



**Alaska  
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Center**

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## **AFSC PROCESSED REPORT 96-02**

**Report to Industry: Fishing Log  
for the 1994 Bottom Trawl Survey  
of the Aleutian Islands**

February 1996

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REPORT TO INDUSTRY: FISHING LOG FOR THE 1994  
BOTTOM TRAWL SURVEY OF THE ALEUTIAN ISLANDS

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## Contents

	Page
Introduction.....	1
Methods.....	1
Vessels and Gear Characteristics.....	2
Survey Design and Operations.....	3
Results.....	4
Organization of Report and Data Standardizations.....	5
Section 1. Fishing log for the <u>Vesteraalen</u>	
Station charts.....	9
Summary listings of species catches by haul.....	17
Summary listings of catch rates by species.....	37
Section 2. Fishing log for the <u>Pacific Knight</u>	
Station charts.....	65
Summary listings of species catches by haul.....	73
Summary listings of catch rates by species.....	95
Appendix Trawl specifications and diagrams.....	121

## INTRODUCTION

The fifth triennial bottom trawl survey of the Aleutian Islands and southern Bering Sea region was completed during the summer of 1994 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 in the Aleutian Islands area. Previous surveys in this series were conducted in 1980, 1983, 1986 and 1991.

Historically, the Aleutian Islands have been important fishing grounds for a variety of groundfish species including Pacific ocean perch (Sebastes alutus), Atka mackerel (Pleurogrammus monopterygius), walleye pollock (Theragra chalcogramma), Pacific cod (Gadus macrocephalus), Pacific halibut (Hippoglossus stenolepis), sablefish (Anaplopoma fimbria), rockfishes (Sebastes spp.) and several invertebrate groups including crabs and squid.

The Aleutian archipelago consists of 47 major islands extending westward in a 1,500 kilometer arc from the Alaska Peninsula to Attu Island. Prominent banks and reefs are located among the westernmost islands including Petrel Bank extending north from the middle of the chain at approximately 180°W long, Buldir Reef and adjacent Tahoma Reef (176°E long), and Stalemate Bank, west of Attu Island (170°E long). Sea floor bathymetry of the Aleutian region reflects a volcanic origin characterized by irregular bottom, narrow continental shelf and steep continental slope. The Aleutian Trench lying approximately 120 km south of the chain, with 4-7 thousand m depths defines the southern limit of the continental shelf and slope. The northern continental shelf and slope varies in width from 30 to 75 km and are bounded by Bowers Basin in the west and the Aleutian Basin in the east, both approximately 5,500 m in depth.

## METHODS

The survey was conducted in three 23-day legs aboard two chartered commercial trawlers, the F/V Vesteraalen and the F/V Pacific Knight from June 1 to August 9, 1994. During the survey, the F/V Vesteraalen completed 229 hauls and the F/V Pacific Knight 220 hauls. The survey area covered a portion of the southern Bering Sea, from Unimak Pass (165°W long) to the Islands of Four Mountains (170°W long), and the Aleutian Islands from 170°W long to Stalemate Bank, 170°E long (Figure 1). The

purpose of this report is to provide pertinent catch information collected by the survey vessels to the fishing industry.

### Vessels and Gear Characteristics

The Pacific Knight is 50.3 m (165 ft) in overall length, and powered by two main engines each with 1,700 continuous horsepower. During survey trawling, a single engine was sufficient to pull the trawl. The Vesteraalen is 38.7 m (127 ft) in overall length and powered by a single main engine of 1,700 continuous horsepower. Each vessel's deck machinery includes paired hydraulic trawl winches. The quantity of trawl cable contained on each winch drum was 1,645 m (900 fm) of 2.2 cm (1 inch) diameter on the Pacific Knight and 463 m (800 fm) of 1.91 cm (3/4 inch) diameter on the Vesteraalen. Both vessels have two hydraulic net reels (one mounted over the stern ramp and one forward on the main deck). Two articulating hydraulic cranes are used for handling catches and gear on the Pacific Knight and one is used on the Vesteraalen. The navigating equipment for both vessels includes Global Positioning Systems (GPS), Loran C receivers with converters for geodetic positions and Loran C video-plotters. Other electronics includes color video fish finders, depth profilers and net sonde units.

Both vessels used standard RACE Division poly-Nor' eastern high opening bottom trawls rigged with roller gear. 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, attached to a Bolsh Line composed of longlink alloy chain 24.3 m (79 ft-7 in) long and 1.3 cm (1/2 in) in diameter. The footrope is 24.9 m (81 ft-7 in), 1 cm (3/8 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 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 5.9 m (19 ft-6 in) 1.91 cm (3/4 in) diameter wire rope extensions, threaded through 10.16 cm (4 in) & 20 cm (8 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 mesh liner is constructed of number 18 nylon twine stretched to a diameter of 3.2 cm (1-1/4 in). The codend is 110 meshes in circumference and 100 meshes deep. Net accessory gear includes 54.9 m (180 ft), 1.6 cm (5/8 in) diameter galvanized triple dandy lines rigged with 45.7 cm (18 in) chain extensions connected to the headrope and 22.9 cm (9 in) extensions to the side panels. Steel V-doors used are 1.8 m X 2.7 m (6 X 9 ft) weighing approximately 800 kg (1,800 lb) each.

A <sup>1</sup>SCANMAR net mensuration system consisting of a headrope unit and two wing units acoustically linked to an onboard 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 5.6 km (3 nautical miles) per hour.

### Survey Design and Operations

The stratified random survey design used since 1983 was modified in 1994 to conform to a redefinition of management areas by the North Pacific Fisheries Management Council. The 1994 survey area was divided into the Eastern (170°W long.-177°W long.), Central (177°E long.-177°W long.), and Western (170°E long.-177°E long.) Aleutian management areas and the Southern Bering Sea (165°W long.-170°W long.), Figure 1. The four areas were subdivided into 52 total sampling strata according to geographical areas and the 100 m, 200 m, 300 m and 500 m depth intervals. Sampling was limited to depths of less than 500 m.

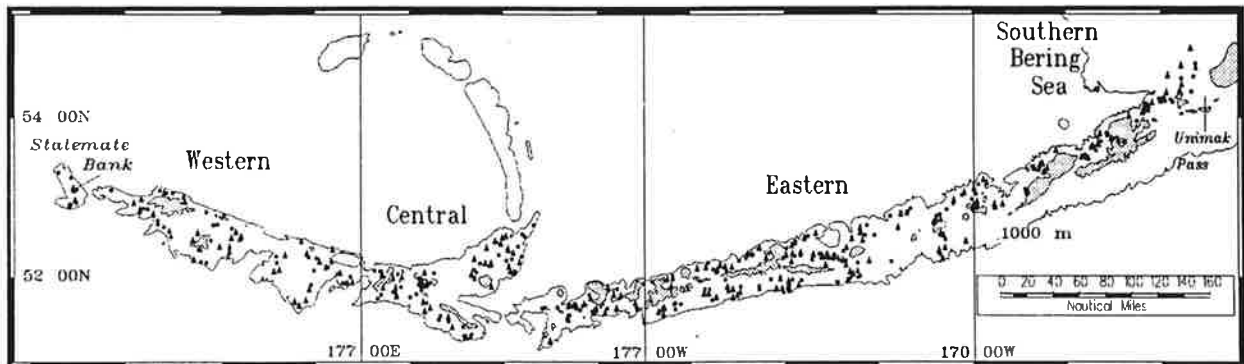


Figure 1. --Total survey stations attempted during the NMFS triennial Aleutian Islands bottom trawl survey, 1 June to 9 August 1994.

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

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

echo sounder were considered and not the presence or absence of fish sign. Each survey station's on bottom trawling duration was scheduled for one-half hour, however in cases where there was not enough trawlable bottom for a full one-half hour tow, shorter tows were completed. Attempts were made to maintain constant bottom depths and towing speeds.

Catches weighing less than approximately 1,000 kg were completely sorted to species and weighed. Larger catches were split to obtain a representative sample of approximately 1,000 kg. Biological data collected included numbers of individuals, length and weight distributions, age structures, sexual maturities and special collections of stomach, tissue, whole fish and invertebrates.

Oceanographic data collected throughout the survey included water temperature profiles using Richard Branker Research Ltd. MicroBt profilers attached to the net. Additional sea surface temperatures were taken at each station using calibrated bucket thermometers.

## RESULTS

Sampling proceeded from east to west at previously selected stations at depths ranging from 16 to 476 m (9 to 260 fm). Some sampling strata were poorly sampled, due primarily to untrawlable bathymetric features, or preemption by commercial crab pots. Successful trawls were completed at 387 of the 436 stations attempted, a 14% increase over the 1991 Triennial Aleutian Islands Survey. In addition, 14 special study stations were completed during the survey. Minimal time was lost to bad weather and gear repair.

The dominant fish species are ranked by catch per unit of effort (CPUE) in Table 1, expressed as kilograms of catch per square kilometer trawled, for the four management areas and over all Aleutian areas combined. Highest in total catch abundance were Atka mackerel, Pacific ocean perch, Pacific cod, walleye pollock and northern rockfish (Sebastes polyspinis). CPUE's generally decreased from the Southern Bering Sea to Stalemate Bank for cod, pollock, Pacific halibut, Greenland turbot (Reinhardtius hippoglossoides), and arrowtooth flounder (Atheresthes stomias). Conversely, the catch rates of the major rockfish species increased from east to west across the total survey area. The most dominant species in four of the five areas was Atka mackerel with a total Aleutian areas catch rate of nearly 11,000 kg/km<sup>2</sup>, followed by Pacific ocean perch 7,500 kg/km<sup>2</sup>, Pacific cod 2,600 kg/km<sup>2</sup>, walleye pollock 1,500 kg/km<sup>2</sup>



and northern rockfish 1,400 kg/km<sup>2</sup>.

Sea surface temperatures were collected at most survey stations and ranged from 4.1°C to 8.9°C. Sea bottom temperatures from 436 stations, ranged from 3.3°C to 6.2°C.

#### ORGANIZATION OF REPORT AND DATA STANDARDIZATIONS

This report focuses on the catch data collected at individual stations and includes information for the principal species encountered during the survey. The fishing results are presented in Section 1 for the Vesteraalen and Section 2 for the Pacific Knight. 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. Hauls without catches are omitted from the listings.

Explanations of the symbols and codes appearing in the fishing logs are summarized in Table 2. The Appendix contains specifications and diagrams of the fishing gear used during the survey (Figure A).

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Table 1.-- Mean CPUE (kg/km<sup>2</sup>) by area for the most abundant fish species encountered during the NMFS 1994 triennial Aleutian Islands bottom trawl survey.

Eastern Area		Central Area		Western Area	
Species	CPUE	Species	CPUE	Species	CPUE
Atka mackerel	8,463	Pacific ocean perch	6,218	Atka mackerel	21,600
Pacific ocean perch	4,262	Atka mackerel	5,172	Pacific ocean perch	14,067
Pacific cod	2,959	Pacific cod	2,922	Northern rockfish	3,997
Walleye pollock	1,509	Walleye pollock	1,972	Pacific cod	1,535
Arrowtooth flounder	1,174	Kamchatka flounder	1,691	Walleye pollock	1,011
Pacific halibut	1,130	Rock sole	1,044	Red squid	901
Giant grenadier	700	Northern rockfish	909	Rock sole	789
Kamchatka flounder	696	Arrowtooth flounder	649	Giant grenadier	700
Greenland turbot	634	Pacific halibut	628	Arrowtooth flounder	579
Rock sole	520	Shortraker rockfish	525	Shortraker rockfish	439
Shortraker rockfish	471	Giant grenadier	400	Pacific halibut	399
Rougheye rockfish	272	Greenland turbot	249	Shortspine thornyhead	300
Northern rockfish	235	Rougheye rockfish	238	Alaska skate	300
Yellow Irish lord	200	Alaska skate	100	Bulachon	261
		Sablefish	119	Kamchatka flounder	227
Number of hauls	133	Number of hauls	114	Number of hauls	70
Southern Bering Sea Area			All Aleutian Areas		
Species	CPUE	Species	CPUE	Species	CPUE
Atka mackerel	8,998	Atka mackerel	10,942	Atka mackerel	10,942
Walleye pollock	6,278	Pacific ocean perch	7,420	Pacific ocean perch	7,420
Pacific cod	4,624	Pacific cod	2,574	Pacific cod	2,574
Pacific ocean perch	2,426	Walleye pollock	1,515	Walleye pollock	1,515
Arrowtooth flounder	2,172	Northern rockfish	1,424	Northern rockfish	1,424
Pacific halibut	1,700	Kamchatka flounder	867	Kamchatka flounder	867
Rock sole	1,320	Arrowtooth flounder	862	Arrowtooth flounder	862
Flathead sole	1,036	Pacific halibut	789	Pacific halibut	789
Greenland turbot	615	Rock sole	746	Rock sole	746
Kamchatka flounder	546	Giant grenadier	600	Giant grenadier	600
Rex sole	224	Shortraker rockfish	479	Shortraker rockfish	479
Shortraker rockfish	172	Greenland turbot	396	Greenland turbot	396
Northern rockfish	115	red squid	244	red squid	244
Rougheye rockfish	114	Rougheye rockfish	241	Rougheye rockfish	241
Yellow Irish Lord	100				
Number of hauls	69	Number of hauls	317	Number of hauls	317

Table 2.--Definitions of labels used in the fishing logs of the NMFS 1994 triennial Aleutian Islands bottom trawl survey.

Gear Depth-	meters
Duration of tow-	tenths of an hour (standard tow is one-half hour)
Distance fished-	nautical miles
Gear performance-	<p>0 = satisfactory</p> <p>1 = satisfactory tow, net snagged bottom but damage and fish loss were minimal</p> <p>5 = unsatisfactory tow</p> <p>6 = unsatisfactory tow, snagged bottom</p> <p>7 = unsatisfactory tow, ripped net</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.</p> <p>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 *Vesteraalen*

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

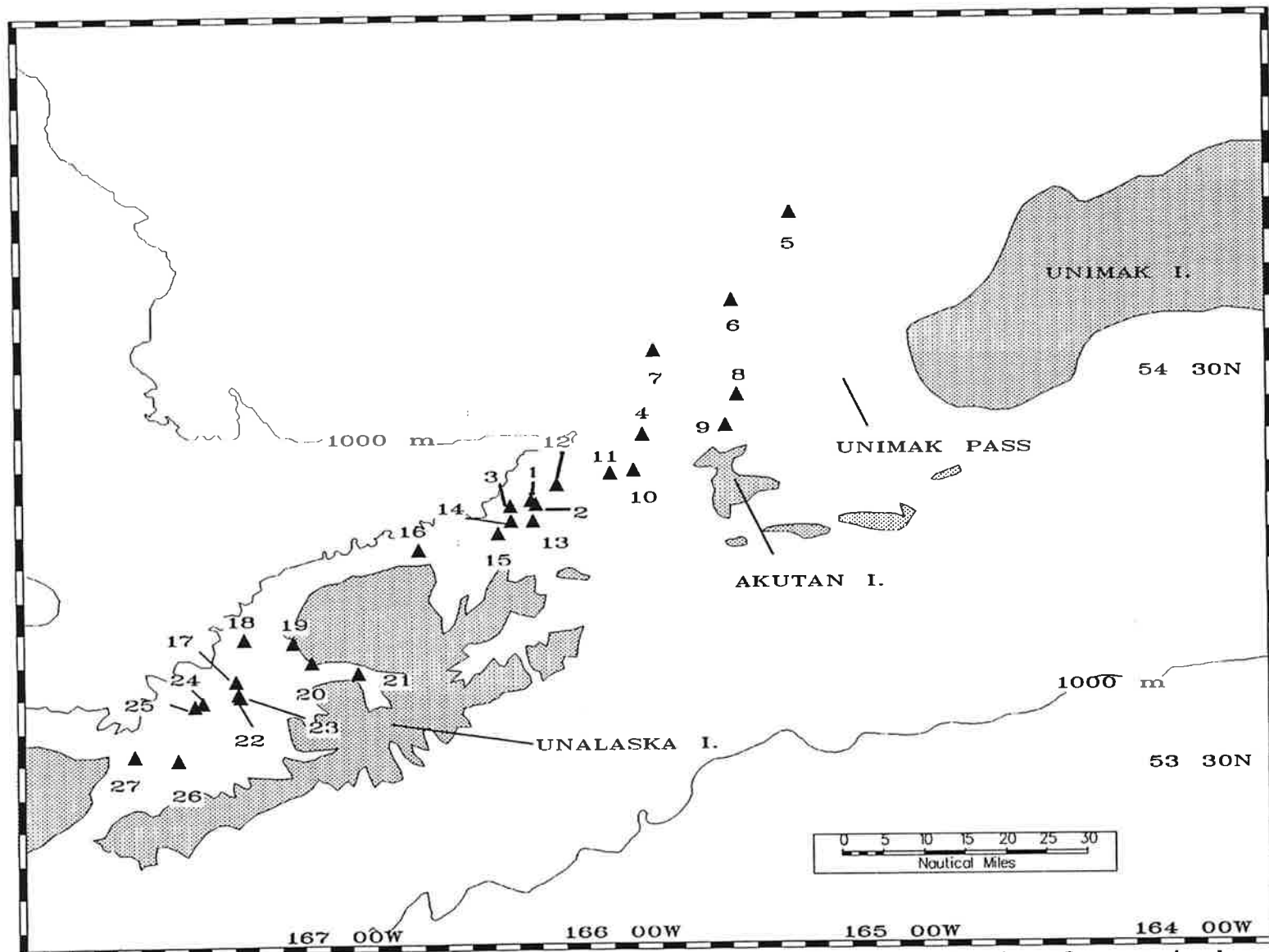


Figure 2.--Stations surveyed by the chartered trawler Vesteraalen from Unimak Island to Unalaska Island (hauls 1-27).

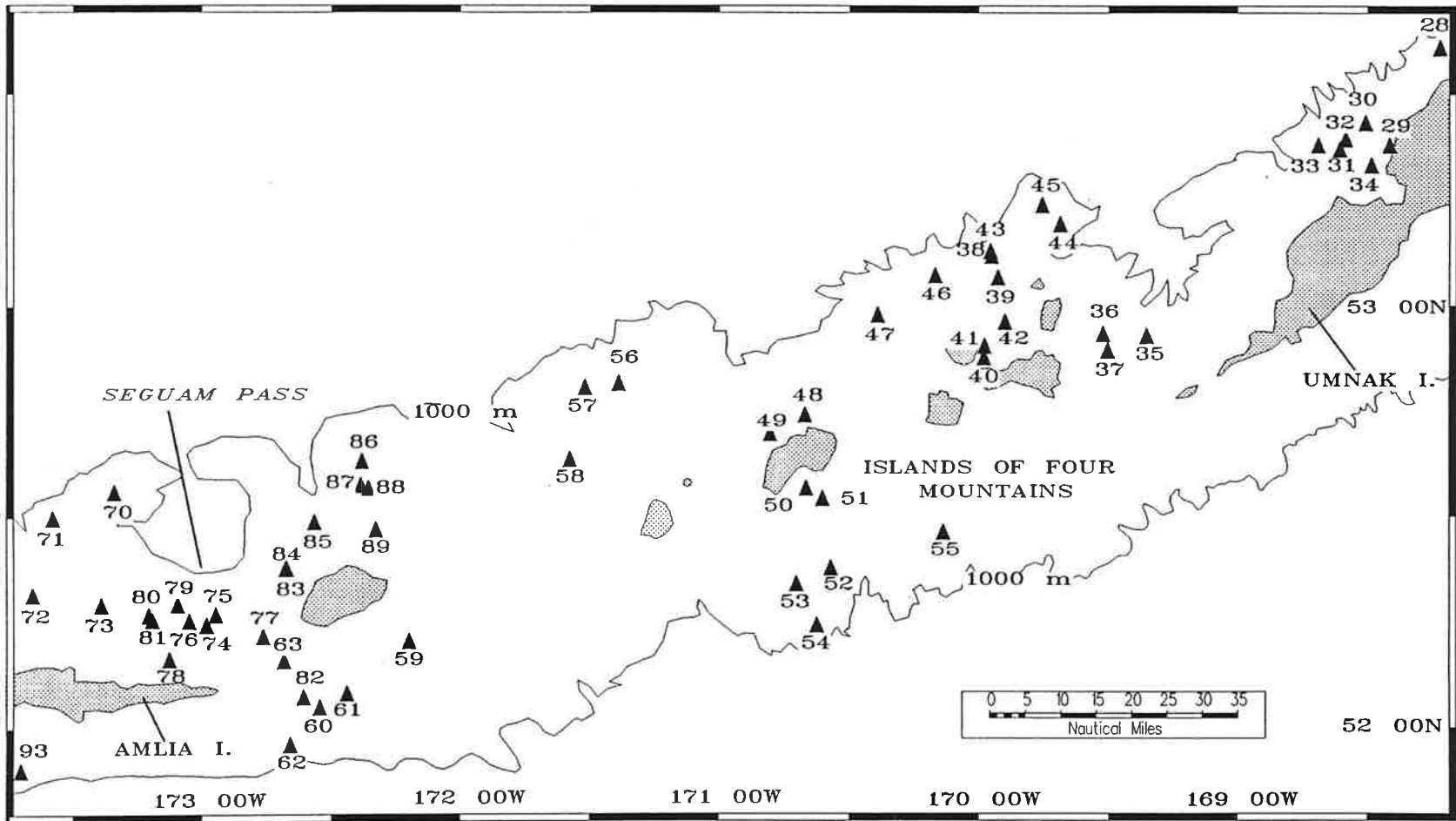


Figure 3. --Stations surveyed by the chartered trawler *Vesteraalen* from Umnak Island to Amlia Island (hauls 28-63, 70-89 and 93).

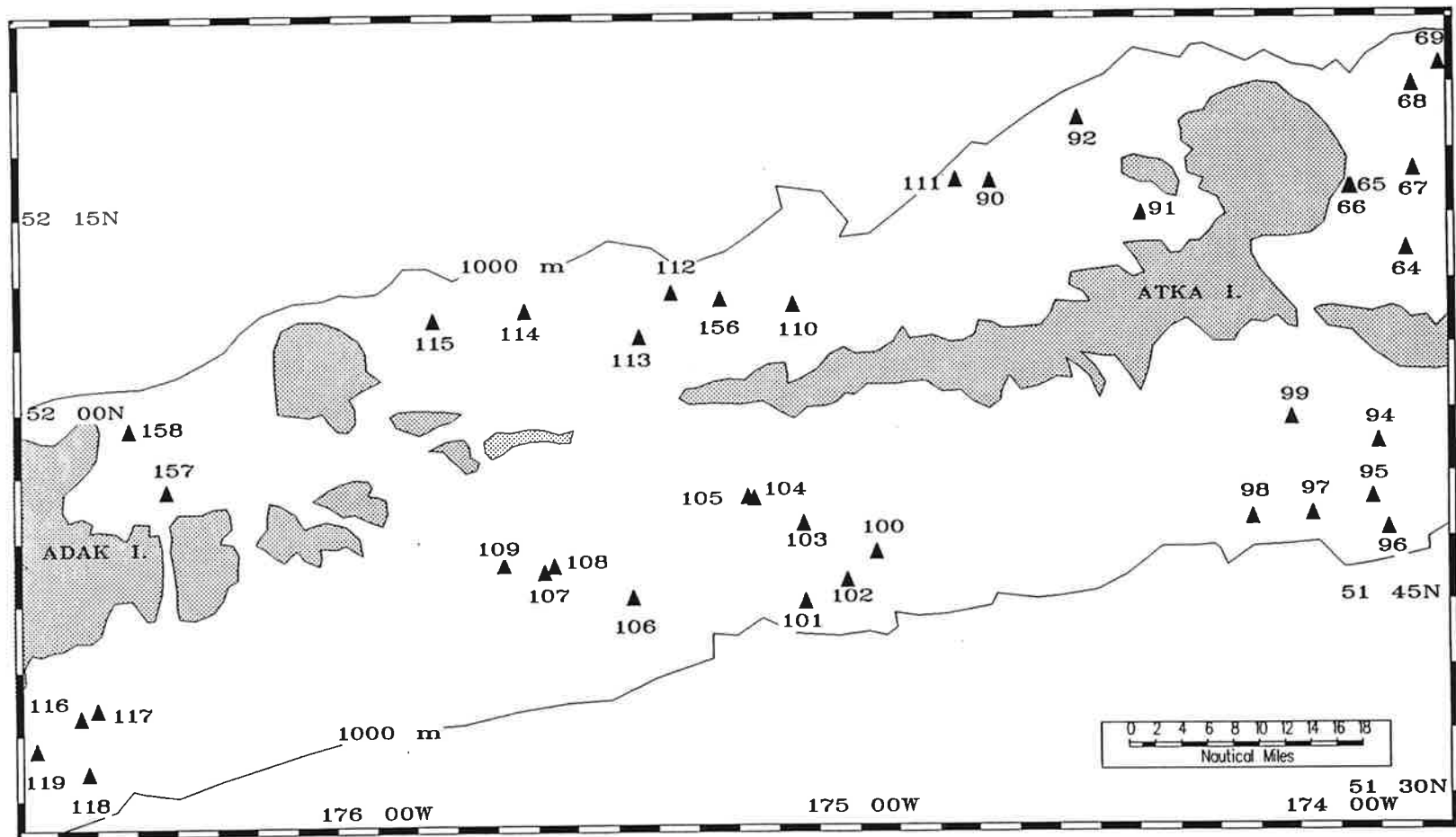


Figure 4. --Stations surveyed by the chartered trawler Vesteraalen from Atka Island to Adak Island (hauls 64-69, 90-92, 94-119, 156-158).



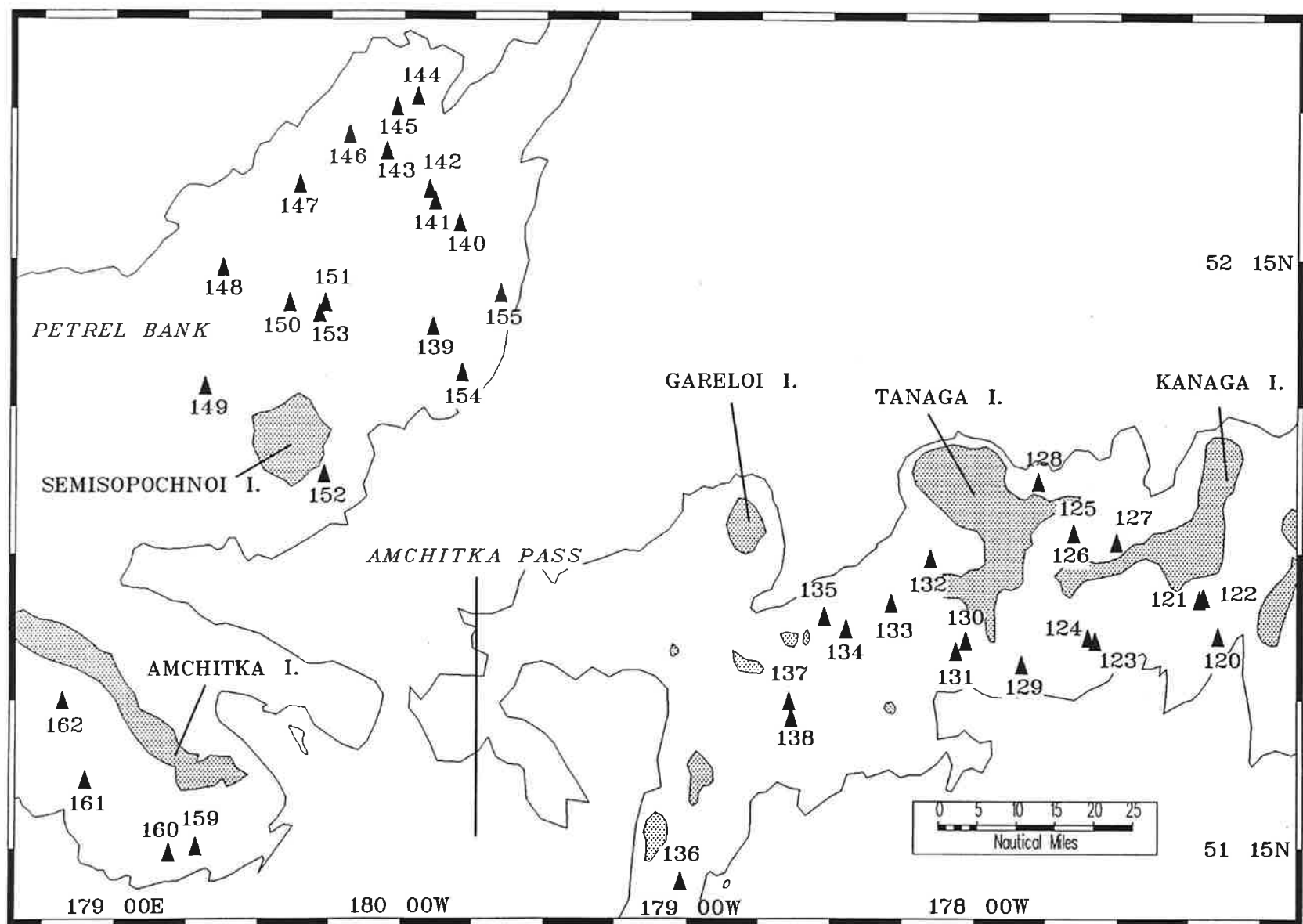


Figure 5.--Stations surveyed by the chartered trawler Vesteraalen from Kanaga Island to Amchitka Island (hauls 120-155 and 159-162).

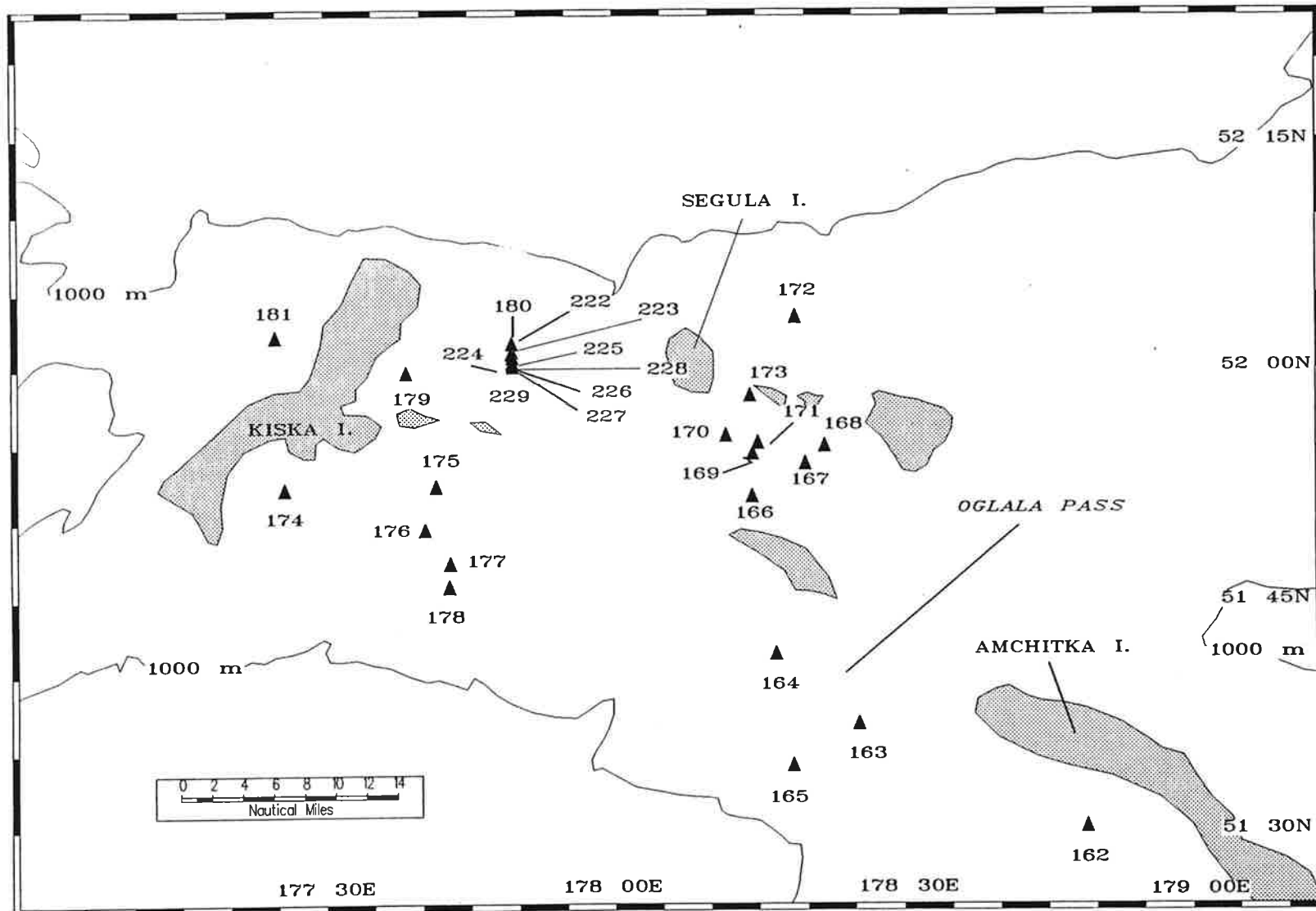


Figure 6. --Stations surveyed by the chartered trawler Vesteraalen from Amchitka Island to Kiska Island (hauls 162-181 and 222-229).

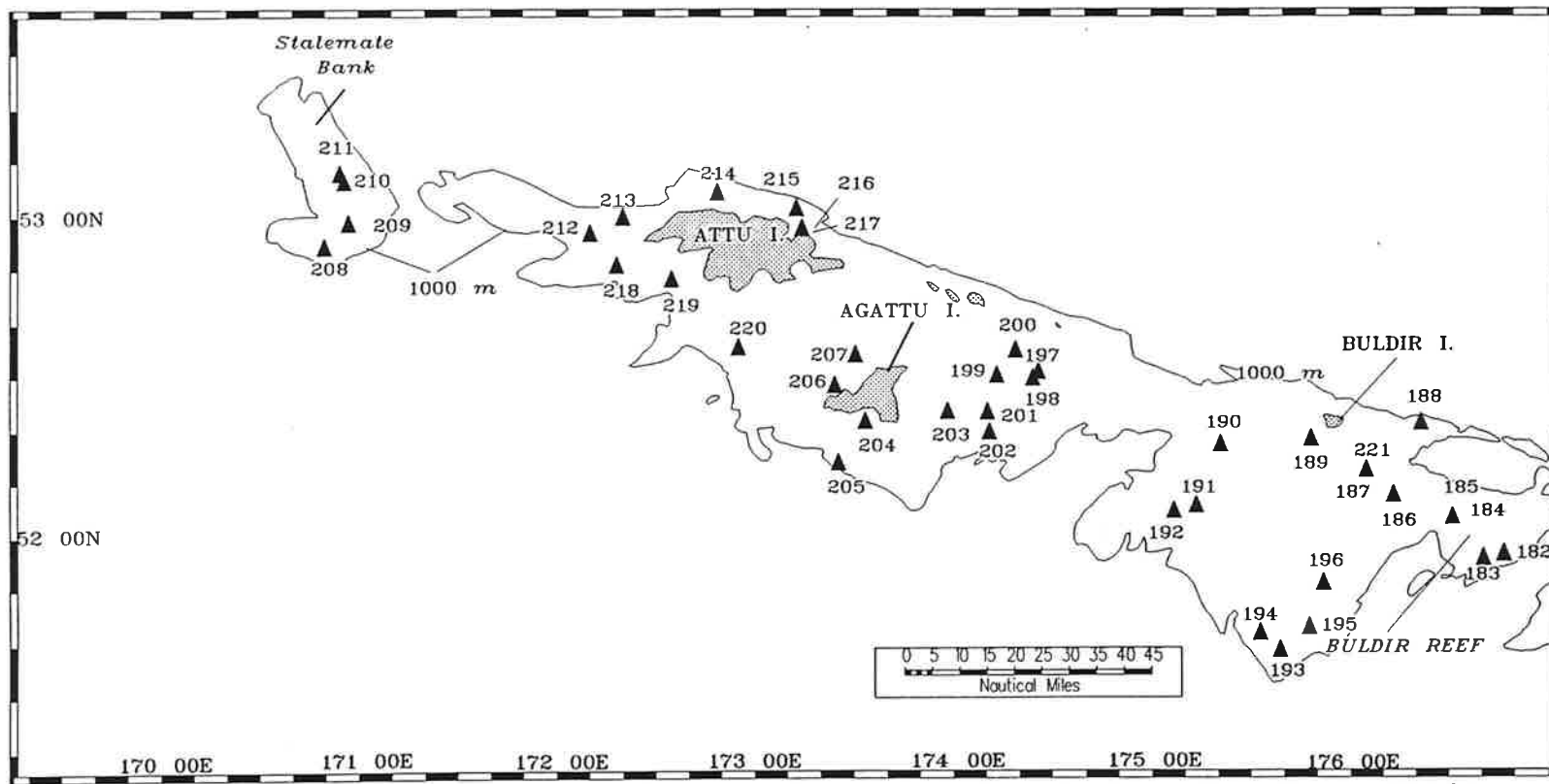


Figure 7. --Stations surveyed by the chartered trawler *Vesteraalen* from Buldir Island to Stalemate Bank (hauls 182-221).



## Section 1 (continued)

Fishing Log for the F/V *Vesteraalen*

- Summary listings of species catches by haul
  - Haul start latitude and longitude  
(E indicates east longitude, default is W)
  - Loran readings
  - 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

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	2	3	4	5	6	7	8	9
Start date & time	6/3/12	6/3/15	6/3/19	6/4/08	6/4/11	6/4/15	6/4/19	6/5/10
Start latitude	5409.2502	5409.9402	5419.83	5453.46	5440.0998	5432.5998	5425.8402	5421.1398
Start longitude	16615.6498	16619.02	16552.9602	16521.81	16534.2102	16550.5998	16533.15	16535.67
End latitude	5410.5	5409.9402	5420.6802	5453.0598	5438.5902	5431.1898	5425.4298	5420.7102
End longitude	16613.5798	16619.02	16550.82	16519.2498	16534.29	16549.0098	16534.35	16538.13
Gear depth (m)	116	155	156	124	288	436	87	76
Duration (h)	0.52	0.5	0.5	0.5	0.5	0.57	0.29	0.5
Distance fished (km)	1.75	1.54	1.51	1.54	1.51	1.69	0.81	1.53
Performance	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172
Atka mackerel	3	1.4	0	0	0	0	15620.1	4.5
Pacific cod	157	120.5	650.2	140.9	20.3	0	2713.4	1140.5
Walleye pollock	873.7	1679.5	511.9	392.7	18.5	9.8	0	926.7
Pacific ocean perch	0	188.7	11.4	0	1.6	0	24	1.7
Northern rockfish	0	0	0	0	0	0	101.2	2.9
Shortraker rockfish	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	3.6	1.5	0	0
Shortspine thornyhead	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0
Sablefish	0	3.6	0	0	0	13.5	0	0
Arrowtooth flounder	110.4	679.2	85.9	97.8	319.5	50.6	0	0.6
Pacific halibut	23.1	5.6	12.1	9.1	6.4	46.2	78.2	88.2
Rock sole	50.1	44.4	57.5	54.5	0	0	8.5	52
Kamchatka flounder	0	0	3.6	0.5	23.2	7.7	0	0
Greenland turbot	0	5.8	14	0	11.2	131.3	0	0
Flathead sole	12	25.8	5.4	33.5	70.4	55.9	2.7	0
Rex sole	2.1	145.2	64.4	18.3	54.1	3.7	0	0
Dover sole	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0
Skates	0	45.3	0	17.1	0.1	3.7	0	0
Sharks	0	0	0	0	0	0	0	0
Sculpin	30.2	9.8	7.7	9.9	14.4	0.6	12.1	32.3
Broad snow crab	0	0	0	0.1	0	0.6	0	0
True tanner crab	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0.5	0	0
Chlamys species	0	0	0	0	0	0	0	0.2
Red squid	0	0	0	0	6.4	3.2	0	0
Total catch	1274.7	2961	1425.7	778.4	554.8	496.5	18846	2454.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	10	11	12	13	14	15	16	17	18	19	20	21	22
Start date & time	6/5/13	6/5/16	6/5/18	6/6/07	6/6/09	6/6/11	6/6/18	6/7/08	6/7/10	6/7/14	6/7/16	6/7/18	6/8/07
Start latitude	5414.3502	5413.96	5412.22	5406.63	5406.6102	5404.77	5402.32	5342.57	5348.72	5348.31	5345.27	5343.55	5340.18
Start longitude	16554.96	16559.9	16611.1	16616.3	16620.86	16623.72	16640.54	16719.38	16717.9	16707.2	16703.3	16653.6	16718.5
End latitude	5413.9302	5413.23	5411.42	5407.2	5407.5198	5403.96	5402.45	5341.73	5347.84	5349.12	5346.48	5343.66	5339.85
End longitude	16552.5102	16602.1	16613.2	16613.8	16618.61	16621.62	16637.98	16720.74	16718.9	16708.3	16704.6	16656.1	16718.2
Gear depth (m)	51	66	169	84	90	79	81	88	328	33	54	187	85
Duration (h)	0.52	0.52	0.5	0.52	0.52	0.52	0.52	0.4	0.41	0.38	0.51	0.5	0.14
Distance fished (km)	1.5	1.49	1.47	1.59	1.61	1.48	1.52	1.16	1.07	1.06	1.46	1.58	0.38
Performance	0	0	0	0	0	0	0	0	0	0	0	0	5
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	2.1	0	213.2	14.6	2	0	0	0	0	0	0
Pacific cod	440.6	403.3	190.7	0	1006.9	167.6	312.4	31	34	18.5	49	34.4	0
Walleye pollock	295.3	0	1608.1	0	2.6	0	1.7	0	38.3	0	4.3	77.2	0
Pacific ocean perch	0	0	890.3	0	0	0	0.1	4.5	39.4	0	0	0	0
Northern rockfish	0	0	2.7	0	0.5	0	0.7	105.2	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	188.8	0	0	0	0
Roughey rockfish	0	0	0	0	0	0	0	0	81.4	0	0	1.4	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	31.2	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	162.2	0.5	1	0.5	20.9	13.1	72.5	0	1.2	248.3	13.6
Pacific halibut	54.8	138	37.9	201.5	195	193.6	117.7	119.5	23.1	86.6	119.3	49.4	6.9
Rock sole	226.9	109.5	12.2	8.9	111.5	95.1	77.6	84.6	0	153.6	173.3	4	51.1
Kamchatka flounder	0	0	0	0	0	0	0	0	12.7	0	0	0	0
Greenland turbot	0	0	0	0	0	0	0	0	5.6	0	0	0	0
Flathead sole	0	0	2.7	0	0	1.3	28	2.2	58.1	0	2.3	473.9	0.3
Rex sole	0	0	3.4	0	0	0	0	0.9	20.7	0	0	7	0
Dover sole	0	0	0	0	0	0	0	0	17.5	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0.6	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0.4	0
Skates	42.2	0	0	0	0	4.2	0	0	0.1	18.3	17.2	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	5	0
Sculpin	34.2	5.6	37.8	88.5	10.6	80.2	30.7	10	49.5	0	0	1	0
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	2.2	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	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	0	0	0.6	0
Chlamys species	0	0	0	4.2	0.1	4.4	0.6	0.1	0	0	0.1	0	0
Red squid	0	0	0.3	0	0	0	0	0	5.3	0	0	0	0
Total catch	1101.8	667.7	2952	341.1	1546.3	577.9	608	467.2	683.4	277.3	367.7	922.1	71.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	23	24	25	26	27	28	29	30	32	33	34	35	36	37	38
Start date & time	6/8/08	6/8/10	6/8/12	6/8/14	6/8/16	6/8/20	6/9/08	6/9/10	6/9/12	6/9/15	6/9/18	6/10/08	6/10/11	6/10/13	6/10/18
Start latitude	5340.67	5339.26	5338.84	5330.71	5331.38	5336.66	5322.92	5326.04	5323.82	5322.88	5320.09	5255.76	5256.07	5253.65	5307.19
Start longitude	16718.9	16726.4	16728.1	16731.7	16740.8	16813.2	16824.8	16830.3	16834.8	16841.1	16828.9	16921.3	16931.26	16930.3	16957
End latitude	5339.29	5337.89	5338.15	5331.61	5331.49	5335.37	5321.35	5324.94	5322.43	5322.42	5318.52	5256.7	5255.23	5254.59	5307.55
End longitude	16717.4	16727.8	16730.3	16729.7	16738.3	16814.4	16825.2	16831.8	16836	16838.7	16828.7	16919.3	16931.43	16930.5	16954.6
Gear depth (m)	85	89	115	68	99	124	16	84	95	173	78	418	227	228	255
Duration (h)	0.52	0.51	0.5	0.51	0.52	0.5	0.53	0.49	0.51	0.5	0.52	0.5	0.24	0.31	0.51
Distance fished (km)	1.62	1.59	1.46	1.5	1.49	1.49	1.58	1.43	1.56	1.52	1.57	1.52	0.85	0.95	1.53
Performance	0	0	0	0	0	0	0	0	0	0	0	0	5	1	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0	0	0	0	5.4	0	0	0	0	0	1.1
Pacific cod	2.6	0	51.3	0.1	1.4	8.3	8.5	28.6	20.7	1167.7	0	0	120.6	122.9	116.4
Walleye pollock	0	1.3	0	0	0.1	0	0	0	0.1	0	0	2.1	0	2.7	19.8
Pacific ocean perch	0	0.1	0	0	0	0	0	0	2.1	0	0	0.6	71.7	242.4	189.2
Northern rockfish	0	8.7	0	0	0	0	0	0.6	27.8	0	0	0	0	1.6	3.5
Shortraker rockfish	0	0	0	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	5.3	0	1.8	2.4
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	5.7	0	0	0
Arrowtooth flounder	29	2.9	169.2	8	8	0.6	0	0	1.9	1237.6	12.1	18.5	71.3	8.3	11.7
Pacific halibut	35.6	158.4	72.9	46.4	324.6	159.9	110.8	27.8	15.7	145.1	200.9	0	12.8	0	40.1
Rock sole	130	159.4	92.4	117.9	28.5	0	20	6.6	34.8	0	163.1	0	0	0	0
Kamchatka flounder	0	0	0	0	0	0	0	0	0	0	0	766.2	0	1	0
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0	759.3	0	0	0
Flathead sole	0.4	2.6	131.2	7.2	1.2	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	12.2	3.8	11.3	0	0	0	0	5.1	0	2	0	0	0
Dover sole	0	0	0	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	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0
Skates	0	0	0.1	0.2	0	12.2	0	0	20.9	7.4	11.1	46.1	0	0	9.3
Sharks	0	0	0	1.7	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0	0	26	1.7	8.1	1.1	0	0	2.1	10	0	4	7.4	0	3.3
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0	1.5
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlamys species	0.2	0.1	0.1	1.2	0.3	0	0	0	1.1	0.3	0.1	0	0	0	0
Red squid	0	0	0.1	0	0	0	0	0	0	0	0	2.1	0	0	0.2
Total catch	202.2	345	562.6	189.2	386.4	265.9	141.5	68.4	322	2589.9	394	1616.4	444.7	478.7	576.4



1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesterdaalen

Haul number	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Start date & time	6/10/20	6/11/08	6/11/09	6/11/11	6/11/15	6/11/21	6/12/08	6/12/11	6/12/14	6/12/17	6/12/19	6/13/07	6/13/09	6/13/11
Start latitude	5304.1	5252.68	5254.31	5257.8	5307.76	5311.72	5314.27	5304.45	5258.8	5244.55	5241.86	5234.13	5232.63	5222.73
Start longitude	16955.6	16958.8	16958.6	16953.8	16959.7	16941.14	16945.18	17009.91	17023.29	17040.11	17048.25	17039.84	17036.16	17034.24
End latitude	5302.84	0	5252.91	5259.11	0	5311.53	5313.18	5305.09	5300.11	5244.8602	5241.14	5234.69	5231.92	5224.09
End longitude	16957.1	0	16958.5	16952.6	0	16940.61	16944.32	17007.66	17022.35	17037.84	17049.57	17037.61	17038.28	17033.65
Gear depth (m)	140	62	59	122	436	431	319	174	222	171	137	88	119	367
Duration (h)	0.51	0	0.44	0.5	0	0.13	0.38	0.5	0.51	0.48	0.42	0.49	0.49	0.47
Distance fished (km)	1.56	0	1.4	1.5	0	0.39	1.21	1.51	1.42	1.42	1.07	1.48	1.47	1.4
Performance	0	5	0	0	5	5	1	1	0	0	5	0	0	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Alaska mackerel	0	17.6	0	0	0	0	1	0	0	0	0	0	1.3	0
Pacific cod	0	0	53.1	0	0	0	9.4	5.6	12.6	0	0	0.3	0	0
Walleye pollock	0	0	0	0.3	2.4	0	109.3	0	0	1.3	0	0	0	2.5
Pacific ocean perch	0	0	0	0	0.8	0	77.1	1.2	118.7	2.2	0	1.1	0	0.6
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	9.8	95.9	38.4	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	72.2	42.4	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	8.6	77.6	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	5.8	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	0	0.1	0.4	2.1	46.4	0.6	6.6	0.5	0	0	0	1
Pacific halibut	156.9	0	55.1	109.5	0	0	13.3	83.5	38.4	125	126.6	102.2	516.9	0
Rock sole	0	0	36.2	0.8	0	0	0	0	0.8	0	0	0.9	0.2	0
Kamchatka flounder	0	0	0	0	0	6	5.8	0	0	0	0	0	0	0
Greenland turbot	0	0	0	0	22.8	74.2	7.7	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0
Dover sole	0	0	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	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	6.5	0	0	0	0	0.9	2.6	37.3	23.2	24.1	12.2	6.1	75.6	14.5
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0	0	7.8	0.5	1.8	4	30.7	4.6	1.5	0.6	0	5.9	0.7	0.6
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	1.2	1.6	4.6	1	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
Chlamys species	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	1.3	1.5	14.1	0	0	0	0	0	0	0.5
Total catch	163.5	77.8	156.9	191.6	82.8	286.3	486.3	359.3	221.9	183.3	148	738.8	644.4	27.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	53	54	55	56	57	58	59	60	61	62	63	64	65
Start date & time	6/13/14	6/13/16	6/13/20	6/14/07	6/14/09	6/14/13	6/14/20	6/15/07	6/15/10	6/15/13	6/15/15	6/16/08	6/16/11
Start latitude	5220.56	5214.73	5227.8598	5249.13	5248.49	5238.3	5212.48	5203.09	5204.9902	5157.8	5209.7	5212.2502	5217.05
Start longitude	17042.18	17037.39	17008.07	17123.36	17131.14	17134.69	17211.73	17232.64	17226.35	17239.46	17241.05	17351.36	17358.15
End latitude	5220.43	5216.01	5229.2698	5248.65	5249.17	5236.75	5213.4298	5204.36	5205.91	5157.85	5208.98	5211.8302	5218.32
End longitude	17039.5	17036.12	17008.87	17121	17129.12	17133.73	17213.54	17233.91	17224.75	17238.57	17238.95	17353.28	17357.16
Gear depth (m)	224	239	188	157	198	458	360	139	156	207	147	162	72
Duration (h)	0.53	0.53	0.52	0.51	0.46	0.54	0.49	0.5	0.5	0.42	0.5	0.44	0.5
Distance fished (km)	1.64	1.49	1.49	1.51	1.4	1.66	1.46	1.49	1.35	1.24	1.48	1.25	1.41
Performance	0	1	0	0	0	0	0	0	0	5	1	0	5
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0	0	0	4.5	61.7	1.9	7476.8	0	0
Pacific cod	1.7	13.2	66.5	128.1	192.5	0	13.4	1168	115.2	4.5	4593.5	59.4	47.5
Walleye pollock	3.2	1.2	0	0.1	0	0	187.4	1.4	0	3.1	44	39.6	3.4
Pacific ocean perch	54.7	100.9	0	2	0	1.7	4.6	4.9	166.6	72.2	0	0	0
Northern rockfish	0	0	0	6	0	0	0	56	3	0	0	0	0.5
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0.8	0.5	0	0	0	4.3	14.7	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	11.5	0	0	0	0	0	0	0
Arrowtooth flounder	385.6	0	5.6	0	0	2.4	37.6	0.4	0	0	0	310.7	0
Pacific halibut	31.3	0	91.1	310.7	636.6	33.7	107	127.3	263.1	17.1	100.3	100.6	46.9
Rock sole	0	0	0	0	0	0	2.7	22.7	34.8	0	213	0	238.7
Kamchatka flounder	2.1	0	0	0	0	7.4	65.5	0	0	0	0	2.7	0
Greenland turbot	0	0	0	0	0	19.1	106.3	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0.9	0	0	0	0	0	159.6	0
Rex sole	0	0	0	0	0	0	1	0	0	0	0	6.1	0
Dover sole	0	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	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	7.3	9.2	7.2	46	47.4	10.2	61.3	7.2	21.8	8.8	174.5	0	16.2
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	1.2	11	1.3	1.9	0.9	0	14.7	73	16.4	5.7	660.9	7.7	61.1
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0.1	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	1.1	0	1.6	1.2	1.8	0.1	0.6	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Chlamys species	0	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	0.4	0	0	0	0	0	0.9	0	0	0	0	0	0
Total catch	492.7	142	238.4	743.8	974.6	105.1	677	1474.5	808.2	136.5	13263	689.6	423.3

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesterdaalen

Haul number	66	67	68	69	70	71	72	73	74	75	76	77	78
Start date & time	6/16/13	6/16/15	6/16/17	6/16/19	6/17/08	6/17/12	6/17/16	6/17/21	6/18/07	6/18/10	6/18/13	6/18/15	6/18/18
Start latitude	5217.0502	5218.3702	5224.84	5226.4798	5233.67	5229.96	5219.03	5217.63	5214.76	5216.2	5215.33	5213.09	5209.89
Start longitude	17358.38	17350.47	17350.54	17347.19	17320.36	17334.62	17339.23	17323.27	17258.85	17256.79	17302.86	17245.53	17307.59
End latitude	5218.3798	5219.7298	5224.57	5226.13	5233.74	5229.07	5218.47	5217.45	5215.11	5216.2	5215.4	5213.25	5210.19
End longitude	17357.32	17349.55	17348.14	17344.82	17317.97	17336.33	17337.26	17320.99	17301.18	17254.27	17300.39	17246.12	17305.33
Gear depth (m)	66	105	125	246	213	232	411	360	132	239	144	148	85
Duration (h)	0.5	0.5	0.5	0.49	0.5	0.44	0.45	0.48	0.51	0.52	0.52	0	0.5
Distance fished (km)	1.48	1.48	1.49	1.49	1.46	1.38	1.34	1.41	1.47	1.55	1.52	0	1.42
Performance	0	0	0	0	0	0	0	0	0	0	0	5	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0.2	0	0	0	0	0	0	0	0	0	0.8	5092.8	0.2
Pacific cod	88.8	0	0	75.3	141.9	11.2	0	2.6	410.5	6.8	228.9	204.8	31.5
Walleye pollock	5	0.4	1.1	640.3	1.7	5.6	0	18.8	1.1	612.5	0	9.5	0
Pacific ocean perch	0	0	0	3702.6	746.1	2434.8	0	0.7	0	1805.3	0.6	0.5	0
Northern rockfish	0	0	0	1.1	0	0.7	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	251.7	28.2	0	0	0	0	0
Rougheye rockfish	0	0	0	0	7.5	95.6	48.2	52.8	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	16.2	2.2	0	0	0	0	0
Arrowtooth flounder	0	29.6	0	658.9	169.1	73.8	14.4	17.5	2	160.4	0.1	0	0.6
Pacific halibut	26	94.5	62.8	34.3	0	0	11.6	0	39.5	16.2	87	4.1	20.1
Rock sole	177.2	7.6	4.9	0.5	0	0	0	0	22.4	20.3	112.8	2.5	40.5
Kamchatka flounder	0	1.6	0	51.9	18.8	34.8	17.4	10.7	0.4	85.5	0.7	0	0.2
Greenland turbot	0	0	0	0	0	0	442.9	8.9	0	0	0	0	0
Flathead sole	0	2.1	0	11.4	0.4	0	0	0.2	0	11.1	2.4	0	2.6
Rex sole	0	0	0	2.6	0.1	0	22.2	12.7	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0.3	0	0	0	0	0
Yellowfin sole	0	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	0
Skates	3	0	0	5.2	0.5	0	0.6	0.6	0	16.3	9.6	44.4	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	19.6	0.1	0	0.2	15	5.9	1	11.8	6.6	13	0.1	1.1	1.6
Broad snow crab	0	0.2	0.1	0	0	0	0.3	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	4.8	0	0	0	0	0	0	4.8	0	0	0	0	0
Golden king crab	0	0	0	0	10.7	5.4	2.1	0	0	0	0	0	0
Northern pink shrimp	0	0.8	0.1	0	0	0	0.1	0.2	0	0	0	0	0
Chlamys species	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	4.9	8.1	0	0	0	0	0
Total catch	326	140	76.7	5186	1678.1	2740	850.6	192.5	483.7	2755.9	444.1	5362	132

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesterdaalen

Haul number	79	80	81	82	84	85	86	87	88	89	90	91	92
Start date & time	6/19/07	6/19/10	6/19/12	6/19/16	6/20/08	6/20/10	6/20/14	6/20/16	6/20/17	6/20/19	6/21/07	6/21/11	6/21/14
Start latitude	5217.6802	5216.19	5215.4902	5224.4902	5222.74	5229.38	5238.05	5234.63	5234.12	5228.39	5217.69	5215.05	5222.46
Start longitude	17305.7402	17312.24	17311.43	17236.41	17240.54	17233.87	17222.8	17223.3	17221.47	17219.66	17443.15	17424.36	17432.13
End latitude	5217.4	5216.17	5215.27	5223.0898	5223.47	5228.29	5237.74	5234.71	5232.82	5226.68	5218.7	5215.35	5222.56
End longitude	17308.1	17309.76	17309.12	17237.14	17238.48	17235.57	17224.99	17222.71	17220.83	17218.89	17441.39	17426.68	17429.7
Gear depth (m)	402	263	138	112	240	423	425	228	216	153	146	144	116
Duration (h)	0.52	0.5	0.47	0.51	0.49	0.5	0.47	0	0.47	0.51	0.49	0.5	0.51
Distance fished (km)	1.48	1.53	1.43	1.47	1.46	1.5	1.37	0	1.35	1.77	1.47	1.46	1.49
Performance	0	0	0	0	0	0	0	5	0	0	1	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	952.2	1.7	0	0	0	3.8	1078	0	0	0
Pacific cod	0	87.2	144.9	693	0	0	0	15.3	204.5	605.6	205.5	3.3	45.3
Walleye pollock	6.7	204.2	2.7	0	4159.2	2.1	3.8	0.9	1.7	0	0.4	64.3	0
Pacific ocean perch	0.5	580.3	75.4	0	0	0	0	58.9	301.3	0.3	3.7	0	0.7
Northern rockfish	0	0	17.2	0	0	0	0	0	6.1	0	1.4	0	77.9
Shortraker rockfish	0	0	0	0	0	42.5	2.9	0	0	0	0	0	0
Rougheye rockfish	9.2	0	0	0	0	13.7	7	2.4	10.1	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	1.6	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	7.5	0	0	0	30.2	21	2.8	0	0	0	0	0	0
Arrowtooth flounder	13.9	149.5	23.3	0	362.1	5	12.6	1	3.5	0	143.4	482.2	0
Pacific halibut	0	0	45.3	104.5	34.2	0	0	19	0	42.3	3.6	25.2	45.5
Rock sole	0	21.7	0.9	49.3	11.7	0	0	0	5.2	0	156.3	2	4.2
Kamchatka flounder	11.5	28.7	3.5	0	296	63.9	51.4	0.5	0.6	0	21.8	75.1	0
Greenland turbot	230.2	0	0	0	0	1244.5	48.4	0	0	0	0	0	0
Flathead sole	0	6.2	0	0	0	0	0	0	0	0	13.7	240.6	0
Rex sole	18.8	5.8	0	0	0	0	5.9	0	0	0	0	1.6	0
Dover sole	0	0	0	0	0	0	9.3	0	0	0	0	0	0
Yellowfin sole	0	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	0.7	0
Skates	3.2	15	0.2	58	305.1	50.5	21.4	0.1	23.3	7.8	0	0	8.8
Sharks	0	0	0	0	42	0	0	0	0	0	0	0	0
Sculpin	3.5	22.3	19.2	225.7	0.1	9.9	0	1.6	3.4	6.6	2.1	4.1	2.7
Broad snow crab	0.9	0	0	0	0	0	0	0	0	0	0.2	5.3	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	5.6	3.2	0	0	1.9	4.5	0.2	0.4	1.7	0	0	0	0
Northern pink shrimp	0.1	0.5	0.1	0	0	0	0	0	0	0	0.1	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0	0	0
Red squid	10	1.9	0	0	0.3	1.3	6.4	2.2	0	0	0	0	0
Total catch	332.8	1154.6	359.8	2126.2	5245	1930	181.5	117.1	711.4	1869.7	580.7	907.2	394.2

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	93	94	95	96	97	98	99	100	101	102	103	105	106
Start date & time	6/25/16	6/26/20	6/26/08	6/26/10	6/27/15	6/26/18	6/27/21	6/28/10	6/28/13	6/28/17	6/28/20	6/29/09	6/29/13
Start latitude	5154.07	5157.4002	5153.07	5150.61	5151.74	5151.49	5159.3	5148.92	5145.01	5146.7898	5151.14	5153.25	5145.37
Start longitude	17342.02	17354.9	17355.62	17353.75	17403.18	17410.58	17405.79	17457.49	17506.44	17500.98	17506.57	17513.56	17527.93
End latitude	5154.46	5157.2502	5152.59	5150.5902	5151.98	5151.78	5200.83	5148.91	5145.13	5146.8	5151.04	5153.17	5145.71
End longitude	17344.29	17353.22	17357.94	17356.17	17400.83	17408.32	17405.39	17455.22	17505.74	17500.2	17504.19	17511.22	17525.63
Gear depth (m)	131	84	143	267	131	147	91	253	447	372	168	147	285
Duration (h)	0.5	0.38	0.51	0.5	0.5	0.5	0.5	0.48	0.21	0.17	0.5	0.5	0.49
Distance fished (km)	1.46	1.05	1.51	1.5	1.48	1.43	1.55	1.41	0.01	0.49	1.48	1.45	1.47
Performance	0	7	0	1	0	0	0	0	1	1	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	1.2	2082.4	0	0	0	0.6	0	0	0	0	14644.6	0	0
Pacific cod	68.3	66	13.8	63.6	149.7	157.1	94.7	14.5	0	0	286.1	0	5.8
Walleye pollock	1.1	0	31.6	380.7	56.3	4.8	0	1465.1	0	2.2	0	0.9	175.6
Pacific ocean perch	4	0	0	3891.4	426.4	0	0	56.7	0	0	297.6	0	314.9
Northern rockfish	2.6	80.8	0	0	908.2	0	0	1.2	0	0	80.3	0	0.4
Shorthead rockfish	0	0	0	108.3	0	0	0	0	5.6	66.6	0	0	0
Rougheye rockfish	0	0	0	63	0	0	0	0	0	18.7	0	0	1.9
Shortspine thornyhead	0	0	0	0	0	0	0	0	6.2	1.3	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	6.7	0	0	0	0	1.4	0	0	0	3.3
Arrowtooth flounder	0.2	0	13.1	10	0	4.3	0	58.6	0	0	9.7	0	47.8
Pacific halibut	15.2	4.7	50.7	0	17.4	144.7	30.3	0	0	0	10.6	67.1	16.4
Rock sole	4.9	4	9.3	0	0	24.7	15.1	38.7	0	3.6	9.2	10	19.7
Kamchatka flounder	0	0	0	0	0	0	0	0.7	0	4.9	0	0	9
Greenland turbot	0	0	0	0	0	0	0	0	2.5	0	0	0	0
Flathead sole	0	0	0	0	0	0	0	1	0	0	0	0	24.4
Rex sole	0	0	0	0	0	0	0	9	2	10.6	0	0	48.1
Dover sole	0	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	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	15.4	0	2.4	0	0	0	4.9	0	3.7	1.3	0	18.2	12.9
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	11.3	2.8	9.8	56	2.2	8.1	0	0.5	0	0	0	6.4	0.6
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	2.1	0	0	0	0
Golden king crab	0	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	0.4
Chlamys species	0.5	0	0.3	0	0.2	22.8	0	0	0	0	0	0	0
Red squid	0	0	0	1.4	0	0	0	0.3	0	0.7	0	0	0
Total catch	166.3	2736.2	137.3	4582	1622.1	405.1	146.1	1648.2	274.5	110.2	15340.2	176.3	699.5

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	108	109	110	112	113	114	115	117	118	119	120	122	123
Start date & time	6/29/16	6/29/18	6/30/08	7/1/09	7/1/12	7/1/15	7/1/17	7/2/12	7/2/15	7/2/18	7/2/21	7/3/09	7/3/16
Start latitude	5147.83	5147.91	5208.12	5209.1098	5205.7	5207.68	5207.06	5136.96	5132.06	5133.87	5136.55	5140.62	5136.12
Start longitude	17537.69	17543.96	17507.88	17523.02	17527.0798	17541.26	17552.67	17634.8	17635.95	17642.39	17708.86	17712.03	17734.88
End latitude	5148.01	5148.31	5207.4	5209.3498	5204.1898	5207.88	5205.75	5136.16	5132.28	5133.5898	5135.57	5141.01	5135.67
End longitude	17535.43	17541.5	17510.09	17525.25	17526.7498	17543.64	17554.1	17636.9	17634.98	17644.8602	17710.64	17710.2	17737.08
Gear depth (m)	188	172	106	145	83	107	89	140	433	178	296	79	230
Duration (h)	0.49	0.5	0.5	0.5	0.5	0.5	0.51	0.5	0.21	0.54	0.5	0.4	0.5
Distance fished (km)	1.41	1.58	1.54	1.39	1.52	1.48	1.58	1.54	0.64	1.56	1.48	1.2	1.45
Performance	0	0	0	0	0	0	0	0	1	0	1	1	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0.9	0	0	0	0	0	0.8	0	2.1
Pacific cod	10.8	5.6	0.3	141.1	7.6	0	0	74.7	0	135.3	11.1	36.7	41.8
Walleye pollock	0	0.5	0.4	1.6	0	0	0	0.5	0	0.7	434.2	0	537
Pacific ocean perch	0.6	0	0	0	0	0	0	332.7	0	20.5	211.2	0	2026.1
Northern rockfish	0	0	0	0	0	0	0	59.4	0	0	0.6	0	0.4
Shortraker rockfish	0	0	0	0	0	0	0	0	57.7	0	265.9	0	0
Rougheye rockfish	0	0	0	0	0	0	0	8.5	7.7	0.5	52.5	0	0
Shortspine thornyhead	0	0	0	0	0	0	0	0	5.4	0	9.4	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	4.2	0	72.2	0	0
Arrowtooth flounder	299.2	234.1	1.4	309.4	0	0.6	1	0	0	8	48	0	179.7
Pacific halibut	25.7	56.9	117.2	29	119.5	32.9	66.4	89.4	0	30.7	47.5	27.3	12.4
Rock sole	92.5	73.8	41.9	64.4	6.4	58.2	25.6	0	0	0	8.3	27.4	25
Kamchatka flounder	1.3	0.7	0	29.1	0	0	0	0	3.3	0	24.1	0	4.4
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	6.2	0	0	0	0	0	0	0	0	0	0.8	0	4.8
Rex sole	3	0	0	0	0	0	0	0	0	0	4	0	2.2
Dover sole	0	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	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	0	0.1	18.3	13.2	22.6	0	12.4	12	3.7	1.6	3.2	0	9.1
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	5.8	3	8	6.7	9.4	1.2	3.5	0.9	0.1	0.6	42.2	0	1.9
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	1.7	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0.1	0	0
Chlamys species	0.1	0.2	0	0	0	2.9	0.6	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0.3	0	0	0	0
Total catch	447	388.1	190.1	595.8	203.4	100.1	118.4	646	116.3	318.6	1296	91.7	2848

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	124	126	127	128	129	130	131	132	133	134	135	136	137	138
Start date & time	7/3/19	7/4/09	7/4/11	7/4/14	7/5/08	7/5/13	7/5/17	7/5/20	7/6/09	7/6/15	7/6/20	7/7/08	7/7/16	7/7/20
Start latitude	5136.48	5147.08	5146.2	5152.3698	5134.2402	5136.12	5134.93	5144.5602	5139.97	5137.4202	5138.65	5111.7	5130.04	5128.37
Start longitude	17736.29	17739.4	17730.18	17746.86	17747.93	17801.99	17801.61	17809.39	17817.45	17826.95	17831.46	17901.38	17838.82	17838.38
End latitude	5135.66	5147.56	5147	5152.2198	5134.2402	5136.15	5134.93	5143.8402	5140.19	5136.48	5138.74	5112.66	5129.35	5128.13
End longitude	17738.45	17737	17727.91	17744.4198	17747.94	17804.6	17801.61	17807.14	17817.91	17825.17	17829.51	17900.17	17836.85	17837.73
Gear depth (m)	155	133	75	118	221	91	120	86	248	164	207	181	228	311
Duration (h)	0.51	0.53	0.52	0.51	0.51	0.51	0.5	0.51	0.13	0.5	0.42	0.5	0.5	0.17
Distance fished (km)	1.57	1.57	1.62	1.52	0	1.63	0	1.58	0.36	1.46	1.22	1.42	1.42	0.47
Performance	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0.2	0	0	0	0.3	0	0	624.9	0	20	2.7	0
Pacific cod	524.2	149.2	0	0	83.7	601.4	481.7	0	16.1	687.9	151.3	52.7	27.7	20.7
Walleye pollock	16.3	11	139.4	0	334.9	0	0	0	4.1	0	0.1	47.4	0	4.1
Pacific ocean perch	0	0	0	0	419.4	0	0	0	29.8	0	155.9	0	0	6.5
Northern rockfish	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	34.3
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	22.6
Shortspine thornyhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	1.3	0	0	0	0	0	0	0	2	46.2
Arrowtooth flounder	4	48.3	4.6	0.8	577.6	0	1.3	0	4	0.6	441	92.8	124.8	0
Pacific halibut	66.9	188.7	148.1	23.4	22.9	24.6	74.7	151.7	0	137.1	27.3	21.3	19.6	0
Rock sole	7	101.4	145.7	4.3	51.9	29.3	43.5	6.2	1.6	25.5	48.3	5.6	29.5	0
Kamchatka flounder	0	3.2	0	0.3	4.1	0	0	0	0.7	0	41.4	5.6	14.6	5.7
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	0	2.1	0.2	0	10.4	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0.3	5	0	0	0	0	0	0	0	1.3	0
Dover sole	0	0	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	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	0	0	0	15.6	17.1	19.3	16.9	0	0	9.2	8.2	0.1	40.3	5.1
Sharks	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0
Sculpin	1.7	8.1	6.2	3.5	12.1	2.9	20.3	7.3	12.4	13	7.1	0.7	2.7	3.1
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	23.4	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	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	0	0
Chlamys species	0.1	0	4.3	0.8	0.1	0	0.2	0.1	0	0	0.2	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total catch	636.8	555.7	476.2	56.6	1556.5	743.5	646.7	168.4	72.3	1501.1	882.5	249.3	289.3	236.6

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	139	140	141	142	143	144	145	146	147	148	149	150	151
Start date & time	7/8/08	7/8/12	7/8/15	7/8/18	7/8/21	7/9/14	7/9/18	7/9/20	7/10/08	7/10/11	7/10/14	7/10/18	7/10/21
Start latitude	5208.2398	5218.6402	5220.86	5222.03	5225.92	5231.35	5230.29	5227.57	5222.5798	5214.25	5202.22	5210.6098	5210.6
Start longitude	17953.68	17948.07	17953.36	17954.52	17956.58	17956.97	17958.62	E17948.7998	E17938.4	E17922.5	E17918.6	E17936.40	E17943.8
End latitude	5208.5398	5217.1402	5219.93	5221.14	5226.69	5232.12	5230.17	5227.1902	5221.2502	5212.9198	5202.6	5209.36	5209.24
End longitude	17956	17947.46	17951.5	17952.36	17954.64	17958.94	17956.37	E17946.5	E17937.3998	E17921.1002	E17920.7	E17935.1	E17943.0
Gear depth (m)	113	165	159	177	168	395	287	221	256	417	276	129	90
Duration (h)	0.5	0.51	0.5	0.51	0.5	0.51	0.5	0.51	0.51	0.54	0.5	0.52	0.5
Distance fished (km)	0.5	1.55	1.48	1.59	1.41	1.43	1.39	1.49	1.46	1.61	1.41	1.48	1.43
Performance	0	0	0	0	0	0	0	0	0	0	0	0	5
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Alka mackerel	0.9	0	0	48	2	0	0	0	0	0	0	0	10
Pacific cod	11.5	20.6	69.5	0	6.6	0	0	0	0	0	0	0	153.8
Walleye pollock	26.8	55.7	0	0	0	3.2	2.7	0.6	9.8	0	784.5	0	0
Pacific ocean perch	0	0	0	7.4	0.3	1.3	130.3	508.8	1272	20.6	4498.4	0	0
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	185.3	0	0	0	46.1	0	0	0
Rougheye rockfish	0	0	0	0	0	48.8	2	67.1	0	3.3	0	0	0
Shortspine thornyhead	0	0	0	0	0	39.9	1.8	0	0	7.4	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	5.4	8.8	7.2	32.8	0	10.3	0	33.1	1.8	53.5	0	0
Pacific halibut	49.6	99.3	22.2	59.8	12.4	0	0	101.3	0	0	0	40.2	0
Rock sole	86.2	30.6	57.5	18	0	0	1.2	0.9	32.1	2.2	8.5	0	3
Kamchatka flounder	0	1	0	0	0.5	36.2	17.6	7.9	27.7	231	11.5	0	0
Greenland turbot	0	0	0	0	0	65.1	0	0	0	135.2	0	0	0
Flathead sole	0	0	0	0	0	0	0	0	2.4	0	0	0	0
Rex sole	0.2	0	0	0	0	5.5	32.5	0	6.6	9.5	0	0	0
Dover sole	0	0	0	0.4	0	7	1.3	0	1.2	0	0	0	0
Yellowfin sole	0	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	0
Skates	20.2	20.8	10	8.9	37.4	2.5	0	11	2.8	14.3	12.7	18.4	0.1
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	9.9	12.9	11.1	2.8	3.1	0.1	14.6	11.7	38.6	0.4	15.1	0.4	11.9
Broad snow crab	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	2.2	3.6	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	1	1.5	0.1	0	0	6.7	0	0
Northern pink shrimp	0	3.1	0	0	5.4	0	1.2	0	0.1	0	0	0	0
Chlamys species	4.7	0.6	0.1	0.1	0.4	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	4.2	1.1	0	0	1.5	0	0	0
Total catch	216.2	255.9	180.1	170.2	120.1	418.1	225.9	2255.9	1431.5	710.1	5394	115.6	433.7



1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	152	153	154	155	156	157	158	159	160	161	162	163	164
Start date & time	7/11/08	7/11/11	7/11/16	7/11/19	7/12/20	7/13/08	7/13/10	7/17/09	7/17/15	7/17/19	7/18/08	7/18/13	7/18/17
Start latitude	5153.17	5209.58	5203.5	5211.48	5208.55	5153.89	5158.66	5115.27	5114.65	5122.08	5130.1902	5136.9	5141.46
Start longitude	E17943.6	E17942.6	17947.49	17939.46	17516.99	17626.03	17630.57	E17917.2	E17911.4	E17853.8	E17849.0002	E17825.3998	E17816.9002
End latitude	5153.83	5208.53	5202.63	5213.06	5208.13	5153.22	5157.28	5115.06	5114.71	5121.29	5129.46	5138.0502	5141.5602
End longitude	E17945.1	E17941.8	17949.61	17938.6	17518.21	17628.04	17629.68	E17914.5	E17908.7	E17855.6	E17849.9998	E17824	E17814.7
Gear depth (m)	89	94	254	352	211	148	90	167	246	168	86	155	120
Duration (h)	0.46	0.38	0.51	0.53	0.32	0.5	0.49	0.56	0.51	0.51	0.32	0.51	0.47
Distance fished (km)	1.07	1.16	1.58	1.67	0.86	1.42	1.49	1.66	1.67	1.45	0.97	1.45	1.37
Performance	1	0	0	0	0	0	0	0	0	0	1	1	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	2.1	1.4	0	0	1.1	0	0	0.5	0	5.7	10.6	71.9	10
Pacific cod	32.4	0	0	0	90.3	40.7	10.1	112.1	44.6	77.6	29.3	69.5	42.5
Walleye pollock	0	0	63	0	94.8	4.9	0	417.6	124.3	79.9	0.7	1.1	1.5
Pacific ocean perch	0	0	3.9	7	218.7	0	0	4062.3	5450	3486.4	0	0	2.9
Northern rockfish	0	0	0	0	0	0	0	2.9	0.7	11.7	0.2	0	63.4
Shortraker rockfish	0	0	0	156	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	55	0	0	0	0	9.1	0	0	0	0.6
Shortspine thornyhead	0	0	0	117.5	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	13	12.2	9.7	19	75.3	8	8.1	4.9	0.1	7.6	6.1
Pacific halibut	5.3	51.2	0	0	0	7.8	70.1	2.8	0	17.4	2.1	8.2	0
Rock sole	6.2	134.7	44.9	0	12.3	0	304.9	200.1	17.8	0	13.4	6	221.1
Kamchatka flounder	0	0	9.8	26.2	0	9.1	6.8	11.4	9.1	3	0.2	4	0.1
Greenland turbot	0	0	0	6.5	0	0	0	0	0	0	0	0	0
Flathead sole	0	0	1	0	0	53.1	4.1	0	0	0	0	0	3.2
Rex sole	0	0	42.5	9	0	4.6	1	3.3	0	0	0	0	3.8
Dover sole	0	0	0.4	6.4	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	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	0
Skates	0	94.3	26.2	4.4	0.8	9.2	0	15.3	1.8	107.1	0	10	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0.1	18.4	82.1	7.8	19.4	2.7	0.1	2.5	63.2	19.3	3.9	13.6	2.7
Broad snow crab	0	0	0	0	0	3.4	0.4	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0.2	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0.1	1.2	0	0	0	0	0	24.8	0	0	0	0
Northern pink shrimp	0	0	0.1	0	0	0.1	0	0	0	0	0	0	0
Chlamys species	0	0	0	0	0.1	0	0.5	0	0	0	0.1	0	0
Red squid	0	0	0	0	0.5	0	0	3.9	0	0	0	0	0
Total catch	47.4	3028.1	300.4	528.7	509.7	173.3	517.3	4859	5769	3920	130.2	227.5	385.2

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the FV Vesteraalen

Haul number	165	166	167	168	169	170	171	172	173	174	175
Start date & time	7/18/20	7/19/09	7/19/13	7/19/15	7/19/18	7/20/09	7/20/12	7/20/16	7/20/18	7/21/10	7/21/12
Start latitude	5133.6498	5151.7698	5153.9202	5155.0302	5154.5298	5155.7202	5155.26	5203.4398	5158.35	5152.2402	5152.4202
Start longitude	E17820.8002	E17814.5002	E17819.9002	E17822.000	E17814.50	E17811.7	E17815	E17819.0002	E17814.2002	E17725.8	E17741.5998
End latitude	5133.6498	5151.3102	5152.5798	5153.6802	5154.0798	5156.2098	5156.12	5204.1202	5157.4602	5151	5152.9998
End longitude	E17820.8002	E17816.8	E17820.5998	E17822.600	E17813.09	E17809.6	E17813.6	E17817.1	E17816.2	E17724.4002	E17743.9002
Gear depth (m)	470	86	150	114	276	336	260	396	89	84	91
Duration (h)	0.58	0.5	0.51	0.51	0.34	0.52	0.4	0.48	0.52	0.51	0.51
Distance fished (km)	1.61	1.47	1.4	1.4	0.99	1.4	1.23	1.37	1.5	1.51	1.54
Performance	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	140.6	0	0	0	0	0	0	0.4	2.8	0
Pacific cod	0	233.6	83.2	38.2	8	0	40.4	0	69.7	18.5	11
Walleye pollock	0	0.3	6.5	0.1	55.6	15.9	1113.3	34.1	0	0	0.2
Pacific ocean perch	0	0	0	0	18.8	4.4	94.9	11.4	0	0	0
Northern rockfish	0	3.2	0	0	0	0	0	0	7.8	0	0
Shortraker rockfish	37.4	0	0	0	60.1	0	106.1	94.4	0	0	0
Rougheye rockfish	2.2	0	0	0	26.1	43.2	67.1	64.6	0	0	0
Shortspine thornyhead	14.9	0	0	0	0	0	0	12.6	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	4.1	0	0	0
Arrowtooth flounder	0	0	48.9	0	63.5	5.8	85.5	22.8	0	53.1	1
Pacific halibut	0	99	32	12	0	0	43.4	0	11.3	2.9	81.2
Rock sole	0	30.3	19.5	10.8	21.2	0	5.8	0	15	310.4	485.4
Kamchatka flounder	65.9	0	9.3	0	25	123.5	132.1	77.3	0	2.6	0
Greenland turbot	71.8	0	0	0	0	45	31.7	123.3	0	0	0
Flathead sole	0	0	0	1.6	0	0	0	0	0	4	1.3
Rex sole	0	0	0.9	0	7.4	7.6	0	2	0	0.4	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	8.1	0	66	0	25.8	31.2	51.9	5.2	10.7	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	2.7	5.3	0.5	2.9	5	0.1	15	0.1	17.8	3.4	2.5
Broad snow crab	0	0	0	0	0.2	0	0.9	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	1.9	0.1	0	0	3.7	4	17.5	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0
Chlamys species	0	0.5	0	2.4	0	0	0	0	0	0	0
Red squid	2.3	0.4	0	0	1	0.5	2.6	2.6	0	0	0
Total catch	293.7	581.9	268.5	127.8	352.1	759.9	1816	632.9	184.4	410.2	595

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	176	177	178	179	180	181	182	183	184	185	186	187	188
Start date & time	7/21/16	7/21/18	7/21/19	7/22/15	7/22/18	7/23/09	7/23/13	7/23/16	7/23/21	7/24/10	7/24/15	7/24/19	7/25/09
Start latitude	5149.57	5147.35	5145.86	5159.81	5201.75	5202.22	5156.65	5155.8	5156.6202	5203.51	5207.72	5212.33	5221.21
Start longitude	E17740.5	E17743.0	E17742.9	E17738.5	E17749.3	E17724.7	E17646.8	E17640.6	E17646.9998	E17631.3	E17613.3	E17605.2	E17621.9
End latitude	5149.49	5147.88	5146.36	5159.53	5200.25	5202.92	5156.42	5155.73	5155.9998	5203.5	5207.28	5212.03	5220.2998
End longitude	E17737.9	E17740.8	E17740.6	E17741.1	E17749.6	E17727	E17646.3	E17639.3	E17644.7	E17631.5	E17614.4	E17606	E17622.8
Gear depth (m)	127	151	239	76	108	119	432	151	435	91	247	136	220
Duration (h)	0.51	0.51	0.49	0.53	0.51	0.51	0.14	0.31	0.58	0.03	0.33	0.23	0.38
Distance fished (km)	1.56	1.47	1.49	1.63	1.5	1.5	0.4	0.95	1.56	0.05	0.75	0.51	1.07
Performance	1	0	0	0	0	0	7	1	0	7	1	1	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	1.3	1.7	0	692.4	948.8	13	0	2.2	0	1.7	1.1	15932.2	0
Pacific cod	30.6	17.8	0	7.4	15.5	113.5	0	68.8	0	6.1	2.4	408.8	17.3
Walleye pollock	0.5	209.9	312.1	0	0.7	2.6	0	28.9	0	0	11.2	0	715.5
Pacific ocean perch	0	0.8	103.3	0	0	0	0	1221.2	0	1.6	159.6	37.5	3170.3
Northern rockfish	0	0	0	14.6	0	0	0	179.1	0	6.2	0	29.5	0
Shortraker rockfish	0	0	0	0	0	0	39.4	0	105.1	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	5.7	75.2	31.1	0	0	0	5.2
Shortspine thornyhead	0	0	0.4	0	0	0	16.8	0	71.3	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	7.3	23	18.1	2.9	0	5	0	0	16.9	0	0	0	0
Pacific halibut	33.9	0	0	11.8	8.6	0	0	0	0	0	0	0	0
Rock sole	116	70.7	37	26.7	18.6	24.2	0	3.9	0	0	0	0	0
Kamchatka flounder	0.5	0.7	4.1	2	0.7	1.6	38.9	0	48.2	0	0	0	4.1
Greenland turbot	0	0	8.8	0	0	0	22.6	0	25.9	0	0	0	0
Flathead sole	0	1.2	7.4	6	0	0	0	0	0	0	0	0	0
Rex sole	0	1.5	20.1	0	0	0	0	0	4.1	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	1.1	0	0	0	0
Yellowfin sole	0	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	0
Skates	13.7	0	4.6	0	12.8	35.9	0.8	7.5	14.2	0	0	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	7.2	0	0.1	5.3	1.1	13	1	0.7	1.8	0.1	0.5	0	1.4
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	2.7	0	1.9	0	0	0	1.5
Northern pink shrimp	0	0	0.9	0	0	0	0	0	0	0	0	0	0
Chlamys species	0.5	0.1	0	0	1.4	1.7	0.1	0.2	0	0	0	0	0
Red squid	0	0	0	0.4	0	1.2	0.3	0	5.1	0.9	0.6	0	0
Total catch	308.3	328.8	530.7	773.5	1021.5	270.9	158.8	2016.3	503.2	112.7	182.7	16408	4178.7

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	189	190	191	192	193	194	195	196	197	198	199	200	201
Start date & time	7/26/09	7/26/17	7/26/21	7/26/23	7/27/09	7/27/12	7/27/17	7/27/22	7/28/09	7/28/11	7/28/13	7/28/15	7/28/18
Start latitude	5218.25	5217.2	5205.79	5204.73	5138.72	5141.88	5142.95	5151.26	5230.95	5229.73	5230.36	5235.0298	5223.4498
Start longitude	E17548.4	E17520.8	E17513.6	E17506.7	E17538.8	E17532.7	E17547.7	E17552.0	E17425.9	E17424.3	E17413.3	E17419.0002	E17410.5
End latitude	5217.29	5216.73	5204.68	5203.54	5137.87	5140.58	5142.9	5151.04	5231.57	5230.49	5230.73	5235.2002	5222.6002
End longitude	E17549.3	E17522.9	E17511.5	E17505.2	E17540.3	E17533.7	E17546.3	E17550.8	E17428.2	E17426.5	E17415.7	E17417.8002	E17408.7
Gear depth (m)	251	233	332	397	177	183	88	90	180	227	104	91	152
Duration (h)	0.42	0.17	0.56	0.54	0.51	0.5	0.26	0.26	0.5	0.51	0.51	0.26	0.5
Distance fished (km)	1.11	0.54	1.64	1.47	1.24	1.46	0.8	0.81	1.52	1.57	1.56	0.78	1.41
Performance	0	7	0	0	1	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	1.5	0	1582.6	1134.5	0	0	0	0	0
Pacific cod	25.5	9.1	0	0	0	0	143.5	69.8	24.3	61.8	32	27.3	49.5
Walleye pollock	31.8	7.8	6.2	4	187.7	56.1	13.2	26.5	0.4	3.1	20.5	28.7	4.2
Pacific ocean perch	763.8	3146.2	15.3	2.9	896.7	119.4	0	0	0	0	0	0	0
Northern rockfish	0	0.7	0	0	0.9	0.5	2428.4	22.8	0.7	0	0	0	2
Shortraker rockfish	0	0	18.3	28.6	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	2.6	9.3	7.7	3.1	46.6	0	0	0	0	0	0	0
Shortspine thornyhead	1.7	0	92.2	50.7	0	13.4	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	46.8	5	0	2.5	15.1	0	3	78.8	53.5	3.4	7.6	12.6
Pacific halibut	0	0	0	0	0	0	0	0	0	0	3.2	16.7	28.3
Rock sole	0	0	0	0	0	0	40.9	9.8	26.6	4.7	165.4	28.7	70.2
Kamchatka flounder	54.2	45.2	18.3	22.1	17	14.1	0	1.6	6.4	6.6	1.2	0.5	4.9
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	11.7	2.8	0.9	0	26.2	36.6	8.1	0.2	2.1
Rex sole	0	0	0	1.5	2.5	6.3	6.9	1.3	51.6	35.2	4.6	0	1.6
Dover sole	0	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	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	2	0.1	58.5	2.6	40.6	10.3	0.4	0.8	0.2	0.1	0	0	0.1
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	21	1.3	5.7	0.8	16.7	32.9	15.1	9.5	0.3	0.2	4.9	1.4	2.3
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	4	0.9	2.6	0.1	0	0	0.2	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0.1	0	0	0.2	0.2	0	0	0.1
Chlamys species	0	0	0	0	0	0	0	0.1	0	0	0	0	0
Red squid	0.4	0	0	8	1.2	3.8	0.6	0	0	0.2	0	0	0
Total catch	989	3354	481.4	275.1	1239	405.9	4308.1	1295.1	218.6	203.5	342.1	171.6	184.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	202	203	204	205	206	207	208	209	210	211	212	213	214
Start date & time	7/28/21	7/29/09	7/29/14	7/29/17	7/29/20	7/29/22	7/30/10	7/30/13	7/30/16	7/30/19	7/31/10	7/31/16	7/31/22
Start latitude	5219.65	5223.55	5221.76	5213.88	5228.4502	5234.26	5254.54	5258.82	5306.59	5308.05	5256.84	5259.86	5304.4202
Start longitude	E17411.2	E17358.5	E17333.6	E17325.6	E17324.4998	E17330.7	E17049.5	E17057	E17055.5	E17054.3	E17210.2	E17220.1	E17248.9
End latitude	5219.5	5222.05	5221.98	5213.59	5227.7902	5232.92	5254.6102	5259.28	5306.41	5308.79	5258.14	5259.07	5304.23
End longitude	E17408.8	E17358.6	E17332.5	E17327.1	E17322.3998	E17329.4	E17051.7002	E17054.9	E17056.8	E17052.0	E17208.7	E17217.8	E17247.59
Gear depth (m)	383	116	54	189	163	135	210	136	92	117	394	167	89
Duration (h)	0.51	0.52	0.25	0.34	0.5	0.5	0.49	0.51	0.24	0.52	0.53	0.53	0.25
Distance fished (km)	1.5	1.5	0.73	0.99	1.44	1.57	1.33	1.35	0.77	1.52	1.56	1.53	0.77
Performance	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
Atka mackerel	0	0	1246.9	0	0	0	1.8	12415.4	1.4	0.9	0	0	2000.6
Pacific cod	0	26.7	44.1	36.1	156.4	4.5	0	12.1	12.1	0	0	97.8	23.6
Walleye pollock	0	1.8	0	80	0.8	65.5	25.8	4.3	111.1	19.6	0	1.4	0
Pacific ocean perch	5.7	0	0	10148.7	0	0	2546.7	52.6	0.3	0	0.6	0	0
Northern rockfish	0	0	0	0	0.9	0	0	829.1	522.7	339.4	0	0	0
Shorthead rockfish	127.5	0	0	0	0	0	0	0	0	0	8.6	0	0
Rougheye rockfish	148.8	0	0	0	0	0	1.1	0	0	0	12.7	0	0
Shortspine thornyhead	46	0	0	0	0	0	33.2	0	0	0	135.7	0.4	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	6	0	0
Arrowtooth flounder	10.4	24	2.4	104.3	96.9	132.6	2.4	0	0	0	0	3.2	0
Pacific halibut	0	0	8	0	22.8	38.2	0	0	0	0	7.6	80.2	159.1
Rock sole	0.7	179.6	39	43.9	142.2	4.1	0	0	168.6	13.5	0	0.7	2
Kamchatka flounder	13.9	5.9	0	0	6	7.9	0.6	0	0	0	114.2	5.1	0
Greenland turbot	15	0	0	0	0	0	0	0	0	0	228.2	0	0
Flathead sole	0	33.5	3	22.7	59	30.9	0.4	0	5.6	18.2	0	0	0
Rex sole	7.7	0	0	0	0.8	0.6	0	0	16.7	8.4	5.8	0	0
Dover sole	0	0	0	0	0	0	4.1	0	0	0.6	0	0	0
Yellowfin sole	0	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	0
Skates	2.2	0.1	0	0	9.3	0	145.2	129.9	101.7	84.5	1.7	0.5	0.1
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	6.5	30.9	0.9	59.7	11.9	15	27.4	1.1	1.9	14.1	0.1	1.7	1.1
Broad snow crab	0	0.1	0	0	0.9	1.4	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	9.2	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0.4	3.1	0
Northern pink shrimp	0	0	0	0	0.3	0	0	0	0	0	0	0.1	0
Chlamys species	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1
Red squid	0.6	0	0	11	0	0	2405.4	0	0	0	7.8	1.8	0
Total catch	388.2	383.7	1351.7	10511.2	545.4	315.1	5238.3	13478	967.4	515.3	613.3	644.2	2224

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	215	216	217	218	219	220	221	222	223	224	225	226	227
Start date & time	8/1/10	8/1/15	8/1/15	8/2/10	8/2/12	8/2/16	8/3/13	8/4/01	8/4/05	8/4/09	8/4/13	8/4/17	8/4/21
Start latitude	5301.54	5257.9	5257.85	5250.93	5248.3	5235.58	5212.42	5201.21	5201.08	5200.25	5200.83	5200.46	5200.3498
Start longitude	E17312.7	E17314.4	E17314.5	E17218.1	E17234.9	E17255.2	E17604.9	E17749.39	E17749.399	E17749.5	E17749.5	E17749.3	E17749.399
End latitude	5302.23	5258.02	5258.68	5250.75	5249.15	5234.3902	5212.06	5200.47	0	5159.61	5200.09	5159.71	5159.67
End longitude	E17310.6	E17314.7	E17315.1	E17220.8	E17232.8	E17256.7	E17606	E17749.60	0	E17749.0	E17749.5	E17749.2	E17749.000
Gear depth (m)	127	76	79	250	138	147	145	108	108	106	110	108	108
Duration (h)	0.5	0.06	0.29	0.51	0.49	0.5	0.26	0.26	0.05	0.25	0.27	0.26	0.25
Distance fished (km)	1.42	0.19	0.94	1.63	1.44	1.5	0.68	0.76	0.15	0.69	0.74	0.77	0.74
Performance	0	5	0	0	0	0	7	0	7	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0	0	938.3	4	0.6	0.4	0	705.1	2.1
Pacific cod	10.4	5.7	55.9	11.2	1.8	8.6	124.4	67.4	38.7	46.1	124.6	130.6	52.6
Walleye pollock	0.3	0	0.8	117.7	0.3	0.2	3.6	6.4	14.3	25.8	3.3	0.6	10.3
Pacific ocean perch	17	0	0	4.1	0	2.4	9.6	0	0	0	0	0	0
Northern rockfish	30.7	0	0	0	0.5	42.2	12.9	0.9	1	3.2	2.4	3.8	2.3
Shortraker rockfish	0	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	0	0
Shortspine thornyhead	0	0	0	9.1	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	47	15.1	16.8	0	60.4	23.8	0	0	0.8	0.3	0.7	0	0.5
Pacific halibut	0	0	56.8	0	17.4	18	0	0	0	50.3	28.3	18	51.6
Rock sole	65.7	12.9	20.2	0	145	28.9	0	23.7	22.3	86.2	235.7	125.9	118.2
Kamchatka flounder	8	0	1.2	13.5	6.9	3.4	0	4	9.3	1	2.8	0.3	0.4
Greenland turbot	0	0	0	5.9	0	0	0	0	0	0	0	0	0
Flathead sole	8.4	0.9	0	0.9	24	1.2	0	0	0	0	0	0	0
Rex sole	2.2	0	0	0	13.1	0.7	0	0	0	0	0	0	0
Dover sole	0	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	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	0.1	0.3	0.1	5	10.1	58.5	0	0	0	0	0	13.2	0
Sharks	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpin	15.5	0.1	0.1	8.6	19.7	11.8	0	6.7	5.6	5.2	3	9.5	12.1
Broad snow crab	0	0	0	0	0	0.1	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0.4	0	0	0.3	1	0.6	0	0	0	0	0	0	0
Chlamys species	0.9	0.1	0.3	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	17.1	0	0	0	1.1	0	0	0	0	0
Total catch	257	104.7	598	206.9	313.2	298.5	1099.9	160.9	114.5	430.1	533.9	1161.1	395.6

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Vesteraalen

Haul number	228	229
Start date & time	8/5/01	8/5/05
Start latitude	5200.4602	5200.24
Start longitude	E17749.5	E17749.5
End latitude	5159.7402	5159.55
End longitude	E17749.2	E17749.09
Gear depth (m)	108	108
Duration (h)	0.27	0.25
Distance fished (km)	0.75	0.73
Performance	0	0
Gear	172	172
Atka mackerel	4.5	9.7
Pacific cod	33.5	45.7
Walleye pollock	9	5.1
Pacific ocean perch	0	0
Northern rockfish	4.8	2
Shortraker rockfish	0	0
Rougheye rockfish	0	0
Shortspine thornyhead	0	0
Other rockfish	0	0
Sablefish	0	0
Arrowtooth flounder	0	0
Pacific halibut	41.9	0
Rock sole	23.5	55.1
Kamchatka flounder	0.3	3
Greenland turbot	0	0
Flathead sole	0	0
Rex sole	0	0
Dover sole	0	0
Yellowfin sole	0	0
Other flatfish	0	0
Skates	0	1.3
Sharks	0	0
Sculpin	8.9	9
Broad snow crab	0	0
True tanner crab	0	0
Red king crab	0	0
Golden king crab	0	0
Northern pink shrimp	0	0
Chlamys species	0	0
Red squid	0	0
Total catch	302.9	276.6





Section 1 (continued)

Fishing Log for the F/V *Vesteraalen*

- Summary listings of catch rates by species

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species												
	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul
Atka	1,257,672.9	0.70	136	187	53.0	1.10	247	186				
mackerel	677,455.9	1.29	87	8	48.3	0.73	151	183				
	323,151.9	0.98	168	103	46.4	1.05	169	12				
	308,933.0	0.67	136	209	45.1	1.05	230	123				
	162,854.2	1.05	147	63	45.0	0.30	210	208				
	87,469.4	0.49	89	214	45.0	0.67	168	143				
	68,528.6	0.64	88	195	41.1	0.75	177	193				
	55,827.2	0.87	54	204	40.7	1.00	81	16				
	48,928.3	0.44	90	196	39.8	0.85	151	177				
	22,006.3	0.68	108	180	39.5	0.55	211	156				
	20,959.7	0.91	112	82	38.4	0.70	94	153				
	20,611.9	1.03	153	89	36.3	0.85	240	84				
	14,966.6	0.67	76	179	29.3	1.30	119	51				
	13,721.7	0.80	164	134	29.2	1.40	155	3				
	4,580.9	1.25	90	14	27.9	0.26	127	176				
	3,183.2	0.52	86	166	25.9	0.60	131	93				
	1,617.6	0.69	155	163	22.9	1.00	319	45				
	1,345.0	0.88	156	61	22.2	1.10	255	38				
	1,005.7	0.70	177	142	20.7	0.90	113	139				
	546.0	0.83	181	136	19.8	0.90	83	113				
	372.1	0.48	86	162	19.5	0.90	117	211				
	322.0	2.09	79	15	16.4	0.40	296	120				
	289.8	0.57	119	181	16.4	0.80	144	76				
	264.2	0.67	120	164	13.5	0.60	147	98				
	133.0	0.81	168	161	10.0	0.50	167	159				
	116.7	1.08	95	32	9.4	0.20	89	173				
	101.0	0.75	139	60	6.6	0.30	120	131				
	93.5	1.50	76	9	4.7	0.10	66	66				
	85.1	0.76	216	88	4.6	0.20	85	78				
	68.8	0.26	89	152	4.1	0.20	75	127				
	63.9	0.70	84	174								
	62.9	0.28	92	210								
	58.5	1.35	228	137								
	57.0	1.50	116	2								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Pacific cod	117,682.3	9.20	87	8	3,108.3	4.30	213	70	1,295.9	2.19	267	96
	100,052.3	7.13	147	63	3,062.8	1.93	124	5	1,201.0	4.51	189	205
	32,270.3	5.76	136	187	3,042.0	2.34	138	81	1,191.3	4.90	54	20
	26,212.4	5.56	139	60	3,010.3	9.97	90	196	1,176.7	4.66	115	25
	25,109.7	2.33	173	33	2,981.8	3.02	116	2	1,137.4	1.82	91	200
	23,694.8	4.35	76	9	2,767.3	1.73	178	119	1,122.7	3.54	120	164
	21,634.7	3.58	90	14	2,685.1	4.93	157	56	1,063.1	4.59	79	122
	15,254.2	5.63	112	82	2,530.4	1.49	119	181	1,060.9	10.80	89	152
	15,105.1	4.78	164	134	2,514.1	4.30	155	3	1,057.7	3.81	152	201
	14,032.0	4.14	156	4	2,511.2	4.43	156	61	1,031.8	7.87	89	214
	12,027.0	4.33	91	130	2,351.3	3.33	255	38	1,028.6	1.22	86	162
	11,579.3	4.62	153	89	2,239.3	2.24	167	159	967.2	3.24	116	92
	10,664.2	1.60	120	131	2,073.0	0.04	66	66	961.4	3.67	260	171
	10,652.7	1.89	155	124	2,064.4	7.52	167	213	937.7	1.94	88	17
	10,294.4	3.19	51	10	2,046.3	9.32	79	217	929.6	2.04	148	157
	9,649.7	3.34	132	74	2,022.7	3.78	150	167	898.5	1.49	230	123
	9,354.1	4.34	66	11	2,019.5	1.63	91	99	895.2	2.25	114	168
	6,355.8	4.06	81	16	1,974.5	4.01	54	204	855.1	2.62	328	18
	6,313.2	3.33	168	103	1,847.2	3.11	263	80	812.2	6.88	187	21
	6,213.7	11.04	88	195	1,810.8	2.16	168	161	809.5	2.12	246	160
	5,288.7	1.62	86	166	1,725.0	1.44	221	129	753.6	3.19	251	189
	4,692.3	2.76	144	76	1,633.5	2.05	89	173	727.2	1.21	85	78
	4,578.0	3.20	216	88	1,612.8	3.77	246	69	692.5	1.14	84	30
	4,426.8	6.64	198	57	1,565.2	1.17	140	117	677.1	1.28	104	199
	4,213.2	2.58	169	12	1,563.6	2.40	155	163	657.8	3.83	127	176
	4,101.5	3.41	228	37	1,534.6	5.40	162	64	646.1	4.63	33	19
	3,920.1	2.56	207	135	1,530.5	7.72	159	141	600.7	1.98	228	137
	3,696.8	1.88	79	15	1,509.5	2.75	151	183	566.5	2.23	116	203
	3,538.9	4.13	147	98	1,475.2	2.20	131	93	549.2	3.46	220	188
	3,419.5	3.21	145	112	1,451.4	2.38	188	55	544.0	12.10	92	210
	3,405.2	5.21	163	206	1,438.6	3.76	181	136	517.8	2.70	180	197
	3,368.0	2.14	131	97	1,404.2	2.96	311	138				
	3,362.3	1.37	133	126	1,306.0	3.64	227	198				
	3,246.2	3.11	211	156	1,303.3	5.90	59	41				

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average weight	Gear Depth	Haul	CPUE	Average weight	Gear Depth	Haul	CPUE	Average weight	Gear Depth	Haul
	(kg/km <sup>2</sup> )	(kg)	(m)		(kg/km <sup>2</sup> )	(kg)	(m)		(kg/km <sup>2</sup> )	(kg)	(m)	
Pacific cod	447.3	1.09	95	32	97.2	4.50	135	207				
	422.4	2.64	84	174	74.9	3.30	144	91				
	416.4	2.23	151	177	54.7	2.60	85	23				
	412.3	10.30	165	140	53.6	2.60	360	73				
	386.4	2.03	288	6	39.4	1.80	138	219				
	359.5	0.52	108	180	34.2	1.70	224	53				
	308.0	1.97	143	95	30.4	1.40	99	27				
	301.1	12.10	136	209	6.6	0.08	88	50				
	299.7	1.81	253	100	6.5	0.08	106	110				
	283.7	3.15	222	47	2.3	0.10	68	26				
	271.8	4.40	239	54								
	266.0	3.35	360	59								
	264.0	5.75	113	139								
	251.1	5.50	91	175								
	250.7	5.40	188	108								
	246.2	10.40	127	215								
	246.0	5.60	232	71								
	245.1	0.46	90	158								
	243.4	4.00	276	169								
	228.1	1.85	296	120								
	224.7	4.55	233	190								
	215.6	3.13	319	45								
	214.2	5.60	250	218								
	210.7	8.50	16	29								
	189.9	2.87	147	220								
	184.1	2.08	124	28								
	167.1	3.80	83	113								
	160.0	1.48	76	179								
	148.4	6.60	168	143								
	140.9	2.27	239	75								
	122.1	1.93	285	106								
	116.2	2.80	172	109								
	115.7	2.40	247	186								
	113.9	5.60	174	46								

Catch during the 1994 Aleutian Islands 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	88,871.8	1.20	240	84	1,691.4	1.16	276	169	129.8	1.12	402	79
pollock	35,527.9	1.13	169	12	1,460.0	0.89	144	91	125.2	1.24	332	191
	35,040.7	1.08	155	3	1,414.1	0.60	135	207	123.0	1.12	232	71
	30,286.9	0.94	253	100	1,293.9	1.13	181	136	116.7	0.05	66	66
	26,493.3	1.10	260	171	1,267.9	1.43	254	154	111.9	0.82	148	157
	22,712.1	1.23	220	188	1,266.6	0.05	131	97	108.1	0.05	147	98
	19,252.9	0.70	76	9	1,253.8	1.30	183	194	107.0	1.08	136	209
	19,219.5	1.39	276	149	1,195.7	0.04	91	200	104.5	1.43	54	20
	16,593.9	0.75	116	2	1,142.9	0.98	90	196	99.3	1.10	372	102
	13,714.2	1.05	246	69	1,114.7	0.22	165	140	90.1	1.35	228	37
	12,690.9	1.03	239	75	1,023.1	0.40	162	64	89.7	0.22	152	201
	11,542.9	0.89	230	123	963.2	0.85	328	18	86.1	1.27	425	86
	11,047.3	0.89	156	4	958.4	1.26	147	63	74.6	1.00	397	192
	8,921.1	1.11	296	120	939.8	1.10	251	189	71.4	1.07	395	144
	8,536.2	0.74	124	5	797.8	1.10	396	172	65.5	0.39	227	198
	8,342.0	1.22	167	159	705.4	0.05	143	95	64.4	0.80	224	53
	7,757.0	1.08	267	96	645.0	1.36	210	208	62.6	1.35	287	145
	6,902.0	1.04	221	129	634.1	0.55	151	183	58.6	1.25	367	52
	6,899.5	0.86	51	10	615.3	0.04	113	139	58.0	0.08	119	181
	6,806.1	1.10	239	178	571.6	1.89	88	195	56.7	0.21	138	81
	5,139.5	1.26	177	193	540.0	1.24	247	186	55.9	1.30	90	14
	4,994.8	1.18	92	210	433.7	0.04	104	199	45.7	1.05	418	35
	4,910.6	0.98	151	177	425.2	0.13	117	211	39.6	0.75	120	164
	4,325.6	0.73	263	80	400.0	0.76	255	38	38.8	1.60	145	112
	3,720.2	1.10	360	59	387.6	1.25	360	73	38.5	1.05	423	85
	3,696.5	1.02	285	106	352.1	0.69	288	6	38.2	0.26	116	203
	3,408.0	1.08	211	156	331.2	0.07	155	124	38.1	0.85	216	88
	2,834.0	0.07	75	127	329.8	1.22	336	170	37.2	0.85	213	70
	2,661.5	1.13	189	205	278.1	1.37	311	138	34.6	0.21	81	16
	2,507.1	1.18	319	45	247.9	0.23	133	126	31.4	1.40	139	60
	2,256.0	1.28	246	160	222.8	0.98	256	147	29.6	0.70	167	213
	2,251.3	1.29	250	218	192.6	1.11	233	190	29.3	0.11	79	217
	1,864.4	1.04	168	161	177.5	0.82	436	7	28.5	1.30	171	48
	1,822.7	1.33	187	21	158.0	0.46	150	167	27.1	1.30	89	24

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth			(kg/km <sup>2</sup> )	weight			Depth	(kg/km <sup>2</sup> )	
	(kg/km <sup>2</sup> )	(kg)	(m)		(kg/km <sup>2</sup> )	(kg)	(m)		(kg/km <sup>2</sup> )	(kg)	(m)	
Walleye	25.9	1.10	132	74								
pollock	24.7	0.28	155	163								
	24.7	0.40	239	54								
	24.6	0.12	86	162								
	23.8	0.05	131	93								
	23.1	0.06	125	68								
	20.0	0.08	147	105								
	17.4	0.80	163	206								
	16.2	0.70	108	180								
	14.3	0.09	178	119								
	14.2	0.60	221	146								
	10.7	0.06	127	176								
	10.5	0.50	140	117								
	10.4	0.25	172	109								
	8.7	0.08	106	110								
	8.7	0.04	105	67								
	8.5	0.40	180	197								
	7.1	0.30	127	215								
	6.8	0.10	86	166								
	6.7	0.08	122	42								
	6.6	0.15	138	219								
	4.6	0.20	91	175								
	4.4	0.20	147	220								
	2.6	0.10	207	135								
	2.3	0.10	114	168								
	2.2	0.10	99	27								
	2.2	0.10	95	32								
	2.1	0.10	157	56								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Sablefish	3,133.9	2.20	311	138								
	1,483.4	1.50	296	120								
	645.3	2.16	240	84								
	385.3	4.20	423	85								
	347.5	2.31	411	72								
	244.5	2.25	436	7								
	224.3	3.83	458	58								
	217.0	2.10	433	118								
	145.3	1.50	402	79								
	136.5	2.23	267	96								
	124.0	2.85	418	35								
	119.4	3.00	394	212								
	95.9	2.05	396	172								
	75.1	3.60	155	3								
	69.5	1.65	285	106								
	63.4	2.80	425	86								
	45.4	2.20	360	73								
	43.4	2.00	228	137								
	26.8	1.30	221	129								

Catch during the 1994 Aleutian Islands 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	337,637.2	0.49	189	205	3,821.9	0.63	255	38	78.4	0.51	250	218
Ocean	110,206.3	1.08	276	149	3,631.7	0.38	156	61	76.6	0.32	120	164
perch	100,634.9	0.83	220	188	3,022.2	1.09	287	145	54.1	0.58	397	192
	98,916.5	0.61	246	160	2,960.2	0.42	136	187	53.0	0.20	147	220
	81,353.4	0.43	168	161	2,672.8	0.87	222	47	48.2	1.10	171	48
	81,148.6	0.60	167	159	2,668.5	0.55	183	194	45.4	0.12	95	32
	79,303.5	0.67	246	69	2,258.3	0.61	260	171	41.9	0.13	157	56
	79,290.1	0.53	267	96	2,252.7	0.60	239	178	35.3	0.19	76	9
	77,678.2	0.75	233	190	2,077.9	0.58	239	54	33.2	0.57	458	58
	63,662.7	0.56	210	208	1,768.5	0.87	319	45	30.5	0.80	288	6
	53,486.2	0.48	232	71	1,582.9	0.22	138	81	29.0	0.65	395	144
	43,551.4	0.62	230	123	1,308.8	0.31	136	209	24.4	1.20	174	46
	37,405.5	0.68	239	75	1,172.1	0.62	253	100	24.3	0.05	88	50
	28,918.9	0.90	256	147	1,100.4	0.74	224	53	18.7	0.40	151	177
	26,793.6	0.32	151	183	1,040.9	0.48	87	8	14.9	0.07	116	92
	24,553.0	0.71	177	193	990.9	0.94	328	18	14.4	0.70	360	73
	22,573.6	0.57	251	189	571.9	0.61	276	169	14.1	0.60	367	52
	19,669.5	0.76	169	12	440.9	0.50	311	138	13.9	0.60	188	108
	16,343.2	0.62	213	70	419.3	0.11	178	119	13.5	0.15	92	210
	12,292.7	0.63	263	80	404.9	0.94	417	148	13.1	0.60	418	35
	12,049.4	0.76	221	146	402.4	0.24	127	215	12.3	0.60	144	76
	9,593.2	0.33	131	97	309.1	0.59	332	191	11.9	0.60	394	212
	8,643.5	0.61	221	129	266.7	0.60	396	172	9.7	0.50	402	79
	8,089.4	1.13	228	37	246.0	0.60	156	4	6.7	0.04	168	143
	7,862.1	0.78	211	156	155.1	0.35	177	142	5.7	0.30	153	89
	7,694.5	0.63	247	186	136.1	0.17	88	17	2.1	0.10	89	24
	6,971.0	0.22	140	117	128.6	0.64	352	155	2.0	0.10	81	16
	6,745.0	0.85	216	88	122.1	0.71	383	202				
	6,628.9	0.66	285	106	110.0	0.29	139	60				
	6,566.9	1.04	168	103	91.3	0.66	360	59				
	4,339.3	0.59	296	120	91.3	0.63	336	170				
	4,039.3	0.68	207	135	86.4	0.40	131	93				
	3,937.0	0.76	155	3	78.5	0.98	254	154				



Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Northern	105,152.9	0.39	88	195	42.7	0.40	152	201				
rockfish	23,499.5	0.21	92	210	24.8	0.40	253	100				
	20,630.5	0.50	136	209	24.6	0.90	177	193				
	20,432.9	0.47	131	97	23.6	0.37	246	69				
	7,362.9	0.36	117	211	19.6	0.45	163	206				
	4,389.1	0.80	87	8	17.3	0.70	233	190				
	3,929.5	0.46	151	183	15.4	0.70	232	71				
	3,182.3	0.46	88	17	14.9	0.35	180	197				
	2,328.7	0.55	136	187	14.5	0.60	84	30				
	1,771.9	0.67	168	103	14.2	0.70	81	16				
	1,674.8	0.54	120	164	12.7	0.70	246	160				
	1,663.2	0.38	116	92	12.4	0.60	221	129				
	1,256.8	0.52	139	60	12.3	0.60	296	120				
	1,244.6	0.48	140	117	11.2	0.50	183	194				
	983.3	0.52	90	196	11.0	0.50	138	219				
	932.0	0.42	147	220	10.7	0.50	90	14				
	726.7	0.55	127	215	8.6	0.40	230	123				
	600.7	0.47	95	32	8.4	0.40	285	106				
	361.1	0.37	138	81	7.0	0.20	86	162				
	315.6	0.42	76	179								
	273.0	0.45	168	161								
	182.8	0.43	89	173								
	181.2	0.41	89	24								
	136.6	0.04	216	88								
	125.8	0.86	157	56								
	72.4	0.36	86	166								
	70.7	0.58	255	38								
	65.4	0.38	156	61								
	60.2	0.36	76	9								
	59.7	0.54	169	12								
	57.9	0.58	167	159								
	56.2	0.65	131	93								
	53.4	0.80	228	37								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth		(kg/km <sup>2</sup> )	weight	Depth		(kg/km <sup>2</sup> )	weight	Depth	
Rougeye	3,187.0	1.19	383	202	115.3	1.33	418	35				
rockfish	2,100.1	0.97	232	71	84.9	1.03	177	193				
	2,047.2	1.31	328	18	83.9	1.43	458	58				
	1,649.9	0.62	151	183	68.5	1.80	288	6				
	1,596.8	2.16	260	171	64.9	1.65	417	148				
	1,589.1	0.73	221	146	64.2	1.30	233	190				
	1,533.0	1.03	311	138	60.1	0.60	228	37				
	1,511.3	1.58	396	172	48.5	0.80	255	38				
	1,283.7	1.29	267	96	47.3	0.55	470	165				
	1,088.6	1.60	360	73	46.4	2.00	287	145				
	1,088.4	1.25	395	144	40.0	1.90	285	106				
	1,078.7	0.86	296	120	33.1	1.40	187	21				
	1,041.5	0.69	183	194	27.5	1.10	210	208				
	1,034.0	1.38	411	72	27.2	1.50	436	7				
	1,010.8	1.17	352	155	16.1	0.80	224	53				
	972.6	0.88	319	45	15.8	0.60	120	164				
	896.1	1.49	336	170	10.3	0.50	239	54				
	844.2	1.44	372	102	10.2	0.50	178	119				
	794.0	1.63	276	169								
	640.5	1.41	435	184								
	397.9	0.96	433	118								
	291.8	1.63	360	59								
	252.7	1.81	394	212								
	251.4	1.52	423	85								
	226.1	0.78	216	88								
	187.9	1.16	332	191								
	178.2	1.53	402	79								
	178.1	0.39	140	117								
	165.2	1.52	246	160								
	165.1	1.30	220	188								
	164.3	1.07	213	70								
	158.6	1.40	425	86								
	143.6	2.57	397	192								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth			(kg/km <sup>2</sup> )	weight		Depth	(kg/km <sup>2</sup> )	
		(kg)	(m)			(kg)	(m)		(kg)	(m)	
Shortraker	5,463.2	1.38	296	120							
rockfish	5,399.5	1.94	411	72							
	4,748.3	9.94	328	18							
	4,132.7	1.73	395	144							
	3,006.8	1.90	372	102							
	2,981.4	1.37	433	118							
	2,867.0	1.46	352	155							
	2,730.8	1.70	383	202							
	2,524.9	4.24	260	171							
	2,326.7	1.91	311	138							
	2,208.5	3.78	396	172							
	2,206.7	2.71	267	96							
	2,164.4	1.98	435	184							
	1,828.2	4.01	276	169							
	906.2	3.29	417	148							
	880.8	5.49	319	45							
	803.9	1.44	470	165							
	779.8	2.13	423	85							
	581.4	2.17	360	73							
	533.4	0.79	397	192							
	369.7	0.96	332	191							
	171.1	4.30	394	212							
	65.7	2.90	425	86							

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Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth			(kg/km <sup>2</sup> )	weight		Depth	(kg/km <sup>2</sup> )	weight	
Shortspine	2,699.8	0.21	394	212								
thornyhead	2,159.5	0.29	352	155								
	1,862.5	0.79	332	191								
	1,780.0	0.41	319	45								
	1,468.3	0.37	435	184								
	985.2	0.61	383	202								
	945.6	0.30	397	192								
	889.9	0.58	395	144								
	829.9	0.53	210	208								
	784.7	0.34	328	18								
	320.3	0.88	470	165								
	299.5	2.23	183	194								
	294.8	0.84	396	172								
	279.0	0.30	433	118								
	193.1	1.04	296	120								
	174.1	0.83	250	218								
	145.5	0.67	417	148								
	137	0.65	372	102								
	102	1.70	251	189								
	41.7	0.45	287	145								
	36.3	1.60	425	86								
	8.7	0.40	239	178								
	8.4	0.40	167	213								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Arrowtooth	26,612.8	0.90	173	33	1,323.6	0.66	138	219	308.9	0.85	411	72
flounder	14,170.7	0.99	155	3	1,310.7	3.15	276	149	292.4	1.19	143	95
	14,112.5	1.32	246	69	1,212.3	0.27	84	174	285.5	2.10	425	86
	11,903.9	1.22	221	129	1,211.4	1.67	253	100	277.0	1.04	228	37
	11,426.1	1.02	207	135	1,188.8	0.89	150	167	269.2	0.79	152	201
	10,948.9	0.49	144	91	1,155.5	3.90	233	190	269.2	0.60	402	79
	8,027.0	0.59	162	64	1,130.6	1.07	227	198	261.6	1.63	254	154
	7,757.3	0.94	224	53	1,112.6	0.60	127	215	257.2	0.14	78	34
	7,737.2	1.41	240	84	1,088.5	0.57	133	126	238.9	2.58	287	145
	7,498.2	1.24	145	112	1,064.3	0.97	319	45	236.3	0.98	255	38
	6,945.5	0.63	188	108	1,006.2	2.66	285	106	224.2	2.44	352	155
	6,081.0	0.91	288	6	986.2	1.14	296	120	222.8	3.47	383	202
	5,862.4	0.34	187	21	916.5	1.69	436	7	214.0	0.46	168	103
	4,856.0	0.56	172	109	752.5	2.76	256	147	203.8	1.67	267	96
	3,881.1	0.29	115	25	746.4	2.35	360	59	193.8	0.80	159	141
	3,862.7	1.27	230	123	737.6	1.49	168	143	182.6	0.16	68	26
	3,704.1	1.17	213	70	640.3	0.08	105	67	174.0	0.19	99	27
	3,583.5	1.27	169	12	615.0	0.42	79	217	171.0	2.53	155	163
	3,470.0	1.90	189	205	610.5	0.25	85	23	163.6	2.00	178	119
	3,323.5	1.18	239	75	538.1	0.72	151	177	161.1	0.32	120	164
	3,166.9	0.77	263	80	533.4	3.80	396	172	159.8	0.89	167	159
	2,862.8	0.79	135	207	525.6	1.59	147	220	156.9	0.46	127	176
	2,706.3	1.27	228	137	509.2	0.57	116	203	150.9	1.44	177	142
	2,533.2	1.05	181	136	489.2	0.40	138	81	148.6	0.47	222	47
	2,125.9	0.52	124	5	434.0	0.40	148	157	147.0	1.62	246	160
	2,109.7	0.86	163	206	425.2	0.34	81	16	129.4	0.25	90	196
	2,096.8	0.52	116	2	402.5	1.09	418	35	122.2	0.56	188	55
	2,034.6	1.26	260	171	396.3	0.34	88	17	120.3	1.16	336	170
	1,931.7	1.02	276	169	394.7	0.91	239	178	114.3	2.45	168	161
	1,853.8	0.82	156	4	360.8	0.67	360	73	111.5	0.31	119	181
	1,827.4	0.77	90	158	348.7	1.21	211	156	108.1	0.77	165	140
	1,823.3	1.51	328	18	348.0	4.23	435	184	107.5	0.13	54	204
	1,679.1	0.95	180	197	337.5	0.49	183	194	101.0	5.00	332	191
	1,621.2	1.80	232	71	316.6	0.95	91	200	96.9	1.08	147	98

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul
Arrowtooth	93.5	0.42	75	127								
flounder	91.7	2.50	423	85								
	81.3	1.33	155	124								
	78.4	0.44	216	88								
	71.9	0.34	104	199								
	68.5	0.36	177	193								
	67.5	0.53	167	213								
	62.7	0.19	76	179								
	60.4	0.13	89	24								
	60.0	0.48	210	208								
	47.0	0.67	132	74								
	46.8	2.40	458	58								
	41.1	0.24	95	32								
	35.4	1.80	417	148								
	30.4	0.07	106	110								
	29.2	0.11	54	20								
	28.8	0.08	120	131								
	23.5	1.00	367	52								
	22.8	0.33	91	175								
	21.5	0.50	90	14								
	21.1	0.33	89	115								
	17.1	0.27	118	128								
	13.9	0.05	85	78								
	13.3	0.20	124	28								
	13.2	0.60	164	134								
	12.8	0.60	107	114								
	12.5	0.60	76	9								
	12.2	0.60	174	46								
	11.0	0.17	79	15								
	11.0	0.50	171	48								
	10.9	0.25	84	13								
	9.0	0.40	139	60								
	4.3	0.10	131	93								
	3.5	0.10	86	162								

Catch during the 1994 Aleutian Islands 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 halibut	14,639.5	5.44	198	57	2,259.8	4.87	88	50	951.0	7.55	138	81
	11,668.2	2.68	119	51	2,241.3	24.75	86	166	928.5	2.82	132	74
	7,058.8	4.22	99	27	2,184.7	5.28	147	63	922.1	10.05	129	150
	6,956.1	7.96	89	214	2,124.1	17.83	360	59	864.7	9.60	222	47
	6,512.5	4.78	157	56	2,079.3	5.68	79	217	837.3	2.71	169	12
	5,735.3	9.07	156	61	2,044.3	4.97	105	67	836.8	9.24	436	7
	4,387.1	4.29	84	13	1,988.3	4.56	188	55	824.7	9.55	135	207
	4,270.7	7.73	78	34	1,987.3	14.19	165	140	810.0	20.05	255	38
	4,270.2	2.73	79	15	1,873.2	7.45	140	117	808.8	6.04	153	89
	4,252.5	8.58	133	126	1,853.9	5.08	91	175	790.8	2.48	79	122
	4,189.9	2.71	90	14	1,832.4	2.45	76	9	778.0	4.57	150	167
	3,614.9	9.96	88	17	1,783.4	2.72	144	76	749.4	2.23	85	23
	3,574.7	4.13	140	39	1,701.2	8.76	90	158	734.6	8.58	246	69
	3,545.8	8.42	124	28	1,698.2	8.35	174	46	730.8	11.40	240	84
	3,391.6	6.02	87	8	1,692.9	13.37	167	213	728.7	4.84	127	176
	3,299.7	8.34	89	24	1,672.2	3.04	115	25	707.3	3.90	207	135
	3,296.2	4.60	86	132	1,653.8	4.15	120	131	702.8	4.83	145	112
	3,259.6	4.38	147	98	1,489.8	9.59	147	105	702.4	4.70	107	114
	3,200.7	1.89	66	11	1,405.5	8.53	94	153	695.8	4.18	91	200
	3,120.2	9.67	173	33	1,398.9	9.49	89	115	673.1	2.53	84	30
	3,024.6	1.52	33	19	1,359.5	4.46	155	124	657.4	33.70	458	58
	3,010.8	5.92	75	127	1,352.3	2.40	59	41	646.2	3.03	91	99
	3,010.5	5.27	164	134	1,316.3	8.97	125	68	629.7	7.83	224	53
	2,900.3	2.02	54	20	1,280.4	0.88	51	10	627.9	15.35	178	119
	2,856.9	4.55	139	60	1,253.0	14.95	177	142	607.0	4.33	66	66
	2,746.9	5.28	16	29	1,180.3	6.32	172	109	604.7	9.43	152	201
	2,739.2	6.94	171	48	1,166.3	7.06	187	21	596.6	6.43	188	108
	2,627.2	3.73	83	113	1,138.7	12.40	113	139	581.4	21.30	181	136
	2,599.0	7.74	162	64	1,131.7	5.07	143	95	581.0	11.55	328	18
	2,546.6	14.65	106	110	1,058.9	2.44	68	26	572.2	6.30	144	91
	2,460.5	6.84	122	42	1,032.8	21.70	260	171	500.4	3.90	118	128
	2,399.0	33.77	221	146	975.9	23.75	296	120	496.4	7.60	163	206
	2,394.6	2.26	81	16	971.5	11.38	116	92	492.0	2.24	91	130
	2,300.2	3.60	112	82	67.7	3.20	104	199	488.9	11.10	159	141

Catch during the 1994 Aleutian Islands 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	472.0	5.73	221	129								
halibut	464.0	2.23	85	78								
	438.7	1.93	116	2								
	425.0	6.53	228	137								
	406.0	17.40	168	161								
	397.5	18.00	147	220								
	391.5	2.90	131	97								
	381.3	17.40	138	219								
	358.2	2.67	54	204								
	345.2	16.40	285	106								
	339.2	3.14	95	32								
	335.7	4.05	239	75								
	328.3	3.04	131	93								
	305.1	13.30	319	45								
	281.2	12.00	114	168								
	278.9	12.40	168	143								
	266.5	6.20	230	123								
	264.8	11.30	89	173								
	261.1	4.03	156	4								
	255.1	1.69	76	179								
	248.8	11.60	411	72								
	233.9	5.30	168	103								
	199.5	2.87	108	180								
	197.8	4.55	124	5								
	184.5	8.20	155	163								
	178.2	2.60	148	157								
	173.5	5.30	89	152								
	151.2	7.60	394	212								
	121.8	3.20	288	6								
	116.8	1.87	155	3								
	73.7	2.10	86	162								
	66.2	2.90	84	174								
	55.9	2.80	167	159								



Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Kamchatka	16,668.5	1.64	418	35	319.4	1.81	328	18	89.4	0.37	239	178
flounder	6,324.8	1.16	240	84	316.6	0.63	228	137	84.5	0.51	221	129
	4,540.6	2.46	417	148	315.1	1.41	183	194	77.7	0.60	156	4
	3,143.6	1.28	260	171	297.7	2.32	383	202	75.1	0.68	147	220
	2,561.8	2.29	336	170	281.7	2.30	276	149	73.5	0.18	138	81
	2,272.0	1.39	394	212	258.2	1.23	250	218	72.1	0.32	133	126
	1,808.4	3.51	396	172	227.7	0.67	167	159	70.0	3.00	168	161
	1,771.5	0.74	239	75	226.1	0.49	150	167	69.8	0.54	162	64
	1,705.2	0.73	144	91	222.7	0.68	402	79	69.0	0.27	90	196
	1,601.8	4.17	251	189	221.2	4.90	372	102	59.4	0.19	84	174
	1,416.5	2.64	470	165	220.6	0.41	360	73	43.9	0.40	79	217
	1,300.3	2.98	360	59	207.9	0.25	148	157	43.2	0.29	76	179
	1,172.4	2.56	423	85	197.2	4.90	254	154	42.2	0.70	224	53
	1,164.7	1.84	425	86	189.5	0.75	285	106	35.7	0.32	119	181
	1,116.0	3.77	233	190	189.4	0.42	127	215	33.4	1.00	228	37
	1,111.6	0.81	246	69	187.1	3.95	221	146	30.2	0.43	188	108
	1,072.7	0.63	207	135	170.6	0.40	135	207	25.4	0.30	104	199
	992.6	5.36	435	184	170.5	3.30	433	118	20.8	0.50	91	200
	807.4	3.29	395	144	165.2	1.30	246	160	20.0	0.33	165	140
	764.5	1.66	232	71	165.0	0.36	90	158	16.4	0.23	151	177
	760.5	1.19	276	169	152.9	0.93	181	136	16.2	0.70	108	180
	705.2	0.65	145	112	151.2	0.46	138	219	15.0	0.30	210	208
	629.8	1.98	256	147	144.4	1.85	458	58	14.5	0.23	172	109
	608.0	0.68	263	80	139.5	0.44	227	198	14.5	0.70	253	100
	495.2	1.27	296	120	139.5	1.93	436	7	14.3	0.14	144	76
	481.5	2.91	352	155	136.4	0.38	180	197	13.4	0.30	216	88
	465.5	1.13	177	193	133.0	2.90	319	45	11.2	0.50	168	143
	441.6	0.93	288	6	130.6	0.43	163	206	10.9	0.13	124	5
	412.2	3.68	397	192	130.1	1.37	220	188	10.7	0.17	127	176
	411.8	1.88	213	70	125.2	0.54	116	203	9.4	0.40	132	74
	408.2	2.93	287	145	107.7	0.73	167	213	7.0	0.10	86	162
	386.7	1.90	311	138	104.7	0.35	152	201	6.4	0.15	118	128
	373.3	0.87	411	72	94.6	0.55	230	123	4.6	0.05	85	78
	369.7	4.58	332	191	90.0	4.00	155	163	2.6	0.10	120	164

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species												
	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul
Flathead	11,188.8	0.17	187	21	129.7	0.23	76	179	8.3	0.20	91	200
sole	5,463.1	0.20	144	91	117.1	0.54	87	8	4.1	0.20	360	73
	4,123.3	0.15	162	64	116.5	0.34	156	4	4.1	0.20	75	127
	3,009.5	0.66	115	25	103.2	0.69	230	123				
	1,461.2	0.53	328	18	99.5	0.29	90	158				
	1,339.9	0.46	288	6	91.3	0.18	84	174				
	1,284.6	0.17	163	206	84.5	0.29	120	164				
	1,212.9	0.16	148	157	66.5	1.10	88	17				
	1,012.5	0.49	436	7	62.6	0.56	183	194				
	773.5	0.23	227	198	60.0	0.65	85	78				
	755.2	0.58	189	205	59.7	0.54	169	12				
	728.2	0.32	124	5	55.9	0.46	54	20				
	710.8	0.26	116	203	54.6	1.20	256	147				
	667.1	0.13	135	207	54.2	0.52	89	24				
	569.7	0.67	81	16	49.2	1.20	144	76				
	558.3	0.33	180	197	47.3	0.70	133	126				
	538.3	0.48	155	3	45.4	0.30	105	67				
	525.9	0.35	138	219	44.9	0.53	152	201				
	513.6	0.66	285	106	39.0	0.90	88	195				
	394.8	0.39	117	211	37.5	1.60	114	168				
	320.4	0.59	177	193	29.7	1.30	91	175				
	251.8	1.40	92	210	28.7	0.43	79	15				
	244.2	0.60	246	69	28.1	0.60	151	177				
	230.0	0.74	239	75	26.5	0.40	147	220				
	227.9	0.52	116	2	26.1	0.20	99	27				
	214.3	0.47	221	129	20.7	0.50	253	100				
	198.8	0.34	127	215	20.1	1.00	254	154				
	171.4	0.31	104	199	17.6	0.90	458	58				
	164.3	0.42	68	26	17.2	0.90	250	218				
	161.4	0.46	239	178	16.4	0.80	296	120				
	143.9	0.78	188	108	10.0	0.10	210	208				
	134.3	0.38	54	204	8.8	0.40	213	70				
	131.3	0.39	263	80	8.4	0.20	85	23				

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Rock sole	11,082.2	0.28	91	175	1,578.8	0.58	81	16	612.4	0.36	165	140
	7,579.9	0.71	92	210	1,560.7	0.41	145	112	586.0	0.21	91	130
	7,399.2	0.33	90	158	1,555.3	0.35	127	215	577.1	0.13	76	179
	7,086.8	0.19	84	174	1,530.9	0.50	172	109	566.8	0.34	180	197
	5,840.7	0.37	120	164	1,500.0	0.46	152	201	559.9	0.69	164	134
	5,364.6	0.74	33	19	1,460.5	0.70	189	205	556.4	0.38	147	98
	5,301.4	0.67	51	10	1,266.2	0.31	159	141	539.5	0.31	119	181
	4,639.4	0.73	147	63	1,251.4	0.68	207	135	539.3	0.22	89	115
	4,213.2	0.53	54	20	1,242.6	0.39	107	114	537.4	0.42	230	123
	4,136.6	0.33	66	66	1,240.9	0.52	156	4	526.6	0.32	132	74
	3,997.2	0.57	167	159	1,195.7	0.25	91	200	509.4	0.61	139	60
	3,810.5	0.20	116	203	1,184.7	0.33	124	5	495.8	1.33	16	29
	3,697.6	0.30	94	153	1,085.2	0.76	112	82	474.1	0.39	150	167
	3,499.6	0.26	104	199	1,080.3	0.46	76	9	470.4	0.26	86	162
	3,467.2	0.60	78	34	1,069.6	0.48	221	129	459.7	0.57	263	80
	3,320.6	0.33	89	24	963.0	0.23	120	131	442.2	0.47	211	156
	3,177.5	0.52	138	219	951.5	0.36	116	2	431.4	0.32	108	180
	3,096.0	0.50	163	206	934.9	0.25	85	78	422.7	0.26	90	196
	2,962.0	0.30	75	127	926.4	0.46	155	3	420.6	0.65	239	75
	2,736.6	0.50	85	23	910.4	0.23	106	110	414.7	0.55	285	106
	2,690.7	0.42	68	26	903.6	0.46	254	154	377.2	0.34	177	142
	2,559.1	0.42	88	17	888.5	0.41	59	41	368.7	0.77	87	8
	2,539.7	0.48	66	11	806.9	0.43	239	178	351.5	0.34	89	173
	2,493.4	0.32	127	176	800.0	0.43	253	100	323.1	0.68	246	160
	2,395.7	0.44	90	14	793.7	0.46	79	122	322.0	0.30	91	99
	2,312.3	0.33	144	76	758.6	0.60	156	61	292.9	0.38	117	211
	2,285.1	0.32	133	126	751.9	0.68	95	32	269.5	0.61	169	12
	2,147.3	0.46	188	108	739.5	0.30	79	217	253.1	0.33	114	168
	2,119.5	0.67	115	25	729.8	0.41	256	147	250.0	0.78	240	84
	2,097.6	0.55	79	15	686.0	0.42	86	166	222.0	0.37	147	105
	1,978.9	0.25	113	139	644.9	0.48	276	169	208.2	0.65	276	149
	1,771.0	0.37	88	195	639.7	0.67	228	137	207.6	0.44	143	95
	1,746.1	0.22	54	204	638.2	0.58	147	220	203.0	0.44	89	152
	1,654.0	0.34	151	177	619.8	0.73	99	27	203.0	0.42	168	103

Catch during the 1994 Aleutian Islands 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
Rock sole	193.8	0.64	84	13								
	170.5	0.64	296	120								
	164.4	0.51	105	67								
	162.5	0.72	372	102								
	159.8	0.83	84	30								
	152.9	0.80	181	136								
	142.3	0.70	155	124								
	140.7	0.43	83	113								
	138.0	0.48	260	171								
	135.0	0.55	155	163								
	134.7	0.30	86	132								
	116.4	0.74	216	88								
	105.8	0.49	131	93								
	102.7	0.70	125	68								
	99.3	0.43	227	198								
	94.4	0.57	187	21								
	92.0	0.43	118	128								
	89.7	0.35	116	92								
	88.5	0.59	135	207								
	87.4	0.22	89	214								
	85.6	0.56	151	183								
	53.6	0.54	360	59								
	45.4	0.40	144	91								
	43.2	0.37	417	148								
	27.8	0.60	287	145								
	21.3	0.45	221	146								
	19.9	0.23	88	50								
	18.9	0.45	138	81								
	18.0	0.80	222	47								
	18.0	0.13	122	42								
	15.0	0.70	383	202								
	14.8	0.70	167	213								
	10.7	0.50	246	69								
	4.5	0.07	119	51								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	Average		Gear		CPUE (kg/km <sup>2</sup> )	Average		Gear		CPUE (kg/km <sup>2</sup> )	Average		Gear		
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	Haul		CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	Haul	
Greenland	22,833.2	5.53	423	85											
turbot	16,518.4	3.04	418	35											
	9,501.2	2.55	411	72											
	4,540.1	2.51	394	212											
	4,458.3	2.35	402	79											
	2,884.6	6.85	396	172											
	2,657.5	3.86	417	148											
	2,378.3	3.65	436	7											
	2,110.2	5.91	360	59											
	1,543.4	3.99	470	165											
	1,451.9	2.60	395	144											
	1,096.7	3.46	425	86											
	933.5	3.75	336	170											
	754.4	3.96	260	171											
	533.4	4.32	435	184											
	372.6	3.82	458	58											
	321.3	3.75	383	202											
	302.1	4.67	156	4											
	213.2	2.80	288	6											
	191.9	4.40	239	178											
	183.5	4.45	360	73											
	176.6	7.70	319	45											
	140.8	2.80	328	18											
	121.0	5.80	155	3											
	119.5	6.50	352	155											
	112.8	5.90	250	218											

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species												
	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul
Rex sole	3,029.4	0.70	155	3	122.7	0.69	395	144	13.0	0.30	135	207
	1,389.8	0.58	156	4	115.4	0.64	394	212	9.1	0.20	84	174
	1,099.5	0.65	180	197	109.7	0.73	173	33	6.4	0.30	118	128
	1,029.7	0.66	288	6	105.1	0.22	148	157	4.6	0.20	113	139
	1,012.5	0.87	285	106	103.0	0.50	221	129	2.2	0.10	213	70
	855.3	0.51	254	154	100.4	0.48	120	164				
	753.8	0.64	287	145	97.3	0.77	104	199				
	750.8	0.56	92	210	86.7	0.54	68	26				
	743.9	0.59	227	198	84.4	0.68	435	184				
	520.6	0.50	328	18	82.2	0.67	296	120				
	478.6	0.71	372	102	75.1	0.49	169	12				
	476.2	0.39	411	72	69.6	0.75	188	108				
	438.3	0.61	239	178	68.5	0.63	177	193				
	397.8	0.65	124	5	67.0	0.53	436	7				
	364.1	0.54	402	79	65.9	0.66	167	159				
	298.8	1.15	88	195	56.1	1.30	90	196				
	287.1	0.45	138	219	55.7	0.52	246	69				
	279.8	0.61	115	25	52.1	0.44	127	215				
	261.8	0.37	360	73	47.3	0.20	230	123				
	245.7	0.59	99	27	46.8	0.67	396	172				
	225.1	0.82	276	169	43.5	0.67	418	35				
	186.7	0.79	417	148	39.9	0.53	116	2				
	186.1	0.64	253	100	36.3	0.27	144	91				
	182.2	0.47	117	211	35.1	0.75	151	177				
	165.4	0.41	352	155	34.2	0.80	152	201				
	165.3	0.29	187	21	28.2	0.19	228	137				
	164.9	0.55	383	202	28.0	0.50	397	192				
	157.7	0.84	336	170	27.2	0.90	88	17				
	157.6	0.34	162	64	24.3	0.33	90	158				
	150.1	0.73	256	147	21.9	0.90	150	167				
	140.8	0.35	183	194	19.9	1.00	360	59				
	133.7	0.84	425	86	17.4	0.80	163	206				
	122.9	0.58	263	80	15.5	0.70	147	220				

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average weight	Gear Depth	Haul	CPUE (kg/km <sup>2</sup> )	Average weight	Gear Depth	CPUE (kg/km <sup>2</sup> )	Average weight	Gear Depth	Haul
	(kg/km <sup>2</sup> )	(kg)	(m)			(kg)	(m)		(kg)	(m)	
Dover	440.1	1.09	328	18							
sole	210.7	1.55	425	86							
	156.1	1.40	395	144							
	117.6	1.28	352	155							
	102.5	4.10	210	208							
	30.2	0.43	287	145							
	27.3	0.40	256	147							
	22.7	1.10	435	184							
	13.0	0.60	117	211							
	8.4	0.40	177	142							
	8.1	0.40	254	154							
	6.2	0.30	360	73							
Sidestripe shrimp											
	7.5	0.01	328	18							
	2.2	0.05	147	105							
	2.2	0.10	156	61							
	2.2	0.01	418	35							
	2.0	0.10	178	119							
	2.0	0.10	155	124							
Red king crab	475.7	3.90	75	127							
	199.6	1.53	117	211							
	112.1	4.80	66	66							
	99.0	4.80	360	73							
	81.0	3.60	168	143							
	46.1	2.20	177	142							
	6.5	0.20	89	152							

Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth			(kg/km <sup>2</sup> )	weight			Depth	(kg/km <sup>2</sup> )	
		(kg)	(m)			(kg)	(m)			(kg)	(m)	
Golden	450.1	2.25	246	160	8.7	0.20	88	195				
king crab	416.4	2.50	260	171	8.0	0.40	394	212				
	234.4	1.19	213	70	4.5	0.10	425	86				
	164.1	1.12	276	149	2.7	0.10	94	153				
	118.6	1.08	232	71	2.4	0.10	221	146				
	118.2	1.00	251	189	2.3	0.10	86	166				
	112.6	0.93	276	169	2.0	0.10	458	58				
	108.5	1.12	402	79	1.9	0.03	397	192				
	93.6	1.53	174	46								
	87.8	1.70	433	118								
	83.0	1.00	336	170								
	82.6	0.30	423	85								
	67.8	1.07	263	80								
	65.4	1.55	167	213								
	52.5	1.30	332	191								
	47.6	0.75	220	188								
	45.0	0.70	411	72								
	41.4	0.90	198	57								
	41.3	0.38	418	35								
	40.8	1.90	470	165								
	40.6	0.63	240	84								
	39.1	0.38	435	184								
	38.1	0.43	216	88								
	36.7	0.53	319	45								
	34.9	1.60	188	55								
	34.8	1.50	287	145								
	30.3	1.50	255	38								
	25.2	1.20	157	56								
	24.2	1.20	254	154								
	22.5	1.00	222	47								
	22.3	1.00	395	144								
	22.2	0.90	233	190								
	22.1	1.10	224	53								
	11.9	0.20	360	59								



Catch during the 1994 Aleutian Islands Survey by the F/V Vesteraalen.

Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth			(kg/km <sup>2</sup> )	weight			Depth	(kg/km <sup>2</sup> )	
	(kg/km <sup>2</sup> )	(kg)	(m)		(kg/km <sup>2</sup> )	(kg)	(m)		(kg/km <sup>2</sup> )	(kg)	(m)	
Broad	120.3	0.35	144	91								
snow crab	77.7	0.09	148	157								
	51.9	0.55	187	21								
	30.2	0.05	135	207								
	21.4	0.45	260	171								
	19.6	0.08	163	206								
	17.4	0.30	402	79								
	10.9	0.10	436	7								
	9.7	0.13	90	158								
	6.4	0.15	411	72								
	6.1	0.20	276	169								
	4.3	0.10	105	67								
	2.6	0.05	162	64								
	2.2	0.10	147	220								
	2.2	0.05	159	141								
	2.2	0.10	418	35								
	2.2	0.02	124	5								
	2.1	0.03	116	203								
	2.1	0.10	125	68								
	2.1	0.10	177	142								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesterdaalen.

Species												
	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	Average weight (kg)	Gear Depth (m)	Haul
Chlamy	12.0	0.07	165	140	2.1	0.03	89	24				
scallops	11.3	0.04	86	166	2.1	0.10	221	129				
	11.0	0.06	79	217	2.0	0.10	155	124				
	10.8	0.03	131	93								
	10.7	0.03	127	176								
	9.0	0.01	168	143								
	6.7	0.03	143	95								
	6.5	0.04	99	27								
	6.5	0.03	173	33								
	5.2	0.10	207	135								
	4.7	0.07	66	66								
	4.5	0.10	131	97								
	4.4	0.10	120	131								
	4.4	0.02	151	183								
	4.4	0.10	89	214								
	4.3	0.10	90	196								
	4.2	0.04	85	23								
	4.2	0.03	76	9								
	4.1	0.05	172	109								
	3.6	0.10	211	156								
	3.5	0.10	86	162								
	3.0	0.02	88	17								
	2.5	0.03	59	41								
	2.4	0.03	54	20								
	2.3	0.03	151	177								
	2.3	0.10	188	108								
	2.3	0.02	115	25								
	2.2	0.03	159	141								
	2.2	0.10	86	132								
	2.2	0.10	105	67								
	2.1	0.05	90	14								
	2.1	0.10	78	34								
	2.1	0.10	116	203								
	2.1	0.02	177	142								

Catch during the 1994 Aleutian Islands Survey by the F/V Vesterdaalen.

Species	Average weight				Average weight				Average weight			
	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	(kg)	Gear Depth (m)	Haul
Red squid	60,130.5	0.48	210	208	17.9	0.45	360	59				
	366.0	0.46	189	205	15.5	0.30	433	118				
	327.1	0.37	250	218	12.9	0.20	383	202				
	323.4	0.28	319	45	11.8	0.40	251	189				
	193.7	0.34	402	79	11.7	0.17	367	52				
	155.2	0.37	394	212	10.4	0.25	336	170				
	149.2	0.29	397	192	9.1	0.40	86	166				
	145.0	0.36	425	86	8.6	0.40	76	179				
	133.3	0.16	328	18	8.0	0.20	224	53				
	121.8	0.26	288	6	6.6	0.30	169	12				
	105.1	0.33	411	72	6.4	0.30	240	84				
	105.0	0.39	435	184	6.2	0.30	253	100				
	93.7	0.38	395	144	4.2	0.20	227	198				
	84.9	0.38	183	194	4.0	0.20	255	38				
	77.9	0.33	167	159	2.3	0.10	115	25				
	61.9	0.52	260	171								
	60.8	0.33	396	172								
	58.0	0.46	436	7								
	49.4	0.33	470	165								
	45.7	0.18	418	35								
	40.2	0.27	263	80								
	38.0	0.45	167	213								
	32.9	0.30	177	193								
	31.6	0.23	372	102								
	30.4	1.00	276	169								
	29.5	0.50	417	148								
	28.9	0.30	247	186								
	28.5	0.28	267	96								
	26.8	0.40	119	181								
	26.0	0.60	88	195								
	25.5	0.37	287	145								
	23.9	0.43	423	85								
	18.0	0.50	211	156								



Section 2

Fishing Log for the F/V *Pacific Knight*

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

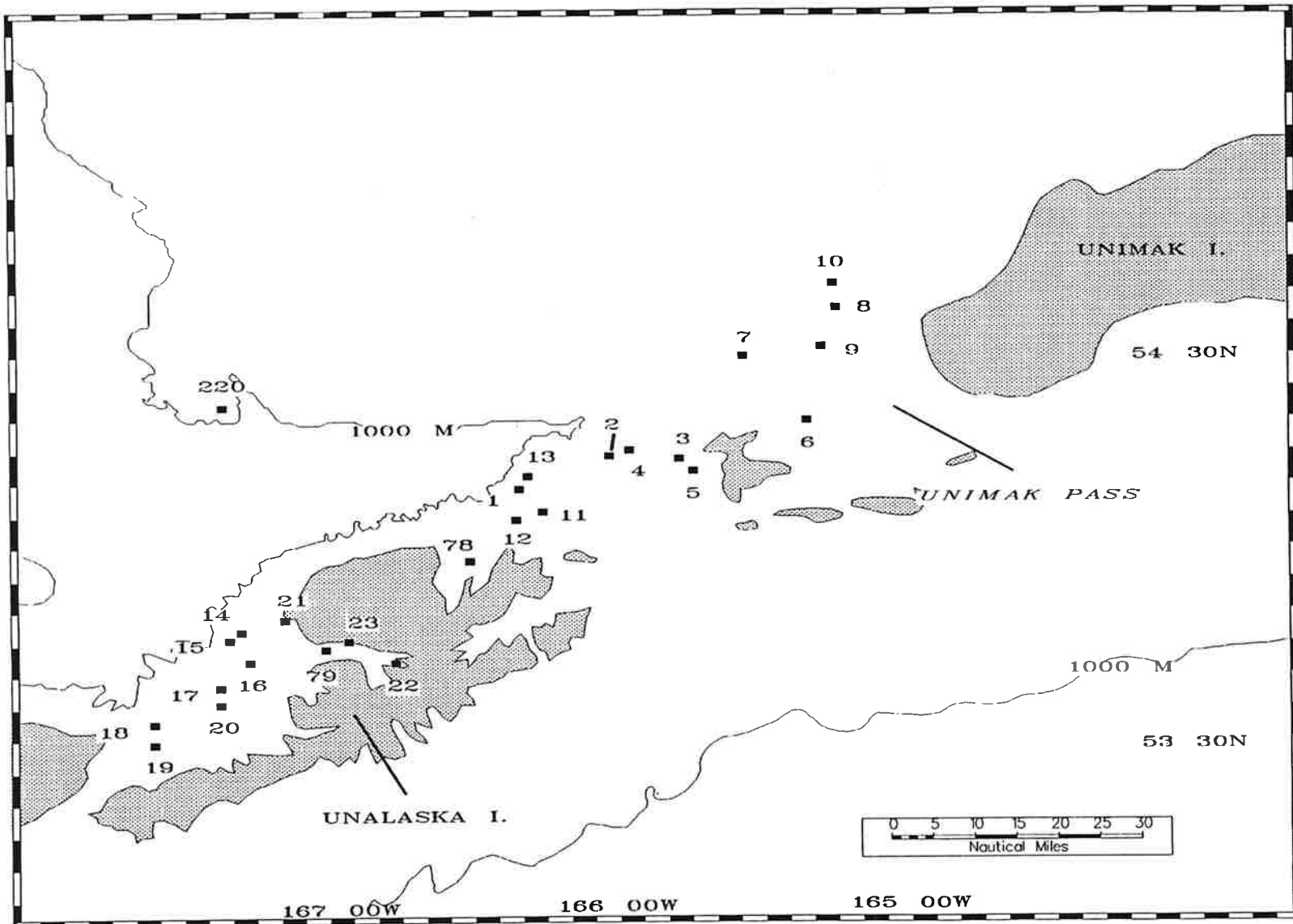


Figure 8.--Stations surveyed by the chartered trawler Pacific Knight from Unimak Island to Unalaska Island (hauls 1-23, 78-79 and 220).

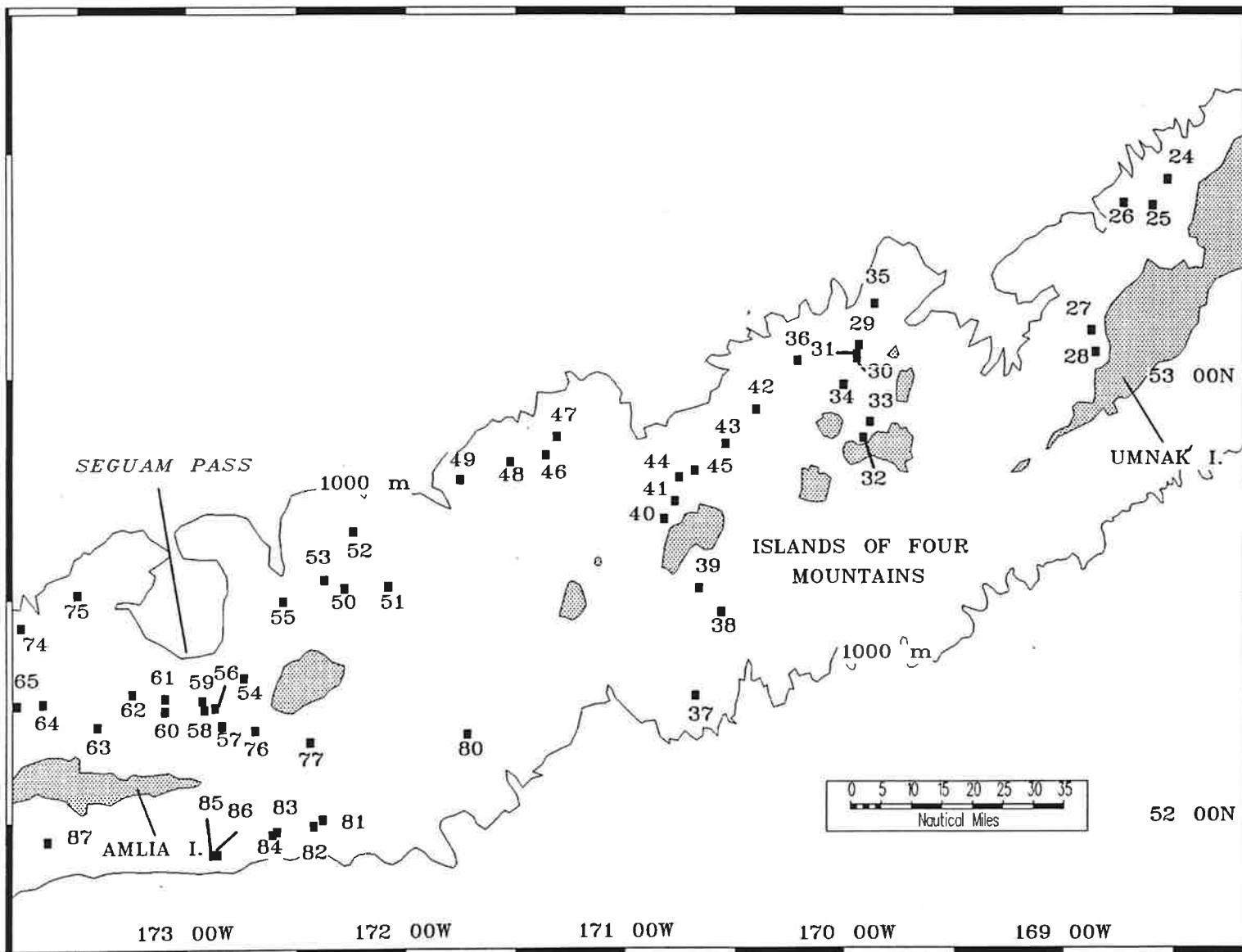


Figure 9.--Stations surveyed by the chartered trawler Pacific Knight from Umnak Island to Amlia Island (hauls 24-65, 74-77 and 80-87).

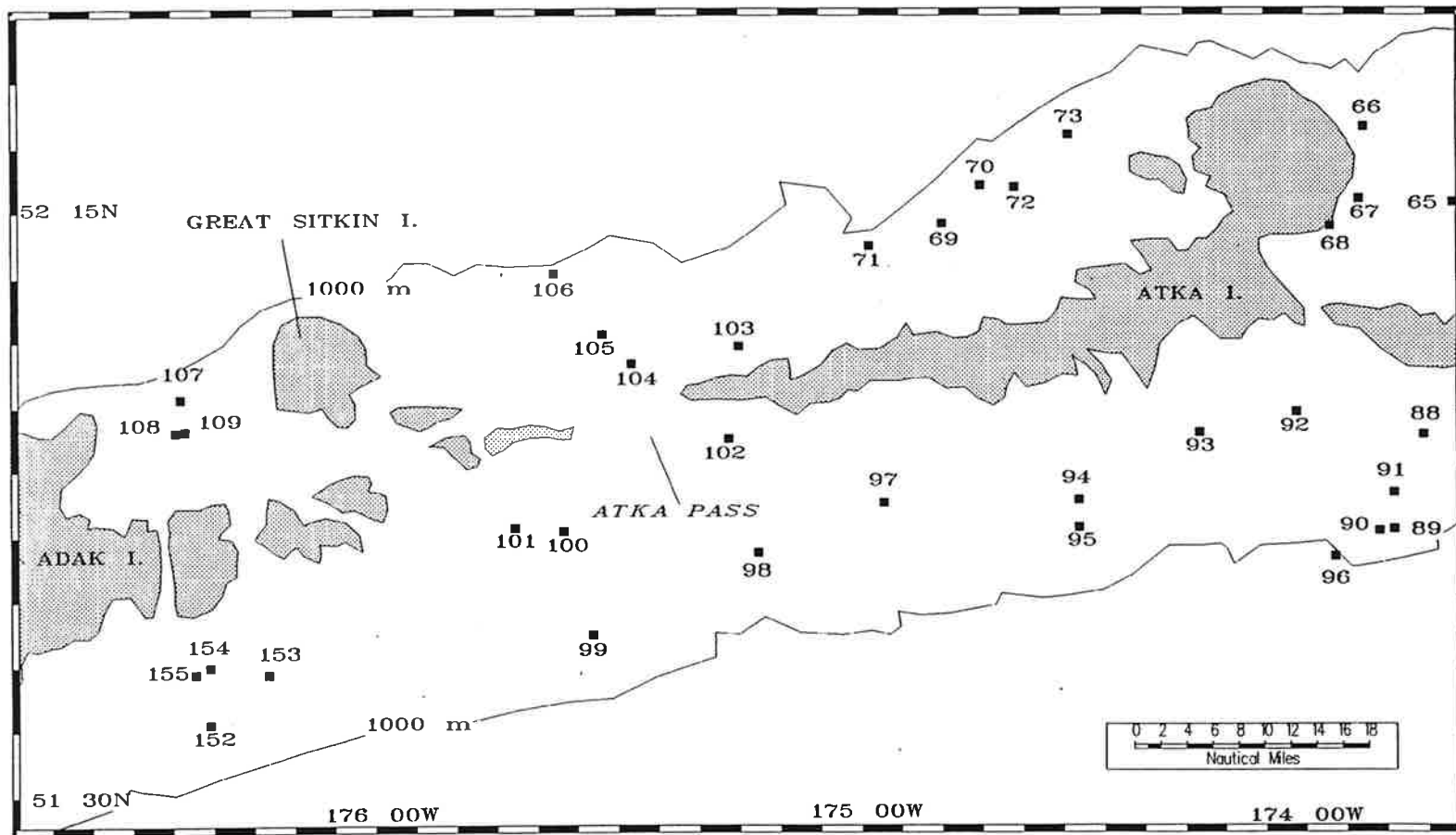


Figure 10. --Stations surveyed by the chartered trawler Pacific Knight from Atka Island to Adak Island (hauls 65-73, 88-109 and 152-155).



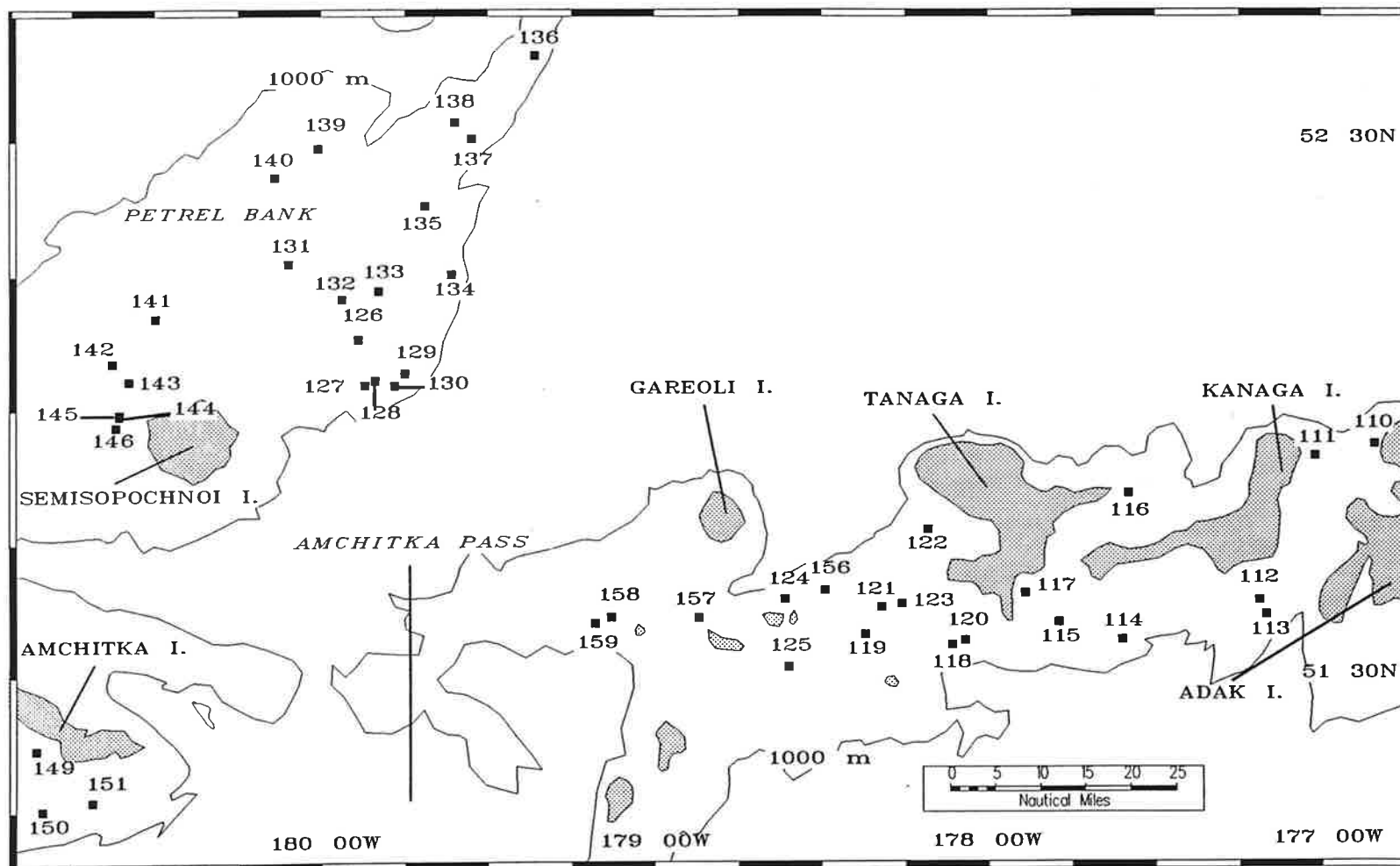


Figure 11.--Stations surveyed by the chartered trawler Pacific Knight from Adak Island to Amchitka Island (hauls 110-146, 149-151 and 156-159).

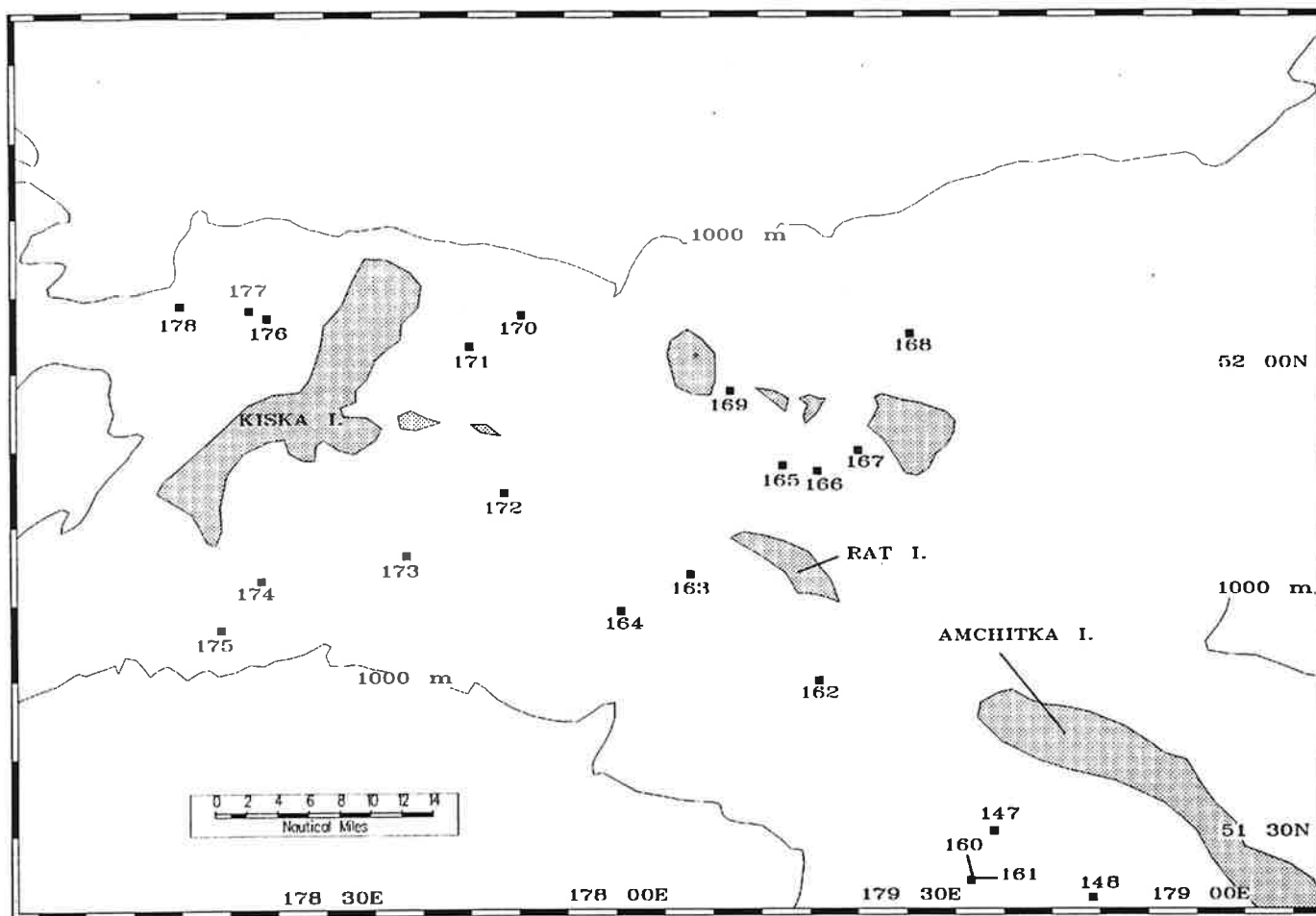


Figure 12. --Stations surveyed by the chartered trawler Pacific Knight from Amchitka Island to Kiska island (hauls 147-148 and 160-178).

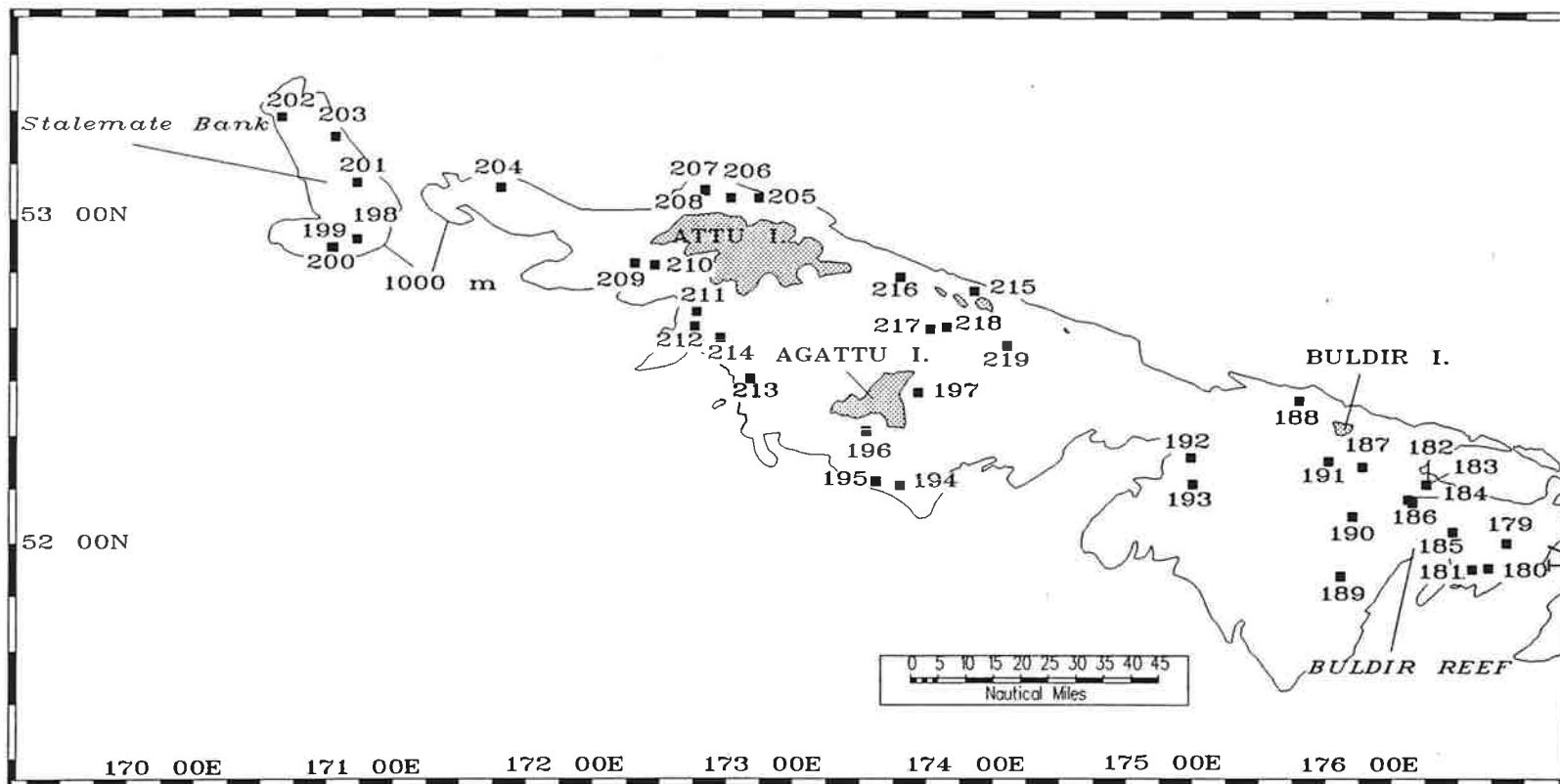


Figure 13. --Stations surveyed by the chartered trawler Pacific Knight from Buldir Reef to Stalemate Bank (hauls 179-219).



## Section 2 (continued)

Fishing Log for the F/V *Pacific Knight*

- Summary listings of species catches by haul
  - Haul start latitude and longitude  
(E indicates east longitude, default is W)
  - Loran readings
  - 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

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	1	2	3	4	5	6	7	8	9	10	11
Start date & time	6/3/94 12:00	6/3/94 16:00	6/4/94 7:00	6/4/94 11:00	6/4/94 15:00	6/4/94 19:00	6/5/94 8:00	6/5/94 14:00	6/5/94 17:00	6/5/94 19:00	6/6/94 7:00
Start latitude	5409	5414.1402	5413.6902	5415.06	5411.8098	5419.71	5429.7498	5437.23	5431.1898	5441.0202	5405.4198
Start longitude	16620.4102	16601.89	16547.2602	16557.6498	16544.3598	16520.7102	16534.2198	16515.1698	16518.1398	16515.5898	16615.39
End latitude	5409.6702	5414.79	5414.8098	5415.2598	5413.1502	5421.3798	5431.0602	5436.4998	5430.2502	5440.2198	5405.8902
End longitude	16618.03	16559.0898	16549.05	16555.2498	16545.6702	16521.6102	16533.45	16513.4598	16520.0298	16517.58	16612.76
Gear depth (m)	143	94	42	87	86	78	119	78	132	107	79
Duration (h)	0.43	0.51	0.5	0.54	0.53	0.51	0.51	0.52	0.52	0.5	0.52
Distance fished (nm)	1.56	1.77	1.54	1.42	1.55	1.74	1.39	1.24	1.45	1.41	1.62
Performance	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0	0.1	3.8	1.1	0	7	0
Pacific cod	157	493	223	448	101	9	962	98.5	12	147.5	0
Walleye pollock	1028	248	4800.8	135	1673.5	0.1	807	275	54	1489.5	0
Pacific ocean perch	0	0	0	0	0	0	0	0	0	0	0
Northern rockfish	0	0	0	0	1.8	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0	0
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	626.9	73	39	54	218.5	87	286	279	350.5	200	0.3
Pacific halibut	13.9	91.2	97.5	70.4	107.2	130.6	76.1	62.2	8.8	19.8	108.2
Rock sole	42.6	64.5	62.5	195.5	1.5	7	235	63	9.5	34	2.9
Kamchatka flounder	0.9	0	0	0	0	0	0	0	0	0	0
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	12	3	2.8	3.3	279	0	75.5	242	153.5	352	0
Rex sole	41.3	0.4	1	0	38.5	0	1.5	0	1.5	0.4	0
Dover sole	0	0	0	0	0.9	0	0	0	0	0	0
Yellowfin sole	0	0	0.7	0	0.6	0	0	0	0	0	0
Other flatfish	0	0	0	0	0.7	0	0	0	0	0	0
Skates	0	3.7	0	0	10	0	30	12	0	77	0
Sharks	0	5.8	0	0	0	0	0	0	0	0	0
Sculpin	9.8	16.1	2.9	12.1	4.4	115.6	35	44.4	3.6	12.5	41.3
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	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
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0
Total catch	1938.1	1013.3	5240.2	922.2	2454.4	375	2512.8	1102.1	593.9	2355.9	188.8

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	12	13	14	15	16	17	18	19	20	21	22
Start date & time	6/6/94 9:00	6/6/94 14:00	6/7/94 7:00	6/7/94 11:00	6/7/94 16:00	6/7/94 19:00	6/8/94 9:00	6/8/94 11:00	6/8/94 13:00	6/8/94 18:00	6/9/94 8:00
Start latitude	5404.1898	5411.2098	5346.8702	5345.5802	5342.06	5338.16	5332.43	5329.31	5335.4798	5348.7002	5341.8602
Start longitude	16621	16618.4302	16717.58	16720.52	16716.35	16721.96	16736.2502	16735.8602	16722.3602	16708.8398	16646.0998
End latitude	5404.6002	5411.8002	5346.8102	5344.0202	5340.6602	5339.06	5333.57	5330.54	5334.05	5347.6898	5342.51
End longitude	16623.0802	16616.14	16714.9298	16720.5998	16717.31	16719.71	16734.9698	16734.68	16721.51	16707.47	16647.82
Gear depth (m)	80	287	153	358	108	85	87	72	102	61	89
Duration (h)	0.51	0.43	0.5	0.57	0.5	0.51	0.51	0.52	0.49	0.44	0.47
Distance fished (nm)	1.3	1.47	1.57	1.56	1.51	1.62	1.38	1.41	1.52	1.29	1.21
Performance	0	1	0	1	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	3	0	1.5	0	0	0	0	0	0
Pacific cod	125	30.5	41.5	9.5	436	11.5	19	0	12	293	87.5
Walleye pollock	0	1277	254.5	26.3	19.5	1.5	1.1	0	1.5	4.5	261
Pacific ocean perch	0	4570.7	1.1	74.5	0	0	0	0	0	0	0
Northern rockfish	0	0	1.2	0	0.4	0	0	0	0	0	0
Shortraker rockfish	0	0	0	59	0	0	0	0	0	0	0
Rougheye rockfish	0	6	0	88.5	0	0	0	0	0	0	0
Shortspine thornyhe	0	13.5	0	25	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	27	0	74	0	0	0	0	0	0	0
Arrowtooth flounder	3	144.5	674.5	257.5	89.5	54.5	436.5	37	182	0	44.5
Pacific halibut	48.5	2.4	30.1	134.8	54.3	67.2	85.8	46.1	66.7	168.7	71.2
Rock sole	110	0	0	0	18	93.5	74	112	39.5	204	1.5
Kamchatka flounder	0	3.5	1.1	21	0.7	0.1	0	0	1.3	0	0.1
Greenland turbot	0	29	0	37.5	0	0	0	0	0	0	0
Flathead sole	0.6	5	46.5	7.5	84.5	44	33	2	149	0.5	601
Rex sole	1.5	10.9	44.5	85.5	7	0.2	38.5	1.5	8.5	0	0
Dover sole	0	1.6	2.3	40	0.3	0	0	0	0.2	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	11.5
Other flatfish	0	0	0	0	0	0	0	0	0	0	23
Skates	0	0	0.1	3.3	0.1	0	0	0	9	0	5.5
Sharks	0	0	0	0	0	0	0	0	0	2.5	28.5
Sculpin	20	1.3	1.8	36.8	0	0	0.4	0	13.5	1.1	16.1
Broad snow crab	0	0	0	0	0	0	0.1	0	0	0	13.5
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	12.6	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0.1	0.3	0.2	0	0	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	4	0	1.5	0	0	0	0	0	0	0
Total catch	336.1	6130.1	1105.4	985.9	714.1	275.6	704.3	199.6	488	675.5	1169.5

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	23	24	25	26	27	28	29	31	32	33	34
Start date & time	6/9/94 11:00	6/9/94 19:00	6/9/94 21:00	6/10/94 7:00	6/10/94 11:00	6/10/94 13:00	6/10/94 18:00	6/10/94 20:00	6/11/94 7:00	6/11/94 8:00	6/11/94 10:00
Start latitude	5345.33	5326.5002	5323.04	5323.4198	5306.1002	5303.2502	5304.14	5302.8998	5251.6702	5253.79	5258.8798
Start longitude	16656.2098	16831.0902	16835.46	16842.8898	16852.4802	16851.0702	16956.0202	16956.4102	16954.66	16952.59	16959.94
End latitude	5345.9498	5327.72	5324.6402	5324.69	5305.2098	5303.33	5304.4898	5301.7298	5251.84	5254.9	5259.3298
End longitude	16658.4502	16829.07	16835.2602	16841.43	16853.97	16853.88	16953.8002	16957.21	16952.5798	16951.4302	16957.8502
Gear depth (m)	27	105	102	282	108	67	145	138	32	99	112
Duration (h)	0.48	0.5	0.5	0.5	0.5	0.51	0.48	0.49	0.4	0.5	0.51
Distance fished (nm)	1.47	1.72	1.6	1.55	1.27	1.7	1.38	1.26	1.27	1.31	1.34
Performance	0	0	0	0	0	0	1	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Alka mackerel	0	0	0	0	0	0	0	1.2	0	0.2	0.1
Pacific cod	6	0	2.5	97.5	27	66	0	0	4.5	0	0
Walleye pollock	0.1	0.1	0	23	0	0.1	0	0	0	0	0.1
Pacific ocean perch	0	0	0.7	347.5	0.5	0	0	0	0	0	0
Northern rockfish	0	0	26	0.4	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	26	0	0	0	0	0	0	0
Shortspine thornyhe	0	0	0	48	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	4	0	0	0	0	0	0	0
Arrowtooth flounder	46	0.7	0.9	105	3	0	0	0	0	0	0
Pacific halibut	77.4	154.2	20.4	34.5	93.5	135.5	270	209.1	34.2	67.5	63.7
Rock sole	87	41.5	46	0	73.5	77.5	0	0	126.5	13.5	10.5
Kamchatka flounder	0.5	0	0	0	0	0	0	0	0	0	0
Greenland turbot	0	0	0	7.5	0	0	0	0	0	0	0
Flathead sole	64.5	0	0	0	1	0	0	0	0	0	0
Rex sole	0	0	0	7	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	37.5	0	0	0	0	0	0	0	0	0	0
Other flatfish	60.5	0	0	0	0	0	0	0	0	0	0
Skates	24	0	18	0	32	0	4.3	8	18	0	0
Sharks	0	0	1.1	0	0	0	0	0	0	0	0
Sculpin	20.5	3.5	12.2	10	0	8	1.2	0.1	0.5	0	2.5
Broad snow crab	0.4	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0.1	0	0	0.1	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	5.5	0.4	0	0	0	0	0	0
Total catch	646.2	233	194	731.5	247.6	309	344.5	220.8	184.2	84.6	80.1



1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	35	36	37	38	39	40	41	42	43	45	46
Start date & time	6/11/94 13:00	6/11/94 17:00	6/12/94 7:00	6/12/94 11:00	6/12/94 13:00	6/12/94 16:00	6/12/94 18:00	6/13/94 7:00	6/13/94 10:00	6/13/94 16:00	6/14/94 7:00
Start latitude	5309.7302	5302.01	5216.6602	5228.1898	5231.3002	5240.6998	5243.02	5255.4202	5250.88	5247.28	5249.3698
Start longitude	16951.72	17012.4902	17040.7598	17033.87	17039.3198	17049.17	17046.5198	17024.1098	17032.1702	17040.68	17121.6498
End latitude	5310.9398	5301.3902	5218.2898	5226.9802	5230.4398	5241.97	5244.2098	5254.2202	5250.07	5246.3302	5249.11
End longitude	16951.45	17014.0802	17040.2798	17032.7402	17041.52	17047.6202	17044.8602	17022.3698	17034.08	17042.6	17123.2398
Gear depth (m)	336	178	155	313	139	126	264	225	329	324	162
Duration (h)	0.52	0.4	0.53	0.55	0.51	0.5	0.51	0.49	0.51	0.51	0.42
Distance fished (nm)	1.22	1.14	1.66	1.4	1.6	1.58	1.57	1.6	1.41	1.51	1
Performance	1	1	0	7	0	0	0	1	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	1	1	0	0.2	0	0.8	0	0	1.3	0
Pacific cod	10	0	83	0	0	0	5883.5	18	0	20.5	22.5
Walleye pollock	21.5	0	0.5	117.5	0.1	0	0	3.5	154	358	0.1
Pacific ocean perch	191	35	609	2.2	0.5	0	5.5	0	11	65	4
Northern rockfish	0	398.5	246.5	0	0	0	0.9	0.7	0	0.4	0
Shortraker rockfish	30.5	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	145	6.2	0.8	0.9	0	0	0	0	6.5	5	0
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	4.5	0	0	1.5	0	0	0	0	2.5	0	0
Arrowtooth flounder	20	0	0	15.5	0	0	7	20.5	401	26.5	0
Pacific halibut	0	73.2	41.8	0	172.5	116.5	125.5	157.2	0	0	111.3
Rock sole	1.1	0	0	0	0.1	1.3	22	1.2	0	0	0
Kamchatka flounder	0	0	0	0	0	0	0	0	1547.5	522.5	0
Greenland turbot	0	0	0	0	0	0	0	0	43.5	0	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	10.1	9.5	6.9	3	16	35.5	93.5	65.5	27	38.5	44
Sharks	0	0	0	0	0	0	0	0	0	43	0
Sculpin	14	0.3	1.9	0.9	4.8	0.5	42	14.4	1.2	9.3	0.6
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	5	0	0	1.1	1.7	0	3	0.7	0.3	0	1.1
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	6	0	0	0	0	0	0	0.8	0	4	0
Total catch	504.7	854.9	1129.4	158.2	363.6	302.3	6199.4	372.6	2196.8	1107.4	265.4

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	47	48	49	50	51	52	53	54	55	56	57
Start date & time	6/14/94 10:00	6/14/94 12:00	6/14/94 15:00	6/15/94 8:00	6/15/94 11:00	6/15/94 14:00	6/15/94 18:00	6/16/94 9:00	6/16/94 12:00	6/16/94 16:00	6/17/94 7:00
Start latitude	5251.9102	5248.4398	5246.0602	5231.38	5231.62	5239.0702	5232.52	5219.2702	5229.67	5215.27	5212.8898
Start longitude	17118.36	17131.5198	17145.1302	17216.9098	17204.77	17214.0898	17221.93	17244.7	17233.5598	17252.3098	17250.0898
End latitude	5253.04	5247.82	5246.9602	5230.12	5231.9398	5238.97	5233.1002	5221.0102	5229.3898	5215.4998	5212.7698
End longitude	17116.9098	17133.5898	17143.14	17215.66	17207.02	17216.83	17224.1098	17244.76	17235.9802	17250.55	17249.0002
Gear depth (m)	201	201	340	210	370	188	202	445	453	160	164
Duration (h)	0.51	0.5	0.51	0.5	0.51	0.51	0.5	0.56	0.52	0.38	0.27
Distance fished (nm)	1.46	1.41	1.51	1.48	1.41	1.69	1.45	1.74	1.5	1.11	0.68
Performance	0	0	7	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Alka mackerel	0	0	0	1	0	0	0	0.8	0.7	18187.7	10253.3
Pacific cod	450	22.5	0	326	0	0	835.5	0	0	1507.5	2385
Walleye pollock	0	0	38.5	13.5	0	0	0	2	0	0	10.5
Pacific ocean perch	17.5	0	1.5	414	1	0	1	0	0	0	0
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	169	164	0	10	13.2	0	0
Rougheye rockfish	0	0	39	0	12.5	46.5	0	10	0	0	0
Shortspine thomyhe	0	0	0	0	0	15	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	17.5	17	0	66.5	26.5	0	0
Arrowtooth flounder	67.5	0	0	0.4	4	0	12.5	1.4	1.7	0	15.5
Pacific halibut	125	36	0	116.8	0	15.5	66.6	0	0	162.8	89.7
Rock sole	0	0	0	28.5	0	0	8	0	0	36	17.5
Kamchatka flounder	0	0	0	0	831.5	36	0	27.5	31.5	0	0
Greenland turbot	0	0	0	0	45	81	0	1387.5	132	0	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	20	27	0	40	37.7	20	29	55.6	23	40.5	170.5
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	1.9	7.4	3.7	11.9	21.4	16.7	10	5.9	4.8	154.5	8
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	3.3	25	0.7	4	1.5	1.2	3.5	1.3	0.4	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	1	0	2.7	1.5	0	0	1.7	0	0
Total catch	774.6	1118.2	155.8	1029.4	1180.9	624.5	974.8	1605.4	2565.9	20089	12950

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	58	59	60	61	62	63	64	65	66	67	68
Start date & time	6/17/94 11:00	6/17/94 12:00	6/17/94 14:00	6/17/94 16:00	6/17/94 19:00	6/18/94 7:00	6/18/94 10:00	6/18/94 12:00	6/18/94 15:00	6/18/94 17:00	6/18/94 19:00
Start latitude	5215.06	5216.26	5214.8602	5216.6302	5217.16	5212.8502	5215.9498	5215.7002	5221.4998	5215.9702	5213.89
Start longitude	17255.3302	17255.47	17305.7102	17306.3	17314.9898	17324.81	17339.4698	17346.7598	17357.63	17358.3398	17401.71
End latitude	5215.1602	5216.1202	5215.24	5216.32	5217.5098	5214.4102	5216.02	5216.02	5222.6302	5214.7102	5212.69
End longitude	17256.8602	17256.67	17303.42	17303.8802	17317.13	17324.4398	17342.0702	17349.2102	17359.1702	17358.1502	17403.1098
Gear depth (m)	148	241	135	243	364	101	140	118	78	85	69
Duration (h)	0.38	0.35	0.5	0.5	0.46	0.51	0.53	0.53	0.51	0.43	0.51
Distance fished (nm)	0.94	0.87	1.45	1.52	1.36	1.57	1.6	1.54	1.47	1.26	1.48
Performance	0	0	0	0	0	0	0	0	0	0	1
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0	0	0	0	0	0	0
Pacific cod	135	1.6	7.5	23	3	4.1	32	68	0.5	164	132.4
Walleye pollock	0	83	0	391	13.5	0.6	0.1	0.5	0.5	0.6	0.5
Pacific ocean perch	0	440	0	231.5	0.9	1.1	0	2.5	0	0	0
Northern rockfish	0	0.5	0	1.2	0	0.7	2.5	20	0.6	0	0
Shortraker rockfish	0	0	0	0	1.5	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	14	0	0	0	0	0	0
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	3.5	0	0	0	0	0	0
Arrowtooth flounder	0	46	1.6	324.5	7.5	24	59	24	0	177.5	0
Pacific halibut	20.7	0	47.1	7.3	0	5.4	77.4	48.4	36	85.1	140.9
Rock sole	29	8.5	12.5	14	0	4.7	68.5	68	48	152.5	8.2
Kamchatka flounder	0	27.5	0.7	17.5	1.2	1.5	24	4	0	4	0
Greenland turbot	0	0	0	0	11	0	0	0	0	0	0
Flathead sole	0	3	0	2	0	0	92	39.5	3.5	8	0
Rex sole	0	0	0	43.5	2	0	28	1.5	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	2	0	1.5	0.1	10.5	2	0	23.5	12	47.5
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	17.5	10.5	18.2	9.4	7.5	3.4	9.5	3.8	7.6	24.1	84.3
Broad snow crab	0	0	0	0	0	0	0.1	0	0	0.1	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	9	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0.1	0.1	0.1	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	2.6	0	0.3	0	0	0	0
Total catch	202.9	622.8	108.7	1071.9	76.6	88	405.2	285.3	122.3	639.7	488.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	69	70	71	72	73	74	75	76	77	78	79
Start date & time	6/19/94 7:00	6/19/94 10:00	6/19/94 14:00	6/19/94 16:00	6/19/94 19:00	6/20/94 7:00	6/20/94 10:00	6/20/94 15:00	6/20/94 18:00	6/25/94 8:00	6/25/94 13:00
Start latitude	5214.1102	5216.9998	5212.33	5216.92	5220.8698	5226.2302	5230.6702	5212.1398	5210.5402	5357.75	5344.01
Start longitude	17449.47	17445.1902	17458.68	17441.0202	17434.35	17345.63	17330.0798	17241.0502	17226.2098	16630.2202	16700.5298
End latitude	5215.2598	5218.1698	5212.5898	5218.3798	5221.1902	5226.5098	5229.5998	5212.36	5210.7898	5358.5	5343.7898
End longitude	17447.91	17443.4898	17456.8602	17441.76	17431.9902	17347.8698	17331.6998	17241.2302	17224.3	16629.3502	16703.0198
Gear depth (m)	131	158	216	121	112	241	213	166	188	123	189
Duration (h)	0.5	0.51	0.41	0.5	0.5	0.5	0.51	0.05	0.26	0.33	0.51
Distance fished (nm)	1.5	1.57	1.15	1.53	1.48	1.4	1.46	0.25	1.2	0.91	1.5
Performance	0	0	0	0	1	0	0	1	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0	0	0	11	0	0	1.2
Pacific cod	153.5	514.5	112	5	0.6	53	56.5	502.5	41	123.5	26
Walleye pollock	0	0	35.5	0	0.1	159	1.1	0	0	1797.5	80.5
Pacific ocean perch	0	2471	667	1.5	1.7	998.5	645.5	0	0	0	0.5
Northern rockfish	0	0	0	0	0.8	1.5	0	0	0	0.6	0
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	19.5	0	0	0	5
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	5
Arrowtooth flounder	77.5	243	93.5	18	0	249	86	0	0	81	236
Pacific halibut	43.7	0	20	53.9	14.6	0	34.5	43	0	30.6	9.8
Rock sole	168.5	142	6.5	114	3.5	3	0	1	0	0	0.6
Kamchatka flounder	1	17.5	29.5	1	0	30	6	0	0	7.5	0.7
Greenland turbot	0	0	0	0	0	0	0	0	0	4.5	0
Flathead sole	20	21.5	1.6	1.5	0	2.5	0	0	0	50.5	184
Rex sole	0.2	0	0.1	0	0	2.5	0	0	0	111	28.5
Dover sole	0	0	0	0	0	0	0	0	0	0.4	3.3
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	19.5	9.5	0	16	7	14	0	0	17	0	23
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	9.8	0.1	0.3	4.6	6.8	0.1	10.5	1	0.7	0.7	0
Broad snow crab	0.1	0	0	0	0	0	0	0	0	0.2	4.1
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	3.5
Golden king crab	0	0	0	0	0	0	8.6	0	0	0	0
Northern pink shrimp	0	0	0.3	0	0	0.1	0	0	0	0	0.4
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0
Total catch	497.6	3423.9	968.1	219.9	131.1	1514.1	2203.2	558.5	62.7	2209.4	618.3

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	80	81	83	84	85	86	87	88	89	90	91
Start date & time	6/26/94 11:00	6/26/94 16:00	6/27/94 8:00	6/27/94 10:00	6/27/94 16:00	6/27/94 20:00	6/28/94 8:00	6/28/94 11:00	6/28/94 14:00	6/28/94 20:00	6/29/94 7:00
Start latitude	5211.5998	5200.21	5158.6098	5158.2402	5155.5798	5155.5702	5157.3798	5157.7698	5150.5602	5150.2998	5153.2698
Start longitude	17142.8898	17222.9398	17235.3202	17236.27	17252.4898	17251.1998	17338.37	17350.28	17354.1398	17356.1702	17354.27
End latitude	5211.2698	5200.12	5158.3998	5157.7602	5155.6098	5155.7898	5157.8502	5157.96	5150.6898	5150.43	5153.16
End longitude	17145.0498	17223.5902	17237.7898	17238.9298	17253.37	17252.3998	17339.0498	17352.02	17352.4598	17354.15	17356.6898
Gear depth (m)	445	200	168	218	271	176	94	80	292	311	142
Duration (h)	0.51	0.1	0.5	0.52	0.11	0.18	0.23	0.36	0.5	0.54	0.5
Distance fished (nm)	1.37	0.41	1.54	1.71	0.55	0.78	0.63	1.09	1.06	1.26	1.51
Performance	0	1	0	1	1	7	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0.9	0	0	0	0.3	2.2	0	0	0
Pacific cod	0	186.5	80.5	27.5	3.3	19	12.8	4.4	24	44	37.9
Walleye pollock	0	0	0	0	22	0	0	0.1	344.5	92.5	124.4
Pacific ocean perch	0	3.8	5.5	163.5	9	21.5	9.1	0	93.5	146	95
Northern rockfish	0	0	0.9	0.5	0	2.8	1.1	0	0	0	0.5
Shortraker rockfish	1.8	0	0	0	0	0	0	0	132.2	326	0
Rougheye rockfish	5.3	0	0	1.7	0	0	0	0	67	254	0
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	3.8	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	9	0	0	0	0	0	0	0	0	6.2	0
Arrowtooth flounder	4.5	0	31	28	0	0	0.1	0	0	7.4	26
Pacific halibut	0	24.2	20.1	17.4	0	18	24.4	3.7	0	11.3	18.7
Rock sole	0	0	41	7	0	0	15	13.5	0	0	4.5
Kamchatka flounder	3.5	0	0	0	0	0	0	0	0	0	0
Greenland turbot	6.5	0	0	0	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0
Rex sole	5	0	0	0	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	5.5	23.5	91	30	0	0	2	6	0	0	0
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0	0	25.7	11	8.7	0.3	10.4	11.7	25	15.3	3.4
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	2.8	0	0	0	0	0	0	0	0	0	0
Golden king crab	0.8	0	0	0	0	0	0	0.1	4.4	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0.1	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0.3	0.5	0
Total catch	456	238.4	314.5	290.7	47.1	76.7	93	800	701.5	915.7	340.4

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	92	93	94	95	96	97	98	99	100	101	102
Start date & time	6/29/94 10:00	6/29/94 12:00	6/29/94 15:00	6/29/94 18:00	6/30/94 8:00	6/30/94 10:00	6/30/94 13:00	6/30/94 16:00	6/30/94 18:00	6/30/94 20:00	7/1/94 8:00
Start latitude	5159.5302	5157.9198	5152.71	5150.5602	5148.3198	5152.5	5148.6102	5142.3102	5150.2902	5150.55	5157.51
Start longitude	17406.0702	17417.7702	17433.24	17433.0102	17440.98	17456.9502	17512.72	17533.18	17536.54	17542.3798	17515.9498
End latitude	5158.3398	5157.8898	5152.5102	5150.5902	5148.2898	5151.9198	5147.7702	5142.4698	5150.6898	5150.7198	5157.03
End longitude	17404.5102	17415.1002	17430.93	17435.5302	17443.0002	17454.5202	17514.49	17531.2	17534.1598	17539.81	17513.6998
Gear depth (m)	87	104	138	188	302	150	245	400	153	139	87
Duration (h)	0.51	0.51	0.5	0.51	0.4	0.53	0.51	0.52	0.5	0.5	0.52
Distance fished (nm)	1.53	1.65	1.44	1.56	1.25	1.62	1.38	1.24	1.53	1.6	1.48
Performance	0	0	1	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	8563.6	0	0	135.5	0	0	0	0	41
Pacific cod	9.7	25	249	76.5	3.1	22.5	15.7	0	3.2	0	16
Walleye pollock	0	0	0	51.7	102.5	0	43	0	0.1	0.3	0
Pacific ocean perch	0	0	0	2202.5	135	0	14	1.5	0	0	0
Northern rockfish	0	0	0.8	5.8	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	26	0	0	70.5	0	0	0
Rougheye rockfish	0	0	0	0	7	0	0	24	0	0	0
Shortspine thornyhe	0	0	0	0	4	0	0	1.8	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	9.5	0	0	6	0	0	0
Arrowtooth flounder	0	0.4	0	1939.7	33.2	0.1	12	2	11.5	3.7	0
Pacific halibut	47.2	75	42.3	3.7	23.3	50.9	0	0	25.1	99.5	127
Rock sole	36.5	60	17	36.8	4	25	27.5	0	110.5	36.3	32
Kamchatka flounder	0	0	0	6.4	23.8	0	0.6	0.8	0	0.1	0
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	0	1.1	0	0	0	0	0.5	0	0	0	0
Rex sole	0	0	0	3.8	27	0	4.8	3.7	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	23.5	17.5	94.5	2.6	8.5	29	0	1.8	0	16	11
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0.1	5.3	22.4	5.4	3.7	1	0	0.1	0.8	5.4	2
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0	0	0.1	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	1.2	0.3	0.2	0
Total catch	118.9	186.4	9012	4334.9	410.9	264.1	124.1	121.7	152.4	173.8	231.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	103	104	105	106	107	108	109	110	111	112	113
Start date & time	7/1/94 11:00	7/1/94 13:00	7/1/94 15:00	7/1/94 19:00	7/2/94 11:00	7/2/94 12:00	7/2/94 14:00	7/2/94 19:00	7/3/94 8:00	7/3/94 11:00	7/3/94 12:00
Start latitude	5204.59	5203.2598	5205.49	5210.2198	5200.6102	5158.02	5158.0998	5155.9398	5154.57	5138.4198	5136.72
Start longitude	17515.2802	17528.35	17531.4898	17537.6398	17623.8398	17624.6498	17623.61	17650.5098	17701.2798	17711.28	17710.38
End latitude	5204.6098	5203.7602	5204.62	5211.0298	5201.7898	5158.6002	5157.9198	5157.54	5155.9098	5138.7702	5137.83
End longitude	17517.5398	17526.0598	17529.1702	17536.8202	17622.0902	17622.4898	17625.8	17649.4598	17701.9902	17709.48	17709.12
Gear depth (m)	67	191	65	208	108	116	117	92	83	133	209
Duration (h)	0.5	0.52	0.51	0.49	0.5	0.51	0.49	0.5	0.52	0.51	0.5
Distance fished (nm)	1.39	1.5	1.68	0.96	1.6	1.46	1.37	1.73	1.41	1.17	1.36
Performance	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0	0.4	0	0	0	0	38.5	0
Pacific cod	3.1	0	4.5	6.5	0.3	1.7	0	366.5	274.5	106.5	41.5
Walleye pollock	0	0	0	0	0	5.2	1.4	0	0.1	0.3	1.4
Pacific ocean perch	0	0	0	374	0	0	0	0	0	0.6	64
Northern rockfish	0	0	0	0	0	0	0	1.8	0	4.5	1.2
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0	0	0	0	1.2
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0.1	0	0	209.5	0	30	79.5	0	0	0	521.2
Pacific halibut	45.7	161.8	161.5	0	47.3	27.1	44.1	184.4	32.2	8.6	10.7
Rock sole	11	7	41	48.5	15	1.4	0.8	5.1	102	0	40
Kamchatka flounder	0	0	0	20.5	0	5.1	14.5	0	0	0	1.3
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	0	0	0	5	0	6.8	7	0	0	0	2.1
Rex sole	0	0	0	3.5	0	1.1	3.4	0	0	0	0.2
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	53.5	11	0	3.6	0	0	0	0	0	0
Sharks	0	0	0	0	0	1	0	0	0	0	0
Sculpin	1.9	23.5	5.5	1.2	5.8	2.1	5	25.2	12.6	0.3	2.7
Broad snow crab	0	0	0	0	0	0.1	0.1	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	1.4	0	0	0	0	0	0
Northern pink shrimp	0	0	0	0.1	0	0	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0
Total catch	68.7	251.3	231.3	671.1	121.2	107	184.3	620.4	429.7	180.8	739.3

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	114	115	116	117	118	119	120	121	122	123	124
Start date & time	7/3/94 16:00	7/3/94 20:00	7/4/94 8:00	7/4/94 10:00	7/4/94 14:00	7/5/94 8:00	7/5/94 15:00	7/5/94 17:00	7/6/94 9:00	7/6/94 14:00	7/6/94 17:00
Start latitude	5133.9702	5135.94	5150.37	5139.1902	5133.3798	5134.56	5133.8802	5137.62	5146.3602	5137.9998	5138.55
Start longitude	17735.88	17747.37	17734.9098	17753.5302	17806.33	17822.41	17804.32	17819.47	17810.8702	17815.4998	17836.7902
End latitude	5133.4002	5136.1098	5149.32	5140.0002	5133.3102	5133.1698	5134.11	5136.3402	5147.5098	5138.67	5138.5698
End longitude	17738.13	17744.9598	17736.63	17751.21	17804.0302	17821.9198	17806.87	17818.6402	17810.23	17816.08	17834.53
Gear depth (m)	363	108	33	45	262	141	173	375	108	186	120
Duration (h)	0.5	0.5	0.5	0.51	0.52	0.33	0.51	0.51	0.41	0.28	0.5
Distance fished (nm)	1.52	1.51	1.49	1.66	1.44	1.42	1.61	1.39	1.22	0.76	1.41
Performance	0	0	0	0	0	1	0	1	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Alka mackerel	0	0.6	0	0	0.7	1918.5	0.8	0	1.5	16	0
Pacific cod	22.5	13.6	15.3	7.3	16.5	8295.6	163	7.5	131.5	172	189.3
Walleye pollock	2.4	0	0	0	2488.8	0	0	25.5	1.9	0	0
Pacific ocean perch	62.5	0	0	0	2061.4	0	1.2	4	0	72.5	0
Northern rockfish	0	0	0	0	0	0	0	0	0	0.6	0
Shortraker rockfish	222.5	0	0	0	0	0	0	10	0	0	0
Rougheye rockfish	68.8	0	0	0	0	0	0	28.5	0	0	0
Shortspine thomyhe	17.3	0	0	0	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	14.3	0	0	0	21	0	0	2.4	0	0	0
Arrowtooth flounder	11	0.7	0	0.1	453.2	0	218	21.5	0	1.3	0
Pacific halibut	0	18	29.3	39.3	21.3	241.8	13.1	0	25.5	28.4	76.4
Rock sole	0	22	30	26.5	35.5	14	122.5	0	11.8	6.3	37.5
Kamchatka flounder	1.8	0	0	0	0	0	0.8	229.5	0	0	0
Greenland turbot	0	0	0	0	0	0	0	255	0	0	0
Flathead sole	0	0	0	0	7	0	0	0	0	0	0
Rex sole	42	0	0	0	0.5	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	29.5	6.8	0	0	0	1.1	50.7	0	0.1	0	0
Sharks	0	0	0	0	1.3	0	0	0	0	0	0
Sculpin	2.4	10.4	0	7	11	11	13.2	18.7	19.2	10	0
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	1.4	0	0	0	0	0	0	3.4	1.5	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0.3	0	0.1	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	0
Total catch	505.2	95.7	76.3	82.6	5120	10482	650.7	876.6	408.7	335.9	321.2



1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	125	126	127	128	129	130	131	132	133	134	135
Start date & time	7/6/94 20:00	7/7/94 8:00	7/7/94 11:00	7/7/94 13:00	7/7/94 15:00	7/7/94 18:00	7/8/94 8:00	7/8/94 12:00	7/8/94 13:00	7/8/94 16:00	7/8/94 19:00
Start latitude	5130.96	5207.8498	5202.7402	5203.2298	5204.0398	5202.6898	5216.26	5212.3198	5213.2102	5215.1602	5222.74
Start longitude	17836.0702	17953.37	17952.2102	17950.37	17944.8698	17946.6398	17953.8998	17956.5002	17949.6998	17936.8298	17941.3802
End latitude	5130.9498	5206.3702	5202.4702	5202.73	5205.16	5203.1002	5216.53	5211.7198	5212.3798	5213.65	5222.1298
End longitude	17838.3898	17954.4398	17954.4398	17952.38	17943.1802	17944.6802	17956.2002	17956.79	17951.6102	17937.5102	17942.7398
Gear depth (m)	154	115	210	205	315	344	89	92	112	426	201
Duration (h)	0.51	0.52	0.47	0.51	0.5	0.41	0.5	0.21	0.5	0.53	0.41
Distance fished (nm)	1.45	1.62	1.41	1.33	1.53	1.28	1.53	0.62	1.46	1.57	1.04
Performance	0	0	0	0	0	0	1	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0.8	0	0	1.2	0	0	0	0
Pacific cod	94	0	0	0	0	0	106	0	0	0	0
Walleye pollock	20.5	3.7	15	49	0	0	94.4	0	0	1.2	369
Pacific ocean perch	0	0	662.5	406.5	6.7	3.4	0	0	0	0	2.7
Northern rockfish	0	0	0	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	42	0	0	0	12.6	0
Rougheye rockfish	0	0	0	0	0	3.5	0	0	0	1.6	0
Shortspine thornyhe	0	0	0	0	28.5	38.5	0	0	0	1.5	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0.9	0	6.5	32	15.5	11	0	0	0	2.4	0
Pacific halibut	177.2	47.8	0	0	22.5	0	35.9	3.1	39.7	0	39.6
Rock sole	94	44.5	54	95.5	1.1	0	254.8	22	54.5	1.6	0
Kamchatka flounder	0	0	2.2	3.8	12.3	34.5	0	0	0	24	7.5
Greenland turbot	0	0	0	0	8.8	26	0	0	0	11.3	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0.5	29.5	5	0	0	0	0	0
Dover sole	0	0	0	0.5	3.4	0.8	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	33	16.8	36.1	1.8	19.9	32	21	17.4	0.2	63
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0.1	1	55.5	43.5	19.2	17.1	26.1	2.4	0.5	0	4
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0.1	2.3	0	0	0	0	0	0	4.5
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	2.1
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	1.5	2.1	0	0	0	0.4	0
Total catch	588.8	166.3	821.8	681	153.2	207.7	939.2	85.8	138	62.3	1502.3

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	136	137	138	139	140	141	142	143	146	147	148
Start date & time	7/9/94 9:00	7/9/94 12:00	7/9/94 13:00	7/9/94 17:00	7/9/94 19:00	7/10/94 9:00	7/10/94 10:00	7/10/94 13:00	7/10/94 16:00	7/11/94 9:00	7/11/94 11:00
Start latitude	5239.48	5230.2202	5232.0502	5229.2098	5225.9302	5210.17	5205.2098	5203.1902	5158.0998	5130.1698	5125.8498
Start longitude	17921.8202	17932.76	17936.1302	E17959.2002	E17951.7002	E17929.8002	E17922.5	E17925.3998	E17922.8	E17839	E17849.0998
End latitude	5240.8798	5230.9702	5232.5998	5229.43	5227.03	5209.0402	5204.0398	5201.7898	5159.8902	5129.07	5124.8298
End longitude	17921.09	17930.9498	17934.02	17958.3602	E17953.7	E17928.3998	E17920.7	E17924.7002	E17924.4998	E17841.2998	E17851.1998
Gear depth (m)	137	138	90	206	168	246	305	145	137	149	222
Duration (h)	0.5	0.48	0.5	0.5	0.5	0.5	0.5	0.51	0.46	0.5	0.51
Distance fished (nm)	1.46	1.34	1.41	1.51	1.67	1.42	1.58	1.46	2.08	1.8	1.66
Performance	0	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Alka mackerel	0	1	96	0	0	0	0	5.5	5	0	0
Pacific cod	14.5	15.3	40	0	17.5	0	0	54	28.3	121	36.5
Walleye pollock	8.5	1.8	0.8	0	0	19.5	20	0	0	16	104
Pacific ocean perch	0.1	0	0	1211	0.1	0	2.5	0	0	379.5	1074.5
Northern rockfish	0	0	213	0	0	0	0	0	0	65	0.9
Shortraker rockfish	0	0	0	0	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	31.8	0	0	0	0	0	11	22
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	0	1.4
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	0	11	12	41.5	0	0	0	0	0
Pacific halibut	0	0	19.6	34.5	0	0	0	27.9	345.4	25.9	31
Rock sole	3	0.3	0	0.9	3	51.2	1.9	1.1	2.8	18	0
Kamchatka flounder	0	0	0	1.1	0	69	209	0	0	0	10.6
Greenland turbot	10.5	0	0	0	0	2.6	73	0	0	0	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0.4	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0.4	0.5	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	20	32.7	18	7.7	29.6	33.8	82.2	26	30.8	12.5	0
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	2.4	96.9	1.9	11.6	5.6	80.9	56	16	2.6	9.9	21.5
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	4	0	0	3.1	0	0	0	0	0	0	0
Golden king crab	0	0	0.1	6.8	0	0	7	2	0	0	4
Northern pink shrimp	0.1	0.1	0	0	11.1	0	0.1	0	0	0.1	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	0	0	0	2.5
Total catch	75.4	163.7	461.6	8750.2	98.6	299.9	463	430.3	444.7	695.7	1331.4

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	149	150	151	152	153	154	155	156	157	158	159
Start date & time	7/11/94 15:00	7/11/94 18:00	7/11/94 20:00	7/12/94 13:00	7/12/94 16:00	7/12/94 17:00	7/12/94 19:00	7/16/94 10:00	7/16/94 15:00	7/16/94 20:00	7/17/94 9:00
Start latitude	5121.9102	5115.1698	5116.0698	5135.5098	5139.2802	5139.8598	5139.3198	5139.5502	5136.54	5136.57	5135.88
Start longitude	E17908.4	E17909.9	E17918.4998	17620.4198	17613.0302	17620.34	17622.44	17829.5398	17852.0902	17908.19	17910.5198
End latitude	5121.4698	5115.0402	5115.96	5135.19	5138.4	5140.6002	5139.8502	5139.9	5136.4998	5136.4398	5135.3598
End longitude	E17909.1998	E17912	E17918.3	17623.01	17614.79	17618.93	17620.4402	17831.56	17853.9802	17908.6802	17911.8002
Gear depth (m)	65	157	125	378	216	147	144	392	324	234	248
Duration (h)	0.26	0.5	0.06	0.51	0.5	0.46	0.5	0.53	0.43	0.4	0.33
Distance fished (nm)	0.67	1.32	0.15	1.65	1.41	1.15	1.35	1.31	1.18	0.33	0.95
Performance	0	0	7	0	0	0	0	0	0	5	1
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	11180.3	125	0	0	0	0	0	0	1.8	0
Pacific cod	19.5	596.7	67.5	12	33.3	108	17.9	0	36.7	51.7	7.9
Walleye pollock	0	153.4	0	0	36	3	5.2	13.5	24	519.8	252.5
Pacific ocean perch	0	89.5	22.5	0	2.2	1.5	0	0.6	2.4	253.4	125.9
Northern rockfish	0	409.2	13.5	0	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	160.5	0	0	0	33.2	325.1	0	0
Rougheye rockfish	0	0	0	53.5	0	0.4	0	11.7	127.6	3.9	0
Shortspine thornyhe	0	0	0	11	0	0	0	3	1.3	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	13	0	0	0	25.6	105.9	20.4	3.2
Arrowtooth flounder	0	0	0	2.7	35.5	70	104.5	6.1	50.3	20.6	10.7
Pacific halibut	1.3	0	0	0	0	19.8	80	0	0	4.1	0
Rock sole	19.3	29.8	4.3	0	14.5	2.8	14	0	1	3.4	0
Kamchatka flounder	0.1	0	0	1.5	0.8	0.7	0.6	3062.1	25.4	17.2	187.4
Greenland turbot	0	0	0	5.2	0	0	0	22.5	0	7.1	0
Flathead sole	0	0	0	0	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0	0	5.3	0	0
Dover sole	0	0	0	0	0	0	0	2.8	2.2	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	0	0	24.9	77.5	63.3	85	16.1	17.5	9.3	15.4
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0	10.2	4.1	0.3	2	8.5	4	0.1	5.6	4.3	20.8
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	1	0	0	0	10.3	1.5	9.2	74.8
Northern pink shrimp	0	0	0	0.1	0.1	0	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0.8	0.9	0.8	0	0.4	1.1	0.8	0
Total catch	41.5	12487.9	241.9	290.9	204.5	297.7	338.3	3251.7	767.4	931.2	761.6

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	161	162	163	164	165	166	167	168	169	170	171
Start date & time	7/18/94 10:00	7/18/94 15:00	7/18/94 19:00	7/19/94 9:00	7/19/94 15:00	7/19/94 19:00	7/19/94 21:00	7/20/94 11:00	7/20/94 13:00	7/20/94 18:00	7/21/94 9:00
Start latitude	5126.9802	5139.84	5146.7598	5144.43	5153.85	5153.49	5154.8298	5202.43	5158.71	5203.6798	5201.5702
Start longitude	E17836.7002	E17820.8998	E17807.8	E17800.4998	E17817.5002	E17820.8998	E17825.2	E17830.7002	E17812.1998	E17750.2002	E17745.1998
End latitude	5127.1398	5140.3302	5147.4498	5144.6298	5154.0402	5152.3698	5155.5	5202.73	5157.87	5202.8098	5201.8702
End longitude	E17834.5	E17819.0002	E17806.1998	E17758.2	E17815.6	E17821.4998	E17823.2002	E17828.6002	E17813.9998	E17751.4002	E17742.7998
Gear depth (m)	393	146	86	140	207	145	93	385	91	238	195
Duration (h)	0.51	0.44	0.4	0.5	0.42	0.43	0.52	0.51	0.49	0.44	0.52
Distance fished (nm)	1.38	1.28	1.1	1.45	1.22	1.33	1.41	1.38	1.38	1.17	1.51
Performance	1	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0.7	2063	1	0	0	114.8	0	0.1	0	0
Pacific cod	0	32.1	79.5	13.2	170.5	37.2	134.6	3.1	14.5	60.7	24.9
Walleye pollock	0	3.3	0	1.4	137.2	25.5	0.2	1	0.2	1183.8	1
Pacific ocean perch	0	0	9.5	0.9	1120.9	0	0	0	0	11440.6	0
Northern rockfish	0	1.2	224.8	102.6	1.2	0.5	0	0	0	1.3	0
Shortraker rockfish	65.9	0	0	0	31.2	0	0	42.4	0	0	0
Rougheye rockfish	16.2	0	0	0	10.9	0	0	34.9	0	8.5	0
Shortspine thornyhe	14.8	0	0	0	0	0	0	19.6	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	12.5	0	2.6	257.3	9.3	0	3.5	0	17.6	133.9
Pacific halibut	0	30	0	0	8.5	3.7	25.6	108.3	86.3	0	11.4
Rock sole	0	239.4	57.1	83.3	175.6	34.3	31.8	0	4.1	68.8	28.6
Kamchatka flounder	9.1	4.9	0	2.7	18.5	1.6	0	39.7	0	12.1	21.3
Greenland turbot	6.8	0	0	0	0	0	0	10.3	0	0	0
Flathead sole	0	0	0	0.9	1	1	0	0	0	0	21.6
Rex sole	0	0	0	1.7	7.2	0	0	0	0	1.9	3.6
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	0	0	0	13.8	26.6	46.6	23.1	32.5	10.9	1.2
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0.3	43.2	0.5	0.1	4.6	2	20.9	1	6.8	3.7	3.7
Broad snow crab	0	0	0	0	0	0	0	0	0	0	1.5
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	5	0	0	0	0
Golden king crab	0	0	0	0	0	0	0	5.7	0	22.3	0
Northern pink shrimp	0.1	0	0	0	0	0	0	0.2	0.1	0	0.1
Chlamys species	0	0	0	0	0.3	0	6.9	0	0	0	3.3
Red squid	1.9	0	0	0	0.3	0	0	1.2	0.5	0	0
Total catch	419.8	374	2483.1	244.5	1964.5	153.5	416.3	332.3	161.4	12855	291.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	172	173	174	175	176	177	178	179	180	181	182
Start date & time	7/21/94 13:00	7/21/94 17:00	7/21/94 20:00	7/22/94 9:00	7/22/94 16:00	7/22/94 20:00	7/23/94 9:00	7/23/94 15:00	7/24/94 9:00	7/24/94 13:00	7/24/94 20:00
Start latitude	5152.1598	5148.06	5146.4502	5143.29	5203.45	5203.9798	5204.2702	5159.8902	5155.2402	5154.8898	5210.8102
Start longitude	E17748.7002	E17738.7	E17723.5002	E17719.3998	E17724.1998	E17722.5	E17714.8998	E17644.5002	E17639.3	E17634.2	E17620.5002
End latitude	5152.4502	5147.4402	5145.7098	5142.8802	5202.1102	5203.1998	5204.11	5159.9202	5155.38	5154.27	5210.8
End longitude	E17747.5998	E17740.9998	E17721.1002	E17716.9998	E17724	E17720.8002	E17713.8	E17645	E17641.2998	E17635.8002	E17621.6
Gear depth (m)	99	162	165	458	125	170	91	90	343	223	93
Duration (h)	0.26	0.51	0.51	0.51	0.5	0.45	0.26	0.11	0.46	0.48	0.23
Distance fished (nm)	0.72	1.53	1.64	1.55	1.35	1.29	0.71	0.33	1.24	1.16	0.67
Performance	1	0	0	0	0	0	1	6	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	359.8	1.5	0	0	424.6	18.2	2441.8	17.1	0.7	0	0
Pacific cod	59.9	58.7	57.1	0	49	89.7	1325.8	0	0	5.5	86.9
Walleye pollock	0.1	914.8	2065.5	1	0	28.4	0	0	3.8	1.8	0
Pacific ocean perch	177.5	7.9	448.3	0	0	17.8	0.3	0	5.9	305.6	0
Northern rockfish	414.6	0	565.1	0	1	1.1	854	286.3	0	0.4	1.3
Shortraker rockfish	0	0	0	74.5	0	0	0	0	14.4	0	0
Rougheye rockfish	0	0	5.4	5.2	0	0	0	0	72.9	46.6	0
Shortspine thornyhe	0	0	0	46.1	0	0	0	0	17.1	12	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	2	55	5.1	0	0	1	0	0	1	0	0
Pacific halibut	12.7	6.8	0	0	0	47.7	0	0	0	0	3.6
Rock sole	43.7	243.2	14.7	0	12.2	43.2	0	0.4	0	0	31.4
Kamchatka flounder	0	12	5	9.2	0	1.6	0	0	18.7	6.7	0
Greenland turbot	0	0	0	29.3	0	0	0	0	4.5	0	0
Flathead sole	0.3	1.3	0	0	0	0	0	0	0	0	0
Rex sole	0	0.9	0	0.7	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0.8	3.5	23.6	8.6	15.7	52.3	0	0	0	26.2	0
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	3.5	4.6	7.6	0	23.5	3.2	3.7	0.1	0.7	8	0
Broad snow crab	0.2	0.2	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0.1	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	1.9	0.7	0	0	0	1.1	0	0
Northern pink shrimp	0	0	0	0	0	0	0	0	0	0	0
Chlamys species	0	0.2	0	0	1.9	4.6	0	0	0	0	0
Red squid	0	0.7	0	1.5	0	0	0	0	0	0.2	0
Total catch	1625.8	1327.7	3227	225.1	570.9	334	5513.6	451.8	149.8	472.9	126.9

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	183	184	185	186	187	188	189	190	191	192	193
Start date & time	7/25/94 9:00	7/25/94 11:00	7/26/94 9:00	7/26/94 12:00	7/26/94 16:00	7/26/94 21:00	7/27/94 9:00	7/27/94 15:00	7/27/94 20:00	7/28/94 14:00	7/28/94 17:00
Start latitude	5207.89	5207.44	5201.9902	5207.4202	5213.98	5226.22	5153.7702	5204.92	5215	5215.69	5210.7598
Start longitude	E17615.3	E17616.2	E17628.0998	E17616.3002	E17601.5	E17542.1998	E17554.3	E17557.7002	E17551.1002	E17509.6	E17510.5
End latitude	5207.68	5207.3698	5201.3302	5206.5502	5213.5198	5226.2398	5153.8602	5205.04	5214.5902	5215.4902	5210.0098
End longitude	E17616.0002	E17616.3998	E17630.1002	E17617.8998	E17602.2998	E17542.1002	E17556.5002	E17556.8002	E17552.3002	E17507.6002	E17508.8002
Gear depth (m)	118	120	166	123	153	129	166	147	350	273	170
Duration (h)	0.16	0.08	0.49	0.45	0.24	0.04	0.49	0.22	0.3	0.43	0.46
Distance fished (nm)	0.47	0.13	1.38	1.29	0.66	0.07	1.38	0.62	0.85	1.23	1.3
Performance	1	7	0	1	0	1	0	6	6	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	3.9	5.6	1970	31.1	0.5	0	0	0
Pacific cod	15.5	11.7	36.8	62.3	64	39.8	0	0	0	3.8	7.3
Walleye pollock	0	0.5	17.7	1.7	260.2	0	728.3	42.3	0	5.8	0
Pacific ocean perch	55.4	6.9	54.2	203.2	323.8	0	56.4	57.3	0	3200.9	0
Northern rockfish	711.7	61.7	0.3	1811.3	6.2	0.5	0	3.9	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0	0	4.5	0	0
Rougheye rockfish	0	0	2.2	4.7	0	0	0	0	1.8	0	0
Shortspine thornyhe	0	0	0	0	0	0	0	0	0	12.2	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	1.2	0	3.8	0	69	2.4	0	5.3	22.7
Pacific halibut	0	0	0	9.2	0	0	0	0	0	0	31
Rock sole	1.9	0	0.9	1.2	0	0	25.5	0	0	0	2.3
Kamchatka flounder	0	0	0	0	3.5	0	87.1	0.1	16.2	29	0.6
Greenland turbot	0	0	0	0	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	3.1	0	0	0	0
Rex sole	0	0	0	0	0	0	14.9	0	0	0	0
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	21.6	1.7	0	11.1	0	23.6	0	0	8.2	0
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	0	1.4	7.6	1.1	1.8	0	9.9	2.5	0.6	2.2	0.6
Broad snow crab	0	0	0	0	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	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
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0.5	0	0.9	0	0.2
Total catch	794.8	115.4	126.8	2145.2	683.3	2010.6	1072.5	115.9	32.4	3286	123.6

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	194	195	196	197	198	199	200	201	202	203	204
Start date & time	7/29/94 9:00	7/29/94 12:00	7/29/94 16:00	7/29/94 19:00	7/30/94 10:00	7/30/94 18:00	7/30/94 20:00	7/30/94 22:00	7/31/94 9:00	7/31/94 12:00	7/31/94 21:00
Start latitude	5210.7202	5211.4	5220.6802	5227.7602	5256.2602	5254.75	5254.7602	5306.6198	5318.7302	5315.1302	5305.7702
Start longitude	E17342	E17334.9998	E17331.9002	E17347.2002	E17059.1	E17050.7	E17051.3	E17058.9998	E17036.1002	E17052.5	E17142.1002
End latitude	5211.0802	5211.73	5220.2602	5227.09	5255.8798	5254.6798	5254.6498	5306.99	5317.88	5315.33	5306.24
End longitude	E17339.7002	E17332.8998	E17331.0002	E17346.5	E17058.3998	E17050.5998	E17050.5002	E17057.6	E17035.5002	E17051.4002	E17142.7998
Gear depth (m)	155	228	81	70	177	185	198	109	339	166	455
Duration (h)	0.47	0.47	0.25	0.26	0.18	0.03	0.17	0.31	0.33	0.24	0.22
Distance fished (nm)	1.46	1.36	0.7	0.77	0.6	0.12	0.51	0.92	0.94	0.7	0.61
Performance	0	0	0	0	0	5	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	0	0	0	0.8	378.3	1840.7	158.5	11.4	0	0	0
Pacific cod	37.6	4	0	0	0	0	0	0	0	0	0
Walleye pollock	35.6	44.7	0.2	0.2	3.8	1.1	47.1	11.2	0	0.3	0
Pacific ocean perch	0	6950.6	0	0	4792.5	42.4	68.1	1.7	0	3.6	0
Northern rockfish	0	0	0	0	23.1	0	0.6	73.2	0	411.7	0
Shortraker rockfish	0	0	0	0	0	0	0	0	226.3	0	118.8
Rougheye rockfish	0	1	0	0	0	0	0	0	2.2	0	0
Shortspine thornyhe	0	22.3	0	0	0	0	5.4	0	30.3	17.5	2.4
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	33.4
Arrowtooth flounder	7.5	43.1	35.1	17.2	0	0	0	0	0	1.3	0
Pacific halibut	0	0	6.2	5.8	0	0	0	0	0	0	0
Rock sole	27	35.5	101	42.6	0.5	0	0	27.4	0	2	0
Kamchatka flounder	6.7	3	0	0.7	0	0	0	0	0	0	0
Greenland turbot	0	0	0	0	0	0	0	0	14.3	0	0
Flathead sole	11.8	4	17	10.5	0	0	0	36.7	0	0.5	0
Rex sole	1.8	0	0	0	0	0	0	16.7	0	1.3	0
Dover sole	0	0	0	0	2.7	0	0	0	0	8.4	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	0	0	0	3.2	0.5	0	119.9	131.1	7	86.3	2.4
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	3.3	1.4	0.2	6.5	3.5	0	8.9	5.5	0	1.1	0
Broad snow crab	0	0	0	0.2	0	0	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0.6	0.2	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0.1	0	2.1	2.3	1.4
Northern pink shrimp	0.2	0	0	0	0	0	0	0	0	0	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0.4	0.3	0	0	0	2.4	66.1	1.7	1.9	0	2.1
Total catch	135.9	7110	159.8	90.1	5230	1900	493.2	343	865	605.9	674.3

1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

	205	206	207	208	209	210	211	212	213	214	215
Haul number	205	206	207	208	209	210	211	212	213	214	215
Start date & time	8/1/94 9:00	8/1/94 11:00	8/1/94 14:00	8/1/94 15:00	8/1/94 20:00	8/2/94 9:00	8/2/94 12:00	8/2/94 14:00	8/2/94 18:00	8/2/94 21:00	8/3/94 12:00
Start latitude	5303.93	5303.9402	5305.1402	5305.4198	5251.7098	5251.4302	5242.8898	5240.2	5230.3	5238.04	5246.59
Start longitude	E17259.2998	E17250.8998	E17243.3998	E17243.2	E17222.3998	E17228.0002	E17240.8	E17240.3998	E17257	E17247.8002	E17404.0998
End latitude	5304.0698	5304.5102	5305.31	5304.6002	5252.1202	5251.99	5241.9898	5239.3798	5228.9602	5237.3602	5246.56
End longitude	E17256.8998	E17248.7002	E17243.9002	E17241.7	E17219.9998	E17225.9002	E17242.6	E17242.1002	E17257.3	E17248.9	E17402.8002
Gear depth (m)	116	86	105	110	175	142	169	392	173	231	85
Duration (h)	0.5	0.51	0.12	0.44	0.51	0.51	0.49	0.48	0.48	0.32	0.27
Distance fished (nm)	1.45	1.45	0.34	1.22	1.54	1.39	1.42	1.33	1.35	0.97	0.79
Performance	0	0	5	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172	172
Atka mackerel	1.3	138.9	11.8	30.8	0	0	0	0	0	0	0
Pacific cod	157.4	89.5	585.6	1254.5	17.1	0	78.4	0	50.2	9.5	20.9
Walleye pollock	0	0	0	0.1	9.3	99.6	26.6	0	0	46	0
Pacific ocean perch	55.5	0	0	0	0	0	0	0	185.2	83	0
Northern rockfish	22.6	0	0	0	0	0	0	0	0.5	0	0
Shortraker rockfish	0	0	0	0	0	0	0	7.2	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0	2.7	2.1	0	0
Shortspine thornyhe	0	0	0	0	0	0	0	64.9	0	0	0
Other rockfish	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Arrowtooth flounder	140.9	0	0	0	141.3	62.7	82.7	0	286.2	2.7	6.5
Pacific halibut	8.2	118.2	0	68.6	0	7.7	10.9	0	6	0	5.1
Rock sole	17.4	14.9	2.1	1.9	40.1	15.9	4.7	0	36.7	0	38
Kamchatka flounder	12.5	0	0	0	26.2	9.4	8.4	0	10.7	2.4	0
Greenland turbot	0	0	0	0	0	0	0	45.2	0	0	0
Flathead sole	2.7	2.4	0	0	4.1	6	0.1	0	13.9	0	4.5
Rex sole	1	0	0	0	0	0.4	0	3.2	0	0	0.8
Dover sole	0	0	0	0	0	0	0	0	0	0	0
Yellowfin sole	0	0	0	0	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0	0	0	0	0
Skates	10.6	0	0.2	0	22.8	6.1	0.9	0.1	14.2	0.1	6.3
Sharks	0	0	0	0	0	0	0	0	0	0	0
Sculpin	24.2	3.5	4	4.5	1.8	4.5	14.5	0.2	26.1	0.5	0.3
Broad snow crab	0	0	0	0	0	0.1	0	0	0	0	0
True tanner crab	0	0	0	0	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0.1	4.8	0	0	0
Northern pink shrimp	0	0	0	0.1	1.9	0.1	1.8	0	3.9	0.2	0
Chlamys species	0	0	0	0	0	0	0	0	0	0	0
Red squid	0	0	0	0	0	0	0	4.4	1.5	0	0
Total catch	527.9	393.1	613.8	1500.6	294.3	215.5	296.3	212.4	648.6	157.2	96



1994 NMFS Triennial Aleutian Island Bottom Trawl Survey by the F/V Pacific Knight

Haul number	216	217	218	219	220
Start date & time	8/3/94 19:00	8/4/94 9:00	8/4/94 11:00	8/4/94 14:00	8/7/94 13:00
Start latitude	5249.2198	5239.45	5239.8598	5236.5598	5421.9702
Start longitude	E17341.8002	E17350.8002	E17356.1	E17413.9998	16721.69
End latitude	5248.6102	5239.51	5239.7398	5236.2202	5422.92
End longitude	E17343.9998	E17351.9	E17357.1998	E17415.1002	16726.7102
Gear depth (m)	112	77	72	86	726
Duration (h)	0.51	0.26	0.26	0.27	1.02
Distance fished (nm)	1.45	0.71	0.71	0.77	3.09
Performance	0	0	0	0	0
Gear	172	172	172	172	172
Atka mackerel	0	0	0	0	0
Pacific cod	115.1	27.7	7.7	6	0
Walleye pollock	0	0.1	0.1	0	0
Pacific ocean perch	0	0	0	0	0
Northern rockfish	3	0	0	0	0
Shortraker rockfish	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0
Shortspine thornyhe	0	0	0	0	2
Other rockfish	0	0	0	0	0
Sablefish	0	0	0	0	65.5
Arrowtooth flounder	57.1	52.1	0	2	0
Pacific halibut	57.6	12.1	63.4	4.5	0
Rock sole	42.8	43.9	9.7	20.3	0
Kamchatka flounder	0.5	1.1	0	0	0
Greenland turbot	0	0	0	0	250.7
Flathead sole	8.5	0	0	6.3	0
Rex sole	0	0	0	0	0
Dover sole	0	0	0	0	0
Yellowfin sole	0	0	0	0	0
Other flatfish	0	0	0	0	0
Skates	0	0	0	0	0
Sharks	0	0	0	0	0
Sculpin	6.1	5.5	2	2.4	0
Broad snow crab	0	0	0	0	0
True tanner crab	0	0	0	0	0
Red king crab	0	0	0	0	0
Golden king crab	0	0	0	0	0
Northern pink shrimp	0	0	0	0	0
Chlamys species	0	0	0	0	0
Red squid	0	0	0	0	0.7
Total catch	311.4	161.2	94.5	297.6	718.4



Section 2 (continued)

Fishing Log for the F/V *Pacific Knight*

- Summary listings of catch rates by species

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Atka	549,859.4	1.02	160	56	40.3	0.75	108	122	2.4	0.10	91	169
mackerel	505,138.4	1.04	164	57	34.4	1.10	78	8				
	299,892.7	0.82	157	150	34.2	0.80	70	197				
	196,597.7	0.95	138	94	33.9	1.50	108	16				
	118,996.1	0.69	91	178	32.5	1.20	138	31				
	63,077.1	0.62	86	163	30.7	0.75	162	173				
	42,930.0	0.88	141	119	29.1	1.30	324	45				
	17,624.0	0.65	177	198	27.7	0.65	116	205				
	13,030.1	0.71	99	172	27.7	1.00	178	36				
	10,298.9	0.68	198	200	25.9	0.50	138	137				
	9,373.1	0.61	125	176	25.7	0.40	89	131				
	3,066.2	0.42	86	206	22.6	1.00	155	37				
	2,752.6	0.95	150	97	22.0	1.00	210	50				
	2,573.1	0.68	93	167	20.4	1.20	189	79				
	2,213.3	0.63	90	138	19.0	0.90	168	83				
	1,142.2	0.84	133	112	18.9	1.00	140	164				
	939.2	0.71	87	102	17.5	0.70	146	162				
	773.2	0.18	110	208	16.7	0.10	94	87				
	734.9	0.24	166	189	16.4	0.70	343	180				
	705.8	0.73	186	123	15.9	0.80	173	120				
	489.9	0.65	170	177	15.8	0.80	205	128				
	406.0	0.31	109	201	15.8	0.80	264	41				
	291.6	0.62	153	187	15.8	0.70	262	118				
	170.6	1.17	107	10	14.7	0.80	445	54				
	124.7	0.22	145	143	14.7	0.70	453	55				
	98.1	0.78	123	186	13.9	0.60	108	115				
	89.9	1.90	119	7	7.9	0.40	108	107				
	76.5	0.16	137	146	5.0	0.07	99	33				
	69.2	1.10	80	88	4.2	0.10	139	39				
	61.6	1.50	153	14	2.6	0.10	112	34				

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	185,629.6	8.53	141	119	3,504.5	4.76	143	1	1,224.1	10.80	145	143
	117,499.3	6.72	164	57	3,380.4	1.90	216	71	1,222.0	2.28	165	174
	116,410.4	3.81	264	41	3,369.6	2.40	80	12	1,219.3	4.42	241	74
	64,610.1	9.82	91	178	3,359.2	7.15	116	205	1,218.0	1.07	77	217
	45,575.5	6.67	160	56	3,332.5	3.20	153	187	1,200.6	1.63	162	173
	31,490.8	7.65	110	208	3,245.1	1.92	69	68	1,194.7	1.78	188	77
	22,752.5	4.06	119	7	3,231.0	1.87	173	120	1,164.3	3.59	173	213
	18,875.8	4.14	202	53	3,159.7	2.13	133	112	1,134.0	2.75	311	90
	16,005.5	4.39	157	150	3,083.2	2.53	78	8	1,095.2	1.98	209	113
	11,282.6	4.04	87	4	3,016.9	0.92	93	167	1,081.7	2.72	125	176
	10,847.6	2.86	158	70	2,776.9	1.57	147	154	1,046.8	5.23	85	215
	9,866.7	1.14	108	16	2,521.2	3.02	89	22	1,043.5	1.95	65	149
	9,866.5	4.61	94	2	2,430.7	3.79	86	163	946.7	1.72	118	183
	9,738.8	5.29	201	47	2,414.5	2.80	170	177	922.2	10.00	90	138
	8,227.1	5.05	61	21	2,280.7	7.67	112	216	910.3	2.62	324	157
	7,587.8	2.46	186	123	2,277.3	2.33	149	147	904.7	3.76	155	194
	7,158.4	3.66	210	50	2,273.9	6.63	89	131	895.1	3.72	145	166
	7,050.0	1.66	92	110	2,206.8	3.76	154	125	871.1	2.30	166	185
	7,037.9	2.31	83	111	2,169.3	0.79	99	172	852.0	1.80	153	14
	5,716.4	5.93	138	94	1,988.9	2.64	282	26	846.7	2.11	142	91
	5,671.7	2.40	42	3	1,975.7	7.46	86	206	803.2	1.40	146	162
	4,805.1	3.55	148	58	1,879.9	3.61	155	37	746.7	5.63	162	46
	4,663.0	5.92	120	124	1,734.9	5.60	169	211	738.6	2.08	108	27
	4,468.8	4.57	93	182	1,695.3	3.10	168	83	714.4	1.85	216	153
	4,412.2	1.48	85	67	1,637.9	3.79	238	170	711.1	0.71	94	87
	4,356.9	4.74	207	165	1,580.8	2.07	188	95	699.1	1.92	222	148
	4,231.2	2.42	123	78	1,567.5	2.49	123	186	664.9	2.40	292	89
	3,595.6	3.01	107	10	1,474.0	2.34	118	65	662.8	2.91	140	64
	3,534.3	0.75	108	122	1,377.0	0.61	67	28	608.7	5.63	201	48
	3,504.6	1.48	131	69	1,227.2	6.28	213	75	566.5	1.91	287	13

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	556.7	1.56	195	171	210.5	1.94	87	92				
	544.5	2.75	218	84	210.4	2.40	378	152				
	487.8	1.73	87	18	188.0	2.63	248	159				
	479.4	1.79	104	93	177.5	7.30	170	193				
	458.2	3.42	324	45	173.5	3.75	135	60				
	457.1	2.05	150	97	160.7	2.50	375	121				
	455.2	2.50	363	114	154.9	3.65	45	117				
	441.9	4.33	189	79	140.9	2.75	223	181				
	434.1	2.88	243	61	139.9	6.00	27	23				
	432.9	14.15	137	146	138.4	0.12	80	88				
	418.8	1.12	144	155	127.7	4.50	32	32				
	396.8	7.65	138	137	106.7	2.50	121	72				
	373.7	3.42	175	209	101.8	4.00	228	195				
	372.5	2.06	262	118	97.9	3.80	273	192				
	366.5	5.33	87	102	94.6	4.50	65	105				
	364.1	2.62	245	98	84.8	0.82	101	63				
	357.7	2.57	225	42	77.5	3.10	67	103				
	356.2	4.75	231	214	75.2	3.10	302	96				
	354.8	3.85	72	218	69.5	1.60	241	59				
	353.3	1.91	33	116	69.3	3.20	153	100				
	345.1	0.58	91	169	68.9	3.00	364	62				
	342.4	8.75	168	140	57.5	3.10	385	168				
	327.5	2.90	137	136	53.2	2.50	102	25				
	315.8	2.27	108	115	37.2	1.70	116	108				
	286.2	1.09	132	9	13.4	0.15	112	73				
	259.4	2.00	86	219	11.0	0.04	78	66				
	251.1	1.71	102	20	5.9	0.10	108	107				
	249.3	2.30	85	17								
	249.0	1.89	140	164								
	226.1	1.08	208	106								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	122,101.8	0.68	42	3	2,384.1	1.22	311	90	296.4	0.61	210	50
pollock	61,583.5	1.15	123	78	2,380.7	0.38	142	210	288.0	1.23	392	156
	56,180.6	1.14	262	118	2,025.1	0.05	89	131	203.2	0.72	175	209
	44,204.5	1.04	165	174	1,992.0	1.06	222	148	192.0	0.04	137	136
	36,309.8	0.78	107	10	1,724.8	1.00	231	214	177.0	1.27	177	198
	31,943.7	0.95	238	170	1,368.2	1.05	189	79	149.5	1.16	273	192
	23,719.3	1.40	287	13	1,287.9	0.77	132	9	126.4	1.13	61	21
	22,946.4	0.99	143	1	1,137.4	1.06	228	195	121.7	0.05	144	155
	19,086.6	0.90	119	7	1,071.5	0.83	216	71	113.8	0.09	116	108
	18,710.2	1.06	162	173	1,068.3	1.08	188	95	89.3	1.27	343	180
	17,210.2	1.29	166	189	997.3	0.78	245	98	82.6	0.24	146	162
	13,548.6	1.20	153	187	969.5	1.00	205	128	77.1	0.11	147	154
	11,418.1	0.53	201	135	856.6	0.99	155	194	75.5	0.04	115	126
	9,544.3	1.00	292	89	772.3	0.82	216	153	69.6	1.17	225	42
	8,608.0	0.78	78	8	764.4	1.23	170	177	51.1	0.06	108	122
	8,001.1	1.49	324	45	613.6	0.50	145	166	48.6	1.20	363	114
	7,520.3	1.50	89	22	595.3	1.41	324	157	46.7	0.04	138	137
	7,379.3	0.73	243	61	588.6	0.99	169	211	46.1	1.80	223	181
	6,008.8	1.61	248	159	546.4	1.34	375	121	42.8	0.43	123	186
	5,225.0	0.82	153	14	517.3	0.95	164	57	36.9	0.70	209	113
	4,963.3	0.70	94	2	481.3	0.05	154	125	36.7	1.00	445	54
	4,114.7	0.90	157	150	469.2	0.96	282	26	33.7	0.07	117	109
	3,658.0	1.30	241	74	445.8	1.22	246	141	32.5	0.50	85	17
	3,605.6	0.94	241	59	442.8	1.67	305	142	31.4	0.38	102	20
	3,506.0	0.74	207	165	441.3	0.35	108	16	28.2	0.55	87	18
	3,417.7	1.67	329	43	419.0	0.29	166	185	26.4	0.47	140	164
	3,399.9	0.68	87	4	398.9	0.24	109	201	23.9	1.10	213	75
	3,060.4	1.24	198	200	326.7	0.65	210	127	22.4	1.00	458	175
	2,779.1	0.05	142	91	310.2	1.13	364	62	22.4	0.50	195	171
	2,487.4	1.08	302	96	301.1	0.26	149	147	22.1	1.20	426	134

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	18.6	1.00	385	168								
pollock	18.4	0.04	90	138								
	16.1	0.05	85	67								
	15.6	0.05	166	203								
	12.4	0.15	101	63								
	12.3	0.03	69	68								
	11.3	0.50	155	37								
	11.0	0.06	78	66								
	10.8	0.08	118	65								
	9.8	0.07	81	196								
	8.9	0.04	133	112								
	8.6	0.10	70	197								
	6.0	0.06	139	101								
	4.8	0.07	91	169								
	4.6	0.10	72	218								
	4.5	0.07	93	167								
	4.4	0.10	77	217								
	3.6	0.10	99	172								
	3.3	0.05	162	46								
	3.1	0.05	80	88								
	2.6	0.10	112	34								
	2.6	0.05	83	111								
	2.5	0.10	110	208								
	2.3	0.05	27	23								
	2.2	0.10	112	73								
	2.2	0.10	153	100								
	2.1	0.05	139	39								
	2.1	0.05	67	28								
	2.1	0.10	140	64								
	1.9	0.10	105	24								



Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

Species	Average		Gear		CPUE (kg/km <sup>2</sup> )	Average		Gear		CPUE (kg/km <sup>2</sup> )	Average		Gear		
	weight (kg)	Depth (m)	Haul	weight (kg)		Depth (m)	Haul	weight (kg)	Depth (m)		Haul				
Sablefish	2,626.6	1.71	324	157											
	1,540.1	4.18	455	204											
	1,220.9	2.89	445	54											
	555.5	3.79	453	55											
	546.1	2.84	392	156											
	501.5	3.00	287	13											
	474.0	2.10	262	118											
	386.0	3.50	370	51											
	339.6	2.83	188	52											
	289.3	1.79	363	114											
	230.5	1.90	302	96											
	227.9	2.17	378	152											
	218.7	3.00	445	80											
	159.8	3.10	311	90											
	149.6	2.00	400	99											
	85.0	1.25	189	79											
	81.6	2.00	282	26											
	80.4	1.75	364	62											
	76.2	3.20	248	159											
	55.5	2.50	329	43											
	51.4	2.40	375	121											

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	308,713.1	0.62	238	170	3,763.0	0.88	311	90	85.7	0.67	375	121
Ocean	223,270.4	0.73	177	198	3,383.8	0.30	118	183	83.5	0.18	201	135
perch	176,864.6	0.54	228	195	3,276.1	0.89	302	96	72.7	0.68	344	130
	84,897.3	0.87	287	13	3,237.4	0.36	218	84	60.5	0.17	109	201
	82,499.5	0.70	273	192	3,198.3	0.42	186	123	59.5	0.80	324	157
	52,097.8	0.52	158	70	3,112.2	0.55	231	214	55.3	0.83	305	142
	46,532.7	0.58	262	118	2,996.0	0.95	248	159	54.2	0.18	118	65
	45,512.8	0.67	188	95	2,590.4	0.55	292	89	47.2	0.44	216	153
	28,643.3	0.68	207	165	2,400.7	0.50	157	150	38.6	0.08	147	154
	25,937.6	0.52	206	139	2,122.3	0.34	142	91	38.1	0.07	112	73
	22,972.0	0.62	241	74	1,689.0	0.44	209	113	37.4	0.75	400	99
	20,581.1	0.52	222	148	1,452.7	0.76	324	45	32.0	0.75	121	72
	20,131.6	0.63	216	71	1,332.8	0.79	166	189	23.8	0.40	173	120
	19,113.8	0.78	241	59	1,283.0	0.32	166	185	22.8	0.10	101	63
	16,860.2	0.65	153	187	1,264.4	0.82	363	114	22.6	1.00	202	53
	14,430.1	0.77	210	127	1,184.5	0.54	116	205	22.6	0.55	153	14
	14,020.1	0.37	213	75	969.2	0.26	178	36	22.1	1.00	370	51
	13,793.3	0.30	155	37	505.5	0.28	94	87	20.7	0.90	364	62
	13,011.9	0.70	208	106	479.1	0.46	170	177	17.8	0.30	133	112
	9,594.2	0.29	165	174	378.7	1.03	201	47	17.0	0.45	140	164
	9,090.7	1.21	210	50	324.7	0.82	245	98	14.9	0.18	102	25
	8,043.0	0.88	205	128	290.5	0.21	86	163	14.6	0.30	91	178
	7,831.5	0.39	223	181	244.1	0.65	329	43	13.7	0.50	108	27
	7,142.3	0.35	149	147	187.5	0.19	166	203	12.8	0.60	392	156
	7,088.7	0.78	282	26	161.6	0.61	162	173	10.6	0.08	139	39
	6,428.1	0.23	99	172	138.6	0.49	343	180	8.5	0.50	189	79
	5,112.7	0.34	123	186	132.7	0.22	162	46	2.3	0.10	137	136
	4,425.0	0.51	198	200	132.7	0.74	315	129	2.0	0.10	168	140
	4,369.1	0.54	243	61	115.8	0.34	168	83				
	4,295.5	0.54	173	213	108.8	0.69	264	41				

Catch during the 1994 Aleutian Islands Survey by the FV Pacific Knight.

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	45,574.2	0.57	123	186	30.7	0.60	207	165				
rockfish	43,470.6	0.57	118	183	30.0	0.60	146	162				
	41,617.9	0.33	91	178	29.6	0.55	170	177				
	21,437.1	0.48	166	203	26.5	0.60	186	123				
	15,014.7	0.30	99	172	24.6	0.40	153	14				
	12,093.9	0.49	165	174	22.6	0.60	243	61				
	11,034.5	0.73	178	36	22.1	0.50	125	176				
	10,976.1	0.51	157	150	21.7	0.50	241	59				
	6,873.4	0.36	86	163	20.6	0.60	123	78				
	5,583.0	0.75	155	37	19.0	0.45	168	83				
	4,910.8	0.32	90	138	18.4	0.40	138	94				
	2,607.2	0.27	109	201	17.9	0.27	112	73				
	1,935.7	0.47	140	164	17.8	0.45	264	41				
	1,223.3	0.52	149	147	17.2	0.45	222	148				
	1,076.2	0.61	177	198	14.5	0.23	101	63				
	553.6	0.60	102	25	13.9	0.70	225	42				
	482.3	0.47	116	205	13.1	0.60	78	66				
	433.5	0.44	118	65	12.0	0.50	145	166				
	322.8	0.89	153	187	11.6	0.50	173	213				
	133.5	0.45	133	112	11.2	0.50	142	91				
	119.9	0.58	188	95	10.3	0.40	223	181				
	66.9	0.43	93	182	9.9	0.50	218	84				
	61.1	0.55	94	87	9.1	0.40	108	16				
	59.4	0.50	112	216	8.9	0.40	324	45				
	51.8	0.50	140	64	8.2	0.40	282	26				
	39.0	0.60	198	200	7.1	0.30	166	185				
	35.1	0.43	238	170								
	34.6	0.36	92	110								
	34.5	0.50	241	74								
	31.7	0.40	209	113								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Roughey	6,546.6	1.48	311	90	111.7	1.25	324	45				
rockfish	3,164.8	1.40	324	157	111.4	1.50	287	13				
	1,856.2	1.08	292	89	85.0	0.83	189	79				
	1,712.9	1.20	343	180	74.8	1.17	344	130				
	1,391.9	1.32	363	114	65.2	2.20	339	202				
	1,194.2	0.75	223	181	57.2	1.35	392	212				
	937.9	1.49	378	152	52.1	0.55	166	185				
	928.9	1.45	188	52	48.7	2.10	173	213				
	681.1	0.84	206	139	33.7	1.70	218	84				
	647.6	1.52	385	168	31.7	1.20	209	113				
	610.7	1.43	375	121	29.5	1.60	426	134				
	598.6	1.33	400	99	25.4	1.00	228	195				
	530.4	0.72	282	26	18.1	0.80	155	37				
	423.5	0.89	213	75	10.3	0.40	147	154				
	421.4	0.69	222	148								
	329.3	1.16	393	161								
	321.7	1.40	364	62								
	278.5	1.82	207	165								
	275.7	1.39	370	51								
	249.6	1.46	392	156								
	229.4	1.21	238	170								
	207.0	1.00	149	147								
	183.6	1.67	445	54								
	171.7	0.41	178	36								
	169.9	1.75	302	96								
	144.3	1.30	329	43								
	128.8	1.33	445	80								
	118.3	0.94	123	186								
	116.4	1.30	458	175								
	115.6	0.68	165	174								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Shorthead	8,402.3	2.04	311	90								
rockfish	8,063.4	1.53	324	157								
	6,706.6	2.00	339	202								
	5,477.9	1.24	455	204								
	4,501.3	1.71	363	114								
	3,727.6	2.73	370	51								
	3,662.6	1.81	292	89								
	3,276.1	2.16	188	52								
	2,813.7	1.45	378	152								
	1,758.3	1.60	400	99								
	1,667.1	2.33	458	175								
	1,339.7	1.65	393	161								
	898.1	2.00	344	130								
	797.3	5.20	207	165								
	786.7	2.23	385	168								
	708.3	1.58	392	156								
	631.0	4.33	302	96								
	338.4	2.40	343	180								
	276.7	2.20	453	55								
	232.1	4.20	426	134								
	214.3	3.33	375	121								
	183.6	3.33	445	54								
	152.6	2.40	392	212								
	43.7	0.90	445	80								
	34.5	1.50	364	62								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

Species	Average Gear				Average Gear				Average Gear			
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	Haul	CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	Haul
Shortspine	979.2	0.46	282	26								
thornyhead	911.2	0.83	166	203								
	898.0	0.34	339	202								
	823.3	0.59	344	130								
	567.4	0.83	228	195								
	564.5	0.49	315	129								
	401.8	0.39	343	180								
	363.7	0.78	385	168								
	350.9	0.60	198	200								
	350.0	0.58	363	114								
	314.4	1.11	273	192								
	307.5	1.50	223	181								
	300.9	0.87	393	161								
	299.6	2.50	188	52								
	250.8	0.18	287	13								
	192.8	0.85	378	152								
	110.7	0.60	455	204								
	97.9	1.90	311	90								
	97.1	1.33	302	96								
	64.0	1.00	392	156								
	44.9	0.90	400	99								
	32.2	1.30	324	157								
	27.6	0.50	426	134								
	26.8	1.40	222	148								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	40,082.2	1.37	188	95	2,025.4	0.24	108	16	633.1	1.60	205	128
flounder	13,993.3	0.75	143	1	1,998.3	1.35	241	59	592.3	1.66	324	45
	13,847.8	0.50	153	14	1,915.5	0.52	117	109	580.8	0.96	142	91
	13,754.9	0.72	209	113	1,867.9	1.69	213	75	554.4	3.11	218	84
	11,207.3	0.89	87	18	1,830.1	1.33	169	211	551.9	1.14	170	193
	10,230.2	1.58	262	118	1,799.9	0.91	147	154	520.2	0.39	118	65
	8,899.4	1.66	329	43	1,769.4	0.46	131	69	496.5	0.23	101	63
	8,733.2	0.72	78	8	1,724.6	0.66	81	196	474.9	1.47	238	170
	8,359.4	0.46	132	9	1,630.5	1.38	166	189	460.7	1.95	375	121
	7,288.7	1.14	208	106	1,498.7	0.48	142	210	407.4	0.53	225	42
	6,764.3	0.84	119	7	1,461.0	0.41	94	2	384.0	0.34	121	72
	6,638.1	1.83	173	213	1,460.8	0.70	201	47	325.6	0.07	85	215
	6,575.0	3.03	207	165	1,360.0	1.00	87	4	312.8	0.83	146	162
	6,124.3	1.02	243	61	1,282.2	0.20	89	22	307.0	1.55	315	129
	5,728.6	0.96	241	74	1,247.6	1.93	324	157	282.4	0.52	202	53
	5,123.3	0.48	158	70	1,222.0	0.55	140	64	278.3	1.20	245	98
	4,875.4	1.10	107	10	1,181.4	0.40	85	17	254.6	2.14	248	159
	4,775.4	0.48	85	67	1,131.4	1.10	112	216	248.9	0.27	153	100
	4,321.3	0.62	173	120	1,124.9	0.76	162	173	235.6	1.83	206	139
	4,011.0	0.78	189	79	1,096.7	2.54	228	195	235.2	1.57	344	130
	3,809.0	0.17	102	20	1,072.9	0.22	27	23	234.8	0.75	168	140
	3,087.6	1.30	175	209	991.9	0.34	42	3	223.8	0.55	145	166
	3,007.1	1.03	116	205	948.7	1.73	246	141	222.5	1.22	363	114
	2,993.8	0.67	195	171	947.3	1.68	72	19	197.9	3.80	153	187
	2,822.0	0.99	216	71	805.7	1.58	302	96	190.7	3.70	311	90
	2,775.1	0.61	123	78	763.6	2.21	164	57	180.5	0.94	155	194
	2,684.0	1.54	287	13	761.6	1.37	216	153	172.3	0.68	364	62
	2,444.8	0.86	144	155	735.9	0.25	70	197	141.6	2.17	210	127
	2,290.8	0.45	77	217	656.6	0.41	116	108	138.5	0.64	264	41
	2,141.9	1.21	282	26	652.8	2.58	168	83	136.6	5.30	273	192

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	130.1	1.22	392	156	5.6	0.10	94	87				
flounder	109.4	1.13	445	80	2.5	0.10	67	103				
	109.1	1.02	165	174	2.1	0.10	45	117				
	101.2	0.90	231	214	2.0	0.05	150	97				
	88.2	1.00	370	51								
	86.5	0.33	86	219								
	82.1	1.50	108	27								
	80.9	0.33	80	12								
	74.4	0.62	139	101								
	72.4	0.67	99	172								
	67.7	1.30	166	203								
	64.9	1.17	385	168								
	57.3	1.30	186	123								
	49.9	2.00	400	99								
	49.1	0.17	140	164								
	47.3	2.70	378	152								
	44.2	2.40	426	134								
	37.0	0.27	135	60								
	35.6	0.85	453	55								
	28.4	1.20	166	185								
	26.9	0.50	170	177								
	25.7	1.40	445	54								
	23.5	1.00	343	180								
	21.1	0.18	154	125								
	19.2	0.18	102	25								
	16.3	0.08	108	115								
	13.1	0.12	105	24								
	8.8	0.40	210	50								
	7.7	0.07	104	93								
	6.4	0.30	79	11								



Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Kamchatka	65,326.2	2.10	392	156	326.5	1.21	238	170	43.1	0.53	170	177
flounder	34,343.9	1.82	329	43	266.8	0.66	116	205	38.5	0.40	145	166
	18,340.4	2.21	370	51	257.0	0.75	123	78	36.4	1.80	363	114
	11,677.5	2.07	324	45	248.2	1.34	173	213	34.3	0.33	209	113
	4,917.5	3.89	375	121	245.4	0.28	162	173	31.0	0.13	101	63
	4,627.0	2.55	305	142	243.6	2.46	315	129	30.0	0.35	70	197
	4,459.6	1.77	248	159	232.1	2.50	201	135	27.6	0.40	364	62
	2,058.2	1.64	166	189	224.7	0.49	142	210	27.2	0.33	102	20
	1,577.4	2.23	246	141	205.9	4.60	458	175	26.3	0.75	378	152
	1,194.6	0.69	241	59	203.0	3.53	222	148	23.6	1.10	206	139
	890.4	0.40	216	71	185.9	0.70	169	211	22.8	0.10	131	69
	747.4	2.23	273	192	185.0	3.03	393	161	22.6	0.55	153	14
	737.8	3.83	344	130	182.2	3.50	153	187	21.3	0.25	121	72
	736.6	3.97	385	168	171.7	6.70	223	181	20.1	0.45	143	1
	719.1	3.27	188	52	161.2	0.48	155	194	20.0	0.80	400	99
	713.2	0.50	208	106	132.3	0.64	188	95	18.0	0.70	147	154
	690.2	0.56	241	74	130.3	3.00	213	75	17.2	0.27	216	153
	660.3	2.86	453	55	122.6	0.26	146	162	16.2	0.12	135	60
	630.0	3.63	324	157	111.6	0.24	116	108	15.9	0.20	173	120
	577.6	1.59	302	96	107.6	0.09	85	67	15.8	0.35	108	16
	572.5	0.87	175	209	107.0	0.50	165	174	14.6	0.60	170	193
	504.9	0.38	445	54	90.0	0.80	231	214	14.0	0.60	144	155
	497.1	0.23	140	64	86.7	0.17	118	65	13.9	0.60	245	98
	476.2	0.36	195	171	85.1	3.50	445	80	11.9	0.70	189	79
	472.7	2.31	207	165	76.3	0.75	228	195	11.7	0.50	27	23
	442.1	2.67	426	134	75.2	3.80	205	128	9.9	0.50	112	216
	439.4	6.23	343	180	65.0	1.17	287	13	2.9	0.10	89	22
	369.0	0.27	158	70	50.9	0.18	140	164	2.2	0.10	85	17
	349.4	0.29	117	109	48.4	0.37	77	217	2.0	0.10	139	101
	330.3	0.60	243	61	47.9	1.10	210	127				

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	6,267.7	8.71	145	29	2,051.5	17.80	89	22	1,062.6	5.51	117	109
halibut	5,656.5	3.43	138	31	2,026.9	14.64	178	36	1,049.1	4.03	118	65
	5,410.7	5.26	141	119	2,009.5	108.30	385	168	1,048.4	5.10	123	78
	5,283.3	21.59	137	146	2,001.7	5.24	139	101	1,034.0	10.18	150	97
	4,921.8	4.28	160	56	1,947.0	2.59	78	8	1,024.4	2.62	87	92
	4,736.9	2.08	61	21	1,882.0	3.32	120	124	997.7	4.86	131	69
	4,419.2	3.90	164	57	1,871.6	4.71	144	155	975.8	15.93	115	126
	4,160.0	4.66	154	125	1,825.2	2.17	94	2	973.9	3.60	201	48
	3,693.7	2.71	162	46	1,805.3	1.41	27	23	971.1	4.70	138	94
	3,678.5	6.74	191	104	1,799.9	3.17	119	7	970.4	3.11	32	32
	3,652.6	2.46	139	39	1,773.0	2.51	87	4	946.7	6.97	155	37
	3,547.1	5.12	92	110	1,722.0	11.43	110	208	930.4	5.91	108	107
	3,453.4	4.70	69	68	1,701.5	3.75	99	33	876.7	6.62	112	133
	3,395.8	3.85	65	105	1,671.3	3.54	112	34	834.1	1.19	45	117
	3,124.1	22.46	225	42	1,603.1	5.95	140	64	825.6	2.93	83	111
	2,921.0	4.23	72	218	1,504.6	11.10	202	53	788.9	2.77	78	66
	2,909.4	14.11	87	102	1,456.7	3.73	85	17	770.1	3.59	89	131
	2,885.0	4.28	105	24	1,438.1	2.88	104	93	753.7	7.75	170	193
	2,827.0	5.42	67	28	1,395.9	3.51	102	20	750.6	7.50	146	162
	2,705.2	8.33	201	47	1,355.5	6.10	94	87	749.3	34.50	213	75
	2,703.3	3.53	126	40	1,307.4	1.94	80	12	738.9	34.50	206	139
	2,609.3	7.88	86	206	1,283.9	11.93	170	177	736.8	5.18	148	58
	2,564.7	12.98	210	50	1,252.9	9.47	186	123	703.8	17.25	282	26
	2,557.6	2.83	108	27	1,228.8	3.02	108	16	685.4	3.64	108	122
	2,483.1	17.93	264	41	1,225.4	39.60	201	135	676.7	1.47	33	116
	2,479.8	1.60	42	3	1,180.3	3.07	72	19	632.4	13.95	145	143
	2,324.8	3.28	79	11	1,149.9	5.39	121	72	618.0	5.02	153	14
	2,289.5	4.26	85	67	1,142.4	3.81	67	103	603.6	6.67	216	71
	2,202.9	2.52	87	18	1,141.3	7.20	112	216	593.8	15.50	222	148
	2,053.7	14.38	91	169	1,089.6	3.36	135	60	593.1	4.52	116	108

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

Species	Average		Gear	Haul	Average		Gear	Haul	Average		Gear	Haul
	CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)		CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)		CPUE (kg/km <sup>2</sup> )	weight (kg)	Depth (m)	
Pacific halibut	573.8	25.60	93	167	209.9	1.47	132	9				
	565.4	11.65	302	96	194.5	4.50	86	219				
	543.2	2.79	153	100	185.1	3.60	93	182				
	532.0	6.05	77	217	184.0	7.70	142	210				
	509.1	3.96	147	154	175.0	8.20	116	205				
	487.4	12.95	149	147	172.9	3.10	92	132				
	482.7	3.30	107	10	166.6	4.90	189	79				
	480.8	21.30	262	118	139.2	6.00	173	213				
	459.9	12.70	99	172	139.1	6.80	162	173				
	451.9	19.60	90	138	137.8	7.30	243	61				
	445.7	22.50	315	129	116.4	3.70	80	88				
	434.3	3.40	102	25	111.7	2.70	101	63				
	423.3	5.03	168	83	89.0	3.70	145	166				
	418.0	2.57	108	115	76.5	3.70	188	95				
	417.8	2.34	142	91	69.6	1.30	65	149				
	344.5	17.40	218	84	44.6	2.40	287	13				
	327.0	3.65	112	73								
	310.3	2.32	143	1								
	309.6	15.50	188	52								
	304.6	3.10	81	196								
	291.2	11.30	311	90								
	282.4	3.57	209	113								
	259.7	3.28	173	120								
	255.4	5.10	85	215								
	255.1	2.87	133	112								
	254.9	3.80	195	171								
	248.2	5.80	70	197								
	241.2	10.90	169	211								
	231.5	9.20	123	186								
	217.2	8.50	207	165								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Rock	5,990.1	0.53	146	162	1,687.4	0.63	208	106	862.1	0.53	65	105
sole	5,728.1	0.78	61	21	1,616.9	0.63	67	28	851.2	0.73	173	213
	5,558.1	0.52	119	7	1,614.7	0.33	93	182	848.1	0.36	112	216
	5,466.1	0.24	89	131	1,589.6	0.40	42	3	833.3	0.50	94	87
	4,974.1	0.38	162	173	1,582.6	0.31	99	172	828.8	0.29	107	10
	4,962.4	0.34	81	196	1,571.6	0.33	140	164	826.7	0.51	102	20
	4,923.6	0.40	87	4	1,474.0	0.46	118	65	825.3	0.36	145	166
	4,487.3	0.42	207	165	1,418.7	0.50	140	64	801.4	0.61	262	118
	4,102.8	0.32	85	67	1,290.9	0.52	94	2	799.3	0.58	157	150
	3,847.0	0.49	131	69	1,227.2	0.21	92	132	792.1	0.30	87	92
	3,589.3	0.39	32	32	1,203.6	0.24	112	133	776.4	0.74	105	24
	2,993.9	0.49	158	70	1,176.2	0.39	210	127	760.4	0.37	188	95
	2,965.3	0.50	80	12	1,170.4	0.47	246	141	733.1	0.38	87	102
	2,867.5	0.42	72	19	1,162.8	0.31	170	177	730.3	0.45	139	101
	2,615.2	0.31	83	111	1,150.5	0.24	104	93	712.8	0.35	93	167
	2,432.1	0.48	121	72	1,088.4	0.64	160	56	692.8	0.23	33	116
	2,428.2	0.41	173	120	1,055.6	0.51	209	113	649.7	0.42	155	194
	2,391.4	0.33	153	100	1,051.9	0.37	78	66	639.4	0.27	195	171
	2,206.8	0.47	154	125	1,032.8	0.23	65	149	637.8	0.47	245	98
	2,029.2	0.19	27	23	1,032.2	0.43	148	58	625.8	0.79	210	50
	2,026.7	0.32	85	17	979.4	0.70	102	25	602.6	0.50	166	189
	2,010.5	0.53	108	27	975.9	0.30	109	201	562.5	0.17	45	117
	1,972.0	0.35	78	8	950.9	0.52	143	1	510.9	0.20	108	115
	1,930.3	0.30	77	217	923.7	0.87	120	124	507.9	0.34	150	97
	1,903.3	0.25	85	215	908.4	0.23	115	126	446.9	0.37	72	218
	1,900.0	0.51	87	18	903.3	0.52	228	195	435.3	0.65	264	41
	1,889.6	0.40	205	128	877.6	0.21	86	219	424.5	0.25	80	88
	1,856.5	0.51	238	170	876.3	0.58	175	209	407.3	0.62	108	16
	1,822.7	0.27	70	197	863.4	0.75	168	83	390.3	0.30	138	94
	1,745.9	0.36	86	163	862.2	0.70	164	57	380.0	0.43	142	210

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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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	371.4	0.26	116	205	97.1	0.57	302	96				
sole	369.2	0.61	241	59	78.4	0.39	112	73				
	340.3	0.31	99	33	72.0	0.70	147	154				
	338.8	0.62	149	147	69.0	0.75	241	74				
	328.9	0.34	86	206	67.7	0.43	137	136				
	327.5	0.70	144	155	62.3	0.58	79	11				
	317.1	0.28	108	122	58.7	0.43	168	140				
	314.6	0.47	165	174	55.9	0.46	170	193				
	313.3	0.61	141	119	47.7	0.95	110	208				
	311.1	0.54	216	153	43.2	0.50	89	22				
	295.1	0.35	108	107	42.8	0.40	137	146				
	289.2	0.42	135	60	42.1	0.38	305	142				
	277.9	0.53	186	123	30.6	0.35	116	108				
	275.5	0.27	112	34	30.2	0.60	123	186				
	275.0	0.28	67	103	30.2	0.26	126	40				
	269.3	0.31	125	176	29.5	0.18	426	134				
	264.2	0.61	243	61	24.9	0.37	145	143				
	226.6	0.43	132	9	24.8	1.00	324	157				
	201.0	0.32	69	68	23.8	1.20	225	42				
	196.2	0.59	216	71	23.3	0.50	177	198				
	180.7	0.62	202	53	21.8	0.55	315	129				
	159.1	0.70	191	104	21.3	0.90	166	185				
	138.6	0.78	218	84	19.3	0.45	206	139				
	116.1	0.63	118	183	19.3	0.40	117	109				
	104.1	0.50	166	203	10.2	0.60	189	79				
	104.0	0.67	169	211	7.8	0.30	138	137				
	100.5	0.38	142	91	2.1	0.10	139	39				
	98.1	0.64	92	110								
	97.6	0.51	91	169								
	97.2	0.39	101	63								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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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
Greenland	25,474.1	3.86	445	54								
turbot	5,463.9	5.10	375	121								
	2,766.8	5.08	453	55								
	1,618.1	5.40	188	52								
	1,616.1	2.81	305	142								
	992.6	4.09	370	51								
	965.4	3.35	329	43								
	957.9	2.66	392	212								
	655.6	2.93	458	175								
	556.0	8.67	344	130								
	538.7	2.42	287	13								
	480.0	5.63	392	156								
	423.8	2.86	339	202								
	252.7	3.67	364	62								
	237.1	10.50	137	136								
	208.2	5.65	426	134								
	191.1	10.30	385	168								
	174.3	2.93	315	129								
	158.0	6.50	445	80								
	154.2	4.50	123	78								
	153.0	3.75	282	26								
	138.2	3.40	393	161								
	105.7	4.50	343	180								
	91.2	2.60	378	152								
	59.4	2.60	246	141								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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	17,316.9	0.14	89	22	158.0	0.64	262	118	10.9	0.30	99	172
sole	8,580.8	0.46	107	10	148.8	0.26	116	108	2.2	0.10	169	211
	7,575.0	0.78	78	8	143.4	0.38	142	210				
	3,661.0	0.35	132	9	130.3	0.75	241	59				
	3,127.2	0.12	189	79	101.8	0.40	228	195				
	3,118.3	0.15	102	20	92.9	0.45	287	13				
	1,912.2	0.36	108	16	89.6	0.51	175	209				
	1,905.5	0.21	140	64	83.1	0.47	87	4				
	1,785.7	0.62	119	7	76.7	0.18	78	66				
	1,730.2	0.18	123	78	73.3	0.44	166	189				
	1,504.4	0.25	27	23	71.2	0.19	42	3				
	1,307.2	0.53	109	201	60.0	0.38	94	2				
	954.7	0.40	153	14	57.6	0.90	116	205				
	953.8	0.34	85	17	57.5	0.63	241	74				
	856.2	0.20	118	65	55.4	0.53	209	113				
	847.3	0.52	87	18	53.0	0.80	86	206				
	835.3	0.49	81	196	51.2	0.50	72	19				
	482.9	0.24	195	171	48.3	0.32	216	71				
	456.6	0.15	131	69	37.7	0.50	243	61				
	453.3	0.23	158	70	32.0	0.19	121	72				
	449.3	0.28	70	197	27.4	1.00	108	27				
	322.4	0.41	173	213	26.6	0.65	162	173				
	283.9	0.18	155	194	26.0	0.50	166	203				
	272.4	0.79	86	219	25.6	1.00	207	165				
	267.9	0.34	143	1	24.1	1.00	145	166				
	225.4	0.38	85	215	21.1	0.55	104	93				
	215.2	0.24	85	67	17.0	0.90	140	164				
	174.0	0.63	208	106	16.2	0.60	80	12				
	168.7	0.14	117	109	14.0	0.50	61	21				
	168.4	0.50	112	216	11.6	0.50	245	98				

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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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
Rex sole	3,802.9	0.75	123	78	46.0	0.25	364	62				
	988.5	0.66	87	18	43.3	0.36	155	194				
	921.9	0.68	143	1	40.4	0.75	80	12				
	913.6	0.58	153	14	40.1	0.80	85	215				
	849.7	0.65	363	114	38.4	0.75	72	19				
	821.0	0.68	243	61	35.8	0.75	132	9				
	655.2	0.68	302	96	35.5	0.75	119	7				
	594.8	0.46	109	201	32.5	0.75	118	65				
	584.3	0.47	315	129	32.1	0.57	140	164				
	579.9	0.82	140	64	25.4	0.50	42	3				
	484.4	0.23	189	79	24.1	1.10	116	108				
	352.1	0.62	166	189	21.3	0.33	116	205				
	202.5	0.55	287	13	18.4	0.45	162	173				
	184.0	0.60	207	165	15.7	0.70	458	175				
	177.9	0.39	102	20	11.3	0.25	262	118				
	158.4	0.54	108	16	9.9	0.50	205	128				
	142.8	0.54	282	26	9.8	0.40	107	10				
	131.5	0.66	324	157	9.6	0.20	142	210				
	121.8	0.58	208	106	8.0	0.40	94	2				
	121.5	0.83	445	80	7.8	0.40	168	140				
	111.3	0.60	245	98	5.3	0.20	209	113				
	106.9	0.20	344	130	4.6	0.20	131	69				
	92.3	0.74	400	99	4.3	0.20	85	17				
	81.9	0.57	117	109	3.0	0.10	216	71				
	80.5	0.30	195	171								
	78.5	0.63	188	95								
	67.8	0.46	392	212								
	67.7	0.33	166	203								
	57.5	0.50	241	74								
	51.3	0.48	238	170								



Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

Species	Average		Gear		CPUE (kg/km <sup>2</sup> )	Average		Gear		CPUE (kg/km <sup>2</sup> )	Average		Gear		
	weight (kg)	Depth (m)	Haul	weight (kg)		Depth (m)	Haul	weight (kg)	Depth (m)		Haul				
Dover sole	437.4	1.68	166	203											
	125.8	1.35	177	198											
	67.3	0.68	315	129											
	59.7	1.40	392	156											
	56.1	1.10	189	79											
	54.6	2.20	324	157											
	47.2	0.46	153	14											
	29.7	1.60	287	13											
	17.1	0.80	344	130											
	13.7	0.40	123	78											
	11.1	0.50	305	142											
	9.9	0.50	205	128											
	9.1	0.40	246	141											
	6.8	0.30	108	16											
4.2	0.20	102	20												
Yellowfin sole	874.7	0.43	27	23											
	331.4	0.36	89	22											
	17.8	0.70	42	3											

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Aleutian shrimp	119.9	0.01	455	204								
	2.1	0.03	375	121								
Sidestripe shrimp	4.0	0.03	363	114								
	1.9	0.02	287	13								
	1.7	0.01	189	79								
Golden king crab	1,780.0	1.17	248	159	40.3	1.50	108	122				
	676.3	1.00	201	48	37.2	0.75	324	157				
	601.7	0.93	238	170	36.5	0.55	162	46				
	219.7	1.29	392	156	36.0	0.85	139	39				
	186.8	1.23	213	75	33.1	0.75	370	51				
	155.0	1.00	305	142	28.3	0.70	363	114				
	145.6	1.70	206	139	27.5	1.40	108	107				
	139.2	1.50	201	135	25.8	1.10	343	180				
	121.9	2.20	292	89	24.0	0.40	188	52				
	119.8	2.30	166	203	23.9	0.43	445	54				
	105.8	0.52	385	168	19.4	0.27	445	80				
	101.7	0.96	392	212	17.5	1.00	378	152				
	87.8	1.00	210	50	15.5	0.70	125	176				
	79.1	1.17	202	53	13.9	0.70	225	42				
	76.6	2.00	222	148	8.4	0.40	453	55				
	72.9	1.70	375	121	6.7	0.30	329	43				
	71.4	1.10	201	47	6.5	0.10	198	200				
	64.6	0.47	455	204	3.1	0.10	80	88				
	62.2	1.05	339	202	2.3	0.10	90	138				
	59.4	1.00	264	41	2.2	0.10	169	211				
	45.5	2.30	205	128	2.2	0.10	210	127				
	45.3	1.00	145	143								
	42.5	0.95	458	175								

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

Species	CPUE	Average	Gear	Haul	CPUE	Average	Gear	CPUE	Average	Gear	Haul
	(kg/km <sup>2</sup> )	weight	Depth			(kg/km <sup>2</sup> )	weight		Depth	(kg/km <sup>2</sup> )	
Red	323.5	6.30	87	18							
king crab	242.1	4.50	85	67							
	112.1	5.00	93	167							
	90.3	4.00	137	136							
	68.0	2.80	445	80							
	66.4	3.10	206	139							
	59.5	3.50	189	79							
	3.6	0.10	99	172							
Broad	389.0	0.35	89	22							
snow crab	69.7	0.51	189	79							
	33.5	0.11	195	171							
	9.3	0.20	27	23							
	8.6	0.20	70	197							
	7.2	0.20	99	172							
	6.9	0.10	123	78							
	4.1	0.20	162	173							
	2.7	0.10	85	67							
	2.6	0.10	87	18							
	2.4	0.10	117	109							
	2.4	0.10	142	210							
	2.3	0.10	131	69							
	2.2	0.10	116	108							
	2.1	0.10	140	64							

Catch during the 1994 Aleutian Islands Survey by the F/V Pacific Knight.

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
Red squid	4,295.0	0.49	198	200	8.5	0.40	392	156				
	112.2	0.26	282	26	8.3	0.30	292	89				
	96.8	0.70	455	204	7.7	0.15	207	165				
	93.2	0.44	392	212	7.6	0.30	228	195				
	89.4	0.36	324	45	7.4	0.20	426	134				
	74.3	0.40	287	13	6.5	0.30	153	100				
	60.5	0.43	109	201	6.2	0.30	140	64				
	59.7	0.33	364	62	5.1	0.20	223	181				
	59.6	0.39	370	51	4.9	0.20	170	193				
	47.9	0.42	222	148	4.0	0.20	139	101				
	44.9	0.42	344	130								
	38.6	0.32	393	161								
	35.6	0.34	453	55								
	34.8	0.50	173	213								
	33.6	0.30	458	175								
	30.0	0.75	188	52								
	29.9	0.20	400	99								
	29.7	0.50	315	129								
	27.3	0.28	324	157								
	22.3	0.30	385	168								
	20.6	0.27	147	154								
	19.3	0.23	216	153								
	15.9	0.40	225	42								
	14.3	0.35	162	173								
	14.0	0.20	378	152								
	12.9	0.50	311	90								
	11.9	0.25	91	169								
	11.8	0.25	166	189								
	10.9	0.40	108	27								
	9.6	0.40	155	194								

## APPENDIX

### Trawl Specifications and Diagrams

**POLY-NOREASTERN**

Framing lines 88'1"/120'7"

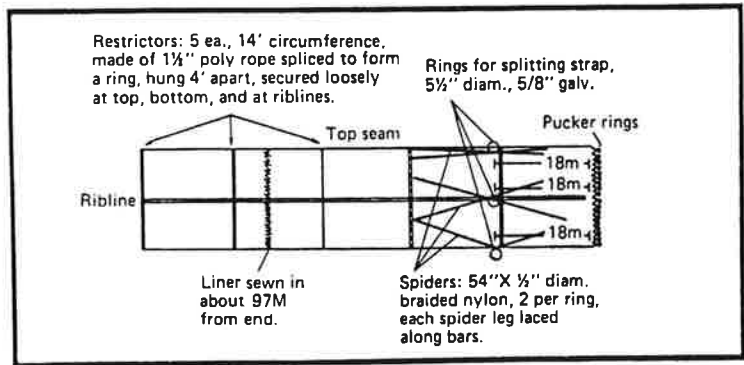
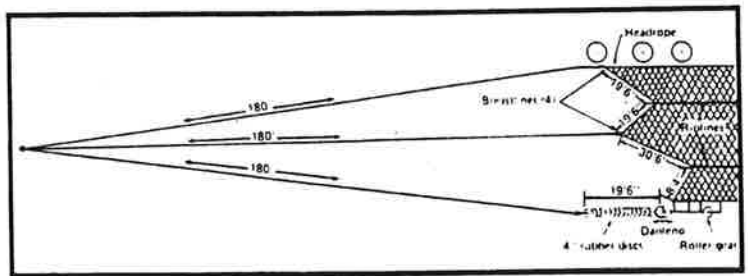
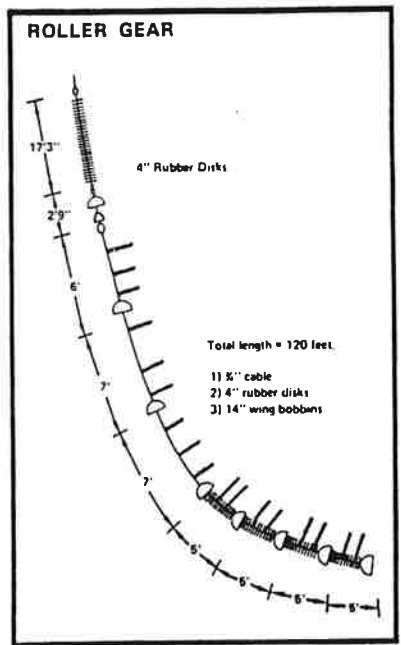
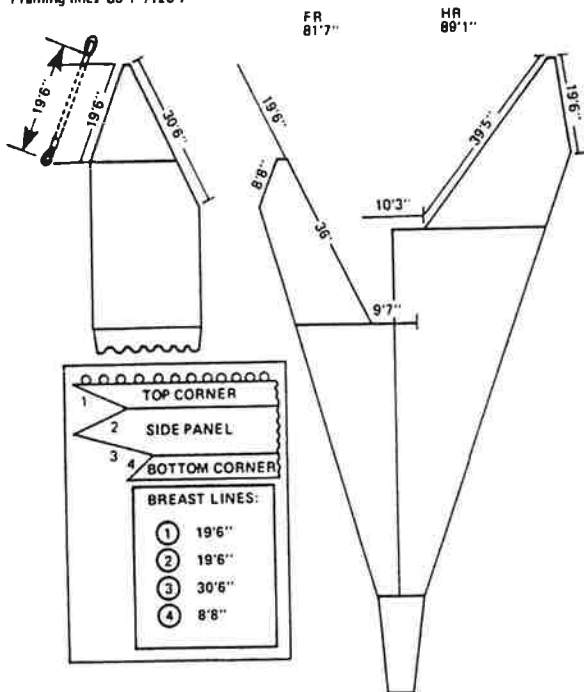


Figure A.--Schematic diagram of the 90-105' polyethylene Nor' eastern bottom trawl, roller gear and accessory gear used during the Aleutian Islands bottom trawl survey from 1 June to 9 August 1994.