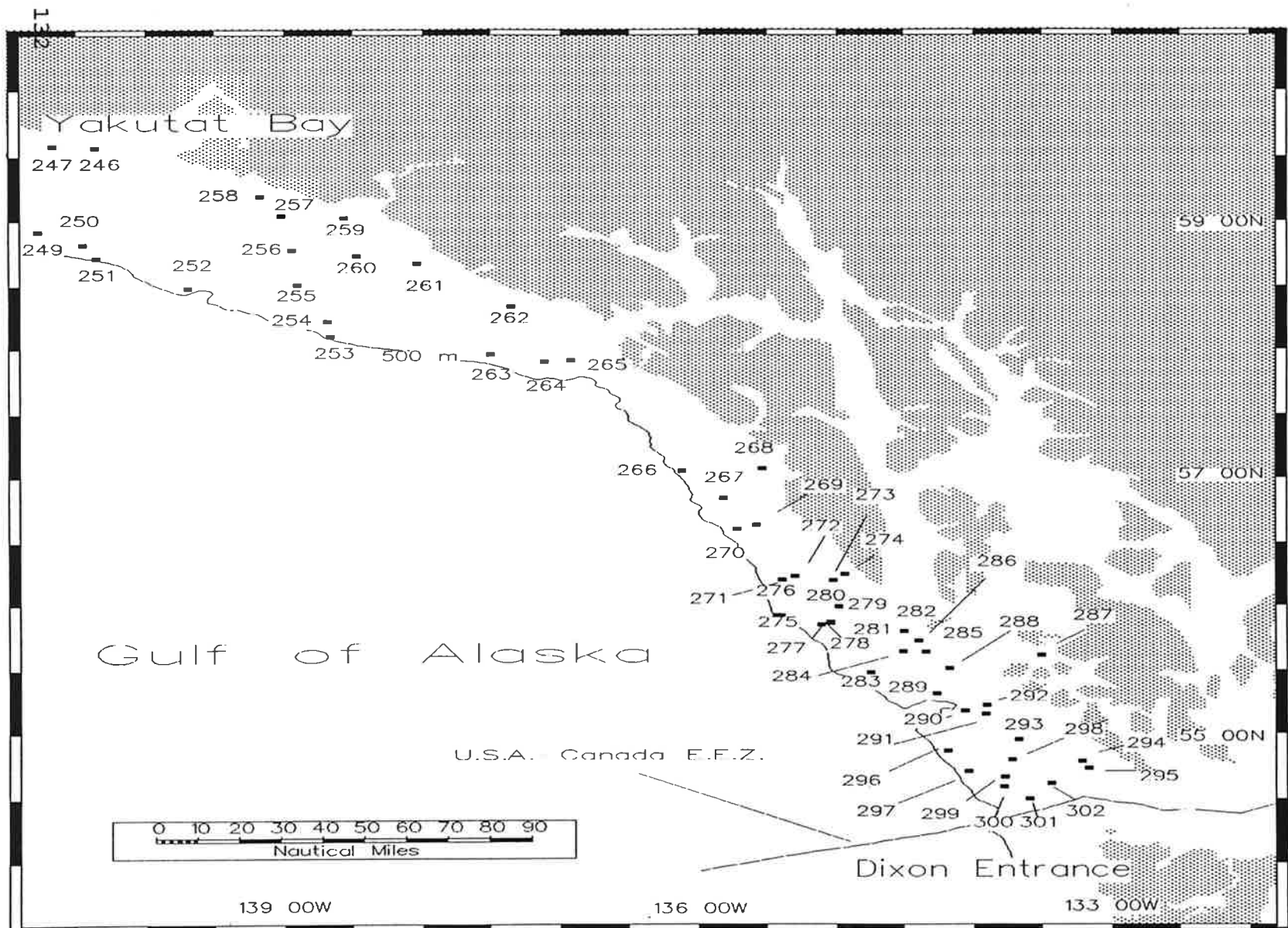


Figure 16.--Stations surveyed by the chartered trawler F/V Vesteraalen from Yakutat Bay to Dixon Entrance (hauls 246, 247, 249-302).

## Section 3 (continued)

### Fishing Log for the F/V Vesteraalen

- Summary listings of species catches by haul
  - Haul start latitude and longitude
  - Bottom depth in meters
  - Duration of tow in hundredths of an hour
  - Distance fished in nautical miles
  - Catch weight in kilograms of principal species
  - Total catch weight in kilograms of all species

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	1	2	3	4	5	6	7	8	9	10	11	12
Start date & time	5/22/96	5/22/96	5/23/96	5/23/96	5/23/96	5/23/96	5/24/96	5/24/96	5/24/96	5/24/96	5/24/96	5/25/96
Start latitude	5241.52	5246.32	5237.05	5239.83	5246.45	5248.14	5312.53	5310.48	5300.17	5307.22	5305.45	5315.26
Start longitude	16950.79	16950.96	16918.48	16903.37	16855.24	16850.44	16755.00	16733.35	16715.26	16647.23	16659.92	16659.95
End latitude	5241.81	5246.45	5236.54	5240.20	5246.46	5247.30	5312.06	5309.68	5259.90	5306.83	5304.89	5314.81
End longitude	16951.80	16952.06	16917.41	16901.96	16853.89	16850.41	16756.30	16732.81	16716.91	16648.56	16701.27	16701.12
Gear depth (m)	211.00	114.00	146.00	119.00	84.00	78.00	58.00	93.00	331.00	402.00	304.00	112.00
Duration (h)	0.23	0.29	0.28	0.31	0.30	0.29	0.32	0.31	0.38	0.30	0.34	0.30
Distance fished (nm)	1.28	1.34	1.61	1.74	1.55	1.58	1.71	1.62	2.03	1.66	1.85	1.59
Performance	0	0	0	0	0	0	0	0	2	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	45.70	0.00	2225.68	3.30	0.00	1.50	0.00	204.80	4.30	5.60	5.20	18.10
Pacific cod	107.70	11.30	319.80	68.70	34.60	49.60	8.30	67.90	2.27	0.00	0.00	33.00
Sablefish	0.00	0.00	169.10	0.00	0.00	0.00	0.00	0.00	9.80	31.40	14.00	0.00
Arrowtooth flounder	3.90	0.00	66.10	8.50	3.90	0.00	0.00	5.60	44.70	2.80	0.80	54.80
Pacific halibut	27.80	20.50	35.51	58.30	159.70	69.90	16.21	35.40	3.90	0.00	0.00	11.04
Flathead sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.19	3.83	0.30	0.00
Rex sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20	0.00	15.80	0.00
Rock sole species	5.20	8.70	0.00	49.00	18.90	14.30	25.80	82.50	0.00	0.00	0.00	5.70
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00
Pacific ocean perch	17.20	0.00	3.60	0.00	0.06	0.60	0.00	0.00	12.30	1.10	15.60	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	232.30	2.70	8.70	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	20.60	45.50	0.00
Northern rockfish	0.70	0.00	0.00	34.60	27.80	0.55	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.70	3.90	2.70	0.00
Dusky rockfish species	0.00	0.00	0.00	1.20	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	18.10	0.00	0.12	0.00	0.55	4.70	0.02	4.12	0.42	0.00	0.01	0.00
Skates	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.10	0.00	0.00	0.40	0.00	0.22	0.57	0.04	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	3.29	4.47	0.11
Grand total	277.10	44.39	2846.74	236.31	294.71	145.91	65.26	478.17	639.96	281.97	261.27	123.07

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	13	14	15	16	17	18	19	20	21	22	23	24
Start date & time	5/25/96	5/25/96	5/25/96	5/25/96	5/25/96	5/26/96	5/26/96	5/26/96	5/26/96	5/26/96	5/27/96	5/27/96
Start latitude	5314.31	5332.95	5319.86	5324.13	5324.27	5332.14	5339.47	5339.16	5341.80	5337.94	5413.58	5413.56
Start longitude	16652.90	16637.77	16626.83	16611.84	16607.80	16610.49	16610.42	16619.12	16542.38	16531.27	16528.17	16528.14
End latitude	5313.99	5332.26	5319.53	5323.82	5323.94	5331.60	5338.74	5338.35	5340.95	5337.34	5413.60	5413.49
End longitude	16654.18	16636.95	16628.21	16613.28	16609.07	16611.51	16611.12	16619.49	16541.89	16532.22	16526.74	16526.77
Gear depth (m)	147.00	77.00	212.00	205.00	237.00	107.00	88.00	78.00	95.00	157.00	64.00	63.00
Duration (h)	0.29	0.28	0.31	0.30	0.28	0.30	0.30	0.29	0.31	0.29	0.32	0.31
Distance fished (nm)	1.56	1.58	1.68	1.70	1.55	1.53	1.56	1.59	1.69	1.55	1.69	1.66
Performance	0	0	0	0	0	0	1	0	0	0	5	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	245.70	43.60	3.80	10.80	7.60	2.80	420.90	321.30	11.60	26.70	0.00	0.00
Pacific cod	37.10	57.50	21.30	23.80	14.60	47.30	66.10	101.70	11.80	1.90	10.60	0.20
Sablefish	0.00	0.00	1.50	1.30	4.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00
Arrowtooth flounder	35.80	266.70	25.00	15.00	25.10	33.10	323.20	93.10	39.30	11.40	0.00	0.00
Pacific halibut	17.87	29.42	0.00	3.57	0.00	44.02	37.31	28.80	8.92	0.00	0.00	146.94
Flathead sole	0.00	33.30	4.20	3.10	6.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	2.00	2.14	11.30	6.00	42.50	0.00	0.00	0.00	0.00	2.50	0.00	0.00
Rock sole species	4.20	27.50	16.90	4.10	2.25	6.50	5.32	96.50	8.60	1.20	432.80	369.30
Yellowfin sole	0.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	14.80	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	32.70	91.00	49.70	368.80	0.00	0.00	0.18	10.80	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	3.40	4.40	11.80	1.10	0.00	0.00	0.00	3.70	0.00	0.00
Northern rockfish	0.00	0.00	1.90	0.00	0.57	5.60	0.00	0.00	0.00	6.40	0.00	0.04
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	1.40	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.03	11.12	0.36	0.05	0.00	0.00	0.00	0.00	0.00	0.01	123.90	32.85
Skates	0.00	12.00	0.01	0.00	0.00	0.00	5.60	0.00	0.00	0.01	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.09	0.00	0.00	0.00	0.00	0.29	0.27	0.00	0.40	0.03	0.00	1.52
Red squid	0.00	0.00	3.60	4.23	1.23	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Grand total	343.34	541.61	127.51	170.83	169.42	532.98	860.84	641.40	80.80	66.67	670.90	580.71

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	25	26	27	28	29	30	31	32	33	34	35	36
Start date & time	5/27/96	5/27/96	5/29/96	5/29/96	5/29/96	5/29/96	5/29/96	5/29/96	5/30/96	5/30/96	5/30/96	5/30/96
Start latitude	5413.08	5409.50	5352.43	5355.38	5343.22	5339.75	5337.90	5339.86	5407.96	5349.01	5348.18	5355.87
Start longitude	16513.77	16507.64	16532.56	16517.63	16522.07	16519.91	16507.67	16448.74	16427.60	16420.04	16349.02	16341.57
End latitude	5412.58	5410.25	5352.76	5355.29	5343.38	5340.04	5337.87	5339.70	5408.02	5348.30	5348.25	5355.79
End longitude	16512.64	16508.42	16533.89	16516.15	16520.69	16518.59	16509.01	16447.50	16429.03	16419.25	16347.57	16343.03
Gear depth (m)	67.00	62.00	97.00	105.00	181.00	223.00	414.00	330.00	83.00	90.00	110.00	76.00
Duration (h)	0.31	0.31	0.30	0.30	0.28	0.30	0.26	0.26	0.29	0.31	0.29	0.29
Distance fished (nm)	1.57	1.65	1.60	1.65	1.55	1.58	1.49	1.41	1.60	1.60	1.64	1.62
Performance	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	0.00	159.70	1.60	31.30	5.60	0.00	1.70	87.70	0.00	94.40	3.60
Pacific cod	0.00	5.10	37.20	25.40	32.80	2.30	0.00	0.00	21.30	81.50	62.20	266.40
Sablefish	0.00	0.00	0.00	0.00	0.00	39.30	27.00	10.30	0.00	0.00	0.00	0.00
Arrowtooth flounder	0.00	0.00	19.00	27.50	29.30	42.10	2.90	16.00	29.90	13.00	32.00	8.90
Pacific halibut	63.31	53.00	8.60	38.80	0.00	21.00	0.00	0.00	30.79	26.30	12.11	172.02
Flathead sole	0.00	0.90	0.00	0.00	0.00	2.37	0.27	0.00	28.10	2.32	0.00	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	0.00	0.00	0.00	0.00	3.40	20.30	2.08	27.20	0.00	0.00	2.00	0.00
Rock sole species	3.20	57.60	24.90	45.70	1.45	0.00	0.00	0.00	60.00	81.70	13.10	20.50
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	4.00	12.20	1.31	28.80	0.00	0.00	31.80	1.50
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.30	0.00	0.00	1.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	4.90	12.80	10.00	28.30	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	1.10	1.20	0.46	0.00	0.00	0.00	125.10	8.10
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00	27.70	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.70	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	2.90	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	2.00	0.50	0.00	0.00	0.00	0.29	0.00	0.38	1.60	0.58	0.22	1.20
Skates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	7.40	0.00	0.00	0.00	2.20	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.10	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.10	0.07	1.06	0.20
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	1.30	1.40	0.00	0.00	0.64	0.00
Grand total	71.11	117.20	249.40	139.04	116.92	161.96	216.45	659.20	262.21	235.07	438.12	648.03

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	37	38	39	40	41	42	43	44	45	46	47	48
Start date & time	5/30/96	5/31/96	5/31/96	5/31/96	5/31/96	5/31/96	6/1/96	6/1/96	6/1/96	6/1/96	6/1/96	6/2/96
Start latitude	5425.92	5440.25	5424.54	5416.56	5403.15	5425.77	5447.76	5451.51	5453.14	5458.29	5459.55	5533.76
Start longitude	16405.39	16323.12	16320.49	16315.34	16305.26	16226.42	16316.63	16249.63	16240.59	16223.44	16209.86	16133.02
End latitude	5426.70	5439.55	5423.74	5416.11	5402.55	5425.55	5447.43	5451.79	5452.29	5457.95	5459.75	5532.91
End longitude	16405.12	16323.80	16320.91	16314.63	16306.29	16225.04	16318.07	16251.08	16240.65	16224.74	16211.28	16133.87
Gear depth (m)	87.00	56.00	96.00	66.00	92.00	53.00	89.00	46.00	31.00	38.00	88.00	23.00
Duration (h)	0.28	0.29	0.29	0.22	0.30	0.29	0.30	0.31	0.31	0.29	0.30	0.33
Distance fished (nm)	1.50	1.51	1.58	1.15	1.60	1.57	1.68	1.66	1.63	1.57	1.60	1.83
Performance	0	0	0	2	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	48.70	2.68	8.30	0.45	229.20	2.10	131.91	0.74	0.00	0.03	748.66	0.22
Pacific cod	8.40	24.70	125.80	56.30	129.40	17.30	181.80	8.00	2.30	1.17	33.00	83.00
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.23	1.47
Arrowtooth flounder	63.60	36.37	140.30	2.70	36.00	4.00	41.80	0.71	0.00	2.57	45.80	0.00
Pacific halibut	44.27	445.90	111.36	67.39	27.58	10.72	52.71	44.50	136.03	38.37	28.10	42.08
Flathead sole	6.00	3.02	16.80	1.65	1.85	41.70	73.10	5.80	0.00	75.80	337.70	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rex sole	0.00	0.00	1.50	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rock sole species	79.00	158.04	197.10	42.50	82.70	47.00	236.90	271.20	84.50	65.30	11.50	326.40
Yellowfin sole	0.00	58.49	0.00	0.00	0.00	0.60	35.60	2.06	0.00	225.20	89.60	307.20
Butter sole	0.00	47.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	500.94	1.46	0.00	0.00	0.00	0.00	1.49	26.80	21.10	8.00	3.70
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.65	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	1.30	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	15.42	10.00	4.20	3.10	12.30	199.30	8.70	25.24	2.84	5.41	38.00
Skates	0.00	185.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.01	0.00	0.00	0.00	0.00	0.04	0.06	0.18	0.00	0.00	0.84	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	253.72	1479.00	615.16	219.13	531.26	180.51	994.04	412.13	280.43	452.74	1315.62	820.45

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	49	50	51	52	53	54	55	56	57	58	59	60
Start date & time	6/2/96	6/2/96	6/2/96	6/2/96	6/2/96	6/3/96	6/3/96	6/3/96	6/3/96	6/3/96	6/7/96	6/4/96
Start latitude	5519.04	5510.46	5455.56	5453.64	5438.39	5435.84	5430.12	5417.49	5406.27	5416.55	5414.86	5417.91
Start longitude	16116.98	16050.24	16054.89	16036.02	16035.33	16109.90	16149.51	16139.31	16137.44	16125.96	16115.77	16057.80
End latitude	5518.57	5509.57	5456.02	5453.82	5438.38	5435.37	5430.16	5417.65	5406.73	5417.12	5414.55	5417.96
End longitude	16115.80	16050.03	16053.57	16037.44	16036.70	16111.05	16148.09	16140.70	16136.39	16124.85	16117.08	16059.20
Gear depth (m)	54.00	43.00	91.00	78.00	109.00	92.00	139.00	132.00	263.00	122.00	439.00	215.00
Duration (h)	0.29	0.30	0.30	0.28	0.28	0.28	0.28	0.28	0.26	0.30	0.28	0.27
Distance fished (nm)	1.59	1.72	1.68	1.56	1.50	1.54	1.54	1.54	1.44	1.63	1.55	1.53
Performance	0	0	0	0	0	0	0	0	7	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	1.59	0.00	0.85	136.10	7.10	1.45	0.00	1.34	0.95	31.40	1.47	83.00
Pacific cod	13.40	638.70	121.90	102.90	16.00	24.60	2.90	0.00	2.40	78.10	0.00	2.10
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.47	16.30	4.90
Arrowtooth flounder	41.20	2.58	130.50	100.20	666.70	129.90	684.50	420.30	0.00	129.40	14.00	33.80
Pacific halibut	11.45	61.15	63.12	44.39	65.04	66.00	6.54	23.22	0.00	10.46	0.00	0.00
Flathead sole	3.70	4.60	12.60	31.60	23.40	1.56	56.60	20.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.90	0.00	0.00	4.38	0.00
Rex sole	0.00	0.00	0.00	0.00	0.00	0.00	4.50	87.70	0.00	0.00	0.44	2.20
Rock sole species	181.48	260.80	33.80	70.00	1.38	2.02	0.00	0.00	0.00	1.10	0.00	0.00
Yellowfin sole	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	92.70	4.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.81	0.00	0.00	0.00	1226.50
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	6.40	0.00	2.80	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.80	0.00	33.30	0.45
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.00	0.00
Shorthead rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	14.61	0.51	1.86	0.00	0.02	0.00	0.00	0.00	0.15	0.05	0.00	0.04
Skates	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.04	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.08	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.34	0.00
Grand total	537.41	1035.82	365.41	485.89	784.96	233.95	761.95	559.63	33.85	298.20	576.53	1353.29

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	61	62	63	64	65	66	67	68	69	70	71	72
Start date & time	6/4/96	6/4/96	6/4/96	6/7/96	6/7/96	6/7/96	6/7/96	6/8/96	6/8/96	6/8/96	6/8/96	6/8/96
Start latitude	5417.79	5421.58	5415.93	5530.23	5524.56	5502.99	5458.08	5439.99	5431.22	5427.63	5420.72	5423.28
Start longitude	16047.75	16041.21	16034.24	15957.52	15944.57	15942.92	15936.79	15920.66	15941.64	15938.41	15953.20	15925.93
End latitude	5417.72	5421.66	5416.06	5530.96	5524.85	5503.83	5458.68	5439.16	5431.22	5427.27	5420.57	5422.92
End longitude	16046.34	16039.83	16035.60	15956.82	15945.98	15942.66	15937.96	15920.55	15942.05	15939.83	15954.53	15927.24
Gear depth (m)	166.00	114.00	238.00	76.00	144.00	65.00	54.00	76.00	107.00	142.00	289.00	479.00
Duration (h)	0.27	0.31	0.28	0.29	0.30	0.29	0.30	0.30	0.08	0.31	0.27	0.33
Distance fished (nm)	1.54	1.52	1.53	1.58	1.64	1.62	1.69	1.55	0.45	1.69	1.50	1.60
Performance	0	0	0	0	0	0	0	0	6	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.21	0.05	19.80	1.10	2.30	2.06	2.00	0.14	12.60	2.80	6.70	2.10
Pacific cod	133.20	0.00	11.40	64.20	40.90	22.00	16.70	15.80	30.30	212.60	0.00	0.00
Sablefish	0.00	0.00	286.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.40	33.80
Arrowtooth flounder	91.40	9.00	237.10	8.20	133.60	1.60	0.51	0.11	0.00	439.30	50.60	26.60
Pacific halibut	136.83	99.65	14.72	67.83	34.39	65.67	26.16	95.18	28.47	61.63	0.00	14.56
Flathead sole	0.00	0.94	0.00	0.00	73.90	1.60	2.30	0.00	0.00	1.30	0.00	0.00
Dover sole	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.30	19.80
Rex sole	3.05	0.00	4.60	0.00	1.10	0.00	0.00	0.00	0.00	10.60	30.90	6.30
Rock sole species	0.00	22.70	0.00	59.70	1.50	95.40	173.81	14.00	14.70	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	47.80	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	1548.20	0.00	0.00	0.00	0.00	0.00	525.49	0.00	2.40	0.00
Rougheye rockfish	0.00	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.10	0.00
Shortspine thomyhead	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.80	131.60
Northern rockfish	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	2959.82	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.10	3.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131.69	0.00	0.00	0.00
Other rockfish	0.00	0.00	10.14	0.00	0.00	0.00	0.00	0.00	233.62	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.01	0.24	14.24	0.00	3.38	0.00	0.00	0.11	0.00
Skates	20.20	0.00	0.00	0.00	2.90	0.00	69.10	0.00	0.00	1.63	0.00	0.00
Sharks	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.02	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Scallops	0.00	0.09	0.00	0.00	0.00	0.11	0.04	0.17	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.22
Grand total	388.15	132.60	2145.94	201.44	306.10	213.18	343.18	129.72	4008.00	732.32	320.34	528.66



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	73	74	75	76	77	78	79	80	81	82	83	84
Start date & time	6/9/96	6/9/96	6/9/96	6/9/96	6/9/96	6/10/96	6/10/96	6/10/96	6/10/96	6/10/96	6/11/96	6/11/96
Start latitude	5457.68	5504.63	5527.54	5528.94	5526.56	5552.37	5548.53	5557.33	5537.44	5517.39	5442.74	5442.25
Start longitude	15850.80	15855.40	15901.66	15913.33	15925.76	15913.50	15845.02	15835.61	15836.19	15818.74	15825.31	15803.78
End latitude	5457.34	5504.29	5527.82	5528.75	5526.09	5552.08	5548.30	5556.56	5537.56	5517.79	5441.91	5442.24
End longitude	15849.42	15854.23	15903.05	15914.80	15924.61	15914.80	15843.48	15835.22	15834.82	15820.21	15825.46	15804.40
Gear depth (m)	75.00	91.00	144.00	138.00	151.00	65.00	67.00	96.00	110.00	130.00	189.00	282.00
Duration (h)	0.31	0.29	0.29	0.31	0.27	0.29	0.30	0.28	0.28	0.32	0.27	0.13
Distance fished (nm)	1.63	1.41	1.58	1.60	1.52	1.55	1.71	1.51	1.48	1.74	1.54	0.68
Performance	0	0	0	0	0	0	0	0	0	0	0	6
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.01	0.10	0.00	0.80	2.10	100.80	0.00	305.10	0.04	0.00	58.50	1.70
Pacific cod	0.00	0.00	0.00	8.00	0.00	68.50	9.90	96.20	0.00	13.00	41.60	6.20
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.90	62.50
Arrowtooth flounder	2.50	2.40	285.70	87.60	51.90	255.80	0.00	177.70	126.40	125.30	100.80	144.20
Pacific halibut	63.41	80.92	3.30	4.29	14.90	53.32	307.09	30.88	23.53	81.50	10.53	25.45
Flathead sole	0.00	1.80	13.60	9.60	34.90	184.10	0.00	36.30	0.00	17.70	1.30	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	18.10	6.60	108.70
Rex sole	0.00	0.00	1.90	0.60	0.08	0.00	0.00	4.50	0.00	17.40	19.40	46.30
Rock sole species	8.00	32.10	0.00	0.40	0.00	82.60	86.70	60.70	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	52.10	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	7.60	0.00	4.40	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.20	18.40	168.20	10.70
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.70
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.30
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.60	1.40	0.00
Shorthead rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	4.55	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.69	0.00	0.00	0.26	3.75
Skates	0.00	0.00	0.00	0.00	1.40	26.35	0.00	0.00	0.00	8.30	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.04	0.00	0.27	0.07	0.00	0.01	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.05	0.49	0.57	0.00	0.00	0.04	0.00	0.00	0.05	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Scallops	0.28	0.40	0.02	0.00	0.00	0.00	0.00	0.14	0.11	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	74.39	118.14	304.87	113.14	109.67	840.87	428.75	718.96	150.39	331.95	431.08	466.26

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	85	86	87	88	89	90	91	92	93	94	95	96
Start date & time	6/11/96	6/11/96	6/12/96	6/12/96	6/12/96	6/12/96	6/12/96	6/12/96	6/13/96	6/13/96	6/13/96	6/13/96
Start latitude	5446.80	5455.48	5445.40	5504.86	5511.65	5512.01	5456.89	5502.69	5502.44	5517.40	5528.54	5538.22
Start longitude	15816.34	15812.97	15759.11	15756.03	15736.17	15725.60	15714.05	15707.09	15704.53	15716.02	15713.30	15636.48
End latitude	5446.22	5454.65	5445.90	5504.71	5511.48	5512.56	5456.87	5502.20	5502.77	5517.36	5527.75	5537.78
End longitude	15815.46	15812.92	15758.12	15756.38	15734.81	15724.53	15714.10	15708.24	15703.23	15714.59	15713.09	15637.58
Gear depth (m)	218.00	159.00	138.00	80.00	85.00	95.00	363.00	314.00	404.00	93.00	89.00	244.00
Duration (h)	0.27	0.28	0.27	0.10	0.27	0.29	0.02	0.28	0.28	0.28	0.29	0.25
Distance fished (nm)	1.44	1.56	1.45	0.48	1.49	1.56	0.08	1.54	1.53	1.53	1.49	1.43
Performance	0	0	0	6	0	0	6	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	8.50	6.50	0.95	0.00	3.60	3.70	1.00	20.75	1.00	0.00	4.50	0.00
Pacific cod	4.20	21.50	229.30	0.00	0.00	0.75	0.00	0.00	0.00	0.05	0.00	0.00
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	7.00	17.50	188.10	0.00	0.00	2.00
Arrowtooth flounder	44.30	161.20	305.90	0.00	0.00	0.34	23.80	13.00	29.30	0.07	0.00	103.70
Pacific halibut	3.24	24.86	32.48	4.10	238.50	32.23	0.00	0.00	0.00	32.95	81.99	0.00
Flathead sole	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Dover sole	8.20	0.60	1.00	0.00	0.00	0.00	20.40	11.90	26.40	0.00	0.00	5.10
Rex sole	125.70	27.80	0.00	0.00	0.00	0.00	1.50	10.60	2.50	0.00	0.00	15.50
Rock sole species	0.00	0.00	1.20	0.00	0.79	3.20	0.00	0.00	0.00	7.60	2.60	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	23.90	3.10	0.70	0.04	7.50	0.00	0.00	384.10	0.00	0.30	8.25	0.00
Roughey rockfish	0.45	0.00	0.00	0.00	0.00	0.00	5.80	4.50	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	11.20	9.90	98.80	0.00	0.00	0.00
Northern rockfish	0.00	0.60	0.00	0.10	0.00	1.25	0.00	0.00	0.00	0.00	8.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	12.50	17.80	2.60	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	1.60	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.31	0.00	0.47	0.11	0.00	0.00	0.00	0.00	0.10	0.30
Skates	0.00	0.00	9.70	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00	24.97
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.95	0.00	0.00	0.00	0.00
Northern pink shrimp	0.13	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	2.17
Scallops	0.00	0.00	0.00	0.00	0.02	0.30	0.00	0.00	0.00	0.02	0.09	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.40	9.10	0.00	0.00	0.00
Grand total	225.31	249.33	583.31	7.07	256.25	48.25	158.91	522.62	479.53	43.97	115.40	159.49

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	97	98	99	100	101	102	103	104	105	106	107	108
Start date & time	6/13/96	6/13/96	6/14/96	6/14/96	6/14/96	6/14/96	6/14/96	6/15/96	6/15/96	6/15/96	6/15/96	6/15/96
Start latitude	5516.35	5515.88	5526.90	5538.77	5532.07	5526.81	5537.29	5535.70	5540.30	5548.45	5557.18	5541.56
Start longitude	15644.87	15633.25	15618.45	15612.65	15608.68	15603.83	15550.38	15529.14	15518.40	15520.03	15520.53	15529.83
End latitude	5516.63	5515.38	5526.15	5538.01	5532.37	5527.15	5536.81	5536.15	5539.85	5549.42	5556.36	5541.37
End longitude	15643.55	15634.46	15618.08	15612.65	15609.46	15602.60	15549.32	15528.06	15519.64	15519.81	15520.75	15531.28
Gear depth (m)	102.00	150.00	197.00	250.00	202.00	194.00	178.00	345.00	277.00	59.00	46.00	130.00
Duration (h)	0.28	0.30	0.25	0.26	0.16	0.26	0.26	0.26	0.28	0.33	0.31	0.30
Distance fished (nm)	1.50	1.60	1.46	1.43	0.99	1.47	1.44	1.42	1.56	1.83	1.58	1.57
Performance	0	0	0	0	2	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	16.60	11.60	3.10	1.00	1.20	0.85	1.60	4.30	10.50	0.65	0.00	0.30
Pacific cod	0.00	51.80	10.35	0.00	12.50	9.50	4.90	0.00	0.00	0.00	0.00	1444.10
Sablefish	0.00	5.30	17.10	11.60	9.70	0.00	2.60	26.00	150.45	0.00	0.00	0.00
Arrowtooth flounder	0.15	4.20	107.70	118.20	28.50	56.80	159.20	45.85	102.70	3.40	0.00	1596.56
Pacific halibut	7.69	89.10	0.00	13.26	8.97	51.62	7.07	8.53	10.53	91.13	14.38	47.68
Flathead sole	0.45	0.25	1.20	4.50	1.30	1.15	5.60	0.60	0.70	0.00	0.00	191.05
Dover sole	0.00	0.00	15.25	7.30	5.00	18.50	8.00	21.60	30.70	0.00	0.00	0.00
Rex sole	0.00	0.00	41.00	19.60	15.80	84.00	31.50	3.50	86.30	0.00	0.00	2.95
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	148.60	4.10	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	33.50	24.60	61.40	0.00	12.50	5750.84	0.00	1.35	91.70	1.15	0.00	0.00
Rougheye rockfish	0.00	0.00	1.85	191.55	2.90	0.74	0.00	72.55	3.40	0.00	0.00	0.00
Shortspine thomyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.30	26.40	0.00	0.00	0.00
Northern rockfish	469.20	18.50	1.00	0.00	0.00	227.41	8.20	0.00	6.15	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.25	5.10	0.00	0.00	0.00
Dusky rockfish species	16.20	0.00	3.40	0.00	0.00	11.45	1.70	0.00	11.60	0.00	0.00	0.00
Other rockfish	5.10	0.30	0.00	0.00	0.00	0.93	0.00	0.00	1.95	0.00	0.00	0.00
Atka Mackerel	6.45	4.60	0.00	0.00	0.00	5.70	3.00	0.00	1.10	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.60	0.00	0.00	0.00	0.00	0.00	0.01	3.76	0.14	0.00	0.00	0.00
Skates	0.00	0.00	5.95	15.45	0.00	0.00	10.11	4.35	0.11	121.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.02	0.01	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00
Scallops	0.29	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
Grand total	575.65	229.93	287.69	387.30	98.80	6224.88	243.60	321.69	540.17	391.54	33.46	3285.00

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	109	110	111	112	113	114	115	116	117	118	119	120
Start date & time	6/15/96	6/16/96	6/16/96	6/16/96	6/16/96	6/16/96	6/17/96	6/18/96	6/18/96	6/18/96	6/18/96	6/18/96
Start latitude	5544.50	5559.78	5627.45	5624.94	5655.64	5706.06	5616.87	5606.24	5554.25	5555.34	5612.22	5626.66
Start longitude	15544.63	15552.72	15544.90	15518.87	15533.70	15545.87	15639.01	15642.17	15704.51	15701.51	15702.72	15722.41
End latitude	5544.06	5600.43	5626.79	5624.19	5654.89	5705.34	5616.08	5606.41	5553.77	5554.63	5611.48	5625.91
End longitude	15543.33	15551.72	15545.73	15519.54	15534.07	15545.46	15638.68	15640.78	15705.69	15702.05	15703.55	15722.04
Gear depth (m)	64.00	67.00	144.00	46.00	276.00	281.00	149.00	77.00	101.00	116.00	94.00	182.00
Duration (h)	0.29	0.30	0.25	0.28	0.25	0.26	0.27	0.27	0.28	0.27	0.28	0.25
Distance fished (nm)	1.63	1.61	1.51	1.55	1.44	1.40	1.54	1.52	1.54	1.46	1.64	1.47
Performance	0	0	0	0	0	0	0	0	7	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	0.00	0.00	0.00	23.00	20.40	2.10	0.00	2.70	10.50	2.50	8.90
Pacific cod	6.70	4.00	12.70	5.30	13.20	9.40	0.00	0.00	196.00	196.70	23.90	12.00
Sablefish	0.00	0.00	0.00	0.00	20.90	12.85	0.35	0.00	0.00	0.00	0.00	0.60
Arrowtooth flounder	0.00	0.00	289.70	0.00	139.10	106.75	607.50	0.00	3.80	428.10	108.00	393.10
Pacific halibut	99.52	76.12	2.64	55.29	11.97	16.23	26.05	21.84	6.04	4.67	84.84	35.19
Flathead sole	0.00	0.00	7.10	0.00	14.20	6.90	20.60	0.00	0.00	19.10	3.50	34.40
Dover sole	0.00	0.00	2.80	0.00	0.00	0.00	1.90	0.00	0.00	2.60	0.00	0.00
Rex sole	0.00	0.00	2.70	0.00	1.50	1.80	16.10	0.00	0.00	37.80	0.00	0.02
Rock sole species	21.30	21.35	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	13.50	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.95	0.00	0.30	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	34.50	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.20	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.45	5.37
Skates	0.00	0.00	0.00	0.00	0.00	2.50	0.01	0.00	0.00	0.00	0.00	8.65
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	1.00	0.48	0.00	0.00	0.00	0.00	0.00	2.90
King crabs	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52
Sidestripe shrimp	0.00	0.00	0.00	0.00	2.56	1.45	0.00	0.00	0.00	0.00	0.00	0.76
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	8.87	11.90	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	128.27	106.76	317.84	60.64	246.39	202.27	684.68	21.98	323.32	700.97	243.14	526.24

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	121	122	123	124	125	126	127	128	129	130	131	132
Start date & time	6/19/96	6/19/96	6/19/96	6/19/96	6/20/96	6/20/96	6/20/96	6/20/96	6/20/96	6/20/96	6/21/96	6/21/96
Start latitude	5655.37	5652.12	5702.94	5715.65	5655.40	5636.88	5648.20	5644.87	5653.95	5659.95	5754.07	5755.21
Start longitude	15611.99	15618.87	15608.36	15508.62	15358.57	15442.88	15501.78	15500.17	15502.10	15459.79	15452.13	15453.24
End latitude	5655.11	5652.92	5702.13	5714.92	5655.91	5637.24	5648.77	5644.22	5653.14	5700.65	5754.31	5754.89
End longitude	15610.54	15618.92	15608.84	15509.28	15357.35	15442.68	15501.37	15500.92	15502.66	15459.06	15450.80	15454.74
Gear depth (m)	187.00	190.00	87.00	238.00	66.00	31.00	78.00	57.00	87.00	123.00	190.00	44.00
Duration (h)	0.30	0.26	0.28	0.27	0.30	0.13	0.22	0.27	0.29	0.27	0.25	0.28
Distance fished (nm)	1.57	1.50	1.59	1.54	1.68	0.72	1.19	1.46	1.62	1.53	1.46	1.61
Performance	0	0	0	0	0	7	2	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	17.70	61.80	0.00	12.20	1241.70	0.00	146.30	0.09	62.30	15.40	141.70	0.10
Pacific cod	9.00	3.40	0.00	21.40	33.50	0.18	44.90	2.70	20.90	9.10	139.00	81.90
Sablefish	0.00	0.00	0.00	26.70	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Arrowtooth flounder	85.70	26.20	955.50	142.10	62.10	0.00	170.40	7.10	1421.00	646.60	209.10	23.28
Pacific halibut	10.67	4.69	65.00	0.00	13.48	0.00	97.14	15.48	52.61	10.47	25.97	56.55
Flathead sole	23.30	19.00	1.20	11.10	91.40	0.20	92.50	0.00	33.70	29.10	16.70	7.74
Dover sole	3.00	4.20	0.00	4.70	0.13	0.00	5.10	0.10	19.70	21.30	14.70	0.00
Rex sole	2.10	0.75	0.00	0.00	0.38	0.00	9.50	0.00	29.70	2.05	2.95	0.00
Rock sole species	0.00	0.00	37.30	0.00	1.40	0.00	5.30	63.00	0.00	0.00	0.00	142.40
Yellowfin sole	0.00	0.00	0.00	0.00	60.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	3.90	0.00	10.90	0.00	1.70	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.67	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.10	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.61	0.00	2.81	0.00	6.20	0.00	1.00	0.06	0.73	1.05
Skates	19.55	2.15	10.75	0.00	0.00	0.00	44.14	0.00	0.00	1.31	13.82	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.20	0.62	0.04	0.00	0.00	0.28	0.00	3.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	1.63	2.59	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	3.73	0.00
Sidestripe shrimp	0.26	3.07	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00
Scallops	0.00	0.00	0.21	0.00	0.53	0.00	0.05	0.03	0.30	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00
Grand total	177.08	152.99	1086.73	225.85	1521.70	14.46	658.65	106.32	1655.15	742.86	581.24	371.68

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	133	134	135	136	137	138	139	140	141	142	143	144
Start date & time	6/21/96	6/21/96	6/22/96	6/22/96	6/22/96	6/22/96	6/25/96	6/25/96	6/26/96	6/26/96	6/26/96	6/26/96
Start latitude	5745.22	5741.36	5804.90	5815.99	5818.30	5811.82	5754.50	5751.82	5742.76	5739.25	5725.51	5657.14
Start longitude	15439.12	15405.04	15358.70	15402.18	15305.84	15328.32	15214.20	15159.93	15202.44	15134.29	15147.21	15201.92
End latitude	5744.64	5740.88	5805.47	5815.32	5817.69	5811.53	5754.03	5752.67	5742.51	5739.02	5724.71	5656.58
End longitude	15440.23	15403.71	15359.76	15403.06	15306.54	15329.63	15215.37	15159.80	15200.94	15135.75	15147.72	15203.06
Gear depth (m)	220.00	65.00	204.00	172.00	69.00	190.00	191.00	113.00	136.00	65.00	69.00	82.00
Duration (h)	0.28	0.28	0.26	0.28	0.28	0.25	0.27	0.28	0.27	0.28	0.29	0.27
Distance fished (nm)	1.56	1.63	1.50	1.53	1.36	1.39	1.53	1.68	1.59	1.57	1.58	1.57
Performance	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	13.30	1.00	10.30	49.20	0.00	15.80	375.60	0.93	828.10	0.90	1.50	0.60
Pacific cod	28.80	8.80	16.30	21.10	0.21	3.50	382.70	38.60	33.90	6.90	132.90	0.00
Sablefish	0.00	0.00	0.00	0.00	0.00	3.00	13.70	8.50	3.30	0.00	0.00	0.00
Arrowtooth flounder	115.20	5.20	96.28	73.20	435.40	84.00	124.10	222.80	325.30	0.00	4.90	0.00
Pacific halibut	14.71	218.19	0.00	32.06	40.16	0.00	21.10	78.83	0.00	46.50	37.00	193.50
Flathead sole	4.00	0.00	15.20	3.40	105.60	50.50	37.50	10.00	110.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	2.90	3.30	0.00	20.00	0.00	1.50	0.00	0.00	0.00
Rex sole	0.03	0.00	0.00	0.00	0.00	0.50	2.40	11.20	19.00	0.00	0.00	0.00
Rock sole species	0.00	75.00	0.00	0.00	58.55	0.00	0.35	7.20	0.90	49.40	127.20	11.40
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Rougheye rockfish	0.45	0.00	2.25	1.40	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.70	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.17	1.30	0.36	0.00	1.96	0.22	0.21	0.73	2.50	0.10	0.10	0.00
Skates	36.35	0.02	12.19	18.10	26.00	0.00	24.50	1.90	27.00	47.40	2.40	0.00
Sharks	75.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	4.60	0.00	2.20	0.64	0.00	0.08	0.58	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	1.32	0.00	3.09	0.74	0.00	5.39	6.99	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	3.99	0.00	3.86	0.17	0.00	2.50	0.11	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.29	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.10	0.60
Red squid	1.82	0.76	0.01	2.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	326.66	345.97	187.89	219.63	685.70	192.44	1014.81	403.49	1435.41	154.10	306.57	212.00

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	145	146	147	148	149	150	151	152	153	154	155	156
Start date & time	6/27/96	6/27/96	6/27/96	6/27/96	6/27/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/29/96
Start latitude	5707.52	5704.33	5645.40	5646.24	5703.44	5629.92	5623.37	5621.53	5615.27	5624.04	5616.48	5600.95
Start longitude	15232.11	15255.77	15317.17	15332.33	15327.28	15332.92	15352.96	15408.36	15415.70	15427.22	15430.33	15435.80
End latitude	5706.73	5703.99	5646.09	5646.69	5704.18	5629.35	5623.71	5621.54	5615.76	5623.84	5615.71	5601.02
End longitude	15232.88	15256.18	15316.48	15333.53	15327.00	15333.86	15351.71	15406.86	15414.66	15428.76	15429.85	15437.07
Gear depth (m)	126.00	77.00	138.00	79.00	118.00	130.00	76.00	82.00	125.00	33.00	87.00	320.00
Duration (h)	0.31	0.16	0.26	0.28	0.27	0.28	0.27	0.28	0.27	0.29	0.28	0.25
Distance fished (nm)	1.69	0.78	1.46	1.53	1.43	1.44	1.45	1.59	1.43	1.65	1.56	1.35
Performance	0	7	2	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	9.00	30.40	12.80	0.25	195.10	0.12	0.00	2.80	2.30	1104.70	23.10	0.00
Pacific cod	30.40	2.80	4.80	0.17	41.80	16.10	0.00	7.80	4.70	15.80	188.30	0.00
Sablefish	2.40	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.50
Arrowtooth flounder	925.80	6.20	150.80	0.80	297.70	217.20	0.60	49.00	387.40	5.00	211.40	104.30
Pacific halibut	56.23	14.90	9.60	30.77	23.09	0.00	37.10	27.30	16.35	35.86	43.49	0.00
Flathead sole	27.20	0.00	134.20	0.00	202.90	13.60	0.20	7.30	22.70	0.00	11.50	0.00
Dover sole	3.30	0.00	0.60	0.00	4.70	0.00	0.00	0.00	15.40	0.00	0.49	36.50
Rex sole	20.80	0.00	0.89	0.00	1.80	36.30	0.40	0.00	24.30	0.00	48.40	14.00
Rock sole species	0.00	23.95	0.45	10.70	2.80	0.00	12.92	28.50	0.00	1.20	24.84	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.58	24.60	0.00	0.00	0.00	0.00	32.30	0.80	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	9.80	0.00	0.00	0.00	0.00	26.40	1.40	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.06
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144.40
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.10
Northern rockfish	0.00	4.80	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.90
Dusky rockfish species	0.00	1.44	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.11	0.08	0.00	20.29	0.11	1.22	4.00	0.00	0.00	4.70	4.76
Skates	0.00	0.00	9.60	0.00	0.00	2.70	8.65	0.00	0.00	30.80	1.60	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	246.00	0.00
Tanner crabs	0.01	0.00	0.12	0.00	1.46	0.33	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.12	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Scallops	0.12	0.00	0.00	0.04	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.00
Grand total	1077.46	89.24	333.32	69.09	891.48	303.56	74.86	144.75	475.72	1261.33	810.91	807.80

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	157	158	159	160	161	162	163	164	165	166	167	168
Start date & time	6/29/96	6/29/96	6/30/96	6/30/96	6/30/96	6/30/96	6/30/96	7/1/96	7/1/96	7/1/96	7/1/96	7/1/96
Start latitude	5604.63	5610.32	5630.23	5635.58	5626.97	5657.14	5704.43	5709.27	5719.00	5721.86	5751.16	5750.80
Start longitude	15353.93	15338.74	15301.88	15229.26	15218.17	15135.98	15125.48	15115.98	15046.99	15024.22	15017.41	15009.25
End latitude	5604.91	5610.55	5630.18	5635.57	5627.54	5656.59	5703.78	5709.94	5719.75	5722.14	5750.68	5750.15
End longitude	15355.32	15340.12	15300.32	15227.89	15219.43	15136.97	15126.26	15115.44	15046.72	15022.82	15016.10	15008.29
Gear depth (m)	158.00	172.00	79.00	142.00	331.00	143.00	282.00	130.00	150.00	474.00	157.00	192.00
Duration (h)	0.28	0.29	0.30	0.25	0.32	0.27	0.25	0.27	0.27	0.28	0.29	0.27
Distance fished (nm)	1.59	1.51	1.63	1.41	1.70	1.44	1.47	1.37	1.43	1.52	1.62	1.55
Performance	0	0	2	2	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	15.20	0.00	0.00	0.25	8.90	0.32	34.90	0.92	0.05	0.93	1.20	0.03
Pacific cod	0.00	52.30	90.50	0.00	0.00	0.00	0.00	57.60	8.10	0.00	29.10	16.80
Sablefish	0.00	0.00	0.00	0.00	96.10	0.00	34.90	0.00	0.00	65.20	0.00	7.20
Arrowtooth flounder	4.30	589.80	36.70	0.90	16.20	0.00	13.40	1.30	35.20	0.00	298.50	65.60
Pacific halibut	6.80	44.68	82.10	107.00	0.00	25.00	0.00	21.70	20.90	0.00	47.03	10.18
Flathead sole	0.00	0.00	2.50	0.00	0.00	0.00	4.10	0.00	0.00	0.00	0.00	2.70
Dover sole	0.00	0.00	0.00	0.00	41.10	0.00	10.90	0.00	0.00	31.00	0.00	2.10
Rex sole	0.00	16.80	0.00	0.60	14.60	0.00	23.20	0.00	0.39	3.50	3.10	13.60
Rock sole species	0.00	0.00	151.00	0.00	0.00	14.60	0.00	25.50	3.00	0.00	0.21	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.41	0.00	1.85	5.30	0.00	2.40	0.00	2.70	0.00	0.00	1574.89
Rougheye rockfish	0.00	0.00	0.00	0.00	25.80	0.00	20.00	0.00	0.00	0.00	0.00	0.00
Shortspine thomyhead	4.80	0.00	0.00	0.00	37.30	0.00	35.50	0.00	0.00	13.90	0.00	0.00
Northern rockfish	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00	10.50	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	293.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90
Other rockfish	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	8.13	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skates	0.00	15.00	30.00	0.00	0.00	0.00	0.92	0.00	0.00	2.60	5.30	0.00
Sharks	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.15	0.00	0.49	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	8.30	0.00	0.00	3.44	0.80	0.00
Grand total	31.10	720.89	398.69	133.35	541.62	42.89	189.52	107.36	107.02	271.31	387.67	1696.00



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	169	170	171	172	173	174	175	176	177	178	180	181
Start date & time	7/1/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/3/96	7/3/96	7/3/96	7/4/96	7/5/96
Start latitude	5754.49	5806.13	5801.78	5817.19	5818.13	5814.84	5814.77	5826.11	5835.87	5826.26	5903.24	5936.44
Start longitude	15001.55	15026.25	15035.62	15049.79	15110.36	15125.73	15132.61	15153.60	15147.57	15223.54	15201.19	15135.14
End latitude	5755.28	5805.54	5801.41	5817.07	5817.76	5814.06	5814.79	5826.89	5835.99	5827.01	5902.97	5936.70
End longitude	15001.72	15025.16	15034.33	15048.27	15108.98	15125.35	15131.17	15154.11	15148.83	15223.06	15202.35	15137.07
Gear depth (m)	251.00	187.00	132.00	64.00	91.00	154.00	72.00	82.00	172.00	145.00	194.00	28.00
Duration (h)	0.27	0.28	0.28	0.29	0.28	0.28	0.25	0.29	0.22	0.27	0.27	0.33
Distance fished (nm)	1.49	1.55	1.47	1.57	1.56	1.51	1.40	1.64	1.33	1.54	1.24	1.90
Performance	11	0	0	0	0	0	0	0	2	0	3	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	14.03	28.70	0.18	0.00	3.00	9.70	0.06	0.18	96.20	273.00	247.20	7.10
Pacific cod	0.00	127.70	4.00	57.85	7.15	98.10	4.70	32.52	34.30	43.10	0.75	99.70
Sablefish	12.50	201.20	139.50	0.00	1.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00
Arrowtooth flounder	16.00	65.40	117.10	0.00	1.80	333.80	9.30	151.60	355.40	42.00	8.00	1.40
Pacific halibut	0.00	4.29	0.00	22.89	13.42	8.50	26.50	10.71	0.00	0.00	5.60	74.47
Flathead sole	5.40	7.50	0.00	0.00	0.00	0.80	0.00	0.00	0.00	158.30	0.00	0.00
Dover sole	19.90	8.50	2.90	0.00	0.00	4.50	0.00	0.00	10.80	6.00	0.00	0.00
Rex sole	11.30	4.40	6.30	0.00	0.00	6.60	0.00	0.00	6.60	2.30	0.00	0.00
Rock sole species	0.00	0.00	0.00	11.30	12.50	0.00	0.07	14.30	0.00	0.79	0.00	28.05
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60	0.00	5.40
Pacific ocean perch	4.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.00
Shortspine thomyhead	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	13.70	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	1.80	0.00	1.25
Skates	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	2.71	44.40	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.21	0.00	0.01	0.00	0.00	0.17	0.00	0.00	0.04	5.62	0.00	0.00
Sidestripe shrimp	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	101.77	455.28	275.59	99.82	44.67	483.62	63.86	286.02	510.90	592.67	263.22	231.37

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	182	183	184	185	186	187	188	189	190	191	192	193
Start date & time	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/6/96	7/6/96	7/6/96	7/6/96	7/7/96	7/7/96	7/7/96
Start latitude	5912.95	5916.98	5919.39	5931.75	5916.00	5847.04	5843.57	5833.51	5837.42	5855.90	5848.15	5848.59
Start longitude	15225.43	15245.70	15305.33	15318.02	15300.31	15257.75	15245.97	15250.64	15240.63	15151.08	15134.05	15102.56
End latitude	5913.59	5916.70	5919.38	5931.30	5915.20	5847.42	5842.87	5832.78	5836.71	5855.84	5847.87	5848.27
End longitude	15225.53	15245.07	15303.63	15316.69	15300.20	15259.01	15245.17	15251.04	15241.48	15149.81	15132.59	15101.48
Gear depth (m)	93.00	86.00	57.00	31.00	70.00	153.00	168.00	197.00	76.00	166.00	139.00	140.00
Duration (h)	0.28	0.15	0.28	0.27	0.28	0.26	0.28	0.26	0.27	0.29	0.27	0.25
Distance fished (nm)	1.23	0.80	1.65	1.54	1.50	1.40	1.52	1.44	1.59	1.26	1.53	1.22
Performance	0	2	0	0	4	0	0	0	0	2	0	2
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.14	0.00	188.70	2.21	0.06	33.30	85.50	25.00	56.20	195.40	0.00	0.00
Pacific cod	49.30	10.20	6.10	11.40	8.70	22.30	49.20	27.10	14.60	18.40	0.80	4.30
Sablefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00	0.00	21.60	20.80
Arrowtooth flounder	37.70	77.40	10.00	3.40	97.20	107.20	104.20	169.70	365.90	354.70	1204.00	239.30
Pacific halibut	160.42	12.71	17.74	9.44	25.65	27.66	0.00	0.00	42.53	44.51	29.93	27.48
Flathead sole	0.00	0.00	0.76	0.20	14.50	21.50	0.00	5.00	2.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	0.00	0.00	5.00	12.00	4.90	0.00	0.67	26.50	1.50
Rex sole	0.00	0.00	0.00	0.00	0.00	0.00	3.20	0.80	0.00	0.00	2.80	0.50
Rock sole species	12.50	18.40	0.00	0.41	6.10	0.00	0.00	0.00	92.65	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.59	39.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	10.60	0.46	2.48	18.20	71.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	83.50	1.70	2.18	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00
Shortspine thomyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.30
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	1.30	0.00	20.11	1.00	0.00	0.00	10.33	1.51	0.49	0.00	0.00
Skates	0.00	0.00	0.00	34.80	14.70	0.00	0.06	0.00	15.33	12.70	0.00	0.00
Sharks	0.00	0.00	0.00	6.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	2.11	0.03	0.44	0.00	0.00	0.00	0.02
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.33	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
<b>Grand total</b>	<b>364.54</b>	<b>126.17</b>	<b>230.11</b>	<b>156.43</b>	<b>251.02</b>	<b>248.44</b>	<b>282.09</b>	<b>311.05</b>	<b>604.52</b>	<b>648.77</b>	<b>1292.25</b>	<b>302.03</b>

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	195	196	197	198	199	200	201	202	203	204	205	206
Start date & time	7/7/96	7/8/96	7/8/96	7/8/96	7/8/96	7/8/96	7/9/96	7/9/96	7/9/96	7/9/96	7/9/96	7/9/96
Start latitude	5855.07	5903.39	5906.21	5920.35	5908.74	5906.23	5838.43	5834.78	5845.30	5843.51	5840.88	5851.93
Start longitude	15045.76	15055.87	15102.09	15032.18	15011.56	15006.10	15021.98	14952.06	14944.59	14940.63	14931.01	14919.74
End latitude	5855.64	5903.45	5906.23	5919.58	5909.12	5906.02	5837.96	5835.58	5845.40	5843.63	5841.11	5851.81
End longitude	15044.84	15054.56	15100.56	15032.21	15012.82	15004.72	15020.92	14952.67	14946.15	14942.04	14932.53	14921.20
Gear depth (m)	165.00	181.00	151.00	289.00	138.00	180.00	170.00	143.00	205.00	184.00	143.00	216.00
Duration (h)	0.26	0.23	0.28	0.25	0.27	0.25	0.25	0.29	0.26	0.26	0.28	0.27
Distance fished (nm)	1.40	1.30	1.50	1.44	1.42	1.41	1.36	1.62	1.54	1.39	1.55	1.50
Performance	0	2	0	0	2	2	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	4.50	1.30	64.40	61.10	0.00	26.00	9.80	2.40	8.60	7.00	0.00	10.80
Pacific cod	0.00	66.00	14.30	0.00	74.80	35.40	4.50	0.00	0.00	0.00	2.80	0.00
Sablefish	1.30	70.20	0.00	1.30	20.00	770.90	8.00	1.16	84.60	19.50	4.40	7.80
Arrowtooth flounder	228.60	377.60	42.10	26.30	1135.50	45.20	414.60	79.50	62.90	87.90	312.00	36.00
Pacific halibut	0.00	7.07	43.28	0.00	25.53	3.92	21.60	0.00	20.12	18.00	0.00	0.00
Flathead sole	0.39	0.00	0.00	15.20	0.00	0.00	11.20	26.50	4.20	1.20	15.70	0.80
Dover sole	6.40	1.30	9.20	1.16	0.76	0.50	40.70	20.20	13.60	20.10	61.80	2.50
Rex sole	6.30	0.94	7.70	2.00	3.80	0.00	19.00	6.60	2.40	4.20	129.80	1.30
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.56	1.85	53.70	0.00	0.11	0.60	0.00	0.88	2.20	33.60	7.30	10.20
Rougheye rockfish	1.30	0.00	0.00	4.50	0.00	0.60	0.00	0.00	4.20	0.87	0.00	4.70
Shortspine thornyhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	14.50
Northern rockfish	0.00	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	9.80	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.05	0.00	4.87	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
Skates	17.20	2.01	0.03	11.10	0.00	2.10	0.04	0.02	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	0.00	1.70	1.40	0.00	0.00	0.00	2.30	2.30	1.30
Tanner crabs	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.30	0.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.10	0.00	0.00	4.58	0.00	0.31	0.12	0.00	0.13	0.00	0.00	0.95
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	3.16	0.65	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Grand total	269.35	532.91	251.89	162.00	1277.12	915.01	530.61	256.22	302.70	203.02	553.75	113.28

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	207	208	209	210	211	212	213	214	215	216	217	218
Start date & time	7/9/96	7/9/96	7/10/96	7/10/96	7/10/96	7/10/96	7/13/96	7/13/96	7/13/96	7/13/96	7/14/96	7/14/96
Start latitude	5838.64	5832.34	5849.13	5819.12	5809.52	5809.99	6005.93	6003.38	5941.06	5921.33	5946.00	5949.32
Start longitude	14908.24	14851.23	14825.12	14840.67	14848.97	14850.62	14652.45	14717.68	14735.74	14758.72	14919.62	14857.66
End latitude	5838.77	5831.93	5849.73	5818.38	5808.87	5809.11	6006.31	6004.14	5941.80	5920.53	5946.21	5949.32
End longitude	14906.82	14850.40	14826.72	14840.69	14848.24	14850.44	14653.80	14717.36	14735.14	14758.57	14920.96	14856.09
Gear depth (m)	137.00	115.00	276.00	140.00	384.00	276.00	109.00	56.00	115.00	185.00	253.00	140.00
Duration (h)	0.26	0.20	0.32	0.27	0.26	0.26	0.30	0.28	0.28	0.26	0.25	0.27
Distance fished (nm)	1.41	1.12	1.92	1.40	1.43	1.65	1.49	1.47	1.50	1.53	1.34	1.50
Performance	0	2	2	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.40	0.23	4.60	0.00	3.10	124.80	0.23	0.00	15.30	16.20	15.60	0.41
Pacific cod	0.00	1.46	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20
Sablefish	0.00	0.00	76.80	0.00	140.20	61.50	7.10	0.00	0.52	0.00	11.90	0.71
Arrowtooth flounder	43.90	4.60	60.60	12.40	36.30	24.30	311.10	0.00	54.55	5.70	15.80	274.50
Pacific halibut	25.00	17.20	0.00	19.96	0.00	21.26	0.00	756.82	0.00	0.00	0.00	0.00
Flathead sole	12.90	0.00	0.00	0.00	0.00	0.00	20.90	0.00	0.00	0.00	1.30	11.90
Dover sole	0.21	0.00	20.70	0.00	79.40	17.50	20.90	0.00	2.90	0.00	8.40	9.70
Rex sole	14.00	0.00	8.00	0.00	15.20	18.30	5.90	0.00	4.70	0.00	3.68	0.56
Rock sole species	0.00	2.06	0.00	0.00	0.00	0.00	0.00	157.40	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.21	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.30	5.40	1.50	0.68	12.80	0.00	0.00	0.00	0.00	0.00	0.32
Rougheye rockfish	0.00	2.80	3.60	0.55	35.50	33.00	6.60	0.00	0.87	2.50	1.90	1.18
Shortspine thornyhead	0.41	0.00	19.50	0.00	64.50	57.80	2.34	0.00	0.00	0.43	0.42	0.00
Northern rockfish	0.93	171.50	0.00	137.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	87.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	40.40	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	41.79	0.40	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	2.00	0.00	0.00	0.00	0.00	0.00	200.60	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Skates	4.60	0.00	0.00	0.03	6.20	0.00	26.95	11.50	0.00	0.00	22.70	18.80
Sharks	0.00	0.00	0.00	2.20	0.00	0.00	3.50	3.00	4.70	0.00	0.00	0.00
Tanner crabs	0.02	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.04
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.37	0.78	2.85	1.11
Sidestripe shrimp	0.01	0.00	0.02	0.00	0.00	0.66	0.00	0.00	0.00	1.19	3.63	0.17
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.11	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.03	0.00	0.30	2.82	0.00	0.00	0.00	0.00	2.42	0.17
Grand total	103.31	310.51	206.16	183.20	548.55	383.60	409.98	1137.01	93.18	29.11	107.77	331.17

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	219	220	221	222	223	224	225	226	227	228	229	230
Start date & time	7/14/96	7/14/96	7/15/96	7/15/96	7/15/96	7/15/96	7/15/96	7/16/96	7/16/96	7/16/96	7/16/96	7/16/96
Start latitude	5918.04	5900.06	5858.11	5916.29	5924.90	5920.75	5918.88	5942.94	5936.88	5936.30	5946.79	6009.34
Start longitude	14842.43	14843.34	14802.03	14744.08	14707.78	14648.45	14640.70	14622.57	14607.97	14550.09	14601.33	14600.37
End latitude	5918.67	5859.57	5858.63	5915.97	5924.46	5921.48	5918.84	5942.69	5936.61	5936.17	5946.88	6010.09
End longitude	14843.43	14842.13	14800.79	14742.55	14706.45	14649.19	14642.31	14624.28	14609.55	14548.55	14559.80	14601.21
Gear depth (m)	111.00	239.00	326.00	187.00	203.00	175.00	177.00	86.00	103.00	148.00	92.00	92.00
Duration (h)	0.28	0.25	0.26	0.27	0.26	0.27	0.27	0.30	0.28	0.28	0.28	0.30
Distance fished (nm)	1.54	1.48	1.56	1.58	1.51	1.53	1.57	1.72	1.58	1.52	1.45	1.69
Performance	0	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	17.20	60.80	2.23	1.30	2.05	0.00	4.06	0.09	7.50	0.11	0.20
Pacific cod	3.00	0.00	0.00	3.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	3.10
Sablefish	0.00	0.00	26.90	2.90	52.30	0.00	0.00	0.00	0.63	4.90	0.00	3.10
Arrowtooth flounder	353.90	10.30	24.60	44.80	21.30	1.72	31.30	181.90	314.10	63.80	74.90	133.70
Pacific halibut	13.21	0.00	21.85	59.15	0.00	0.00	0.00	23.51	0.00	21.69	0.00	0.00
Flathead sole	20.20	0.00	0.00	9.00	49.40	1.27	0.38	0.00	10.36	2.50	45.00	18.20
Dover sole	0.00	1.50	21.10	8.60	47.50	0.00	11.70	0.92	23.80	23.20	0.95	7.20
Rex sole	4.70	0.00	1.70	4.60	3.80	0.00	0.28	1.94	2.40	0.40	0.25	0.70
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific ocean perch	0.00	0.60	6.20	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rougheye rockfish	0.00	1.60	229.50	4.40	11.10	0.27	2.70	0.00	9.80	0.70	0.00	0.32
Shortspine thornyhead	0.00	11.50	44.30	0.90	12.50	0.92	3.00	0.00	0.00	7.00	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.68	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	11.10	0.01	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.19
Skates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50	18.80	0.00	0.00	0.00
Sharks	0.00	2.60	1.60	0.00	3.70	0.00	0.00	0.00	0.00	0.00	15.30	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.21	0.00	0.58	0.14	0.14	0.00	0.00	0.01	0.07	0.00	0.32
Sidestripe shrimp	0.00	0.48	0.19	0.18	0.43	0.37	0.45	0.00	0.00	0.51	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	416.64	55.45	469.90	228.47	210.26	8.22	56.70	224.70	383.72	142.21	143.99	167.83

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	231	232	233	234	235	236	237	238	239	240	241	242
Start date & time	7/16/96	7/17/96	7/17/96	7/17/96	7/17/96	7/17/96	7/17/96	7/18/96	7/18/96	7/18/96	7/18/96	7/18/96
Start latitude	6009.01	5955.53	5947.32	5930.20	5937.98	5942.18	5951.59	5926.85	5915.24	5909.78	5909.08	5928.06
Start longitude	14528.09	14518.79	14502.93	14457.74	14411.69	14355.29	14402.52	14216.73	14147.09	14140.71	14133.08	14149.42
End latitude	6009.26	5956.28	5947.07	5929.70	5937.86	5941.46	5951.05	5926.27	5914.63	5909.89	5909.88	5928.00
End longitude	14529.53	14519.46	14504.45	14459.06	14413.25	14354.48	14403.90	14215.68	14146.13	14140.96	14132.89	14147.86
Gear depth (m)	93.00	106.00	183.00	278.00	260.00	128.00	76.00	221.00	202.00	304.00	326.00	179.00
Duration (h)	0.27	0.30	0.26	0.27	0.27	0.28	0.29	0.28	0.26	0.07	0.28	0.27
Distance fished (nm)	1.43	1.57	1.52	1.57	1.50	1.54	1.64	1.50	1.48	0.31	1.50	1.49
Performance	0	0	0	0	11	0	0	0	0	6	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	6.30	1.14	21.75	169.50	12.90	0.02	3.00	0.00	0.96	4.30	3.00	0.37
Pacific cod	3.00	4.20	0.00	0.00	0.00	0.00	26.25	8.00	1.90	0.00	0.00	0.00
Sablefish	3.40	2.50	9.55	49.70	3.40	0.00	0.48	0.00	2.20	28.30	32.00	0.71
Arrowtooth flounder	57.30	244.00	7.70	28.40	15.60	59.20	108.90	14.80	69.20	7.90	94.10	62.30
Pacific halibut	14.76	0.00	0.00	17.96	35.90	0.00	2.91	0.00	50.39	0.00	12.85	0.00
Flathead sole	26.30	22.50	0.60	0.00	0.00	2.20	52.80	0.00	0.00	0.00	0.00	0.59
Dover sole	7.20	22.60	58.50	14.60	2.90	1.72	1.40	7.60	1.60	3.10	64.26	16.20
Rex sole	5.20	1.30	98.90	17.00	0.00	0.00	0.35	9.40	2.80	0.31	11.04	1.60
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.90	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.10
Pacific ocean perch	0.00	0.00	0.00	49.90	104.30	0.08	0.00	59.52	0.21	22.20	14.20	0.00
Rougheye rockfish	0.00	0.00	0.00	37.80	7.70	2.10	0.00	0.00	0.21	41.88	19.64	4.30
Shortspine thornyhead	0.00	0.00	4.80	32.00	45.33	0.44	0.00	20.40	0.20	36.62	39.26	1.70
Northern rockfish	0.00	0.00	0.00	0.00	1.57	0.00	0.00	0.99	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	4.40	0.00	0.00	0.00	0.00	0.00	4.70	9.70	4.00
Dusky rockfish species	0.00	0.00	0.00	2.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	1.22	4.10	0.00	0.00	144.26	0.25	5.00	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	12.60	7.20	8.10	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	0.07	0.00	1.78	0.00	8.94	0.22	0.04
Skates	20.40	28.20	0.00	0.00	0.00	0.00	1.41	0.00	5.70	0.00	1.45	1.35
Sharks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	2.28	0.65	1.58	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.16
Sidestripe shrimp	0.00	0.00	0.11	0.40	1.20	0.00	0.00	0.00	0.00	0.00	0.32	0.07
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.25	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.54	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	150.88	330.99	205.84	426.35	242.70	68.69	222.06	276.34	144.45	165.15	309.99	100.68

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	243	244	245	246	247	248	249	250	251	252	253	253
Start date & time	7/19/96	7/19/96	7/19/96	7/20/96	7/20/96	7/20/96	7/20/96	7/20/96	7/20/96	7/21/96	7/21/96	7/21/96
Start latitude	5952.01	5951.37	5945.88	5931.18	5934.79	5934.12	5855.29	5849.11	5842.92	5828.62	5806.16	5806.16
Start longitude	14148.52	14158.84	14125.94	14100.88	14040.40	14021.74	14046.70	14027.20	14021.53	13941.31	13839.83	13839.83
End latitude	5951.36	5951.14	5945.32	5931.19	5934.77	5933.61	5856.06	5848.56	5842.25	5829.11	5805.71	5805.71
End longitude	14147.47	14157.23	14124.58	14059.30	14041.99	14020.41	14047.02	14026.35	14020.67	13942.42	13838.65	13838.65
Gear depth (m)	34.00	64.00	45.00	269.00	245.00	172.00	192.00	190.00	201.00	241.00	223.00	223.00
Duration (h)	0.31	0.28	0.29	0.25	0.27	0.29	0.27	0.24	0.28	0.26	0.26	0.26
Distance fished (nm)	1.56	1.58	1.70	1.51	1.51	1.62	1.50	1.32	1.55	1.42	1.45	1.45
Performance	0	0	0	0	0	0	0	2	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	0.00	3.10	6.60	10.20	4.10	3.73	5.70	36.60	8.50	7.30	7.30
Pacific cod	0.00	3.30	0.00	0.00	0.00	0.00	5.50	5.10	0.00	0.00	0.00	0.00
Sablefish	0.00	1.60	1.12	149.10	28.90	0.00	4.80	4.20	10.40	1.10	1.10	1.10
Arrowtooth flounder	8.42	31.50	24.00	31.70	135.10	18.40	113.70	26.20	80.60	37.60	22.30	22.30
Pacific halibut	9.59	0.00	1.59	0.00	25.56	0.00	0.00	4.90	43.99	0.00	17.70	17.70
Flathead sole	0.00	7.40	4.60	5.10	30.60	1.04	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	23.20	136.50	0.00	0.58	1.60	1.54	16.30	0.75	0.75
Rex sole	0.00	0.73	1.00	13.80	18.50	0.71	2.50	3.80	4.30	0.59	5.62	5.62
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.55	0.19	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	8.60	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	10.40	1.80	33.80	0.00	0.00	0.00	0.00	0.00	0.29	0.67	0.72	0.72
Pacific ocean perch	0.00	0.00	0.00	1.40	32.33	0.00	0.00	5.57	86.19	93.00	45.30	45.30
Rougheye rockfish	0.00	0.00	0.00	1.23	12.17	0.31	0.29	5.38	0.61	1.10	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.00	19.70	35.30	42.09	3.70	0.06	1.31	2.00	48.80	48.80
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00	8.90	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	3.90	0.00	58.90	1.35	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	101.33	10.08	0.02	4.67
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.97	0.00	0.04	0.04
Skates	3.07	6.50	0.00	3.25	11.49	8.60	9.00	0.00	0.00	0.00	9.26	9.26
Sharks	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.15	0.12	1.69	0.00	0.00	0.00	0.07	0.01	0.01
Scallops	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand total	35.33	72.11	110.20	262.58	478.14	91.83	146.42	133.42	373.59	180.91	170.33	170.33

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	254	255	256
Start date & time	7/21/96	7/21/96	7/22/96
Start latitude	5813.27	5830.30	5846.49
Start longitude	13841.01	13854.20	13856.58
End latitude	5813.77	5830.56	5845.74
End longitude	13842.22	13855.92	13857.20
Gear depth (m)	167.00	95.00	226.00
Duration (h)	0.26	0.29	0.28
Distance fished (nm)	1.53	1.76	1.53
Performance	2	0	0
Gear	172	172	172
Walleye pollock	10.90	0.01	17.30
Pacific cod	0.00	0.00	0.00
Sablefish	0.00	0.00	113.40
Arrowtooth flounder	15.20	0.00	195.70
Pacific halibut	25.30	12.05	0.00
Flathead sole	0.00	0.00	11.20
Dover sole	0.00	0.00	109.50
Rex sole	7.80	0.00	12.10
Rock sole species	0.00	1.15	0.00
Yellowfin sole	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00
English sole	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.07
Pacific ocean perch	0.53	0.00	1.90
Rougheye rockfish	0.68	0.00	0.00
Shortspine thornyhead	0.56	0.00	23.00
Northern rockfish	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00
Dusky rockfish species	1.45	0.00	0.00
Other rockfish	3.19	0.00	18.00
Atka Mackerel	0.00	0.00	0.00
Lingcod	6.40	0.00	0.00
Sculpins	0.00	0.00	0.00
Skates	0.00	0.00	0.00
Sharks	3.40	0.00	1.35
Tanner crabs	0.00	0.00	0.03
King crabs	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.08
Scallops	0.00	0.00	0.00
Red squid	0.00	0.00	0.00
Grand total	83.65	13.94	537.07



1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	257	258	259	260	261	262	263	264	265	266	267	268
Start date & time	07/22/96	07/22/96	07/22/96	07/22/96	07/22/96	07/23/96	07/23/96	07/23/96	07/23/96	07/24/96	07/24/96	07/24/96
Start latitude	5902.21	5911.49	5901.55	5844.05	5840.44	5820.42	5757.94	5754.49	5755.02	5703.41	5650.71	5704.49
Start longitude	13901.07	13910.10	13833.73	13828.29	13802.37	13721.38	13730.29	13706.67	13655.16	13607.06	13548.97	13531.90
End latitude	5902.13	5910.93	5900.88	5843.33	5840.74	5821.15	5757.84	5755.36	5754.19	5704.19	5651.42	5705.32
End longitude	13902.79	13908.83	13832.93	13827.23	13803.83	13721.91	13730.26	13705.84	13655.51	13607.55	13550.11	13531.82
Gear depth (m)	95.00	64.00	130.00	130.00	102.00	194.00	169.00	416.00	453.00	188.00	160.00	52.00
Duration (h)	0.29	0.29	0.29	0.31	0.28	0.27	0.04	0.33	0.29	0.28	0.30	0.28
Distance fished (nm)	1.68	1.61	1.48	1.71	1.53	1.48	0.19	1.85	1.61	1.53	1.79	1.55
Performance	0	0	0	0	0	0	6	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	1.34	15.20	0.29	0.00	12.40	0.00	0.00	0.00	2.70	10.93	0.00
Pacific cod	0.00	0.00	0.00	0.27	0.31	0.00	0.00	0.00	0.00	68.80	4.00	0.12
Sablefish	0.00	2.36	0.38	1.25	0.00	4.70	0.00	102.40	171.60	2.60	2.27	0.00
Arrowtooth flounder	293.63	51.50	76.79	116.50	13.57	22.40	0.90	4.00	12.20	178.50	120.20	0.00
Pacific halibut	15.02	10.48	2.25	61.09	0.00	0.00	0.00	0.00	0.00	21.26	35.92	1.20
Fiathead sole	7.57	0.53	1.41	0.00	0.90	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.23	13.80	0.00	0.00	0.70	0.00	34.50	10.30	3.00	0.00	0.21
Rex sole	0.48	0.33	0.00	0.00	0.00	0.00	0.00	6.00	1.20	5.60	6.60	0.11
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.64
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	2.67
Other flatfish	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00	0.00	3.43	0.00	6.80
Pacific ocean perch	0.00	0.00	0.00	0.00	0.00	3.40	0.13	0.00	0.00	12.40	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	14.30	0.00	4.00	1.90	0.09	0.00	0.00
Shortspine thornyhead	0.00	0.00	0.16	0.00	0.00	11.20	0.00	53.80	22.90	0.80	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.10	3.70	9.70	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	0.00	0.00	0.00	3.90	0.91	0.00	0.00	53.12	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	18.12	1.35	0.00	2.50	0.00	0.00	0.00	0.00	12.30	17.50	0.00
Sculpins	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.18	0.00	0.00
Skates	0.34	0.00	0.00	0.00	7.73	2.10	2.08	9.20	0.00	13.50	8.65	0.00
Sharks	7.90	2.80	0.00	1.69	7.30	0.00	0.00	0.00	0.00	1.60	0.00	0.70
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.07	0.00	0.00	3.83	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.09	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68	5.09	0.00	0.00	0.00
Grand total	340.97	102.31	118.03	186.64	36.65	86.35	4.48	323.99	277.42	393.80	215.10	62.47

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	269	270	271	272	273	274	275	276	277	278	279	280
Start date & time	07/25/96	07/25/96	07/25/96	07/25/96	07/25/96	07/25/96	07/26/96	07/26/96	07/26/96	07/26/96	07/26/96	07/26/96
Start latitude	5637.93	5635.95	5612.06	5613.70	5611.84	5614.65	5555.31	5555.48	5550.89	5551.89	5552.24	5559.46
Start longitude	13534.57	13542.80	13523.36	13517.68	13501.16	13456.06	13523.62	13525.40	13506.10	13502.19	13502.04	13458.71
End latitude	5637.89	5636.74	5612.58	5613.87	5611.67	5613.98	5554.70	5556.26	5551.75	5551.99	5553.10	5559.95
End longitude	13534.55	13543.23	13524.44	13519.12	13502.68	13456.87	13522.82	13526.36	13506.19	13502.28	13502.26	13459.73
Gear depth (m)	147.00	196.00	210.00	190.00	181.00	163.00	320.00	397.00	183.00	221.00	222.00	375.00
Duration (h)	0.03	0.28	0.26	0.27	0.30	0.26	0.27	0.34	0.28	0.05	0.28	0.26
Distance fished (nm)	0.08	1.56	1.49	1.57	1.69	1.50	1.45	1.79	1.63	0.22	1.64	1.42
Performance	6	0	0	0	0	0	0	2	0	11	2	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	0.00	25.67	9.90	0.00	5.90	63.82	1.95	0.00	0.00	9.90	54.00	0.00
Pacific cod	0.00	3.70	6.00	4.50	4.10	2.10	0.00	0.00	0.00	0.00	1.90	0.00
Sablefish	0.00	1.03	3.00	0.00	4.10	17.48	1.10	5.10	0.00	0.00	2.80	10.80
Arrowtooth flounder	0.62	61.20	30.00	23.79	86.10	97.70	2.10	14.20	2.50	4.00	14.00	21.30
Pacific halibut	0.00	0.00	15.02	0.00	26.29	41.11	0.00	0.00	5.80	0.00	0.00	0.00
Flathead sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.90	22.63	6.40	23.20	14.00	17.70	33.30	0.00	0.50	2.44	19.00
Rex sole	0.00	3.50	17.37	14.00	30.80	29.20	5.70	3.80	0.69	1.60	2.50	6.50
Rock sole species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.53	0.11	0.00	0.00	0.00	0.09	8.00	2.20	0.00	0.00
Pacific ocean perch	0.00	73.10	90.08	7.10	77.20	80.60	170.88	40.20	1.90	21.80	83.60	2.50
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	4.68	323.40	0.00	0.00	0.00	4.40
Shortspine thornyhead	0.00	14.90	18.60	5.48	2.00	0.00	55.82	49.50	0.00	0.00	2.00	36.95
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	14.30	4.70	0.00	0.00	0.00	20.30
Dusky rockfish species	0.00	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	5.50	6.02	69.81	201.48	3.70	0.00	9.40	0.76	312.00	0.70	21.60	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00
Sculpins	0.00	0.05	0.63	0.33	0.18	0.00	1.18	0.01	0.00	0.00	0.02	0.00
Skates	0.00	0.00	0.00	0.00	0.00	0.00	4.90	2.00	2.20	0.00	0.00	0.94
Sharks	0.00	1.20	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.24	0.00	0.00	0.00	0.70	3.81	0.00	0.00	0.65	12.60
Grand total	8.99	202.39	290.59	263.67	276.53	351.46	296.07	485.62	346.02	46.32	193.86	135.66

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	281	282	283	284	285	286	287	288	289	290	291	292
Start date & time	07/27/96	07/27/96	35273.54	07/27/96	35273.71	35273.85	35274.24	35274.39	35274.50	35274.64	35274.71	35274.82
Start latitude	5550.21	5548.02	5528.45	5538.46	5538.20	5543.44	5536.74	5530.43	5518.64	5510.58	5509.23	5513.13
Start longitude	13439.18	13430.14	13444.71	13430.67	13420.86	13423.75	13330.42	13410.21	13416.00	13403.71	13354.73	13354.18
End latitude	5549.62	5547.48	5529.10	5538.08	5538.32	5543.08	5535.90	5529.56	5518.30	5510.63	5508.37	5513.87
End longitude	13440.16	13428.90	13443.93	13429.29	13419.41	13422.48	13330.96	13410.07	13417.41	13405.14	13354.80	13355.09
Gear depth (m)	171.00	138.00	267.00	210.00	209.00	168.00	196.00	125.00	190.00	179.00	123.00	115.00
Duration (h)	0.28	0.31	0.27	0.30	0.27	0.28	0.33	0.29	0.33	0.29	0.28	0.30
Distance fished (nm)	1.51	1.69	1.47	1.64	1.55	1.52	1.73	1.65	1.64	1.57	1.63	1.68
Performance	0	0	0	0	0	0	0	0	2	2	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172
Walleye pollock	9.95	0.00	172.80	4.40	27.20	13.60	47.60	0.00	2.50	6.50	0.00	0.00
Pacific cod	2.30	38.77	0.00	2.70	17.80	12.00	5.44	3.00	11.60	10.10	0.00	0.58
Sablefish	9.80	1.95	4.60	7.30	11.40	17.50	1.27	0.00	0.00	2.30	0.00	0.00
Arrowtooth flounder	48.35	79.30	62.70	35.90	54.28	68.00	0.00	8.56	4.00	28.10	0.00	0.51
Pacific halibut	64.28	10.90	7.92	10.18	40.06	77.66	0.00	11.70	0.00	8.22	24.71	46.51
Flathead sole	0.00	0.00	0.00	0.00	0.42	0.56	32.00	0.00	0.00	0.00	0.00	0.00
Dover sole	9.44	0.83	140.20	4.37	2.10	20.00	0.25	0.00	1.24	1.30	0.00	0.00
Rex sole	23.51	9.20	5.90	12.73	20.72	9.80	6.10	0.84	2.60	11.10	0.00	1.66
Rock sole species	0.00	0.55	0.00	0.00	0.00	0.00	0.00	1.70	0.00	0.00	2.10	7.30
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	1.56	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00
Other flatfish	0.00	0.00	0.10	1.90	5.41	0.47	2.94	2.16	0.59	0.76	3.50	3.10
Pacific ocean perch	0.00	0.00	724.10	5.90	25.13	0.00	0.00	0.00	36.02	26.10	0.00	0.00
Rougheye rockfish	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00	0.00	0.00	0.00	0.00
Shortspine thornyhead	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.56	1.01	0.00	0.00
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other rockfish	0.00	0.00	87.30	0.08	61.57	0.07	1.95	0.00	17.06	42.93	0.00	0.00
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	6.10	0.00	0.00	0.00	0.00	0.00	1.36	7.71	0.00	4.50	6.60	0.00
Sculpins	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00
Skates	0.00	0.00	0.00	0.00	0.00	9.80	8.30	0.00	0.00	0.00	0.00	0.00
Sharks	0.00	0.00	0.00	2.20	0.00	0.00	13.00	2.10	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	0.00	0.00	0.00	0.00	0.10	2.46	0.00	0.00	0.00	0.00	0.00
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	1.69	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00
Grand total	182.40	148.67	1211.99	89.38	274.76	247.39	274.88	46.53	83.33	148.06	59.39	71.84

1996 Triennial NMFS Gulf of Alaska bottom trawl survey by the chartered F/V Vesteraalen

Haul number	293	294	295	296	297	298	299	300	301	302
Start date & time	35275.53	35275.71	35275.78	35276.24	35276.33	35276.43	35276.54	35276.62	35276.70	35276.81
Start latitude	5457.23	5447.09	5443.89	5451.87	5442.50	5447.82	5439.76	5435.31	5429.72	5436.77
Start longitude	13340.39	13312.81	13309.77	13411.36	13402.03	13343.04	13346.23	13346.83	13335.70	13326.24
End latitude	5456.53	5447.83	5444.65	5452.49	5442.47	5447.37	5439.43	5435.29	5429.39	5436.56
End longitude	13340.16	13313.50	13309.44	13412.28	13403.41	13344.30	13344.90	13348.23	13337.00	13324.84
Gear depth (m)	110.00	198.00	182.00	207.00	215.00	174.00	245.00	240.00	251.00	334.00
Duration (h)	0.28	0.32	0.26	0.27	0.26	0.30	0.29	0.28	0.29	0.26
Distance fished (nm)	1.35	1.61	1.50	1.53	1.53	1.62	1.62	1.52	1.57	1.56
Performance	2	0	0	2	0	0	0	0	2	0
Gear	172	172	172	172	172	172	172	172	172	172
Walleye pollock	20.70	0.57	1.60	4.20	10.30	30.30	20.90	8.00	0.00	0.00
Pacific cod	0.86	0.00	13.10	13.20	4.60	5.30	10.70	4.10	1.52	0.00
Sablefish	0.00	0.00	0.88	3.70	0.00	40.60	3.50	9.30	7.00	7.60
Arrowtooth flounder	1.23	42.70	34.45	22.10	9.10	753.60	43.10	6.70	9.06	4.30
Pacific halibut	9.43	0.00	0.00	0.00	0.00	4.90	0.00	0.00	6.80	0.00
Flathead sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dover sole	0.00	0.00	0.00	1.40	3.20	10.20	8.70	8.00	10.40	18.33
Rex sole	0.00	1.03	3.30	1.30	0.60	31.60	5.60	5.10	11.60	25.87
Rock sole species	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowfin sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Butter sole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English sole	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
Other flatfish	3.30	0.15	0.00	0.00	0.06	4.00	0.00	0.70	0.55	0.00
Pacific ocean perch	0.03	0.49	4.10	73.50	91.55	47.90	88.20	498.30	183.24	11.30
Roughey rockfish	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90
Shortspine thomyhead	0.00	0.00	0.00	4.80	8.40	0.00	18.05	16.40	5.50	60.30
Northern rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortraker rockfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dusky rockfish species	0.00	0.00	0.00	0.00	89.89	0.00	0.00	2.60	0.00	0.00
Other rockfish	0.00	2.25	7.89	29.77	1256.95	57.30	47.06	144.51	151.07	2.40
Atka Mackerel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lingcod	0.00	0.00	4.50	6.80	6.40	0.00	0.00	0.00	0.00	0.00
Sculpins	0.00	0.00	0.13	0.37	0.25	0.00	0.60	0.21	0.58	0.00
Skates	0.00	0.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	7.90
Sharks	0.00	0.21	3.20	0.00	0.10	0.00	0.00	0.00	0.00	0.00
Tanner crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
King crabs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sidestripe shrimp	0.00	3.79	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.23
Scallops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Red squid	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.47
Grand total	71.26	94.34	94.24	187.76	1512.52	995.24	250.02	718.57	392.21	159.53

## Section 3 (continued)

### Fishing Log for the F/V Vesteraalen

- Summary listings of selected species catch rates in kilograms of catch per square kilometer trawled

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	61,251.9	0.9	130	108	10,551.4	0.9	95	257	4,315.0	1.9	320	156
	54,949.1	0.9	87	129	10,423.3	0.7	144	75	4,308.0	1.6	281	114
	46,126.4	1.1	138	199	10,094.0	0.7	65	78	4,295.4	0.5	78	52
	44,287.6	1.0	139	192	9,961.1	1.0	106	232	4,218.2	0.2	160	267
	38,513.7	0.7	87	123	9,808.7	0.7	165	195	4,217.2	0.2	130	260
	33,084.9	0.8	126	145	9,590.4	1.4	190	131	4,147.4	0.9	70	186
	29,531.5	1.3	123	130	9,095.9	1.4	238	63	4,111.8	1.3	204	135
	28,451.5	0.9	174	298	9,041.6	0.7	78	127	4,110.5	0.7	76	237
	28,064.7	0.8	139	55	8,514.3	0.9	113	140	4,016.0	0.5	130	82
	27,880.8	0.7	109	53	8,432.4	1.1	130	150	4,004.2	1.2	244	96
	23,389.5	0.7	149	115	8,384.1	0.7	87	155	3,996.8	0.7	189	83
	22,495.2	1.1	172	158	7,498.3	0.8	188	266	3,993.4	0.4	94	119
	21,205.9	1.1	69	137	7,272.7	1.4	197	189	3,986.3	1.2	168	188
	19,676.9	0.6	116	118	7,261.6	0.7	226	256	3,960.2	0.7	163	274
	18,847.0	0.8	170	201	7,233.1	0.4	96	80	3,904.3	1.1	190	138
	17,986.8	2.2	363	91	6,830.4	1.0	138	147	3,871.6	0.8	184	204
	17,868.8	1.7	181	196	6,695.1	0.7	178	103	3,758.5	1.7	326	241
	17,355.9	0.9	125	153	6,363.8	0.8	159	86	3,726.7	1.1	78	20
	16,964.3	1.4	166	191	6,174.6	1.2	86	183	3,711.6	1.7	277	105
	16,719.8	0.7	132	56	6,139.4	0.9	86	226	3,477.5	0.8	166	61
	16,146.6	0.5	182	120	6,129.1	0.7	96	39	3,472.8	1.0	187	121
	15,519.6	1.4	172	177	5,871.8	1.1	82	176	3,192.8	0.4	138	76
	15,024.0	0.8	142	70	5,412.0	1.1	238	124	3,188.2	0.6	143	202
	14,681.4	1.4	76	190	5,400.2	1.3	276	113	3,069.7	0.6	138	282
	14,297.9	0.7	111	219	5,178.4	0.4	110	81	3,030.8	0.8	181	273
	13,628.2	1.4	154	174	5,159.9	0.5	92	54	3,022.3	1.3	172	136
	13,541.0	0.8	136	141	5,089.8	0.4	91	51	3,011.8	0.9	92	229
	13,123.1	1.2	88	19	5,037.3	0.7	92	230	2,983.9	0.5	130	259
	13,037.9	0.8	118	149	4,987.6	1.1	191	139	2,964.0	0.9	201	251
	12,687.9	1.3	282	84	4,982.2	1.6	245	247	2,856.5	1.0	202	239
	12,344.1	1.1	140	193	4,947.5	0.6	192	249	2,715.2	0.6	87	37
	12,114.7	1.1	138	87	4,921.0	1.0	122	58	2,675.4	1.7	267	283
	12,084.9	1.3	144	111	4,861.0	1.3	250	100	2,665.2	1.1	192	168
	11,604.4	1.0	109	213	4,857.6	0.5	144	65	2,620.8	0.4	168	286
	11,372.3	0.7	103	227	4,713.3	1.3	132	171	2,581.9	1.3	187	170
	11,012.4	0.8	157	167	4,589.3	1.0	153	187	2,539.7	0.6	179	242
	10,731.6	0.5	77	14	4,578.7	1.1	220	133	2,536.2	0.9	146	3
	10,729.1	0.7	140	218	4,410.5	1.1	197	99	2,515.2	0.8	205	203

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Arrowtooth flounder	2,400.5	0.9	148	228	1,371.6	1.9	331	9	653.7	0.9	330	32
	2,390.7	1.0	93	231	1,358.6	1.1	304	240	621.6	0.7	221	238
	2,331.4	0.7	194	102	1,347.8	0.8	216	206	585.4	0.4	167	254
	2,258.5	0.8	115	215	1,346.5	0.7	215	60	576.3	1.5	331	161
	2,239.1	0.8	66	125	1,328.6	0.7	107	18	550.2	0.8	222	279
	2,215.9	0.5	128	236	1,326.2	0.7	210	284	546.9	1.7	282	163
	2,209.6	0.8	196	270	1,304.6	2.0	269	246	545.6	2.0	251	169
	2,153.5	0.6	112	12	1,258.7	0.7	83	33	542.7	1.6	260	235
	2,135.8	0.5	151	77	1,242.8	0.9	79	159	542.1	0.7	205	16
	2,064.0	1.1	64	258	1,231.2	0.6	64	244	531.8	0.4	102	261
	2,063.0	0.6	93	182	1,189.1	0.8	190	250	507.8	1.4	439	59
	2,035.2	0.4	171	281	1,180.7	1.4	210	271	507.7	1.2	314	92
	2,033.5	0.7	209	285	1,177.6	0.6	110	35	488.9	1.2	90	34
	1,987.7	1.2	289	71	1,169.8	1.0	181	29	487.5	0.3	140	210
	1,914.3	1.5	345	104	1,142.6	0.6	177	225	480.1	0.2	77	146
	1,912.0	0.3	82	152	1,142.2	0.8	190	122	479.8	0.7	157	22
	1,858.1	1.7	276	209	1,089.7	2.4	289	198	466.9	1.2	397	276
	1,844.7	0.8	218	85	1,054.7	1.4	404	93	452.1	0.6	147	269
	1,830.3	1.1	180	200	1,051.4	0.9	105	28	449.2	1.3	72	175
	1,822.3	0.3	137	207	1,049.9	0.3	179	290	445.9	1.5	453	265
	1,796.9	0.1	54	49	1,015.7	2.4	278	234	426.2	0.9	239	220
	1,791.6	0.2	88	47	993.2	0.8	221	278	419.2	1.3	194	180
	1,762.5	0.4	56	38	982.7	0.9	237	17	417.5	1.7	57	184
	1,742.9	0.8	202	101	978.7	0.2	44	132	373.9	1.4	34	243
	1,667.0	1.4	145	178	975.5	1.1	190	272	373.6	0.4	114	62
	1,632.5	0.2	198	294	961.0	2.0	479	72	360.6	1.0	215	297
	1,622.6	1.2	151	197	948.6	0.5	212	15	351.5	1.1	76	36
	1,612.7	1.0	89	43	937.6	2.2	326	221	350.9	0.7	125	288
	1,611.3	1.3	223	30	911.2	1.4	375	280	333.4	0.3	76	64
	1,610.8	0.9	187	222	908.2	0.9	45	245	329.7	1.1	251	301
	1,559.1	0.7	245	299	894.8	0.8	223	253	327.2	0.6	119	4
	1,551.1	0.3	150	165	866.4	1.0	194	262	323.6	1.3	183	233
	1,537.6	0.6	182	295	840.3	1.0	207	296	320.7	0.2	57	128
	1,519.2	1.0	241	252	836.5	2.4	276	212	320.4	0.9	169	263
	1,505.8	0.4	147	13	805.5	1.3	203	223	241.3	1.3	240	300
	1,497.3	0.5	95	21	799.6	0.6	97	27	236.6	0.3	115	208
	1,493.5	2.0	384	211	692.9	0.8	172	248	224.8	0.6	185	216
	1,471.6	0.7	92	41	692.5	1.0	253	217	223.2	0.6	93	8

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesterdaalen.

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Arrowtooth flounder	203.7	0.1	65	134	4.7	0.1	76	68				
	200.0	1.7	33	154	2.8	0.1	93	94				
	200.0	1.0	69	143								
	196.8	0.7	211	1								
	170.5	0.1	53	42								
	168.0	0.2	158	157								
	160.6	2.0	84	5								
	158.7	1.1	334	302								
	148.3	0.5	66	40								
	148.3	0.3	190	289								
	145.9	0.3	150	98								
	145.9	0.5	101	117								
	138.3	0.9	31	185								
	121.6	2.0	416	264								
	117.7	1.1	59	106								
	117.3	2.9	414	31								
	105.8	0.1	38	46								
	102.3	2.8	402	10								
	101.5	0.4	91	74								
	101.1	0.3	43	50								
	97.8	0.3	75	73								
	97.7	0.5	183	277								
	86.7	0.5	320	275								
	77.5	0.1	91	173								
	66.3	0.9	175	224								
	62.5	0.1	65	66								
	61.0	0.1	130	164								
	56.1	0.1	110	293								
	49.0	0.1	28	181								
	32.2	0.5	142	160								
	31.4	0.1	79	148								
	30.8	0.1	46	44								
	25.6	0.2	76	151								
	25.3	0.8	304	11								
	19.7	0.1	115	292								
	19.5	0.1	54	67								
	12.9	0.1	95	90								
	6.0	0.1	102	97								



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Pacific halibut	32,715.5	3.6	56	214	2,566.9	16.4	65	66	1,510.4	1.1	69	143
	21,609.7	3.1	56	38	2,479.8	4.2	75	73	1,500.8	13.4	209	285
	10,920.8	4.7	67	79	2,461.8	2.5	91	51	1,483.4	3.2	105	28
	10,086.1	5.5	85	89	2,396.0	1.5	43	50	1,445.5	11.7	182	120
	8,778.4	16.0	93	182	2,377.3	0.7	44	132	1,434.5	1.6	33	154
	8,547.9	2.9	65	134	2,244.1	2.3	119	4	1,417.5	6.9	140	193
	8,065.5	8.1	82	144	2,239.7	12.7	282	84	1,411.1	2.5	93	8
	6,793.2	19.1	76	36	2,228.0	2.3	46	112	1,402.7	27.8	211	1
	6,575.2	8.0	84	5	2,211.4	3.4	130	260	1,362.4	17.8	146	3
	5,891.5	4.3	63	24	2,163.5	3.3	62	26	1,323.8	5.3	172	136
	5,759.1	7.2	31	45	2,128.6	8.9	166	191	1,296.3	1.5	83	33
	5,206.0	8.6	166	61	2,126.6	14.8	187	222	1,291.8	3.7	93	94
	5,154.3	13.9	78	127	2,118.7	8.6	194	102	1,286.4	5.4	138	87
	4,864.9	2.1	96	39	2,107.7	10.3	142	70	1,280.1	2.0	72	175
	4,136.9	16.6	114	62	2,103.9	4.8	65	78	1,260.6	6.0	160	267
	3,907.6	4.5	64	109	2,079.9	50.4	202	239	1,256.9	4.4	96	80
	3,899.8	9.5	107	69	2,034.5	10.5	87	129	1,250.4	8.6	144	65
	3,888.7	4.0	76	68	2,033.4	7.5	89	43	1,249.1	12.0	260	235
	3,822.9	8.9	142	160	2,009.5	11.2	126	145	1,227.2	3.6	95	90
	3,702.5	6.7	66	40	1,955.8	2.9	69	137	1,208.2	2.4	79	148
	3,422.0	2.8	91	74	1,928.0	2.1	46	44	1,191.3	6.5	190	131
	3,339.3	11.7	89	95	1,912.5	1.9	65	142	1,184.0	9.2	153	187
	3,154.8	3.5	59	106	1,903.0	2.6	78	52	1,183.9	3.3	77	14
	3,137.1	8.5	94	119	1,890.0	3.0	87	37	1,153.9	5.0	77	146
	3,112.1	1.5	67	110	1,829.2	5.3	130	108	1,152.8	2.2	78	20
	3,095.8	12.7	150	98	1,786.1	3.6	115	292	1,127.2	4.6	92	41
	3,012.4	11.3	113	140	1,766.9	4.9	107	18	1,101.1	7.5	139	192
	2,993.2	77.7	168	286	1,735.1	7.8	157	167	1,099.2	4.0	88	47
	2,795.1	2.7	78	6	1,724.9	4.0	87	155	1,094.6	2.0	70	186
	2,780.1	3.9	79	159	1,706.5	3.9	76	190	1,065.3	3.0	82	152
	2,757.8	4.2	76	64	1,704.0	14.9	172	158	1,037.8	6.3	137	207
	2,719.8	8.1	109	53	1,668.0	10.8	151	197	1,037.2	6.4	138	199
	2,705.8	16.1	171	281	1,666.2	20.6	163	274	1,025.6	2.9	114	2
	2,621.6	8.3	92	54	1,617.8	8.8	201	251	1,018.1	5.4	130	164
	2,620.1	3.0	87	123	1,581.1	7.4	76	151	1,013.5	4.2	86	183
	2,612.1	10.2	130	82	1,579.9	3.2	38	46	1,011.2	5.8	118	149
	2,608.2	1.0	28	181	1,550.1	1.9	23	48	1,008.0	2.1	64	172
	2,574.6	2.8	67	25	1,514.7	3.4	88	19	1,003.0	3.7	149	115

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the FV Vesteraalen.

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Pacific halibut	1,000.2	3.3	54	67	553.3	1.8	58	7	297.3	7.1	178	103
	994.0	3.1	123	291	548.7	4.5	202	101	293.5	5.6	194	180
	989.1	2.4	90	34	545.4	13.3	250	100	268.1	6.5	139	55
	981.9	10.8	170	201	539.8	7.5	95	257	265.7	6.8	158	157
	981.5	8.3	159	86	533.8	3.3	111	219	247.4	6.8	251	301
	978.7	25.0	143	162	526.0	14.6	479	72	231.8	6.0	101	117
	974.4	3.6	167	254	513.0	12.8	326	241	226.7	5.8	183	277
	964.0	5.9	110	81	512.3	2.1	80	88	222.4	4.9	190	250
	942.4	12.8	245	247	499.4	2.9	54	49	214.6	2.3	116	118
	925.5	13.1	181	273	486.1	3.4	66	125	204.4	4.7	190	122
	923.8	4.6	132	56	479.6	3.9	125	288	184.9	4.9	174	298
	921.0	10.5	150	165	478.1	5.2	123	130	169.4	4.3	187	170
	917.6	2.7	77	116	464.6	6.0	276	113	158.6	3.9	180	200
	893.2	21.3	188	266	457.0	1.2	53	42	156.4	4.3	138	76
	884.6	5.7	115	208	450.4	4.0	95	255	134.8	3.2	218	85
	848.0	10.6	191	139	445.5	4.0	110	35	128.8	3.6	205	16
	832.9	21.9	326	221	434.7	4.8	138	147	120.4	1.7	144	75
	816.2	10.8	148	228	434.0	2.8	112	12	119.7	3.9	331	9
	804.5	20.1	205	203	432.5	5.3	187	121	110.3	2.6	144	111
	803.7	7.0	223	30	430.0	4.7	110	293	109.7	1.5	76	237
	793.6	5.9	86	226	425.7	1.9	34	243	87.5	2.3	130	259
	792.8	18.0	184	204	422.0	5.5	138	282	60.2	1.6	45	245
	784.7	10.0	140	210	420.2	2.1	64	258	49.1	1.2	52	268
	751.6	2.6	147	13	417.7	10.5	189	83				
	740.6	5.9	57	184	414.9	2.7	82	176				
	732.4	3.3	125	153	413.5	10.2	192	168				
	732.0	21.3	276	212	397.7	5.2	122	58				
	710.2	8.8	223	253	383.7	1.9	31	185				
	699.4	0.7	57	128	380.7	10.5	277	105				
	655.0	8.1	281	114	376.0	10.2	210	284				
	642.2	18.0	278	234	361.9	2.2	97	27				
	615.8	7.4	93	231	356.0	8.5	345	104				
	613.2	7.5	151	77	347.0	8.5	154	174				
	592.7	2.1	46	107	339.7	2.2	95	21				
	591.2	15.0	210	271	338.0	7.9	267	283				
	584.5	7.4	220	133	334.6	7.1	181	196				
	577.8	4.5	91	173	307.3	3.8	102	97				
	564.9	7.4	238	63	307.1	8.2	179	290				

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Flathead sole	13,210.4	0.4	88	47	877.9	0.4	116	118	235.5	0.6	178	103
	8,886.1	0.3	118	149	828.3	0.4	190	122	214.3	0.5	197	189
	7,329.6	0.8	130	108	816.1	0.6	111	219	209.9	0.5	269	246
	7,264.7	0.3	65	78	795.6	0.2	132	56	208.2	0.3	218	85
	6,283.1	0.3	145	178	793.1	0.4	149	115	185.1	0.3	250	100
	6,078.5	0.3	138	147	779.6	0.3	109	213	184.1	0.4	251	169
	5,143.2	0.6	69	137	765.9	0.4	190	131	180.2	0.6	43	50
	4,908.1	0.3	78	127	733.9	0.3	96	39	174.1	0.4	45	245
	4,578.9	0.4	136	141	685.7	0.2	92	230	167.9	0.2	205	203
	3,295.6	0.2	66	125	649.1	0.4	204	135	167.3	0.2	282	163
	3,121.0	0.3	38	46	629.8	0.4	289	198	161.4	0.5	54	49
	2,820.3	0.8	89	43	618.7	0.6	70	186	159.4	0.3	212	15
	2,687.0	0.2	144	65	592.9	0.3	143	205	159.0	0.4	220	133
	2,347.2	0.3	190	138	567.3	0.2	130	82	146.2	0.3	56	38
	2,320.6	0.2	139	55	551.3	0.5	276	113	140.4	0.4	172	136
	1,993.0	0.6	76	237	535.5	0.2	137	207	129.4	0.4	94	119
	1,868.2	0.5	203	223	528.0	0.2	130	150	112.0	0.3	205	16
	1,809.5	0.6	92	229	509.1	0.4	170	201	109.7	0.3	192	168
	1,777.9	0.4	53	42	496.2	0.1	144	75	94.1	0.3	148	228
	1,507.1	0.4	191	139	491.4	0.2	91	51	90.7	0.2	223	30
	1,477.5	0.3	96	80	465.1	0.4	140	218	90.7	0.8	66	40
	1,436.2	0.1	151	77	456.1	0.4	87	155	87.9	0.3	54	67
	1,413.0	0.2	182	120	422.8	0.4	238	124	87.2	0.8	90	34
	1,354.6	0.4	78	52	415.6	0.1	226	256	84.7	0.4	79	159
	1,339.9	0.2	77	14	382.2	0.4	113	140	82.3	0.6	128	236
	1,329.1	0.3	123	130	375.1	0.3	103	227	80.2	0.7	76	190
	1,303.2	0.3	87	129	349.9	0.2	138	76	79.5	0.4	202	101
	1,218.9	0.4	196	287	325.4	0.6	44	132	76.1	0.3	91	74
	1,183.0	0.8	83	33	323.6	0.2	187	222	75.6	0.6	92	41
	1,128.5	0.4	245	247	296.2	0.3	144	111	62.5	0.2	65	66
	1,097.3	0.2	93	231	296.1	0.4	187	170	62.0	0.3	92	54
	1,062.7	0.3	143	202	289.2	0.4	64	244	57.0	0.4	253	217
	1,017.0	0.4	125	153	284.9	0.6	82	152	54.6	0.1	130	259
	978.6	0.6	109	53	278.5	0.5	281	114	52.9	0.2	184	204
	972.0	0.3	126	145	272.0	0.3	95	257	51.5	0.3	189	83
	944.2	0.3	187	121	256.2	0.6	87	37	49.1	0.2	197	99
	920.4	0.3	153	187	251.3	0.7	46	44	48.8	0.4	175	224
	918.5	0.2	106	232	243.5	0.3	237	17	48.4	0.3	87	123

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Flathead sole	47.2	0.2	194	102	30.0	0.2	216	206	18.0	0.5	102	97
	44.5	0.4	142	70	25.3	0.7	277	105	16.6	0.4	165	195
	39.3	0.1	172	248	25.2	0.1	183	233	15.9	0.4	209	285
	39.2	0.5	114	62	25.1	0.6	345	104	13.9	0.2	177	225
	36.7	0.5	62	26	24.1	0.1	179	242	10.9	0.3	414	31
	35.4	0.3	194	262	21.6	0.2	168	286	8.7	0.3	150	98
	35.3	0.1	102	261	21.1	0.3	64	258	8.5	0.2	76	151
	32.7	0.8	154	174	19.3	0.3	244	96	8.1	0.1	31	185
	31.6	0.3	57	184	18.2	0.2	31	126				
English sole	595.5	1.3	77	14	109.3	0.1	52	268	37.5	0.9	93	231
	461.7	0.4	45	245	98.1	1.2	70	186	33.6	0.4	188	266
	336.1	0.9	64	244	94.4	0.4	174	298	33.4	0.4	196	287
	299.9	1.5	65	78	66.5	0.5	267	283	21.2	0.3	33	154
	179.1	1.1	96	80	60.2	1.5	107	18	20.3	0.1	54	67
	170.5	1.2	69	137	56.0	0.5	64	258				
	139.7	0.5	76	237	54.4	0.7	130	259				
Yellowfin sole	11,315.3	0.3	23	48	1,586.0	0.3	31	185	66.5	0.5	28	181
	9,272.4	0.4	38	46	1,421.9	0.5	54	49	25.6	0.6	53	42
	3,505.0	0.5	88	47	1,373.5	0.5	89	43	24.8	0.6	57	184
	2,834.7	0.3	56	38	543.1	1.2	118	149	17.1	0.1	70	186
	2,195.8	0.4	66	125	499.0	0.7	77	14				
	2,055.9	0.6	65	78	89.3	0.3	46	44				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Dover sole	15,417.3	0.9	363	91	689.9	1.9	125	153	271.3	1.0	92	230
	9,564.4	1.4	282	84	678.5	0.7	251	169	270.6	1.3	78	127
	5,982.4	0.5	267	283	676.4	0.6	334	302	262.4	0.4	190	272
	5,033.8	1.1	245	247	674.2	0.8	190	131	261.7	1.1	189	83
	4,063.1	0.8	226	256	660.4	1.2	179	242	238.1	0.9	145	178
	3,266.8	0.8	384	211	658.6	0.6	241	252	214.1	1.0	153	187
	2,566.7	0.7	326	241	634.7	0.6	276	209	210.0	1.0	197	189
	2,458.1	0.7	183	233	624.5	0.8	197	99	205.8	0.8	118	149
	1,850.1	1.1	170	201	602.4	0.7	276	212	196.9	1.7	244	96
	1,796.3	0.9	203	223	580.1	1.4	130	82	183.7	0.9	154	174
	1,543.8	1.2	289	71	567.5	0.6	163	274	183.1	1.4	190	122
	1,510.1	1.0	320	156	543.8	1.4	205	203	179.0	1.6	238	124
	1,462.1	1.1	331	161	536.2	1.0	130	259	161.4	0.4	210	284
	1,191.0	0.5	474	166	533.1	1.0	304	240	160.7	0.7	69	137
	1,109.5	0.8	277	105	522.2	0.8	278	234	158.9	1.1	439	59
	1,094.9	0.6	397	276	471.6	1.0	172	177	155.1	1.0	132	56
	1,048.9	0.8	416	264	464.7	1.0	314	92	140.0	1.0	402	10
	974.8	0.9	139	192	459.1	1.5	168	188	128.5	2.1	331	9
	972.8	1.1	123	130	444.9	0.8	282	163	126.8	0.3	215	297
	954.8	0.9	269	246	427.1	0.8	177	225	126.0	0.3	188	266
	950.3	0.8	404	93	397.5	0.4	171	281	124.2	0.5	221	278
	922.6	1.1	106	232	385.1	0.5	174	298	121.6	0.8	187	121
	901.8	0.9	345	104	379.1	0.8	140	218	120.1	1.0	115	215
	890.6	0.5	210	271	378.3	0.4	251	301	119.7	1.5	172	136
	885.3	1.5	184	204	376.5	0.9	453	265	119.5	1.3	116	118
	872.9	1.2	148	228	368.2	1.4	253	217	117.9	0.6	126	145
	861.7	0.9	103	227	354.6	0.9	151	197	116.8	1.4	144	111
	816.6	0.6	181	273	341.5	1.4	218	85	116.7	1.0	132	171
	812.8	0.8	375	280	336.4	1.1	178	103	100.9	1.0	260	235
	810.1	1.1	143	202	335.6	1.2	187	170	95.8	0.3	222	279
	804.2	0.7	326	221	319.2	0.6	221	238	93.6	1.3	216	206
	803.8	1.3	191	139	314.7	0.7	245	299	85.3	1.1	192	168
	779.6	0.8	109	213	309.2	0.9	187	222	78.7	0.7	209	285
	770.8	0.5	168	286	305.8	1.7	202	101	77.4	1.5	140	193
	761.8	1.0	87	129	300.4	0.8	93	231	73.2	1.9	149	115
	759.3	0.8	194	102	300.2	1.5	250	100	72.6	0.8	190	250
	730.7	0.4	320	275	288.1	0.5	240	300	66.0	0.4	202	239
	715.3	0.7	479	72	274.6	0.8	165	195	64.3	0.6	128	236

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average			Haul	CPUE (kg/km <sup>2</sup> )	Average			Haul	CPUE (kg/km <sup>2</sup> )	Average			Haul
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)			weight (kg)	Gear depth (m)	weight (kg)			Gear depth (m)			
Dover sole	62.4	1.5	136	141										
	62.1	0.8	239	220										
	61.5	0.3	181	196										
	56.6	0.3	201	251										
	53.2	0.2	207	296										
	52.9	0.4	96	80										
	52.7	0.7	76	237										
	48.6	0.4	179	290										
	48.1	1.2	289	198										
	45.8	0.3	190	289										
	39.6	1.0	138	87										
	38.3	0.1	92	229										
	32.5	0.3	196	270										
	32.2	0.3	166	191										
	32.1	0.8	138	282										
	31.1	0.5	86	226										
	30.7	0.8	138	199										
	30.1	0.2	223	253										
	29.7	0.8	238	63										
	27.2	0.6	138	147										
	26.9	0.7	194	262										
	25.2	0.6	192	249										
	23.8	0.3	159	86										
	20.2	0.5	180	200										
	19.3	0.5	87	155										
	14.9	0.4	77	14										
	9.5	0.3	304	11										
	9.4	0.2	196	287										
	9.1	0.2	64	258										
	8.7	0.2	137	207										
	8.7	0.1	52	268										
	4.5	0.1	66	125										
	4.5	0.1	57	128										

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesterdaalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Rex sole	5,234.4	0.5	218	85	619.9	0.8	149	115	232.3	0.1	196	287
	4,902.1	0.4	143	205	608.0	0.3	278	234	231.6	0.2	160	267
	4,155.7	0.3	183	233	598.5	0.9	244	96	227.6	0.4	479	72
	4,073.9	0.5	282	84	581.1	0.4	137	207	225.7	0.1	223	253
	3,488.8	0.7	132	56	579.2	0.4	320	156	220.1	0.4	109	213
	3,447.8	0.5	194	102	574.1	0.2	190	272	217.0	0.2	93	231
	3,118.9	0.4	277	105	567.9	0.3	269	246	216.8	0.5	205	16
	1,919.5	0.8	87	155	557.7	0.5	130	82	202.6	0.2	245	299
	1,737.4	0.6	116	118	552.5	0.5	192	168	194.6	0.3	115	215
	1,679.0	0.5	197	99	519.4	0.6	331	161	189.9	0.3	111	219
	1,664.0	0.7	237	17	504.1	0.7	78	127	185.0	0.6	184	204
	1,409.3	1.0	130	150	500.0	0.5	304	11	184.5	0.5	139	55
	1,324.7	0.5	178	103	470.3	0.2	210	284	183.7	0.2	240	300
	1,213.8	0.5	289	71	449.0	0.2	226	256	183.2	0.3	96	80
	1,193.0	0.2	174	298	440.9	0.2	326	241	182.4	0.2	416	264
	1,183.6	0.3	163	274	428.8	0.6	212	15	176.5	0.6	238	63
	1,148.5	0.4	87	129	428.0	0.4	113	140	173.7	0.6	187	170
	1,133.6	0.4	363	91	422.0	0.2	251	301	172.5	0.2	190	250
	1,111.3	0.4	330	32	414.7	0.2	179	290	165.4	0.2	187	222
	1,097.5	0.7	159	86	414.0	0.4	314	92	161.5	0.4	253	217
	1,088.7	0.6	125	153	397.3	0.2	221	278	158.1	0.2	201	251
	1,084.2	0.3	181	273	394.8	0.2	221	238	154.4	0.5	138	199
	989.4	0.2	171	281	385.3	0.5	251	169	147.3	0.2	182	295
	966.3	0.5	202	101	377.7	0.2	168	286	147.2	0.7	92	41
	954.9	0.2	334	302	362.5	0.8	142	70	146.1	0.3	345	104
	946.9	0.3	282	163	356.1	0.2	138	282	143.7	0.2	203	223
	863.7	1.0	170	201	300.4	0.2	167	254	135.7	0.6	181	29
	806.1	0.7	250	100	296.8	0.6	151	197	135.3	1.0	190	131
	790.9	1.2	136	141	288.2	0.7	172	177	134.5	0.3	474	166
	776.9	0.5	223	30	278.1	0.3	375	280	128.9	0.5	331	9
	776.4	0.2	209	285	270.3	0.5	165	195	126.4	0.2	196	270
	769.2	0.5	189	83	269.5	0.8	154	174	124.9	0.2	397	276
	743.3	0.7	126	145	264.7	0.6	143	202	122.4	0.6	168	188
	683.6	0.2	210	271	253.6	0.4	132	171	116.0	0.6	166	61
	682.3	0.3	245	247	251.8	0.2	267	283	115.6	0.2	202	239
	640.8	0.6	172	158	245.3	0.2	276	209	114.4	0.6	157	167
	629.9	0.2	276	212	235.3	0.2	320	275	113.0	0.7	130	108
	625.4	0.2	384	211	235.2	0.2	188	266	112.6	0.7	144	111

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Rex sole	108.8	0.2	192	249	34.3	0.4	197	189				
	105.2	0.8	157	22	32.7	0.8	190	122				
	103.0	0.6	139	192	28.5	0.1	64	244				
	98.2	0.2	222	279	27.0	0.1	183	277				
	96.5	1.2	191	139	26.7	0.2	172	248				
	96.4	0.1	190	289	26.4	0.2	92	230				
	96.0	0.6	205	203	25.8	0.5	140	193				
	93.6	0.3	123	130	23.9	0.3	241	252				
	91.3	0.8	145	178	23.7	0.1	215	297				
	90.0	0.4	404	93	23.2	0.5	190	138				
	87.6	0.4	215	60	21.9	0.1	138	76				
	86.9	0.2	103	227	21.8	0.1	140	218				
	86.3	0.2	77	14	21.4	0.6	142	160				
	85.1	0.7	187	121	17.3	0.4	150	165				
	84.1	1.0	147	13	17.1	0.1	95	257				
	84.1	0.3	414	31	17.0	0.4	76	151				
	82.9	0.3	289	198	16.0	0.4	439	59				
	78.8	0.2	118	149	15.1	0.1	148	228				
	73.6	1.0	110	35	13.6	0.4	66	125				
	72.6	0.6	281	114	13.2	0.4	76	237				
	69.3	0.3	144	75	13.1	0.2	64	258				
	65.5	0.2	86	226	10.2	0.3	177	225				
	65.5	0.8	96	39	10.1	0.1	92	229				
	65.2	0.2	179	242	4.3	0.1	52	268				
	64.8	0.2	326	221	3.4	0.0	151	77				
	63.6	0.1	115	292	1.3	0.0	220	133				
	58.2	0.8	276	113	0.9	0.0	182	120				
	53.3	0.3	304	240								
	53.1	0.3	106	232								
	49.4	0.1	207	296								
	48.7	0.3	216	206								
	44.5	0.5	181	196								
	43.9	0.2	453	265								
	40.3	0.3	138	147								
	40.0	0.2	144	65								
	39.2	0.3	198	294								
	37.8	0.1	45	245								
	34.4	0.1	125	288								



Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

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	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Rock sole sp.	17,115.9	0.5	64	23	1,886.1	0.8	119	4	280.4	0.4	115	292
	14,806.8	0.5	63	24	1,854.8	0.4	77	146	275.1	0.7	113	140
	12,022.6	0.3	23	48	1,747.2	0.7	105	28	262.4	0.7	211	1
	11,749.9	0.5	46	44	1,503.5	0.9	87	123	260.9	1.1	107	18
	10,218.5	0.5	43	50	1,467.9	0.8	86	183	260.3	1.0	70	186
	9,139.9	0.5	89	43	1,357.4	0.5	91	74	224.0	0.8	112	12
	8,610.5	0.4	96	39	1,336.4	0.3	52	268	216.0	0.6	88	19
	7,915.3	0.4	54	49	1,318.3	0.7	91	51	176.7	0.8	147	13
	7,659.2	0.2	56	38	1,196.4	0.8	130	164	168.9	1.4	46	107
	6,804.0	1.2	56	214	1,112.1	0.9	82	152	166.4	0.5	110	293
	6,644.6	0.5	54	67	1,106.6	0.5	77	14	148.2	0.8	205	16
	5,986.8	0.4	44	132	1,047.9	0.5	97	27	132.2	0.8	150	165
	5,192.7	0.6	69	143	985.2	0.3	87	155	130.1	0.8	67	25
	5,144.2	1.6	59	106	982.4	0.4	28	181	122.6	0.9	118	149
	5,113.2	0.6	79	159	942.4	1.0	114	62	121.8	0.6	95	90
	3,862.8	0.7	78	20	880.9	0.7	58	7	105.9	0.5	115	208
	3,728.8	0.4	65	66	872.9	0.8	67	110	105.9	0.9	89	95
	3,717.6	0.9	76	190	836.4	0.4	64	109	87.9	0.7	237	17
	3,577.4	0.6	31	45	809.6	0.3	76	36	84.5	0.7	123	291
	3,380.6	0.4	92	41	778.2	0.4	84	5	80.2	1.0	92	54
	3,372.7	0.4	87	37	641.2	0.8	212	15	69.7	0.9	125	288
	3,288.6	0.5	93	8	572.0	0.5	76	68	57.9	0.7	181	29
	3,259.4	0.4	65	78	571.8	0.6	78	6	57.7	1.4	109	53
	3,083.2	0.7	67	79	571.6	0.6	143	162	54.5	0.8	144	65
	3,072.5	0.6	90	34	553.9	0.7	82	176	50.5	0.6	157	22
	3,000.8	0.5	78	52	550.6	1.2	76	151	50.5	0.7	66	125
	2,938.2	0.7	65	134	538.4	0.7	91	173	48.0	1.2	33	154
	2,851.6	0.8	69	137	499.2	0.8	94	119	47.5	1.2	138	87
	2,846.0	0.7	57	128	497.5	1.6	64	172	43.1	0.2	95	255
	2,688.7	0.3	38	46	482.1	0.7	110	35	41.8	1.1	122	58
	2,525.9	0.6	83	33	475.2	0.5	82	144	37.5	0.5	136	141
	2,470.7	0.5	96	80	449.9	0.3	88	47	33.2	0.2	85	89
	2,427.3	0.7	76	64	435.3	0.4	114	2	32.8	1.0	86	226
	2,351.3	0.5	62	26	420.1	0.8	79	148	31.5	0.8	145	178
	2,335.1	0.5	66	40	327.6	0.8	95	21	27.0	0.7	149	115
	2,031.7	0.8	65	142	312.9	0.2	75	73	21.3	0.6	138	282
	2,013.6	0.9	107	69	298.0	0.6	93	94	20.4	0.5	138	147
	2,003.9	0.4	53	42	281.2	0.8	78	127	16.5	0.2	31	185

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

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Rock sole sp.	14.6	0.4	138	76	7.9	0.2	157	167	3.4	0.1	72	175
	14.2	0.4	191	139								
Butter sole	4,043.1	0.4	54	49	580.1	0.3	93	182	31.7	0.8	87	155
	3,029.5	0.3	70	186	295.9	0.4	57	128	29.8	0.4	64	258
	2,539.2	0.4	136	141	276.2	0.5	65	78	27.5	0.7	64	109
	2,298.6	0.4	56	38	201.2	0.5	77	14	24.6	0.3	34	243
	1,827.3	0.4	54	67	156.7	0.4	43	50	22.6	0.6	79	148
	1,292.3	0.6	33	154	103.7	0.3	57	184	21.9	0.5	78	52
	1,077.4	0.7	118	149	94.7	0.3	38	46	7.6	0.1	45	245
	740.1	0.3	31	185	36.4	0.5	86	183	7.3	0.2	64	244
Alaska plaice	1,823.204	1.6	69	54	323.497	0.9	64	41	153.495	2.6	76	56
	921.143	0.9	24	149	302.304	1.4	60	144	116.395	1.2	78	173
	728.985	1.4	51	168	294.485	0.8	45	170	63.883	1.5	58	105
	623.690	1.5	42	104	216.133	2.3	84	169	63.541	1.4	79	172
	584.862	2.8	93	154	184.477	1.3	66	148				
	404.858	1.0	28	139	178.740	1.2	32	53				

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Sablefish	31,216.9	3.0	180	200	811.4	3.0	276	113	184.4	0.8	148	228
	10,971.8	2.4	238	63	794.5	2.0	139	192	184.1	2.7	150	98
	7,943.2	2.5	187	170	789.0	3.3	189	83	181.8	1.6	194	262
	6,770.7	2.9	404	93	762.1	2.8	289	71	167.7	5.1	397	276
	6,488.2	3.9	146	3	708.5	1.0	163	274	156.6	1.3	237	17
	6,272.4	3.4	453	265	700.3	2.9	197	99	144.3	4.1	181	273
	6,136.3	2.4	269	246	683.4	2.9	314	92	141.9	0.5	93	231
	5,768.3	3.1	384	211	674.5	0.7	168	286	140.7	1.9	207	296
	5,614.9	2.9	132	171	593.2	3.2	202	101	139.4	3.0	190	138
	5,605.8	3.1	320	156	591.3	2.7	439	59	137.4	3.3	136	141
	5,499.3	2.8	282	84	551.2	2.7	154	174	126.6	1.2	245	299
	5,437.3	3.1	277	105	550.6	4.6	191	139	118.3	0.9	260	235
	5,290.2	3.5	363	91	521.6	1.7	253	217	118.1	3.0	210	271
	4,867.0	3.5	304	240	518.6	3.2	281	114	116.8	0.4	92	230
	4,207.8	1.5	226	256	477.1	3.9	250	100	110.0	0.9	222	279
	3,418.6	3.4	331	161	462.0	2.7	375	280	109.3	2.6	178	103
	3,382.9	2.9	205	203	443.0	1.8	304	11	109.2	2.6	188	266
	3,322.0	4.1	181	196	427.1	1.0	209	285	104.3	1.5	187	222
	3,113.2	2.8	416	264	426.2	2.5	251	169	102.1	0.4	106	232
	2,505.0	3.0	474	166	420.8	2.1	330	32	94.6	0.3	64	258
	2,354.8	3.5	276	209	412.5	0.6	171	281	93.9	1.2	122	58
	2,117.0	2.9	276	212	401.4	1.2	183	233	90.8	0.7	202	239
	1,977.9	1.9	203	223	382.5	2.6	201	251	85.9	2.3	179	290
	1,777.5	2.1	278	234	363.7	2.0	170	201	85.8	0.8	126	145
	1,532.8	0.8	174	298	334.9	2.3	240	300	79.6	1.0	132	56
	1,504.1	2.0	223	30	324.8	2.8	113	140	79.5	0.4	160	267
	1,424.4	3.5	282	163	300.7	2.5	331	9	77.2	2.0	244	96
	1,278.1	3.2	326	241	292.5	2.4	192	168	75.8	1.8	157	22
	1,221.1	3.1	479	72	292.0	2.6	216	206	75.5	0.5	138	282
	1,147.4	1.7	402	10	280.5	1.9	334	302	72.5	0.8	138	147
	1,091.8	1.8	414	31	269.7	0.8	210	284	62.5	0.4	64	244
	1,085.5	3.3	345	104	264.8	1.0	109	213	56.9	1.5	212	15
	1,072.9	3.0	140	193	254.7	1.8	251	301	55.8	1.3	165	195
	1,065.8	1.6	245	247	252.9	3.0	197	189	54.1	0.2	23	48
	1,025.3	3.0	326	221	208.9	0.8	192	249	53.9	0.7	289	198
	1,016.9	2.7	238	124	196.3	1.5	267	283	48.5	0.4	196	287
	858.9	3.9	184	204	195.2	1.6	215	60	47.1	1.3	205	16
	812.4	2.2	138	199	190.6	1.1	190	250	46.5	1.2	143	202

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Species	Average				Species	Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Sablefish	45.4	1.1	320	275										
	45.2	0.4	130	260										
	44.4	1.1	241	252										
	44.1	1.1	223	253										
	43.1	1.0	91	173										
	42.2	0.6	45	245										
	39.3	0.9	182	295										
	37.1	1.0	196	270										
	29.1	0.7	179	242										
	27.8	0.7	140	218										
	24.7	0.3	38	46										
	24.6	0.6	182	120										
	22.7	0.6	103	227										
	21.4	0.5	115	215										
	18.0	0.5	76	237										
	14.6	0.4	130	259										
	13.6	0.4	149	115										
	9.0	0.2	57	128										
	8.8	0.2	88	47										

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Pacific cod	55,402.9	4.5	130	108	2,683.9	2.6	88	19	896.7	1.9	83	33
	25,025.0	1.6	43	50	2,644.4	3.3	119	4	883.7	2.2	94	119
	15,380.6	3.2	191	139	2,610.3	1.9	76	64	880.0	1.4	166	191
	12,270.5	3.0	146	3	2,547.1	3.6	64	172	871.2	2.1	172	136
	10,520.5	3.5	76	36	2,382.4	3.0	78	127	860.1	7.9	205	16
	9,081.1	2.6	138	87	2,313.7	2.5	77	14	859.9	0.7	65	66
	9,041.0	2.6	116	118	2,289.0	1.9	110	35	848.8	2.7	159	86
	7,525.6	1.9	101	117	1,994.7	2.3	172	158	815.0	3.1	238	124
	7,468.0	2.2	87	155	1,983.3	2.8	78	6	813.7	2.0	86	183
	7,270.9	2.8	142	70	1,898.6	3.2	107	18	808.2	3.0	87	129
	7,014.1	1.5	89	43	1,882.2	1.6	168	188	808.2	3.0	212	15
	6,375.2	2.5	190	131	1,830.6	4.6	118	149	764.4	2.5	202	101
	5,495.7	2.3	96	39	1,799.8	2.9	150	98	737.6	1.0	53	42
	5,434.2	4.5	211	1	1,710.7	2.7	145	178	696.1	3.3	204	135
	5,425.3	1.5	69	143	1,649.5	2.4	189	83	682.6	1.1	192	168
	5,289.5	2.2	92	41	1,565.5	2.7	97	27	669.1	2.0	109	53
	5,067.8	2.3	166	61	1,560.5	5.3	147	13	666.8	3.0	209	285
	5,041.5	2.9	187	170	1,500.8	2.0	138	282	645.5	1.6	76	68
	4,754.4	2.0	91	51	1,497.8	2.0	172	177	638.4	0.8	54	67
	4,411.1	3.7	78	52	1,487.1	2.6	144	65	632.1	4.0	33	154
	4,150.5	2.5	107	69	1,475.1	1.0	113	140	625.1	2.3	130	150
	4,070.9	2.4	78	20	1,433.5	1.5	180	200	584.7	3.3	182	295
	4,005.2	1.2	154	174	1,424.6	2.7	84	5	584.4	0.7	54	49
	3,915.7	2.5	96	80	1,411.1	2.6	136	141	571.6	2.1	237	17
	3,491.9	0.3	28	181	1,309.5	4.7	181	29	565.4	2.8	114	2
	3,443.2	0.5	44	132	1,296.8	3.3	112	12	551.1	2.0	151	197
	3,123.3	2.1	181	196	1,290.9	1.5	88	47	545.5	3.1	282	84
	3,093.3	1.3	66	40	1,259.6	1.1	82	176	529.8	6.4	144	111
	3,065.0	4.3	90	34	1,207.9	2.6	66	125	512.5	3.3	276	113
	3,064.6	0.9	79	159	1,197.0	1.8	56	38	501.9	2.6	207	296
	3,057.2	0.9	23	48	1,161.4	2.7	197	189	492.9	3.0	182	120
	3,038.5	2.5	138	199	1,144.7	2.9	220	133	463.6	0.2	31	185
	2,970.1	2.1	122	58	1,086.4	1.8	126	145	462.5	2.0	168	286
	2,890.1	1.6	188	266	1,073.6	0.7	157	167	449.6	3.0	95	21
	2,706.6	1.8	93	8	990.8	3.3	76	237	437.3	1.9	238	63
	2,703.0	2.3	65	78	977.2	2.2	92	54	430.0	0.8	190	289
	2,702.6	3.8	130	164	971.1	2.1	105	28	423.8	2.6	197	99
	2,697.8	2.7	93	182	954.7	3.2	153	187	419.2	0.0	64	23

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Pacific cod	416.7	2.2	130	82	174.9	2.1	218	85	25.3	0.7	245	299
	415.6	3.0	123	130	171.5	4.2	106	232	22.3	0.2	115	292
	389.9	3.2	194	102	163.5	4.0	67	110	16.2	0.1	31	126
	379.3	4.7	281	114	162.7	3.5	190	138	12.1	0.3	102	261
	377.4	1.7	179	290	161.0	0.7	132	171	10.1	0.1	69	137
	371.2	1.1	70	186	148.2	3.4	190	122	9.6	0.3	130	260
	364.7	1.8	187	121	147.6	1.4	240	300	8.0	0.0	63	24
	358.6	4.2	87	37	144.3	4.1	181	273	6.8	0.2	79	148
	356.9	2.7	150	165	140.4	2.0	160	267	4.9	0.1	52	268
	352.1	2.0	67	79	133.6	1.9	196	270	2.1	0.1	93	94
	346.6	0.1	46	44	133.0	3.7	187	222				
	344.7	0.5	65	134	129.0	3.3	64	244				
	336.0	4.0	221	238	125.2	3.0	93	231				
	307.9	1.4	91	173	123.0	1.5	125	288				
	304.4	0.7	82	152	122.0	0.2	57	128				
	291.6	2.7	138	76	121.2	1.5	111	219				
	283.8	3.5	65	142	118.9	2.9	139	55				
	283.4	2.8	58	7	116.8	3.1	92	230				
	263.1	0.6	64	109	105.7	2.8	143	205				
	254.7	1.2	57	184	103.5	2.4	263	57				
	242.3	3.1	140	218	99.7	2.7	210	284				
	239.3	5.5	192	249	97.4	2.3	31	45				
	236.1	2.0	210	271	96.8	2.3	171	281				
	231.5	5.1	190	250	88.0	1.2	223	30				
	227.0	2.4	72	175	85.1	2.1	163	274				
	221.8	1.1	140	193	83.7	2.1	215	60				
	217.4	2.4	138	147	80.0	1.9	157	22				
	216.8	0.2	77	146	78.4	1.9	202	239				
	213.6	5.3	46	112	75.3	0.5	115	208				
	210.6	2.4	125	153	74.7	1.9	222	279				
	208.2	2.6	62	26	69.7	2.3	331	9				
	207.2	1.8	196	287	55.4	1.5	251	301				
	206.1	1.6	178	103	48.0	0.2	38	46				
	204.6	4.5	170	201	39.4	0.8	194	180				
	200.1	1.8	174	298	39.0	0.2	110	293				
	185.3	4.9	203	223	29.4	0.4	139	192				
	184.5	2.3	190	272	28.6	0.1	95	90				
	182.3	4.6	215	297	28.4	0.7	140	210				

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Walleye pollock	85,397.4	0.9	146	3	2,319.6	1.1	189	83	663.4	1.1	102	97
	44,771.5	1.1	66	125	2,317.3	1.1	326	221	641.9	0.6	226	256
	44,196.8	1.4	33	154	2,305.9	0.1	211	1	638.8	0.9	185	216
	34,470.7	1.2	136	141	2,255.0	1.2	76	190	633.5	0.2	115	215
	29,286.5	1.4	88	47	2,122.1	1.1	222	279	593.9	0.0	158	157
	17,090.1	0.9	88	19	2,079.1	1.0	87	37	590.6	0.0	130	259
	15,095.3	1.3	191	139	2,031.4	1.1	172	136	579.8	1.2	138	147
	12,954.6	0.6	194	180	1,813.1	0.4	196	287	528.6	0.3	220	133
	12,861.2	1.0	78	20	1,754.4	1.1	77	14	524.2	0.6	168	286
	12,418.7	1.1	96	80	1,726.0	0.9	107	69	482.6	0.9	116	118
	10,835.7	0.8	145	178	1,425.6	0.1	153	187	479.6	0.2	194	262
	10,334.7	1.1	147	13	1,424.4	1.0	282	163	478.4	1.3	251	169
	9,369.1	0.9	92	41	1,345.9	0.1	201	251	464.6	0.2	238	124
	9,345.4	1.3	166	191	1,249.6	1.3	181	29	448.8	0.8	260	235
	8,544.5	1.4	118	149	1,194.1	1.0	122	58	445.5	0.6	170	201
	8,163.7	1.0	93	8	1,144.0	0.4	174	298	441.9	1.2	95	21
	7,878.1	1.2	57	184	1,133.0	1.0	187	170	439.9	0.4	204	135
	7,762.8	1.3	78	127	1,123.7	1.1	157	22	419.8	0.1	167	254
	7,373.4	0.7	267	283	1,071.4	0.9	197	189	418.8	0.6	171	281
	6,720.6	1.1	97	27	1,052.8	0.9	180	200	408.2	0.9	215	297
	6,499.1	0.5	190	131	1,019.0	0.5	209	285	404.3	0.7	216	206
	6,062.2	0.8	278	234	943.4	0.1	110	293	403.0	1.0	150	98
	5,834.4	1.0	78	52	926.9	0.3	196	270	396.0	1.6	154	174
	5,089.2	0.9	89	43	916.1	0.1	87	155	390.3	1.0	205	16
	4,295.9	0.9	276	212	913.8	0.6	183	233	389.6	0.6	210	271
	4,200.9	1.1	172	177	892.9	0.2	276	113	383.6	0.1	160	267
	3,977.6	1.6	65	78	823.3	0.1	281	114	379.5	1.0	277	105
	3,692.0	0.9	83	33	810.4	0.1	314	92	376.2	0.2	245	247
	3,474.0	1.0	110	35	759.6	1.0	238	63	365.6	0.1	182	120
	3,306.5	1.0	215	60	756.0	1.0	245	299	362.6	1.2	96	39
	3,270.9	0.3	168	188	755.7	1.0	363	91	354.0	1.1	218	85
	2,694.3	0.2	190	122	739.5	1.1	304	240	343.9	0.5	205	203
	2,587.0	0.3	163	274	734.4	1.0	190	138	343.4	0.5	241	252
	2,531.6	0.9	289	198	717.3	0.3	187	121	321.6	0.9	126	145
	2,482.1	0.6	151	197	711.7	1.1	239	220	316.6	1.5	331	161
	2,458.2	1.0	221	278	711.3	0.5	112	12	308.3	0.4	184	204
	2,409.1	1.2	87	129	703.3	0.1	123	130	297.6	1.0	237	17
	2,354.3	0.2	77	146	683.8	0.5	253	217	296.9	0.9	109	53

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Walleye pollock	292.9	0.5	223	253	112.4	0.7	107	18	40.8	0.9	263	57
	288.1	0.7	240	300	109.3	0.1	82	152	39.5	0.2	202	239
	282.2	0.0	148	228	103.7	0.9	101	117	39.2	1.0	65	134
	271.6	0.2	269	246	103.0	0.8	125	153	37.6	0.3	138	87
	263.2	0.8	289	71	96.2	0.8	143	202	37.0	0.9	65	142
	262.8	0.8	93	231	95.8	0.7	142	70	36.0	0.5	404	93
	258.7	0.1	190	250	92.7	0.1	190	289	35.7	0.9	474	166
	256.6	0.1	159	86	92.4	0.1	94	119	35.5	0.9	113	140
	248.7	0.0	28	181	89.8	0.0	31	185	34.9	0.9	194	102
	242.9	0.2	179	290	89.5	0.3	53	42	33.2	0.9	91	51
	214.3	1.1	223	30	86.4	1.1	151	77	32.1	0.0	46	44
	207.7	0.5	181	273	83.6	0.8	144	65	29.2	0.4	138	76
	204.6	0.9	402	10	80.9	0.5	149	115	25.0	0.1	82	144
	193.1	0.4	165	195	80.5	0.0	65	66	24.7	0.1	66	40
	183.3	0.8	89	95	80.5	1.0	320	275	22.5	0.7	59	106
	179.5	1.1	345	104	80.1	0.6	187	222	21.7	0.1	198	294
	164.5	1.0	304	11	79.0	1.0	175	224	16.6	0.0	137	207
	162.5	0.1	210	284	76.5	0.3	54	67	16.2	0.1	140	218
	162.5	0.1	192	249	75.9	1.1	479	72	15.1	0.1	179	242
	159.7	0.1	207	296	73.4	1.2	202	101	12.6	0.0	143	162
	154.4	0.1	172	248	71.4	0.1	182	295	11.6	0.1	115	208
	152.2	0.9	85	89	69.5	0.9	330	32	11.5	0.3	130	108
	149.6	0.9	282	84	69.2	0.8	54	49	10.4	0.0	130	260
	144.2	1.0	212	15	67.3	0.8	178	103	9.7	0.0	79	148
	142.2	0.7	76	36	61.5	0.7	181	196	8.9	0.1	142	160
	141.0	1.5	276	209	61.2	0.1	69	143	8.6	0.1	109	213
	140.9	0.0	95	90	61.2	0.5	105	28	8.1	0.0	23	48
	137.2	0.0	86	226	60.0	0.8	78	6	8.0	0.0	166	61
	131.9	0.9	331	9	57.6	0.1	92	54	7.8	0.1	93	182
	130.0	1.3	56	38	53.6	0.0	64	258	7.5	0.2	92	230
	129.2	0.1	91	173	53.3	0.7	439	59	7.2	0.0	132	171
	127.5	1.0	384	211	53.3	0.3	132	56	6.9	0.0	82	176
	127.0	0.7	119	4	49.2	1.3	203	223	5.9	0.0	76	68
	126.9	1.0	197	99	46.5	0.3	106	232	4.8	0.0	130	150
	119.8	0.4	326	241	44.7	0.0	76	64	4.5	0.0	92	229
	117.3	0.0	45	245	44.3	0.6	157	167	4.1	0.0	91	74
	113.4	0.7	188	266	43.0	0.9	130	164	4.1	0.0	57	128
	113.2	0.1	76	237	41.1	1.0	250	100	4.0	0.0	44	132



Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Walleye pollock	3.2	0.0	103	227	2.0	0.0	150	165	0.8	0.0	128	236
	2.7	0.1	72	175	1.6	0.0	110	81	0.5	0.0	75	73
	2.6	0.0	70	186	1.4	0.0	192	168	0.4	0.0	95	255
	2.1	0.0	114	62	1.2	0.0	38	46				
Lingcod	8,671.4	7.4	56	214	302.4	7.2	221	238	168.1	4.5	179	290
	726.2	9.1	64	258	281.6	7.8	196	270	141.5	3.6	222	279
	661.8	13.7	72	175	265.5	6.6	123	291	102.9	2.0	115	208
	614.1	8.8	160	267	258.6	6.8	207	296	98.0	2.5	102	261
	516.7	12.3	188	266	256.8	6.1	171	281	52.6	1.4	130	259
	475.6	6.3	76	237	253.6	6.4	215	297	51.9	1.4	196	287
	334.4	8.1	202	239	246.5	6.4	167	254				
	316.0	7.7	125	288	200.8	4.5	182	295				
Atka mackerel	257.8	1.3	102	97	81.3	2.0	192	168	55.5	1.3	87	37
	234.0	1.4	194	102	68.9	1.5	116	118	51.3	1.6	130	82
	159.8	1.5	150	98	67.7	1.6	85	89	47.9	1.2	181	29
	126.2	1.5	178	103	66.6	1.6	218	85	47.6	1.1	96	39
	106.7	1.5	110	35	63.3	0.2	64	23	43.4	1.1	238	63
	92.1	0.8	146	3	55.5	1.4	189	83	39.8	1.1	277	105

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the FV Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Shortspine	8,464.4	0.3	363	91	542.8	0.4	216	206	21.7	0.2	238	63
thornyhead	6,298.6	0.2	304	240	538.0	0.1	196	270	21.7	0.1	167	254
	4,754.3	0.3	479	72	534.0	0.2	474	166	20.8	0.1	190	289
	3,959.7	0.2	289	71	489.9	0.3	223	30	18.3	0.4	253	217
	3,721.9	0.2	282	84	487.6	0.3	251	169	17.8	0.2	215	60
	3,556.3	0.3	404	93	475.9	0.2	239	220	17.0	0.2	185	216
	2,693.3	0.2	320	156	472.7	0.3	203	223	16.9	0.4	137	207
	2,653.7	0.2	384	211	467.9	0.5	205	203	16.6	0.2	128	236
	2,304.4	0.1	320	275	462.0	0.3	237	17	8.2	0.0	202	239
	2,225.5	0.3	334	302	433.2	0.2	194	262	6.1	0.2	130	259
	2,144.8	0.3	331	9	422.8	0.2	263	57	2.6	0.1	190	250
	1,989.6	0.2	276	212	404.4	0.2	414	31				
	1,958.2	0.1	223	253	386.6	0.3	314	92				
	1,688.4	0.2	326	221	332.9	0.2	215	297				
	1,635.7	0.3	416	264	263.4	0.3	148	228				
	1,627.6	0.1	397	276	224.7	0.2	190	272				
	1,585.0	0.2	172	248	201.7	0.7	183	233				
	1,580.8	0.3	375	280	200.1	0.1	251	301				
	1,577.2	0.2	260	235	195.6	0.6	181	29				
	1,568.1	0.1	326	241	187.5	0.3	158	157				
	1,448.9	0.2	282	163	182.5	0.1	207	296				
	1,439.8	0.3	304	11	161.0	0.3	192	249				
	1,326.9	0.2	331	161	158.9	0.5	205	16				
	1,301.8	0.3	245	247	155.7	0.6	157	22				
	1,208.0	0.2	439	59	129.0	0.4	212	15				
	1,156.3	0.2	330	32	109.5	0.2	177	225				
	1,144.5	0.3	278	234	87.3	1.2	109	213				
	954.1	0.2	277	105	80.8	0.1	241	252				
	889.3	0.3	345	104	78.6	0.1	222	279				
	856.8	0.1	221	238	70.4	0.4	181	273				
	853.4	0.2	226	256	69.3	0.2	179	242				
	837.1	0.3	453	265	48.8	0.1	267	283				
	810.8	0.4	269	246	48.2	0.0	201	251				
	752.7	0.2	402	10	44.2	0.3	107	18				
	732.0	0.2	210	271	37.7	0.1	179	290				
	653.1	0.2	245	299	35.5	0.2	175	224				
	597.9	0.2	276	209	33.6	0.1	188	266				
	590.6	0.1	240	300	32.4	0.3	187	222				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Rougheye rockfish	10,633.6	1.5	397	276	158.2	0.4	187	222	11.6	0.3	172	248
	8,747.1	1.1	326	221	146.9	0.5	145	178	10.4	0.3	175	224
	7,877.6	1.5	250	100	144.0	0.5	115	208	8.8	0.2	202	239
	7,201.8	0.4	304	240	122.9	1.7	277	105	3.6	0.1	188	266
	7,127.9	1.3	331	9	121.6	1.3	416	264				
	5,974.0	1.6	320	156	110.4	1.2	276	209				
	4,383.3	1.5	363	91	101.6	1.4	439	59				
	3,029.2	1.5	345	104	98.7	1.4	402	10				
	1,460.6	1.1	384	211	98.6	0.5	185	216				
	1,457.4	1.6	289	71	98.6	0.5	177	225				
	1,351.9	1.0	278	234	96.1	1.1	204	135				
	1,205.4	1.2	282	84	92.3	0.8	107	18				
	1,197.1	1.5	330	32	83.3	0.5	253	217				
	1,135.9	0.8	276	212	78.6	0.3	128	236				
	917.8	1.7	331	161	75.8	0.6	197	99				
	816.3	1.5	282	163	69.4	1.9	453	265				
	784.4	0.8	326	241	66.2	0.4	239	220				
	553.1	0.7	194	262	57.8	1.4	172	136				
	448.7	0.8	245	247	55.6	0.6	165	195				
	419.8	0.7	203	223	50.5	0.6	269	246				
	354.8	0.3	103	227	46.0	0.2	140	218				
	276.1	0.6	263	57	44.4	0.2	241	252				
	275.3	1.5	304	11	38.1	0.9	184	204				
	267.9	0.6	260	235	36.8	1.0	110	35				
	258.3	0.5	139	55	36.2	0.2	115	215				
	246.2	0.3	109	213	33.2	0.2	334	302				
	244.2	0.3	190	250	30.2	0.1	194	102				
	224.7	0.7	196	287	26.3	0.7	167	254				
	211.0	0.6	238	63	26.3	0.2	148	228				
	193.1	0.2	320	275	24.3	0.6	180	200				
	188.2	1.5	375	280	22.4	0.2	201	251				
	186.4	0.9	289	198	21.6	0.6	198	294				
	177.4	1.5	202	101	21.5	0.5	140	210				
	176.0	0.7	216	206	18.7	0.2	218	85				
	175.7	1.5	314	92	18.0	0.2	220	133				
	175.3	0.6	179	242	16.9	0.4	190	138				
	171.4	2.0	197	189	12.4	0.1	192	249				
	167.9	0.5	205	203	12.0	0.3	92	230				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

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Pacific ocean perch	236,044.2	0.6	194	102	1,280.0	0.7	187	222	122.4	0.4	159	86
	71,981.7	0.4	107	69	1,240.7	0.6	212	15	119.0	0.2	150	165
	63,984.7	0.7	192	168	1,192.4	0.6	245	247	107.0	0.6	375	280
	59,393.7	0.6	238	63	1,176.7	0.6	330	32	98.0	0.6	282	163
	48,861.0	0.6	215	60	1,170.3	0.5	110	35	94.3	0.6	289	71
	30,897.6	0.6	267	283	995.2	0.6	218	85	88.0	0.7	205	203
	17,944.5	0.7	240	300	975.2	0.1	179	290	87.4	0.4	181	196
	15,000.5	0.6	314	92	941.5	0.6	282	84	87.3	0.7	172	177
	14,803.8	0.3	107	18	941.3	0.2	209	285	74.3	0.3	183	277
	7,054.3	0.7	320	275	881.2	0.5	101	117	70.5	0.4	226	256
	6,669.2	0.6	189	83	867.9	0.6	211	1	66.1	0.2	142	160
	6,666.2	0.8	251	301	854.7	0.6	150	98	59.2	0.3	76	36
	5,413.0	0.4	221	278	764.4	1.0	202	101	59.0	0.1	140	210
	3,817.9	0.7	304	240	589.7	0.3	130	82	57.6	0.7	269	246
	3,757.6	0.6	241	252	567.2	0.7	326	241	56.4	0.7	345	104
	3,628.6	0.7	260	235	520.9	0.4	188	266	53.0	0.7	414	31
	3,627.9	0.4	215	297	493.6	0.6	304	11	41.6	0.2	109	53
	3,545.3	0.6	210	271	466.9	0.6	223	30	40.2	0.6	402	10
	3,314.1	0.7	277	105	454.5	0.6	157	22	39.8	0.6	59	106
	3,288.7	0.6	205	16	440.6	0.7	276	212	36.2	0.0	169	263
	3,285.3	0.6	222	279	417.1	0.9	334	302	35.2	0.9	143	202
	3,267.1	0.2	163	274	381.9	0.7	216	206	32.2	0.8	132	56
	3,190.6	0.4	245	299	377.4	0.6	331	9	31.0	0.6	140	193
	3,169.7	0.4	201	251	336.0	0.1	89	95	28.0	0.7	384	211
	2,794.8	0.3	207	296	317.2	0.0	85	89	27.7	0.2	138	87
	2,717.5	0.4	181	273	275.7	0.7	143	205	25.0	0.1	82	144
	2,639.3	0.2	196	270	253.0	0.2	190	250	24.8	0.6	239	220
	2,514.4	0.9	197	99	252.7	0.6	187	170	24.3	0.3	180	200
	2,499.9	0.7	221	238	236.3	0.7	326	221	24.0	0.3	78	6
	2,069.7	0.4	151	197	218.0	0.1	210	284	23.9	0.6	165	195
	1,945.9	0.6	237	17	188.5	0.7	331	161	20.5	0.1	167	254
	1,817.7	0.2	223	253	183.0	0.2	182	295	18.7	0.1	198	294
	1,808.4	0.2	174	298	168.0	0.7	320	156	15.7	0.2	172	158
	1,784.7	0.7	278	234	165.6	0.9	276	209	15.4	0.0	115	208
	1,479.9	0.8	184	204	159.7	0.8	181	29	12.7	0.3	140	218
	1,338.8	0.3	102	97	153.4	0.6	251	169	11.8	0.0	93	94
	1,335.1	0.2	190	289	138.1	0.4	146	3	11.1	0.1	94	119
	1,321.8	0.8	397	276	131.5	0.5	194	262	8.8	0.1	202	239

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesterdaalen.

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Pacific ocean perch	8.2	0.2	110	81	4.6	0.1	138	199	1.9	0.0	87	123
	6.9	0.1	95	21	3.0	0.1	128	236	1.5	0.0	110	293
	4.7	0.0	80	88	2.5	0.0	84	5	1.4	0.0	91	74
Shortraker rockfish	10,423.0	5.7	331	161	678.3	2.7	345	104	163.1	4.0	179	242
	9,446.9	4.2	363	91	590.3	7.2	320	275	157.4	4.4	278	234
	4,163.8	2.6	331	9	407.5	9.7	188	266	154.5	2.4	397	276
	3,604.1	2.7	384	211	387.4	3.2	326	241	142.5	1.3	402	10
	1,310.3	2.9	416	264	368.2	8.9	320	156	135.2	3.7	453	265
	1,064.6	3.4	289	71	359.6	4.5	241	252	108.4	3.0	479	72
	1,025.3	4.5	326	221	267.5	6.5	269	246	93.6	2.6	404	93
	868.5	4.1	375	280	254.7	7.4	276	212	85.4	2.7	304	11
	808.3	4.7	304	240	214.0	3.0	439	59				
	695.2	2.5	314	92	184.3	1.7	277	105				
Dusky rockfish sp.	18,038.7	1.2	107	69	139.2	1.7	197	99	50.6	1.2	136	141
	3,562.1	1.5	215	297	114.0	0.9	89	95	49.8	0.5	67	79
	2,673.2	1.7	190	250	111.8	0.2	77	146	49.6	1.3	210	271
	2,119.5	1.2	101	117	106.0	0.2	79	148	49.6	1.3	201	251
	2,077.7	1.4	115	208	98.3	1.3	140	210	46.2	1.2	119	4
	1,019.4	1.6	110	35	93.6	1.3	240	300	42.2	0.5	70	186
	801.8	1.6	187	222	78.7	1.1	278	234	37.5	1.1	142	160
	647.4	1.4	102	97	71.5	1.7	178	103	36.6	0.9	192	168
	470.0	1.3	194	102	57.9	1.5	223	30	35.7	0.7	66	40
	419.2	1.5	277	105	57.8	1.5	151	197	34.5	0.9	145	178
	219.2	1.3	260	235	56.2	1.4	107	18	28.8	0.7	65	142
	210.8	1.3	84	5	55.8	1.4	167	254	24.7	0.6	89	43
	146.9	2.0	172	248	53.1	1.4	212	15	15.0	0.3	78	127
	145.8	0.8	130	82	51.3	1.4	122	58				

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Northern rockfish	405,438.5	0.9	107	69	35.3	0.7	211	1				
	18,750.9	0.6	102	97	28.0	0.8	201	251				
	9,334.1	0.8	194	102	27.0	0.2	87	123				
	8,820.0	0.9	115	208	23.7	0.6	159	86				
	5,405.3	0.7	140	210	22.2	0.6	237	17				
	4,603.8	1.0	110	35	22.0	0.6	78	6				
	1,331.8	1.0	119	4	21.6	0.6	187	222				
	1,324.7	0.9	101	117	18.6	0.5	414	31				
	1,144.6	0.8	84	5	16.5	0.1	66	40				
	642.8	0.8	150	98	12.5	0.1	80	88				
	500.0	0.9	130	82	1.6	0.0	63	24				
	462.7	1.2	150	165	0.6	0.0	66	125				
	371.7	0.1	77	146								
	344.8	0.6	178	103								
	325.8	0.7	89	95								
	319.9	0.9	76	36								
	307.3	0.9	142	160								
	269.4	0.7	157	22								
	224.8	0.6	107	18								
	222.3	0.6	277	105								
	153.1	0.2	79	148								
	119.5	0.8	151	197								
	99.7	0.7	238	63								
	95.2	0.8	87	155								
	92.4	0.8	149	115								
	72.1	0.6	212	15								
	69.2	0.6	122	58								
	61.9	1.2	140	193								
	55.5	0.7	189	83								
	54.6	0.5	260	235								
	50.5	0.6	190	131								
	49.7	0.3	113	140								
	47.6	1.3	95	90								
	45.9	0.6	223	30								
	43.9	0.6	181	29								
	41.7	0.5	221	238								
	41.0	0.5	197	99								
	38.6	0.9	137	207								

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Redstripe rockfish	11,803.9	0.5	215	297	239.4	0.6	188	266	37.8	0.3	190	289
	373.9	0.3	183	277	106.5	0.5	207	296	31.2	0.7	267	283
	356.5	0.7	251	301	84.5	0.8	181	273				
Harlequin rockfish	31,697.9	0.5	107	69	139.2	0.5	150	165	12.3	0.3	278	234
	2,880.1	0.2	190	272	43.9	0.4	140	210	11.0	0.3	221	238
	1,682.4	0.2	147	269	38.2	0.2	194	102	10.4	0.3	150	98
	1,285.7	0.1	115	208	34.4	0.2	188	266	8.0	0.2	210	271
	382.3	0.2	183	277	29.0	0.1	167	254	3.0	0.1	223	253
	222.0	0.1	169	263	28.2	0.4	238	63	2.8	0.1	168	286
	203.8	0.4	102	97	19.4	0.2	179	290	2.8	0.1	209	285
	200.4	0.2	151	197	17.2	0.2	215	297	0.4	0.0	190	289
	173.0	0.5	110	35	14.7	0.5	331	9				
Sharpchin rockfish	6,418.4	0.3	215	297	473.1	0.2	115	208	19.4	0.1	190	289
	5,879.3	0.3	221	238	467.4	0.2	201	251	16.3	0.4	150	165
	5,799.4	0.2	183	277	303.5	0.3	107	69	14.8	0.4	331	161
	4,733.1	0.3	190	272	209.2	0.1	179	290	11.5	0.2	196	270
	2,574.2	0.3	210	271	93.8	0.2	167	254	11.5	0.3	241	252
	2,340.7	0.2	147	269	55.0	0.5	222	279	10.4	0.3	202	239
	1,361.2	0.2	240	300	46.4	0.2	190	250	10.3	0.1	207	296
	691.2	0.3	251	301	45.8	0.1	181	273	3.0	0.1	210	284
	592.3	0.2	188	266	31.4	0.2	140	210	2.0	0.0	182	295
Yelloweye rockfish	500.3	4.1	190	272	273.4	5.3	140	193	42.2	1.1	101	117
	339.4	2.2	115	208	87.2	2.2	215	297	0.3	0.0	63	24
Yellowmouth rockfish	2,896.0	1.8	251	301								

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Lingcod	8,671.4	7.4	56	214	302.4	7.2	221	238	168.1	4.5	179	290
	726.2	9.1	64	258	281.6	7.8	196	270	141.5	3.6	222	279
	661.8	13.7	72	175	265.5	6.6	123	291	102.9	2.0	115	208
	614.1	8.8	160	267	258.6	6.8	207	296	98.0	2.5	102	261
	516.7	12.3	188	266	256.8	6.1	171	281	52.6	1.4	130	259
	475.6	6.3	76	237	253.6	6.4	215	297	51.9	1.4	196	287
	334.4	8.1	202	239	246.5	6.4	167	254				
	316.0	7.7	125	288	200.8	4.5	182	295				
Pacific herring	560.6	0.1	95	257	32.6	0.2	192	249	11.3	0.3	153	187
	210.6	0.1	110	293	25.1	0.1	194	262	11.0	0.1	31	185
	173.7	0.2	172	248	24.2	0.1	115	292	6.6	0.1	198	294
	91.7	0.0	52	268	18.8	0.2	226	256	5.5	0.1	92	230
	71.7	0.1	64	244	16.9	0.2	145	178	4.0	0.0	45	245
	42.1	0.1	86	226	15.1	0.1	130	260	2.9	0.1	89	43
	40.6	0.1	196	287	13.5	0.1	64	258				
Atka mackerel	257.8	1.3	102	97	81.3	2.0	192	168	55.5	1.3	87	37
	234.0	1.4	194	102	68.9	1.5	116	118	51.3	1.6	130	82
	159.8	1.5	150	98	67.7	1.6	85	89	47.9	1.2	181	29
	126.2	1.5	178	103	66.6	1.6	218	85	47.6	1.1	96	39
	106.7	1.5	110	35	63.3	0.2	64	23	43.4	1.1	238	63
	92.1	0.8	146	3	55.5	1.4	189	83	39.8	1.1	277	105



Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Sharks unidentified	9,756.4	246.0	87	155	50.1	1.4	226	256				
	2,980.9	75.0	220	133	48.7	1.3	216	206				
	615.2	3.1	92	229	43.3	1.2	196	270				
	495.2	1.9	196	287	43.1	1.1	143	162				
	295.4	1.9	181	29	35.4	0.9	210	271				
	286.1	1.2	102	261	28.7	0.7	52	268				
	283.9	2.0	95	257	8.0	0.2	198	294				
	244.0	6.0	31	185	3.8	0.1	215	297				
	194.6	1.6	115	215								
	180.9	4.2	91	173								
	160.8	4.0	191	139								
	142.8	3.2	182	295								
	139.9	1.9	203	223								
	131.0	3.4	167	254								
	130.6	3.5	109	213								
	129.7	3.0	56	214								
	121.7	3.2	166	61								
	114.8	3.0	168	188								
	112.2	1.4	64	258								
	107.6	1.3	239	220								
	101.3	2.3	184	204								
	92.6	2.2	83	33								
	86.9	2.3	143	205								
	86.5	2.2	140	210								
	86.1	2.1	125	288								
	81.3	2.2	210	284								
	75.3	2.0	172	248								
	69.1	1.7	138	199								
	67.2	1.6	188	266								
	61.2	1.7	130	260								
	61.0	1.6	326	221								
	56.7	1.4	180	200								

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesterdaalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Skates unidentified	8,991.2	18.6	56	38	607.4	6.4	166	191	133.8	3.3	269	246
	4,188.7	24.2	59	106	588.4	2.1	169	263	118.3	1.4	172	177
	2,641.6	34.6	54	67	572.1	15.0	172	158	105.4	2.9	144	65
	2,342.1	8.8	78	127	567.1	6.8	188	266	104.8	2.7	130	150
	1,949.5	23.7	65	142	520.7	6.1	204	135	100.9	2.5	281	114
	1,889.4	1.3	363	91	497.1	3.8	56	214	100.0	1.3	474	166
	1,762.3	7.4	145	178	482.9	12.0	77	14	98.0	2.4	69	143
	1,597.2	42.0	122	58	459.9	5.6	289	198	95.1	1.0	181	196
	1,567.2	40.0	43	50	434.8	9.6	138	147	93.8	2.2	190	122
	1,444.7	18.2	220	133	433.3	10.8	87	123	86.0	2.2	183	277
	1,415.2	7.0	31	185	428.5	9.6	182	295	85.0	2.1	180	200
	1,266.3	13.0	69	137	425.2	5.1	178	103	81.2	2.1	194	262
	1,232.2	15.4	33	154	423.7	3.8	245	247	72.6	1.9	113	140
	1,151.2	28.2	106	232	391.6	9.0	192	249	65.8	1.0	397	276
	1,123.9	9.0	136	141	384.2	9.7	138	87	63.5	1.6	87	155
	1,039.8	26.4	65	78	377.7	9.8	168	286	59.8	1.3	123	130
	1,015.9	30.0	79	159	371.6	9.3	223	253	58.1	1.5	326	241
	1,005.3	13.5	109	213	368.6	8.7	76	151	57.4	0.7	151	77
	995.0	11.4	253	217	355.3	8.7	182	120	55.7	1.6	142	70
	984.6	4.1	191	139	338.1	6.7	211	1	55.2	1.4	179	242
	964.1	8.3	244	96	323.8	8.6	172	248	53.1	1.4	76	237
	851.1	6.8	93	231	316.1	2.8	196	287	40.0	0.9	375	280
	792.2	19.6	187	121	303.6	8.7	160	267	37.6	0.5	282	163
	768.5	10.1	166	61	302.9	7.7	102	261	12.1	0.3	95	257
	747.4	4.5	172	136	291.6	7.9	334	302	4.0	0.1	277	105
	738.0	8.6	165	195	279.7	4.6	416	264	2.4	0.1	154	174
	734.8	9.4	140	218	266.0	8.3	130	82	0.4	0.0	149	115
	680.7	18.8	103	227	255.1	3.1	384	211	0.3	0.0	157	22
	635.4	15.5	250	100	254.1	6.5	64	244	0.2	0.0	212	15
	634.0	3.5	190	131	243.8	3.0	197	99	0.1	0.0	276	209
	627.2	14.7	70	186	235.3	5.7	202	239				
	614.9	7.7	76	190	227.4	5.6	88	19				
	2.3	0.0	168	188	202.3	4.9	320	275				
	1.8	0.0	170	201	195.5	5.3	157	167				
	1.3	0.0	140	210	190.9	4.6	137	207				
	1.0	0.0	151	197	181.7	2.2	345	104				
	1.0	0.0	143	202	151.9	4.5	86	226				
	0.7	0.0	65	134	136.4	3.1	34	243				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesterdaalen.

Species	Average				Average				Average				
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	
Broad tanner crab	182.8	0.4	220	133	10.7	0.1	87	129	1.3	0.0	226	256	
	137.8	0.3	190	131	7.5	0.1	238	124	1.2	0.0	132	56	
	119.1	0.3	182	120	5.3	0.0	138	147	0.9	0.0	137	207	
	94.0	0.2	204	135	4.0	0.0	31	126	0.9	0.0	92	229	
	64.0	0.5	118	149	3.8	0.1	190	138	0.8	0.0	142	70	
	41.8	0.1	145	178	3.2	0.0	144	65	0.7	0.0	170	201	
	38.8	0.5	276	113	3.1	0.0	276	212	0.4	0.0	126	145	
	26.5	0.2	172	136	2.7	0.0	65	78	0.4	0.0	96	80	
	23.2	0.1	191	139	2.0	0.1	282	163	0.3	0.0	244	96	
	22.4	0.3	66	125	1.7	0.0	289	198	0.2	0.0	77	14	
	19.4	0.5	281	114	1.5	0.0	181	273	0.0	0.0	179	242	
	12.8	0.0	130	150	1.4	0.0	140	218					
	11.1	0.0	151	77	1.3	0.0	144	75					
	Ocean pink shrimp	1,170.0	0.0	198	294	11.4	0.0	241	252	1.3	0.0	178	103
184.4		0.0	182	295	8.9	0.0	171	281	1.1	0.0	179	290	
63.1		0.0	194	262	8.8	0.0	177	225	1.1	0.0	103	227	
59.6		0.0	168	286	3.4	0.0	190	250	0.9	0.0	138	282	
57.3		0.0	196	287	3.3	0.0	245	299	0.7	0.0	87	129	
50.8		0.0	167	254	3.0	0.0	201	251	0.6	0.0	95	257	
46.3		0.0	226	256	2.8	0.0	210	284	0.6	0.0	181	273	
16.2		0.0	209	285	2.1	0.0	115	215	0.3	0.0	182	120	
12.9		0.0	130	259	1.5	0.0	163	274	0.3	0.0	123	130	
11.6		0.0	240	300	1.4	0.0	196	270	0.1	0.0	334	302	
Spot shrimp		72.2	0.1	320	275	17.7	0.0	196	270	3.5	0.1	188	266
		70.4	0.1	215	297	12.3	0.0	222	279	3.2	0.1	397	276
	40.2	0.1	240	300	10.5	0.1	190	250	2.8	0.0	210	271	
	30.0	0.0	183	277	9.4	0.1	207	296	2.5	0.1	181	273	
	22.5	0.1	251	301	8.0	0.1	190	289	1.7	0.0	334	302	
	22.2	0.0	179	290	7.5	0.1	182	295	1.5	0.0	190	272	
	20.9	0.0	245	299	4.6	0.1	177	225					
	18.2	0.0	201	251	4.4	0.1	267	283					

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesterdaalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Northern pink shrimp	281.1	0.0	191	139	5.3	0.0	218	85				
	250.3	0.0	190	138	5.3	0.0	203	223				
	223.1	0.0	145	178	5.2	0.0	175	224				
	189.8	0.0	289	198	2.5	0.0	148	228				
	170.9	0.0	190	131	2.0	0.0	211	1				
	132.1	0.0	204	135	2.0	0.0	144	75				
	124.8	0.0	253	217	1.8	0.0	189	83				
	112.8	0.0	190	122	1.7	0.0	172	177				
	103.5	0.0	182	120	1.6	0.0	91	51				
	95.2	0.0	93	231	1.5	0.0	96	80				
	90.3	0.0	153	187	1.3	0.0	168	188				
	66.5	0.0	183	233	1.3	0.0	238	124				
	66.2	0.0	187	121	1.0	0.0	140	193				
	52.3	0.0	220	133	1.0	0.0	197	99				
	43.5	0.0	140	218	0.8	0.0	178	103				
	36.1	0.0	118	149	0.6	0.0	192	249				
	30.8	0.0	185	216	0.5	0.0	202	101				
	30.4	0.0	172	136	0.4	0.0	128	236				
	27.4	0.0	181	196	0.3	0.0	250	100				
	26.7	0.0	106	232	0.3	0.0	132	171				
	23.4	0.0	151	77	0.3	0.0	103	227				
	20.7	0.0	187	222								
	18.7	0.0	197	189								
	17.9	0.0	138	76								
	16.0	0.0	159	86								
	15.4	0.0	115	215								
	12.9	0.0	165	195								
	12.2	0.0	92	230								
	9.3	0.0	139	55								
	8.8	0.0	144	65								
8.7	0.0	239	220									
7.3	0.0	251	169									
7.1	0.0	154	174									
6.6	0.0	179	242									
6.6	0.0	244	96									
5.6	0.0	138	147									
5.4	0.0	109	213									

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the F/V Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Sidestripe shrimp	189.8	0.0	289	198	19.9	0.0	239	220	5.1	0.0	205	203
	164.9	0.0	204	135	19.1	0.0	148	228	4.8	0.0	314	92
	159.2	0.0	253	217	17.2	0.0	182	295	4.7	0.0	168	188
	158.7	0.0	220	133	16.3	0.0	177	225	4.5	0.0	183	233
	148.1	0.0	194	262	16.1	0.0	203	223	4.5	0.0	191	139
	144.9	0.0	198	294	14.4	0.0	278	234	4.4	0.0	245	247
	134.0	0.0	190	122	14.4	0.0	175	224	4.3	0.1	165	195
	116.0	0.0	190	138	14.2	0.0	197	189	4.3	0.0	277	105
	99.5	0.0	276	113	12.8	0.0	250	100	3.7	0.0	168	286
	93.6	0.0	196	287	12.8	0.0	326	241	3.5	0.0	282	84
	83.8	0.0	244	96	12.4	0.0	180	200	3.0	0.0	226	256
	63.6	0.0	172	248	10.5	0.0	187	121	3.0	0.0	241	252
	58.6	0.0	281	114	8.6	0.0	334	302	2.9	0.0	179	242
	49.2	0.0	238	124	7.2	0.0	172	136	2.6	0.0	130	259
	46.9	0.0	185	216	7.2	0.0	326	221	1.1	0.0	210	271
	41.8	0.0	260	235	6.9	0.0	320	156	1.0	0.0	289	71
	35.7	0.0	216	206	6.5	0.0	187	222	0.6	0.0	276	209
	34.3	0.0	190	131	6.5	0.0	140	218	0.4	0.0	137	207
	31.2	0.0	182	120	6.3	0.0	269	246	0.3	0.0	251	169
	22.8	0.0	276	212	5.5	0.0	170	201	0.2	0.0	223	253
20.2	0.0	282	163	5.3	0.0	331	161	0.1	0.0	223	30	
Humpy shrimp	115.4	0.0	184	204	9.7	0.0	143	205	5.4	0.0	143	202
	17.2	0.0	216	206	8.6	0.0	205	203	2.8	0.0	137	207
Weathervane scallop	32.9	0.4	88	47	11.5	0.3	87	129	4.3	0.1	109	213
	29.2	0.2	64	244	10.6	0.3	221	238	4.1	0.1	126	145
	19.5	0.3	76	237	6.8	0.2	130	260	3.5	0.1	64	258
	19.3	0.5	66	125	4.8	0.1	56	214				

Species catch distribution and abundance during the NMFS 1996 Triennial Gulf of Alaska bottom trawl survey by the FV Vesteraalen.

Species	Average				Average				Average			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Gear depth (m)	Haul
Chlamys rubida	20.5	0.0	91	173	7.9	0.0	46	44	3.7	0.0	89	95
	16.7	0.0	91	74	7.7	0.0	76	36	2.6	0.0	90	34
	12.0	0.0	92	54	7.0	0.0	76	68	1.5	0.0	53	42
	11.6	0.0	102	97	5.7	0.0	96	80	1.2	0.0	150	98
	11.6	0.0	95	90	5.0	0.1	211	1	0.9	0.0	93	94
	11.0	0.0	75	73	4.6	0.0	110	81	0.7	0.0	144	75
	8.8	0.0	78	6	4.2	0.1	65	66	0.7	0.0	85	89
	8.4	0.0	87	123	4.2	0.1	83	33				
Red squid	1,075.7	0.3	320	156	103.2	0.5	172	136	23.4	0.2	110	35
	1,070.1	0.2	314	92	100.2	0.1	289	71	19.4	0.5	278	234
	539.0	0.4	375	280	97.2	0.1	276	212	17.9	0.5	245	299
	480.2	0.7	281	114	72.2	0.2	220	133	17.5	0.4	345	104
	344.2	0.8	276	113	71.2	0.3	171	281	17.3	0.1	334	302
	338.7	0.2	282	163	69.4	0.2	326	221	17.0	0.5	251	169
	327.6	0.3	404	93	66.6	0.9	196	287	12.3	0.3	439	59
	233.2	0.2	331	9	57.2	0.2	330	32	12.3	0.0	384	211
	203.0	0.1	416	264	52.6	0.3	414	31	10.1	0.1	238	63
	186.1	0.1	453	265	48.7	0.6	197	189	9.6	0.2	210	271
	154.9	0.2	190	131	48.2	0.2	237	17	6.7	0.1	140	218
	153.0	0.2	205	16	46.5	0.2	263	57	5.4	0.1	157	22
	141.4	0.3	304	11	44.1	0.2	479	72	4.2	0.1	112	12
	136.6	0.2	212	15	29.7	0.2	65	134	3.1	0.1	69	137
	132.2	0.4	474	166	29.7	0.3	157	167	3.0	0.0	238	124
	130.9	0.2	289	198	28.9	0.1	320	275	1.6	0.0	205	203
	125.3	0.5	397	276	26.6	0.1	138	199	0.9	0.0	276	209
	120.1	0.2	402	10	25.6	0.3	222	279	0.3	0.0	204	135
	105.9	0.4	253	217	24.1	0.7	260	235				
Octopus unidentified	858.0	21.4	63	24	25.5	0.7	160	267	0.5	0.0	198	294
	443.2	9.1	69	137	2.8	0.1	334	302				
	25.9	0.7	479	72	0.7	0.0	245	299				

**APPENDIX**

**Trawl Specifications and Diagrams**

## POLY-NOREASTERN

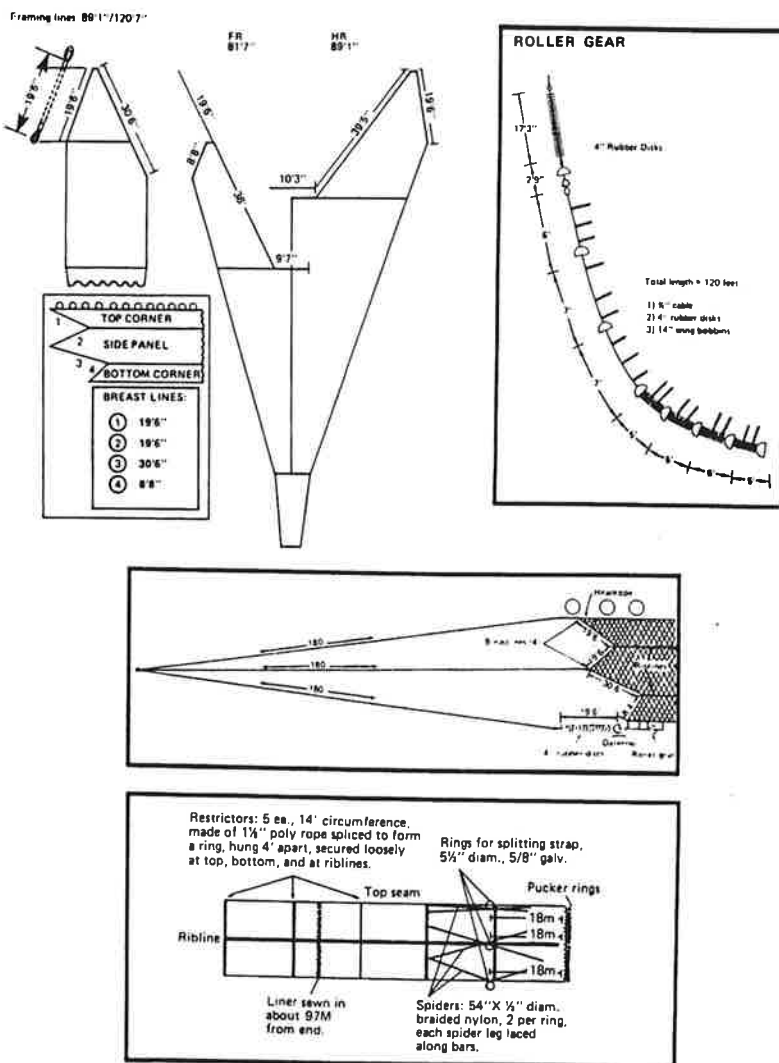


Figure A.--Schematic diagram of the 90-105' polyethylene Nor'eastern bottom trawl, roller gear and accessory gear used during the Gulf of Alaska bottom trawl survey from 18 May to 31 July 1996.