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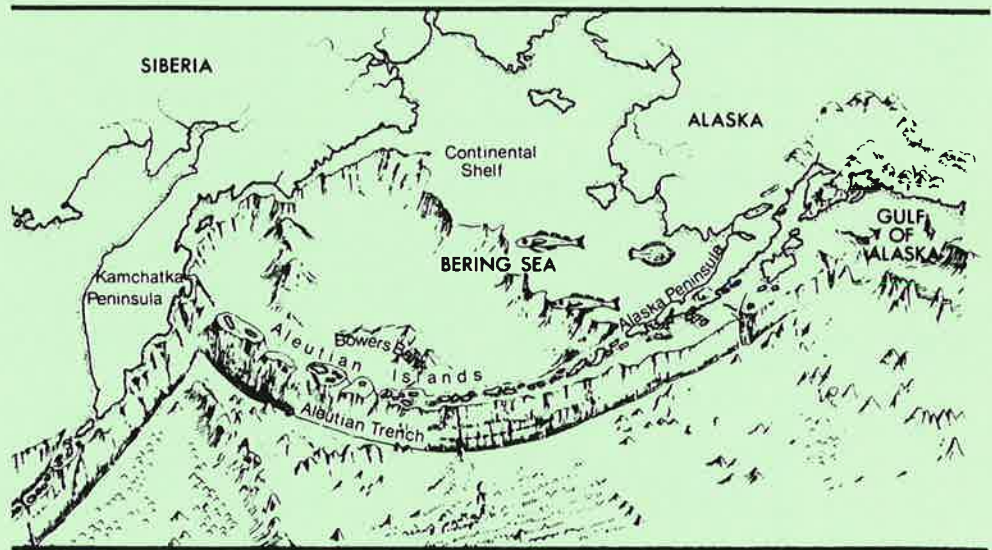
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Report to Industry: Results of the 1993 Bottom Trawl Survey of the Central and Western Gulf of Alaska

May 1994



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**Report to Industry: Results of the 1993
Bottom Trawl Survey of the Central and Western
Gulf of Alaska**

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INTRODUCTION

The fourth triennial bottom trawl survey of western and central Gulf of Alaska groundfish resources was conducted by the Resource Assessment and Conservation Engineering Division (RACE) of the Alaska Fisheries Science Center (AFSC), Seattle, Washington from June through September 1993. Previous surveys in this series were conducted in 1984, 1987 and 1990.

The primary focus of the triennial groundfish surveys is to continue a standardized time series designed to assess, describe and monitor the distribution, abundance, and biological condition of various Gulf of Alaska groundfish stocks.

Two chartered survey vessels, the F/V's *Alsea* and *Argosy* were rigged for survey operations on June 2-3 and departed Dutch Harbor on June 4. Scheduled port calls were made by both vessels on June 24 in Sand Point, and on July 16 at Kodiak. The *Alsea* broke its propeller shaft on August 6 and was towed to Seward on August 7 by the *Argosy*, for repairs. The *Argosy* departed Seward August 8 and completed its assigned survey stations, arriving in Kodiak on August 23. Due to the prolonged period anticipated to return the *Alsea* to service, the contractor provided the F/V *Progress* to complete the charter. The *Progress* departed Seward August 16, completed the unfinished *Alsea* stations and arrived in Kodiak on September 8.

Almost all of the 748 pre-selected survey stations were visited but not all sites were sampled, primarily because of unsuitable bottom conditions. Successful trawls ranging in depth from 20 to 513 m were achieved at 623 of the 674 stations attempted, an increase of 23% over the 508 stations completed during the 1990 survey (Figure 1). A total of 109 fish species were identified in survey catches. In addition to the groundfish species, catches also contained representatives from numerous invertebrate orders.

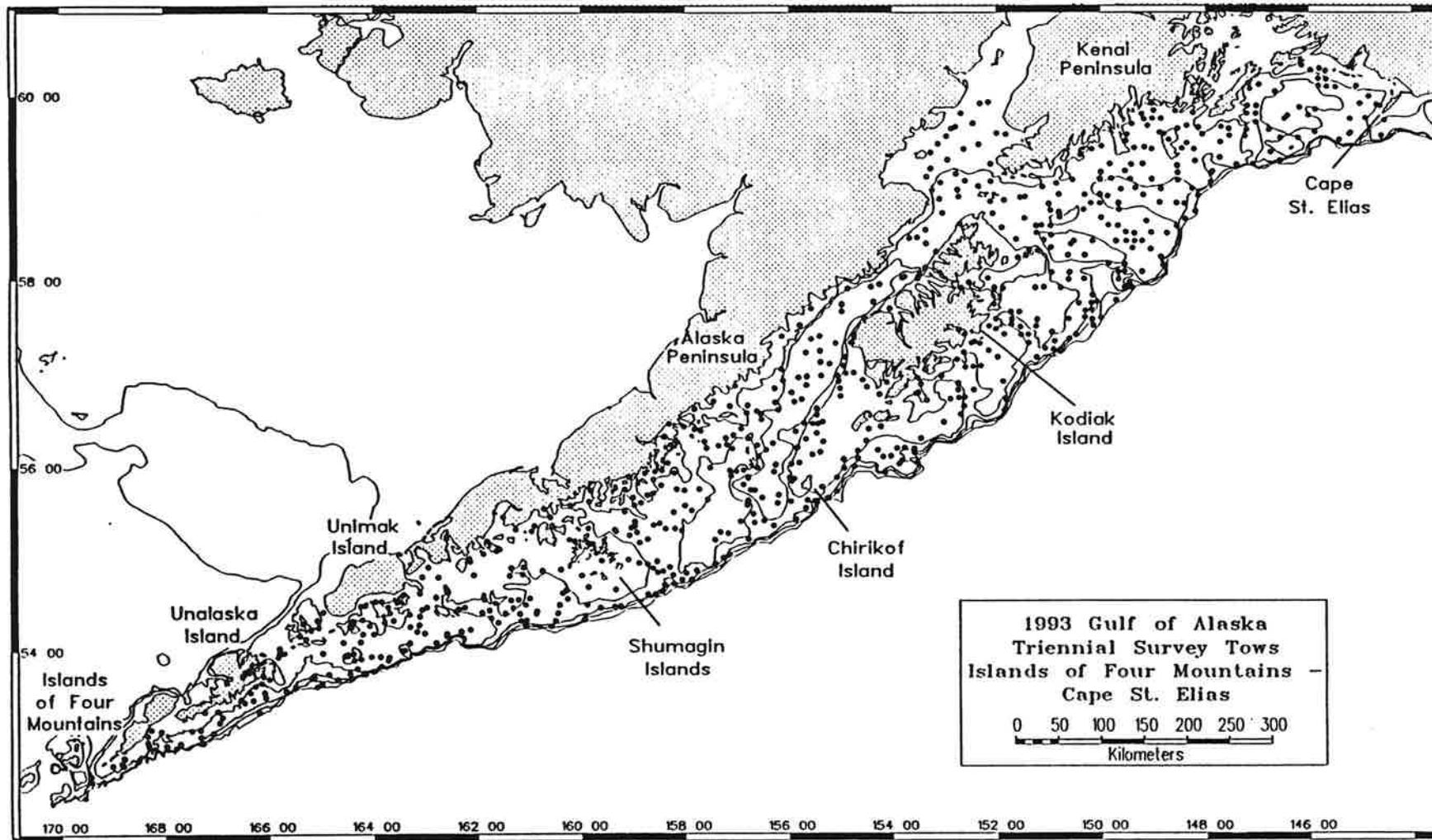


Figure 1. --Survey stations attempted during the 1993 triennial bottom trawl survey of the central and western Gulf of Alaska.

Arrowtooth flounder (Atheresthes stomias) was by far the most abundant species in the survey area. Other important catch components included walleye pollock (Theragra chalcogramma), Pacific ocean perch (Sebastes alutus), flathead sole (Hippoglossoides elassodon), rock sole (Pleuronectes bilineatus), rex sole (Errex zachirus), Pacific cod (Gadus macrocephalus) and northern rockfish (Sebastes polyspinis). Over 237 thousand length-frequencies were taken from 39 fish species along with 6,828 age structures, 6,423 length-weight measurements, 677 maturity determinations and 5,756 preserved stomachs.

Survey Design and Operations

A stratified random sampling design developed in 1984 was used for the 1993 survey. The 1993 survey area contained 36 sampling strata based on five general categories: nearshore, flats or banks, gullies or troughs, slope breaks, and the continental slope. The five strata types were further divided by depth contours at 100 m, 200 m, 300 m, and 500 m and by International North Pacific Fisheries Commission boundaries.

The survey area was overlaid by gridpoints defining the centers of squares measuring 5 x 5 nm. Stations to be sampled were randomly selected from this grid. Strata were assigned one of three sampling densities, based on the combined results of the 1984, 1987, and 1990 triennial surveys. The 1990 survey results were given more weight in this process than the previous surveys. A total of 748 pre-selected stations were randomly generated for the survey.

Trawl tows were 30 minutes in duration. Efforts were made to maintain each tow at a constant depth. In cases where depths increased or decreased during a tow, trawl warps were adjusted accordingly. Fishing effort and trawl performance were monitored and evaluated with an integrated data collection system consisting of real-time trawl configuration using headrope and wing-tip mounted acoustic sensors, geographical positioning (GPS) and a micro-bathythermograph (time-temperature-depth) unit mounted to the trawl headrope.

Catches were sorted to species, weighed, and enumerated. A variety of biological data (age, length, sex, weight, and maturity of individual specimens) were collected. Special requests were also fulfilled for stomach, tissue, and whole fish samples.

Vessels and Gear

The *Argosy* is 37.95 meters (124'-6") in overall length, 13.71 m (45') wide and powered by a single main engine generating 1,750 continuous horsepower. Deck equipment included paired hydraulic winches with 1,646 m (800 fm) of 2.54 centimeter (1") cable per drum mounted on the main deck, two hydraulic net reels (one mounted over the stern ramp and the other mounted forward on the working deck), and two gilson winches mounted on the main boom for pulling/lifting. The *Alsea* is 38.05 m (124'-10") in overall length, 13.71 m (45') wide and also powered by a 1,750 continuous horsepower single main engine. Deck equipment included paired hydraulic trawl winches with 1,463 m (900 fm) of 2.54 cm (1") cable per drum mounted on the bridge deck, two hydraulic net reels configured as previously noted and two gilson winches mounted on the main boom for pulling/lifting. The *Progress* is 35.42 m (115') in overall length 9.29 m (30.5') wide and powered by a single main engine generating 1,285 continuous horsepower. Deck equipment included paired hydraulic trawl winches located on the working deck with 1,219 m (650 fm) of 2.22 cm (7/8") cable per drum and two hydraulic net reels and gilson winches configured the same as the *Argosy* and *Alsea*. Electronic equipment on all vessels consisted of Trimble Navtrak¹ GPS receivers, Loran C receivers with converters for geodetic positions, video plotters, dual radars, single sideband and VHF radios, paper and color video fish finders.

All vessels used standard RACE Division Poly-Nor'eastern high opening bottom trawls rigged with rubber bobbin roller gear (Appendix). Gear specifications included: a 27.2 m (89'-1") headrope with twenty-one 30 cm (12") diameter floats, and a 24.3 m (79'-7") chain "fishing line" attached to a 24.9 m (81'-7"), .95 cm (3/8") diameter 6 X 19 galvanized wire footrope. The roller gear was 24.2 m (79'-6") long and constructed of 1.91 cm (3/4") diameter 6 X 19 galvanized wire rope with 36 cm (14") rubber bobbins separated by 10 cm (4") rubber disks. In addition, 5.9 m (19' 6") wire rope extensions with 10 cm (4") and 20 cm (8") rubber disks were used to span each lower flying wing section.

Trawls were constructed of 12.7 cm (5") stretched-mesh polyethylene web with a 3.2 cm (1-1/4") mesh nylon liner in the codend. Net rigging consisted of triple 54.84 m (180') 1.59 cm

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

(5/8") diameter galvanized wire rope dandyline. The dandyline were rigged with, 22.9 cm (9"), 45.7 cm (18"), and 60.7 cm (24"), chain extensions to the headrope, side, and bottom wing attachments, respectively. Steel V-doors, 1.83 m x 2.74 m (6' x 9'), weighing approximately 800 kg (1,700 lb.) each were used by all vessels. The fishing dimensions of the trawls were measured aboard each vessel using SCANMAR acoustic net mensuration equipment.

Organization of Report

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 *Argosy* and Section 2 for the *Alsea/Progress*. 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.

Explanations of the codes and terminology appearing in the fishing logs are summarized in Table 1.

The Appendix contains specifications and diagrams of the fishing gear used during the survey (Table A1).

For further information contact Dr. Gary Stauffer, Director, Resource Assessment and Conservation Engineering Division, Alaska Fisheries Science Center, National Marine Fisheries Service, 7600 Sand Point Way NE., Building 4, BIN C15700, Seattle, WA 98115-0070 -- Telephone (206) 526-4170.

Table 1.-- Definitions of labels used in the fishing logs of the 1993 triennial bottom trawl survey.

Gear depth-	fathoms
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, net snagged bottom</p> <p>7 = unsatisfactory tow, torn net</p>
Gear type-	172 = polyethylene Noreastern bottom trawl with roller gear
Catch units-	<p>The listings of total species catches by haul are in kilograms. The summary listings of catch rates for selected species use kilograms of catch per nautical mile trawled. A 0.0 kg weight indicates a catch of less than 0.1 kg/nm.</p>

Section 1

Fishing Log for the F/V *Argosy*

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

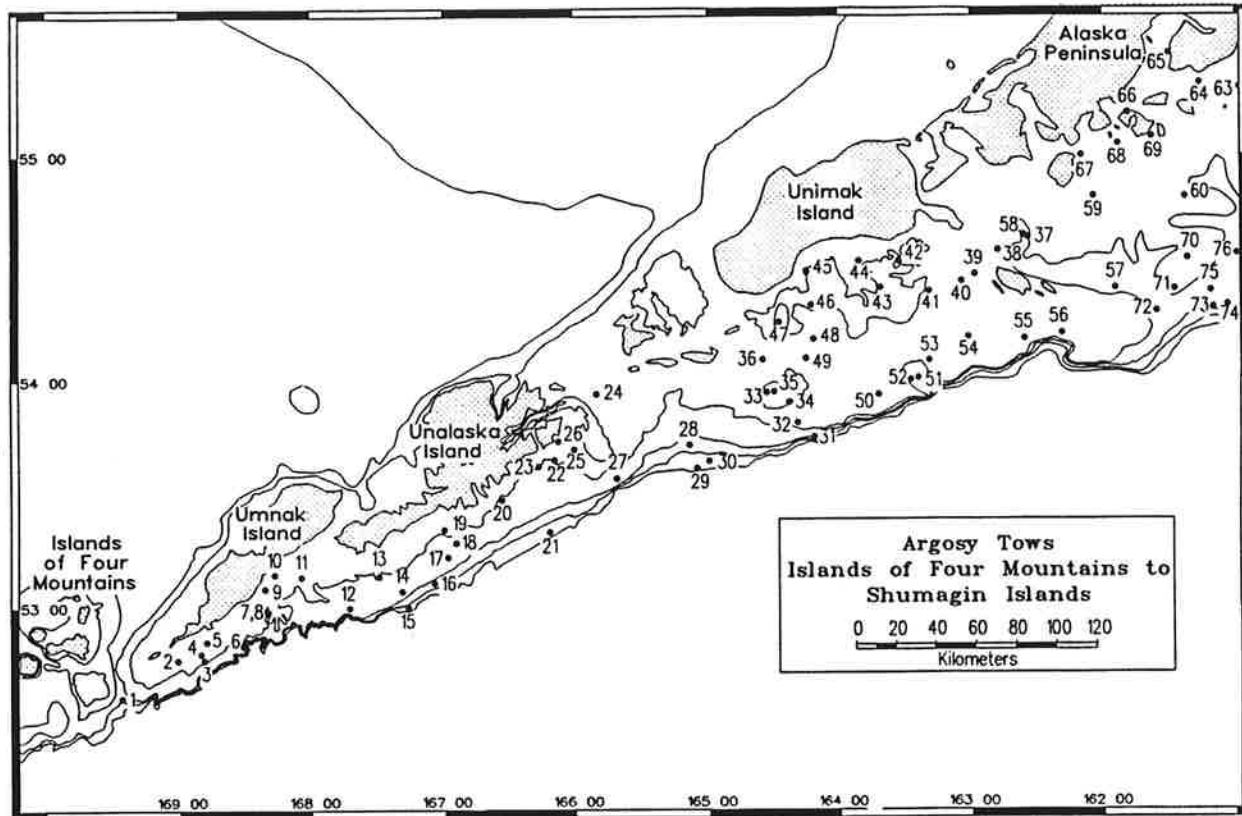


Figure 2. --Stations surveyed by the chartered trawler *Argosy* between Islands of Four Mountains and the Shumagin Islands.

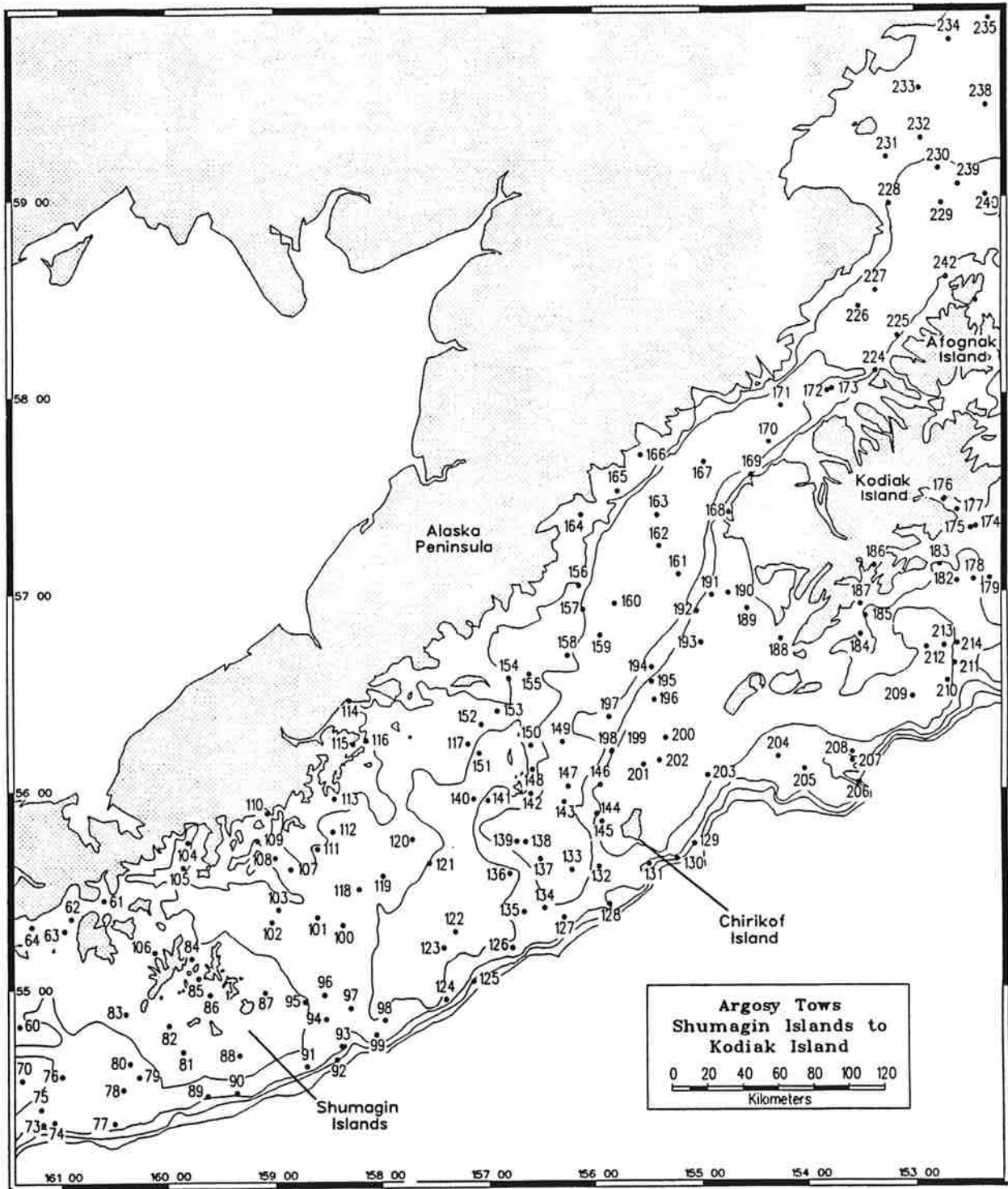


Figure 3. --Stations surveyed by the chartered trawler Argosy between the Shumagin Islands and Kodiak Island.

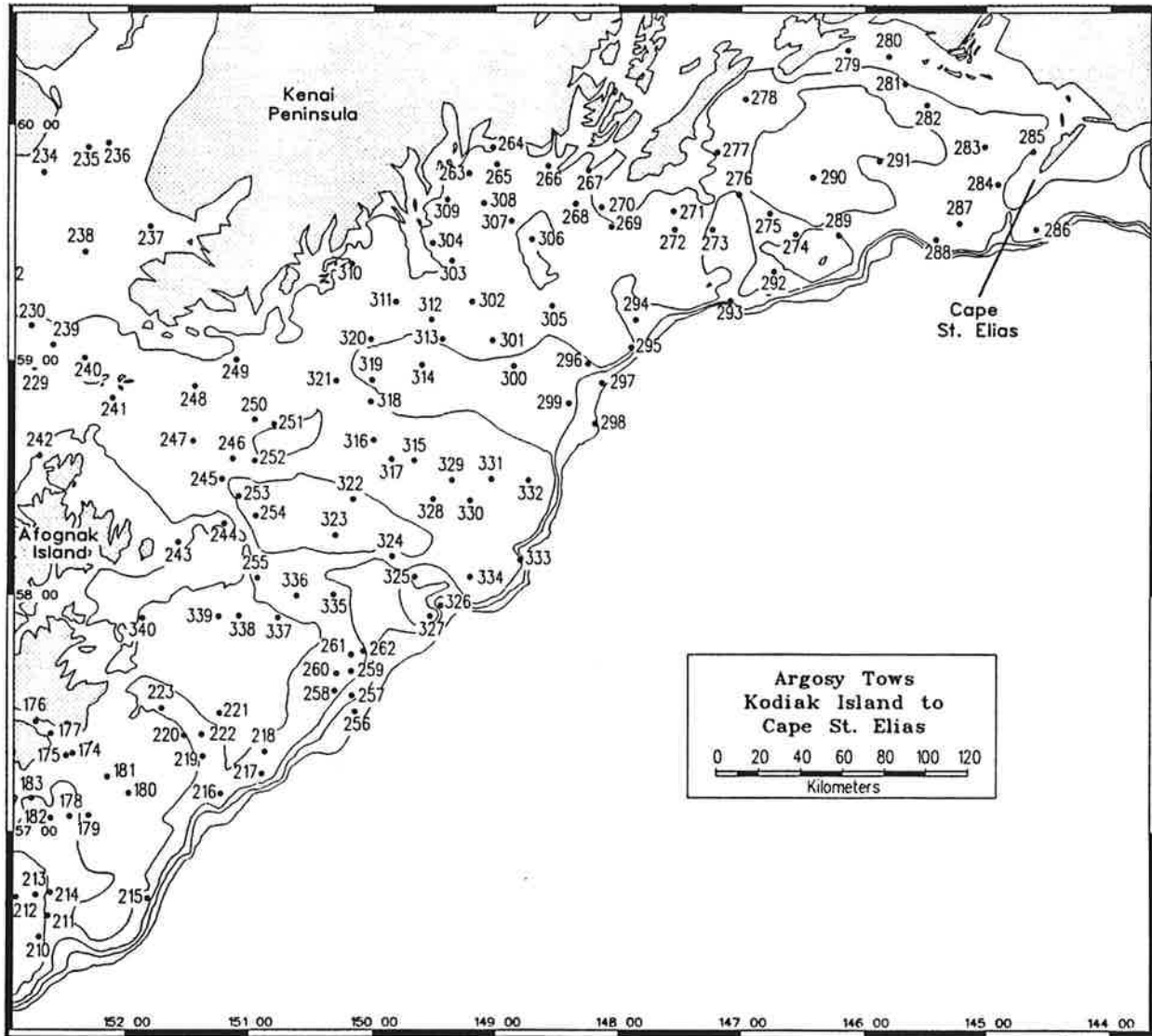


Figure 4. --Stations surveyed by the chartered trawler *Argosy* between Kodiak Island and Cape St. Elias.

Section 1 (continued)

Fishing Log for the F/V *Argosy*

- **Summary listings of species catches by haul**
 - **Haul start latitude and longitude**
 - **Loran readings**
 - **Bottom depth in fathoms**
 - **Duration of tow in hundredths of an hour**
 - **Distance fished in nautical miles**
 - **Total catch weight in kilograms by species**

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	1		2		3		4		5		6		7		8		9		10		11	
MONTH/DAY/YEAR	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 8/93	6/ 8/93	6/ 8/93	6/ 8/93
LATITUDE START	52 36.4	52 46.4	52 46.1	52 48.3	52 50.9	52 50.3	52 58.2	52 58.4	53 4.9	53 9.4	53 7.9											
LONGITUDE START	169 26.4	169 0.7	168 48.3	168 50.4	168 46.5	168 31.6	168 19.0	168 19.2	168 19.9	168 16.2	168 3.6											
LATITUDE END	52 35.3	52 45.4	52 45.9	52 46.9	52 51.0	52 49.2	52 59.0	52 59.3	53 5.0	53 8.2	53 8.0											
LONGITUDE END	169 25.5	169 0.7	168 49.0	168 50.3	168 49.0	168 30.1	168 20.6	168 20.2	168 22.3	168 17.2	168 5.9											
LORAN START	17087.50	17225.60	17261.00		17293.00		17402.30		17436.10	17470.30	17496.50											
LORAN START	48943.00	48878.90	48832.00		48837.90		48730.60		48761.00	48757.60	48700.60											
LORAN END	17085.40	17220.90		17260.80	17285.90		17401.90	17404.90	17429.70	17461.50	17490.60											
LORAN END	48938.00	48876.00		48841.00	48847.40		48747.30	48746.40	48771.30	48758.60	48711.20											
GEAR DEPTH	122	39	57	43	46	76	55	55	36	35	43											
DURATION IN HOURS	0.42	0.53	0.17	0.44	0.50	0.50	0.40	0.36	0.49	0.48	0.49											
DISTANCE FISHED	1.24	0.98	0.49	1.30	1.51	1.46	1.24	1.10	1.47	1.28	1.40											
PERFORMANCE / GEAR	1 /172	0 /172	6 /172	0 /172	0 /172	1 /172	5 /172	1 /172	0 /172	0 /172	0 /172											
POLLOCK	11.3	0.0	0.0	0.0	5.0	371.5	19.5	200.0	15.6	5.1	0.0											
PACIFIC COD	1.8	54.4	0.0	229.5	73.9	149.2	76.7	270.3	45.4	37.9	259.5											
SABLEFISH	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
ATKA MACKEREL	0.0	4.5	0.0	857.1	1.0	0.0	0.0	0.0	0.0	0.0	34.5											
SCULPINS	12.9	2.8	0.0	6.8	6.8	10.4	0.4	0.8	0.0	8.0	5.6											
ARROWTOOTH FL	13.2	5.0	0.0	6.1	44.0	106.6	33.6	99.3	22.5	28.6	8.2											
HALIBUT	0.0	41.7	0.0	139.1	49.7	4.9	26.7	38.9	30.5	46.5	103.7											
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0											
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
REX SOLE	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0											
ROCK SOLE	0.0	11.3	0.0	15.6	46.7	3.2	12.7	24.5	68.0	78.0	53.1											
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0											
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
PAC OC PERCH	3985.7	3.6	0.0	0.0	0.1	2205.8	14.5	114.8	0.0	0.0	0.5											
ROUGHEYE RKFH	55.8	0.0	0.0	0.9	0.0	0.0	0.0	5.8	0.0	0.0	0.0											
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
NORTHERN RKFH	0.9	1.4	0.0	12.2	0.0	9.5	32.7	33.1	0.0	0.1	2.3											
SHORTRAKER RKFH	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
DUSKY ROCKFISH	0.0	2.6	0.0	0.0	0.0	0.0	3.2	2.7	0.0	0.0	0.0											
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0											
SHARPCHIN RKFH	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
TANNER CRAB	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0											
KING CRAB	21.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
TOTAL CATCH	4108.6	140.0	0.0	1267.3	227.3	2865.9	220.1	791.8	182.4	204.6	467.4											

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	6/ 8/93	6/ 8/93	6/ 8/93	6/ 9/93	6/ 9/93	6/ 9/93	6/ 9/93	6/ 9/93	6/10/93	6/10/93	6/10/93
LATITUDE START	52 59.1	53 8.7	53 4.8	53 0.2	53 6.3	53 14.1	53 17.6	53 20.7	53 29.0	53 20.3	53 39.7
LONGITUDE START	167 42.9	167 28.8	167 18.2	167 14.8	167 5.5	166 57.4	166 53.4	166 59.7	166 32.6	166 10.6	166 9.0
LATITUDE END	53 0.5	53 7.6	53 3.9	52 59.9	53 6.8	53 12.7	53 16.5	53 20.7	53 27.8	53 19.8	53 38.3
LONGITUDE END	167 42.8	167 30.4	167 20.2	167 17.5	167 3.3	166 58.6	166 54.9	166 59.9	166 33.9	166 12.3	166 9.5
LORAN START	17503.70		17593.00	17577.20	17630.30	17684.70	17712.70	17715.20	17810.60	17811.30	17906.30
LORAN START	48588.70		48494.30	48468.80	48439.10	48421.60	48410.30	48447.50	48334.50	48207.40	48240.60
LORAN END	17511.30	17578.50	17584.00	17569.70	17637.80	17677.00	17703.70	17714.40	17802.00	17804.50	17898.30
LORAN END	48591.60	48555.50	48501.00	48479.20	48431.30	48423.30	48414.40	48447.40	48338.40	48216.10	48239.80
GEAR DEPTH	59	52	78	184	119	69	57	49	53	199	46
DURATION IN HOURS	0.50	0.50	0.50	0.56	0.54	0.49	0.50	0.09	0.49	0.39	0.48
DISTANCE FISHED	1.43	1.47	1.47	1.69	1.41	1.51	1.48	0.11	1.40	1.16	1.47
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	6 /172	0 /172	0 /172	7 /172
POLLOCK	679.0	9231.1	2564.7	0.0	714.9	1214.1	3.6	0.0	2.7	1.0	0.9
PACIFIC COD	168.3	148.3	76.2	0.0	13.2	161.0	323.4	0.0	46.7	0.0	296.6
SABLEFISH	0.0	0.0	0.0	40.4	16.8	0.0	0.0	0.0	0.0	18.6	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
SCULPINS	0.0	0.8	0.0	2.9	0.1	0.0	0.9	0.0	0.0	0.0	0.4
ARROWTOOTH FL	32.7	26.8	98.9	322.5	71.7	274.4	250.4	0.0	270.8	39.5	5.0
HALIBUT	39.5	41.7	23.4	11.1	16.2	40.3	243.3	0.0	31.9	0.0	36.8
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	16.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.3	0.0	0.5	16.3	15.9	0.0	0.0	0.0	0.4	20.0	0.0
ROCK SOLE	31.3	47.2	74.6	0.0	0.0	15.0	49.4	0.0	34.9	0.0	18.1
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	243.6	0.0	0.0	0.9	415.0	17.2	0.0	0.0	0.6	0.0	98.4
ROUGHEYE RKFH	0.0	0.0	0.0	1105.7	1.5	0.0	0.0	0.0	0.0	24.9	0.0
THORNYHEADS	0.0	0.0	0.0	113.4	5.0	0.0	0.0	0.0	0.0	34.0	0.0
NORTHERN RKFH	136.1	0.0	0.0	0.0	16.8	1.3	0.0	0.0	0.0	0.0	78.0
SHORTRAKER RKFH	0.0	0.0	0.0	248.1	0.0	0.0	0.0	0.0	0.0	10.4	0.0
DUSKY ROCKFISH	94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	45.4
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1425.6	9495.9	2838.5	1878.8	1287.4	1723.3	871.0	0.0	388.0	148.4	632.2

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	6/10/93	6/11/93	6/11/93	6/11/93	6/11/93	6/12/93	6/12/93	6/12/93	6/12/93	6/12/93	6/13/93
LATITUDE START	53 36.6	53 56.1	53 42.5	53 44.4	53 34.5	53 42.9	53 36.8	53 38.7	53 44.8	53 49.2	53 57.1
LONGITUDE START	166 16.5	165 51.2	166 0.3	166 6.7	165 40.1	165 7.1	165 6.1	164 58.3	164 10.8	164 20.3	164 32.5
LATITUDE END	53 38.0	53 56.7	53 41.2	53 43.4	53 33.7	53 43.1	53 36.8	53 38.6	53 45.2	53 48.3	53 56.3
LONGITUDE END	166 16.5	165 49.0	166 0.5	166 8.4	165 42.5	165 9.5	165 3.7	165 0.4	164 13.0	164 18.6	164 34.4
LORAN START	17877.40	18011.40	17934.30	17932.50	17929.50	18016.20	17991.00	18010.90	18105.60	18111.70	47761.80
LORAN START	48271.40	48180.70	48201.70	48237.90	48081.60	47921.00	47906.20	47865.50	47624.90	47684.60	18129.60
LORAN END	17884.30	18017.20	17927.20	17924.50	17922.40	18013.40	18004.40	18017.00	18104.30	18110.30	47771.30
LORAN END	48274.10	48169.60	48199.90	48245.30	48092.80	47935.20	47903.80	47888.80	47638.70	47673.30	18124.00
GEAR DEPTH	48	41	41	40	69	140	251	210	77	47	57
DURATION IN HOURS	0.47	0.48	0.47	0.47	0.48	0.48	0.50	0.41	0.48	0.46	0.46
DISTANCE FISHED	1.43	1.42	1.32	1.48	1.58	1.44	1.43	1.23	1.33	1.32	1.42
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	5.0	0.2	0.3	0.4	13.2	0.0	0.0	0.0	1.4	2.3	0.1
PACIFIC COD	27.2	89.4	11.3	32.7	133.8	0.0	0.0	0.0	120.7	13.6	63.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	148.3	79.4	27.2	0.0	0.0	0.0
ATKA MACKEREL	0.0	1.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
SCULPINS	0.0	6.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
ARROWTOOTH FL	30.8	0.0	0.0	6.8	645.0	28.6	12.0	22.7	207.3	38.1	110.2
HALIBUT	12.3	150.5	144.1	41.1	11.2	0.0	11.1	0.0	18.7	89.6	51.7
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	5.4	2.3
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	1.1	5.9	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	1.1	21.3	9.1	5.0	1.8	0.0	14.5
ROCK SOLE	20.4	0.0	29.0	87.1	24.0	0.0	0.0	0.0	3.4	52.6	10.4
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	4.8	0.0	0.0	0.0	0.7	8.6	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	3.6	51.7	16.8	0.0	0.0	0.0
NORTHERN RKFH	3.2	0.0	0.0	0.0	1.1	0.7	0.0	0.0	1.6	1.1	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	103.7	248.4	186.8	168.1	830.1	216.5	169.2	83.1	354.9	203.4	256.3

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	6/13/93	6/13/93	6/13/93	6/14/93	6/14/93	6/14/93	6/14/93	6/14/93	6/14/93	6/15/93	6/15/93
LATITUDE START	53 54.0	53 57.4	54 5.4	54 38.8	54 34.6	54 27.6	54 26.1	54 23.0	54 32.5	54 25.0	54 32.4
LONGITUDE START	164 21.8	164 30.9	164 34.0	162 34.5	162 49.0	162 59.0	163 5.1	163 18.3	163 33.0	163 42.0	163 52.0
LATITUDE END	53 54.3	53 56.5	54 5.4	54 37.6	54 35.0	54 28.7	54 26.6	54 24.3	54 31.1	54 24.2	54 31.4
LONGITUDE END	164 24.2	164 28.9	164 36.3	162 33.4	162 46.9	162 57.5	163 3.2	163 19.3	163 32.9	163 40.4	163 50.2
LORAN START	47697.20	47752.70	18161.90	18379.40	18356.30	18327.00	18317.40	18297.00	18319.00	18276.00	18304.90
LORAN START	18129.30	18132.40	47781.30	47100.90	47188.00	47244.30	47279.80	47357.00	47451.30	47489.80	47566.10
LORAN END	47711.60	47740.80	18159.10	18375.70	18359.20	18331.70	18320.10	18300.90	18314.50	18284.00	18302.70
LORAN END	18127.50	18131.00	47794.30	47093.60	47173.80	47235.40	47268.10	47363.70	47449.50	47489.50	47553.70
GEAR DEPTH	59	59	47	77	53	23	23	37	53	51	46
DURATION IN HOURS	0.46	0.49	0.49	0.46	0.44	0.49	0.38	0.47	0.48	0.41	0.50
DISTANCE FISHED	1.39	1.42	1.37	1.33	1.29	1.37	1.17	1.38	1.37	1.20	1.48
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	8.2	1.4	5.0	311.6	583.8	0.0	0.0	0.9	36.3	100.2	133.8
PACIFIC COD	138.3	64.4	40.4	81.2	99.8	0.1	16.8	0.0	156.9	67.1	303.5
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.8	0.0	0.5	4.2	11.8	0.7	0.1	0.0	1.2	0.0	34.9
ARROWTOOTH FL	321.1	117.9	27.2	252.2	85.7	0.0	0.0	1.6	107.0	65.8	135.2
HALIBUT	66.9	126.6	59.6	16.0	49.7	84.3	336.3	197.4	143.7	60.6	73.1
FLATHEAD SOLE	2.3	3.2	36.3	156.5	65.3	0.0	0.0	1.4	7.7	6.4	48.1
DOVER SOLE	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	10.0	17.2	0.0	5.9	1.0	0.0	0.0	0.0	0.0	2.3	0.0
ROCK SOLE	10.4	7.3	95.5	5.9	66.2	104.3	55.3	56.7	122.5	11.3	225.4
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	10.0
BUTTER SOLE	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	559.1	338.0	267.2	835.5	963.4	189.4	408.5	258.0	575.3	313.7	968.8

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93	6/16/93	6/16/93	6/16/93	6/16/93	6/16/93	6/17/93
LATITUDE START	54 28.3	54 19.4	54 16.1	54 11.1	54 5.1	53 56.7	54 1.1	53 59.4	54 4.8	54 12.1	54 11.2
LONGITUDE START	164 15.6	164 13.2	164 28.0	164 13.3	164 15.2	163 41.4	163 23.5	163 27.7	163 19.8	163 1.2	162 34.4
LATITUDE END	54 29.6	54 20.8	54 14.7	54 10.6	54 6.4	53 55.5	53 59.8	54 0.7	54 5.4	54 10.6	54 10.7
LONGITUDE END	164 14.7	164 13.1	164 27.5	164 11.1	164 15.9	163 43.0	163 24.5	163 27.2	163 17.7	163 1.3	162 37.0
LORAN START	18270.50	18236.80	18210.60	18205.40	18179.40	18172.00	18205.50	18195.30	18222.10	18263.00	18289.80
LORAN START	47702.50	47677.20	47760.00	47669.50	47663.80	47461.40	47362.80	47385.10	47343.60	47239.30	47090.70
LORAN END	18276.30	18242.40	18205.50	18205.50	18175.20	18165.90	18199.40	18200.60	18226.00	18257.60	18286.20
LORAN END	47698.30	47678.50	47755.40	47655.70	47669.30	47469.90	47367.60	47383.60	47331.80	47239.00	47105.70
GEAR DEPTH	49	53	43	37	45	41	60	58	44	37	40
DURATION IN HOURS	0.47	0.48	0.47	0.48	0.49	0.50	0.50	0.49	0.51	0.50	0.50
DISTANCE FISHED	1.35	1.31	1.35	1.37	1.36	1.56	1.49	1.26	1.33	1.55	1.61
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	282.6	665.5	4.5	0.0	0.0	0.0	0.0	0.1	0.0	4.1	0.1
PACIFIC COD	39.0	34.9	33.6	111.1	90.3	12.9	122.9	85.3	59.0	87.5	87.1
SABLEFISH	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	5.0	2.7	0.9	0.0	3.2	5.0
SCULPINS	49.7	0.0	3.2	0.4	0.0	1.4	0.0	0.0	2.7	1.1	4.9
ARROWTOOTH FL	300.7	141.5	9.1	4.5	25.9	0.0	417.3	113.9	9.1	0.6	2.9
HALIBUT	107.0	60.3	100.2	60.1	20.7	0.0	42.5	62.3	39.6	55.9	129.2
FLATHEAD SOLE	40.4	10.0	0.7	3.2	4.5	0.0	9.1	14.1	38.6	6.8	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	12.7	0.0	0.0	0.0	0.0	94.3	35.4	0.0	0.0	0.0
ROCK SOLE	150.1	7.3	21.3	29.9	77.6	0.0	26.8	34.5	54.0	107.5	46.7
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	62.4	0.0	32.7	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	107.9	0.0	62.1	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	9.8	0.0	26.3	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	989.9	957.3	172.6	209.2	219.0	201.2	717.6	468.3	203.0	266.7	275.9

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	6/17/93	6/17/93	6/18/93	6/18/93	6/18/93	6/20/93	6/20/93	6/20/93	6/20/93	6/20/93	6/20/93
LATITUDE START	54 12.6	54 25.0	54 38.1	54 48.5	54 49.0	55 27.5	55 20.7	55 17.3	55 19.6	55 27.5	55 11.1
LONGITUDE START	162 18.1	161 55.8	162 35.8	162 3.9	161 22.3	160 36.1	160 54.6	160 58.0	161 16.4	161 30.0	161 47.8
LATITUDE END	54 12.1	54 23.9	54 39.4	54 49.6	54 48.8	55 26.1	55 21.8	55 18.1	55 18.3	55 26.1	55 11.1
LONGITUDE END	162 19.7	161 54.1	162 36.2	162 5.4	161 24.1	160 35.2	160 53.0	160 57.3	161 15.9	161 30.6	161 50.1
LORAN START	18306.10	18360.00	18376.20	18424.40	18445.30	18553.20	18533.30	18524.50	18524.60	18540.00	18493.00
LORAN START		46863.30	47108.00	46914.00	46655.40	46349.60	46471.90	46494.40	46610.40	46697.80	46813.20
LORAN END		18357.60	18380.20	18426.90	18444.00	18550.80	18536.60	18526.00	18520.80	18536.70	18492.20
LORAN END		46852.90	47110.80	46922.90	46667.10	46344.80	46461.10	46490.00	46608.00	46702.40	46827.60
GEAR DEPTH	39	78	75	34	81	62	26	29	26	21	28
DURATION IN HOURS	0.32	0.52	0.50	0.50	0.39	0.49	0.49	0.29	0.45	0.50	0.50
DISTANCE FISHED	1.01	1.50	1.32	1.42	1.06	1.46	1.43	0.87	1.35	1.45	1.32
PERFORMANCE / GEAR	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	1.7	19.5	79.8	2.0	19.1	692.3	3.3	1.5	1.4	0.0	2.3
PACIFIC COD	2.7	29.5	118.4	284.9	5.0	134.7	2.0	2.9	13.6	20.9	71.2
SABLEFISH	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.4	0.2
ATKA MACKEREL	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	5.7	16.1	0.2	22.3	4.5	0.0	8.6	35.6	23.6
ARROWTOOTH FL	0.0	69.9	612.8	23.6	396.0	259.0	0.2	0.9	20.9	9.1	32.2
HALIBUT	0.0	12.7	25.4	43.9	20.2	39.6	74.9	36.9	52.1	65.9	53.8
FLATHEAD SOLE	0.0	45.4	253.6	29.0	128.8	285.3	3.4	5.4	5.4	4.5	8.6
DOVER SOLE	0.0	1.6	3.8	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.2
REX SOLE	0.0	1.1	12.2	0.0	2.5	2.0	0.0	0.0	0.0	0.0	0.4
ROCK SOLE	0.0	0.4	2.0	75.3	1.8	31.3	292.1	88.2	313.0	124.7	119.7
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
YELLOWFIN SOLE	0.0	0.0	0.4	142.4	0.0	137.4	0.0	0.0	19.1	809.2	392.4
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	34.5	0.0	0.4
ALASKA PLAICE	0.0	0.0	1.8	3.6	0.0	2.9	0.0	0.0	0.0	0.0	4.5
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
PAC OC PERCH	0.3	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	5.0	4.5	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	4.5	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.1	1.6	0.0	0.1	0.4	0.0	0.0	0.0	0.1	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
PINK SHRIMP	0.0	0.1	0.6	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	23.2	185.3	1122.6	621.3	578.3	1609.0	380.4	142.2	469.0	1074.1	709.5

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	6/21/93	6/21/93	6/21/93	6/21/93	6/21/93	6/22/93	6/22/93	6/22/93	6/22/93	6/22/93	6/22/93
LATITUDE START	54 59.5	55 3.6	55 5.6	54 32.1	54 23.5	54 17.4	54 19.0	54 19.9	54 24.2	54 34.4	54 19.1
LONGITUDE START	162 11.2	161 54.1	161 38.1	161 20.9	161 28.3	161 36.4	161 11.2	161 2.3	161 11.9	160 58.5	160 28.8
LATITUDE END	55 0.2	55 2.3	55 4.2	54 32.9	54 24.9	54 18.8	54 19.4	54 19.8	54 23.2	54 33.1	54 19.8
LONGITUDE END	162 8.9	161 52.9	161 38.6	161 23.0	161 27.7	161 36.1	161 8.9	161 4.9	161 10.5	161 0.0	160 31.2
LORAN START	18452.90	18470.20	18482.60	18399.50	18371.30	18349.10	18368.40		18382.40	18417.00	18390.90
LORAN START	46960.20	46852.40	46752.00	46650.70	46697.70	46747.00	46595.90		46598.80	46514.30	46342.40
LORAN END	18455.00	18467.50	18478.20	18400.50	18375.90	18353.30	18370.70	18374.10	18380.40	18412.70	18391.70
LORAN END	46945.30	46844.90	46755.00	46664.10	46693.70	46745.10	46581.90	46558.20	46590.30	46523.50	46356.20
GEAR DEPTH	47	22	22	44	42	75	76	69	77	69	68
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.48	0.50	0.50	0.51	0.48	0.51	0.50
DISTANCE FISHED	1.50	1.43	1.48	1.47	1.42	1.35	1.41	1.57	1.27	1.50	1.56
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	813.8	4.1	0.2	1.4	0.1	5.4	108.0	1.4	4.1	45.8	0.0
PACIFIC COD	153.8	80.3	76.7	34.5	54.9	24.5	24.9	5.9	9.1	29.0	51.7
SABLEFISH	0.0	0.0	0.0	0.0	0.0	3.6	29.0	1.6	0.0	0.9	4.8
ATKA MACKEREL	0.0	0.0	0.0	1.8	6.6	2.0	0.0	0.0	3.6	0.0	1.3
SCULPINS	19.9	24.5	10.3	7.1	1.0	0.0	0.3	0.2	0.0	0.0	0.3
ARROWTOOTH FL	54.4	2.3	12.2	0.0	0.7	168.3	249.9	177.8	78.0	82.1	30.8
HALIBUT	112.0	34.8	107.0	140.6	43.0	34.4	2.2	90.5	25.1	24.0	0.0
FLATHEAD SOLE	544.8	1.1	0.5	0.0	0.0	23.1	1.8	0.0	5.9	15.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	1.4	3.2	5.4	5.2	1.8	0.0
REX SOLE	0.2	0.0	0.0	0.0	0.0	192.3	7.3	2.0	54.0	41.3	0.0
ROCK SOLE	31.3	261.3	414.6	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	2.9	0.0	63.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	214.5	78.0	144.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	1.1	2.6	74.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	77.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.8	0.6	0.0	0.0	171.5	0.0	0.0	13.2
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	10.4	92.5	0.0	0.0	67.6	0.0	0.0	28.6
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	1.0	80.7	0.0	0.0	0.0	0.0	0.0	4.1
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	1.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2027.9	490.7	904.5	199.4	280.8	455.1	426.7	524.8	185.1	240.1	134.9

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	6/23/93	6/23/93	6/23/93	6/23/93	6/23/93	6/23/93	6/26/93	6/26/93	6/26/93	6/27/93	6/27/93
LATITUDE START	54 29.3	54 33.8	54 37.8	54 41.1	54 49.5	54 52.8	55 9.8	55 2.5	54 57.7	54 59.4	54 39.1
LONGITUDE START	160 23.7	160 14.8	160 22.3	159 50.0	159 59.9	160 24.6	159 46.3	159 43.4	159 35.7	159 6.6	159 20.8
LATITUDE END	54 29.8	54 33.0	54 37.0	54 40.8	54 48.3	54 52.3	55 8.8	55 4.0	54 58.7	54 58.4	54 40.3
LONGITUDE END	160 26.2	160 17.1	160 20.5	159 52.8	159 59.0	160 22.4	159 47.2	159 42.7	159 37.2	159 4.6	159 19.6
LORAN START	18420.00	18435.60	18442.10	18463.50	18478.80	18477.50	18529.50	18514.70	18506.40	18518.20	18469.40
LORAN START	46306.00	46247.80	46291.80	46092.60	46146.60	46296.90	46044.70	46003.60		33693.10	33790.70
LORAN END	18420.30	18432.20	18440.80	18461.40	18476.20	18477.10	18526.10	18517.30	18507.10	18516.60	18472.70
LORAN END	46320.60	46263.60	46281.00	46109.70	46141.30	46283.60	46051.80	46027.50		33692.10	33784.10
GEAR DEPTH	81	64	62	42	34	40	27	32	30	44	42
DURATION IN HOURS	0.50	0.48	0.50	0.54	0.48	0.50	0.46	0.50	0.49	0.51	0.52
DISTANCE FISHED	1.52	1.53	1.38	1.67	1.33	1.37	1.13	1.51	1.36	1.46	1.42
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	7 /172
POLLOCK	1.1	17.7	7.3	110.2	17.7	1928.2	0.1	0.4	1.7	6.4	0.2
PACIFIC COD	56.7	135.6	96.2	13.2	88.5	91.6	3.2	56.5	78.9	14.7	10.8
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	10.0	1.4	1.6	0.0	0.0	0.0	0.0	2.9	0.0
SCULPINS	0.1	0.0	0.0	5.2	0.3	4.1	3.1	34.3	3.9	1.1	1.9
ARROWTOOTH FL	172.8	347.0	230.9	0.0	0.3	208.2	0.9	0.0	0.4	4.5	0.1
HALIBUT	16.6	28.3	80.6	245.4	81.5	126.9	58.8	89.6	129.0	152.6	43.8
FLATHEAD SOLE	6.8	5.4	6.8	0.0	0.0	11.3	0.0	0.0	0.1	0.5	0.0
DOVER SOLE	15.0	5.9	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	88.0	77.6	175.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	1.4	0.0	0.0	6.4	173.7	168.7	23.8	168.1	398.4	45.1	15.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	2.7	14.7	0.0	0.0	86.2	0.5	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	2.9	0.0	0.0	0.0	40.4	0.0	0.0	1.6	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	18.6	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.1	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
OTHER RKFH	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.9	0.1
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	358.7	620.5	630.5	390.3	366.3	2594.5	90.1	348.9	700.2	252.3	71.9

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	6/27/93	6/27/93	6/28/93	6/28/93	6/28/93	6/28/93	6/29/93	6/29/93	6/29/93	6/29/93	6/30/93
LATITUDE START	54 27.2	54 28.5	54 36.4	54 38.5	54 42.6	54 51.2	54 56.1	54 57.4	54 53.7	54 50.6	54 45.9
LONGITUDE START	159 39.1	159 20.2	158 41.2	158 24.5	158 22.5	158 32.1	158 44.3	158 32.2	158 16.8	157 57.4	158 3.4
LATITUDE END	54 27.9	54 28.5	54 36.2	54 38.1	54 42.3	54 50.0	54 56.0	54 58.7	54 54.3	54 50.0	54 45.9
LONGITUDE END	159 36.9	159 22.6	158 43.5	158 26.9	158 23.4	158 31.1	158 42.1	158 32.8	158 18.9	157 59.3	158 3.4
LORAN START	18434.90	18446.30	18478.30	18487.70	18497.60	18511.50	18517.60	18523.80	18521.10	18521.10	18509.30
LORAN START	33867.90	33812.60	33714.40	33672.60	33655.30	33646.40	33656.60	33626.30	33606.50	33576.00	33603.90
LORAN END	18437.80	18444.60	18476.70	18487.20		18508.20	18518.00	18526.40	18520.80	18518.80	18509.40
LORAN END	33860.90	33828.00	33719.60	33679.10		33648.60	33652.10	33623.00	33608.50	33581.70	33603.60
GEAR DEPTH	79	100	80	202	105	89	49	89	98	64	58
DURATION IN HOURS	0.48	0.47	0.47	0.51	0.26	0.50	0.43	0.48	0.49	0.50	0.06
DISTANCE FISHED	1.46	1.39	1.32	1.41	0.62	1.32	1.27	1.37	1.36	1.26	0.04
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	1 /172	1 /172	1 /172	0 /172	0 /172	0 /172	0 /172	5 /172
POLLOCK	266.5	179.2	0.1	0.0	2.7	0.0	0.5	4.1	4.1	0.6	0.0
PACIFIC COD	72.8	55.3	53.3	0.0	52.6	481.0	8.6	45.6	102.1	9.1	0.0
SABLEFISH	261.7	612.8	10.9	112.9	6.4	6.1	0.0	0.0	5.4	0.0	0.0
ATKA MACKEREL	0.0	0.0	3.2	0.0	1.4	0.0	24.9	2.7	0.0	0.0	0.0
SCULPINS	0.0	0.9	0.1	13.7	6.3	5.1	22.2	16.5	3.7	0.1	0.0
ARROWTOOTH FL	1789.3	121.8	686.9	83.0	39.0	215.5	12.7	123.6	149.2	10.7	0.7
HALIBUT	0.0	4.8	25.0	31.8	0.0	73.0	40.1	0.0	13.0	17.3	0.0
FLATHEAD SOLE	2.5	0.0	0.0	0.0	0.0	0.5	0.0	2.0	3.2	0.0	0.0
DOVER SOLE	14.0	0.9	26.8	45.6	0.0	9.5	0.0	10.9	24.9	0.9	0.0
REX SOLE	5.6	10.9	3.4	27.2	31.8	74.4	1.6	35.8	100.2	0.9	0.0
ROCK SOLE	0.0	0.0	2.0	0.0	0.0	0.0	7.9	0.0	0.0	5.7	0.7
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	922.8	7.7	2.0	2462.3	593.8	153.8	42.9	6.8	1.4	0.4
ROUGHYE RKFH	0.0	0.0	0.0	31.8	0.0	0.0	0.0	1.7	0.9	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	61.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	1.8	15.2	0.7	0.0	22.9	263.3	432.5	405.7	6.8	63.4	73.9
SHORTRAKER RKFH	0.0	0.0	0.0	96.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	3.2	512.3	10.4	0.0	5.6	11.8
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	67.6
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
OTHER RKFH	1.1	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2415.3	1924.6	820.1	506.8	2625.8	1726.3	1219.4	702.9	420.8	115.7	155.1

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	6/30/93	6/30/93	6/30/93	6/30/93	7/ 1/93	7/ 1/93	7/ 1/93	7/ 2/93	7/ 2/93	7/ 2/93	7/ 2/93
LATITUDE START	55 18.6	55 21.6	55 19.9	55 24.4	55 45.0	55 36.5	55 10.6	55 36.4	55 39.9	55 44.8	55 53.4
LONGITUDE START	158 21.4	158 37.4	159 2.8	158 57.9	159 48.4	159 52.6	160 8.2	158 49.9	159 0.6	159 8.4	159 5.4
LATITUDE END	55 19.7	55 21.4	55 20.1	55 23.1	55 43.5	55 36.9	55 11.7	55 35.7	55 39.3	55 44.8	55 52.6
LONGITUDE END	158 22.8	158 35.1	159 0.4	158 57.7	159 49.0	159 50.1	160 6.4	158 51.9	158 58.6	159 11.0	159 3.4
LORAN START	18567.00	18568.60	18560.50	18569.70	18598.10	18581.10	18524.80	33522.20	33531.70	18614.20	18628.50
LORAN START	33528.00	33551.60	33612.40	33585.10	33619.30	33660.90	33792.30	45662.40	45726.10	45772.70	45744.80
LORAN END	18569.60	18568.80	18561.80	18567.80	18595.30	18582.30	18526.60	33529.50	33530.10	18613.50	18627.50
LORAN END	33526.70	33546.90	33607.00	32590.50	33626.80	33654.00	33784.40	45675.90	45714.50	45788.70	45731.50
GEAR DEPTH	79	96	101	92	67	74	31	84	83	58	52
DURATION IN HOURS	0.48	0.47	0.47	0.47	0.53	0.50	0.48	0.47	0.55	0.50	0.48
DISTANCE FISHED	1.35	1.37	1.40	1.37	1.53	1.45	1.45	1.36	1.32	1.44	1.39
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172
POLLOCK	2.5	44.0	32.2	30.6	197.8	113.9	3.2	5.9	1.0	2.5	438.2
PACIFIC COD	0.0	0.0	8.6	0.0	65.8	63.7	0.0	0.0	0.0	28.3	11.8
SABLEFISH	35.2	30.8	1.6	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
ATKA MACKEREL	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.7	0.0	1.6	0.0	6.5	6.1	0.1	0.2	4.1	5.9
ARROWTOOTH FL	244.5	215.5	111.1	313.9	353.8	541.6	0.0	195.0	335.2	566.5	459.3
HALIBUT	53.6	0.0	3.3	29.1	60.2	74.8	159.3	38.7	4.5	86.0	120.8
FLATHEAD SOLE	47.4	86.2	75.1	64.9	131.5	158.8	0.4	49.9	99.6	50.8	214.3
DOVER SOLE	0.5	3.2	1.1	0.0	0.0	2.0	0.0	0.0	1.6	0.5	0.0
REX SOLE	17.2	0.2	5.0	0.0	0.2	5.4	0.0	2.3	0.0	1.1	0.1
ROCK SOLE	0.0	0.0	0.0	0.0	0.5	6.1	160.3	0.0	0.0	15.9	33.6
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	13.2	3.2	0.0	0.0	0.0	5.4	12.7
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	17.7	6.8	0.0	0.0	0.0	0.0	7.7
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	1.4	9.3	0.0	1.2	0.0	0.0	0.0	0.8	1.4	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.7	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.2	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	1.8	0.2	0.0	0.0	0.0	0.1	0.1	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	4.8	3.6	2.0	12.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.1	0.5	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	411.8	394.0	241.5	455.8	841.2	994.7	329.3	292.8	445.6	761.2	1304.4

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	7/ 3/93	7/ 3/93	7/ 3/93	7/ 4/93	7/ 4/93	7/ 4/93	7/ 4/93	7/ 5/93	7/ 5/93	7/ 5/93	7/ 5/93
LATITUDE START	55 41.9	55 48.1	55 57.9	56 27.8	56 13.7	56 15.2	56 13.4	55 29.3	55 34.3	55 45.5	55 37.2
LONGITUDE START	158 34.9	158 26.8	158 25.7	158 17.2	158 17.2	158 9.9	157 11.4	158 13.4	157 58.6	157 42.2	157 32.7
LATITUDE END	55 42.4	55 46.8	55 57.0	56 27.1	56 14.5	56 15.6	56 14.7	55 30.5	55 33.8	55 44.5	55 38.5
LONGITUDE END	158 37.4	158 28.2	158 27.5	158 19.4	158 15.0	158 8.0	157 11.1	158 12.2	158 0.4	157 43.5	157 33.9
LORAN START	18614.40	18625.20	18640.30	18682.20	18665.20	18667.40	18670.60	18596.90	18607.70	18628.00	18616.80
LORAN START	45560.50	45501.10	45482.40	45397.70	45409.00	45361.90	44983.70	45440.60	45341.00	45220.50	45173.90
LORAN END	18614.90	18623.50	18639.60	18681.50	18666.30	18668.70	18671.60	18599.30	18606.90	18626.20	18618.10
LORAN END	45575.60	45511.30	45495.00	45413.20	45394.30	45347.70	44979.90	45430.90	45352.40	45230.10	45179.50
GEAR DEPTH	61	61	36	17	42	65	63	75	70	69	56
DURATION IN HOURS	0.50	0.53	0.49	0.50	0.49	0.39	0.48	0.49	0.38	0.49	0.49
DISTANCE FISHED	1.47	1.54	1.28	1.44	1.43	1.16	1.35	1.41	1.12	1.26	1.49
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.0	0.0	0.0	2473.8	319.8	0.0	1.4	0.0	27.9	1.7
PACIFIC COD	49.4	32.7	90.7	72.3	51.3	90.7	5.9	29.5	0.0	95.9	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	3.2	1.8	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.2	3.5	4.5	0.0	0.3	0.2	0.0	0.0
ARROWTOOTH FL	927.6	826.9	0.0	0.0	159.3	761.8	603.3	257.6	356.3	791.1	14.1
HALIBUT	79.9	150.4	143.5	115.9	57.9	31.2	61.1	0.0	14.3	16.2	55.7
FLATHEAD SOLE	4.1	6.8	0.0	0.0	307.3	440.0	40.1	34.5	19.3	34.9	14.5
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
REX SOLE	6.1	5.0	0.0	0.0	0.0	0.0	0.5	0.9	0.0	58.5	2.5
ROCK SOLE	9.1	24.9	86.6	218.6	0.0	0.5	0.5	0.0	0.0	0.0	61.2
STARRY FLOUNDER	0.0	0.0	0.0	65.3	6.7	1.1	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	250.1	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.1	1.8	0.0	0.0	0.1	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	1.4	0.1	0.9	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1076.2	1046.7	320.8	472.4	3317.3	1656.0	711.5	325.1	393.5	1028.4	150.3

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	7/ 5/93	7/ 5/93	7/ 6/93	7/ 6/93	7/ 6/93	7/ 6/93	7/ 6/93	7/ 7/93	7/ 7/93	7/ 7/93	7/ 7/93
LONGITUDE START	55 16.7	55 11.7	54 56.3	55 2.6	55 12.8	55 21.9	55 24.8	55 43.2	55 39.4	55 37.1	55 36.5
LONGITUDE END	55 17.4	55 12.6	54 56.7	55 1.6	55 11.7	55 20.7	55 25.8	55 43.9	55 38.8	55 37.8	55 37.1
LORAN START	18586.10	18576.60	18534.40	18555.10	18577.40	18591.20	18614.80	18645.60	18639.80	18634.50	18630.40
LORAN END	45123.70	45178.60	45282.70	45084.20	44933.60	44745.30	44594.00	44234.70	44328.20	44438.00	44588.30
GEAR DEPTH	52	52	90	174	89	102	114	169	276	129	108
DURATION IN HOURS	0.25	0.41	0.48	0.46	0.49	0.50	0.42	0.49	0.39	0.49	0.49
DISTANCE FISHED	0.74	1.38	1.33	1.41	1.52	1.41	1.02	1.36	1.29	1.35	1.44
PERFORMANCE / GEAR	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	6 /172	0 /172	0 /172	0 /172	5 /172
POLLOCK	0.1	0.2	0.1	8.6	0.0	0.0	0.0	0.0	0.0	82.6	6.4
PACIFIC COD	0.0	0.0	77.1	0.0	361.7	47.6	5.9	6.1	0.0	30.2	82.6
SABLEFISH	0.0	0.0	34.0	51.7	0.0	0.0	1.1	374.0	533.6	100.9	141.7
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	0.0	0.0	6.9	0.0	0.3	0.0	0.5	0.0	22.7	0.1
ARROWTOOTH FL	0.6	0.4	230.4	71.2	633.4	86.4	2.5	1411.2	7.7	1366.6	513.5
HALIBUT	41.8	27.6	12.4	0.0	14.6	24.0	0.0	16.7	0.0	72.7	29.2
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.2	23.4
DOVER SOLE	0.0	0.0	12.7	57.2	0.0	3.2	0.0	20.4	45.8	20.9	12.0
REX SOLE	0.0	0.0	5.9	34.9	0.7	15.0	0.0	21.1	16.8	59.9	82.8
ROCK SOLE	2.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.1	630.0	6.4	30.4	70.3	581.6	48.5	0.0	8.6	61.7
ROUGHEYE RKFH	0.0	0.0	0.0	29.9	0.0	1.1	0.0	64.4	0.0	0.0	1.6
THORNYHEADS	0.0	0.0	0.0	81.2	0.0	0.0	0.0	109.5	37.2	0.0	0.0
NORTHERN RKFH	0.0	0.9	6.8	0.0	2.9	202.3	3.6	0.0	0.0	4.5	25.4
SHORTRAKER RKFH	0.0	0.0	0.0	39.0	0.0	0.0	0.0	22.7	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	1.4	0.0	3.6	9.5	3.6	0.7	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	1.8	10.4	0.2	0.0	0.1	0.1
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	3.6	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	45.3	36.0	1010.8	387.5	1047.3	462.1	610.1	2096.0	641.1	1773.7	980.6

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	7/ 8/93	7/ 8/93	7/ 8/93	7/ 8/93	7/ 8/93	7/ 8/93	7/ 9/93	7/ 9/93	7/ 9/93	7/ 9/93	7/ 9/93
LATITUDE START	55 35.4	55 23.7	55 23.8	55 35.3	55 39.5	55 44.8	55 45.1	55 57.1	55 56.1	55 59.3	55 56.2
LONGITUDE START	156 13.7	156 28.6	156 40.0	156 48.3	156 30.9	156 39.8	156 43.6	157 7.6	157 0.2	156 34.7	156 16.4
LATITUDE END	55 36.2	55 24.5	55 22.3	55 33.9	55 38.8	55 43.6	55 43.6	55 57.4	55 57.6	55 58.5	55 56.4
LONGITUDE END	156 11.6	156 28.0	156 39.4	156 47.2	156 30.0	156 38.1	156 43.9	157 8.4	156 59.8	156 36.8	156 17.2
LORAN START	18625.90	18606.70	18604.50	18620.80	18624.40	18634.90	18635.20	18648.70	18648.20	18655.50	18653.60
LORAN START	44685.10	44810.40	44877.70	44903.80	44788.60	44832.20	44854.50	44983.30	44938.30	44772.70	44667.00
LORAN END	18627.40	18608.00	18602.50	18618.90	18627.50	18634.50	18633.10	18649.10	18650.30	18653.60	
LORAN END	44680.50	44804.80	44877.30	44900.20	44803.90	44824.30	44859.10	44987.50	44933.40	44787.00	
GEAR DEPTH	138	96	66	57	133	129	115	48	63	107	116
DURATION IN HOURS	0.49	0.31	0.52	0.52	0.49	0.48	0.50	0.20	0.50	0.50	0.18
DISTANCE FISHED	1.44	0.83	1.47	1.51	0.84	1.46	1.53	0.55	1.52	1.37	0.50
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172
POLLOCK	9.1	0.0	0.0	0.2	19.1	15.9	4.5	4.5	0.9	90.3	34.5
PACIFIC COD	32.2	92.1	3.2	0.3	13.4	8.2	56.7	0.0	264.9	110.4	17.2
SABLEFISH	56.7	1.4	0.0	0.0	211.4	11.8	19.5	0.0	0.0	1.4	27.2
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.2	0.0	1.9	5.1	0.0	0.5	0.0
ARROWTOOTH FL	149.2	82.6	0.0	1.6	54.9	89.8	115.7	8.6	390.1	93.2	57.2
HALIBUT	34.7	44.0	31.6	54.5	8.9	0.0	13.3	44.2	30.9	32.9	15.7
FLATHEAD SOLE	37.6	0.0	0.0	0.0	1.8	6.6	8.2	0.5	26.8	5.9	8.2
DOVER SOLE	13.6	8.6	0.0	0.0	23.1	5.0	38.1	0.0	37.6	5.9	14.1
REX SOLE	68.5	34.9	0.0	0.0	47.2	26.8	59.9	0.0	114.3	18.6	25.9
ROCK SOLE	0.0	0.0	0.0	5.9	0.0	0.0	0.0	11.8	2.7	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	9.1	3692.7	6.6	0.0	0.0	35.8	32.7	0.0	1.8	0.0
ROUGHEYE RKFH	234.5	0.0	0.0	0.0	3.6	3.2	1.8	0.0	0.0	3.2	1.6
THORNYHEADS	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	1.8	2129.4	364.6	0.0	0.0	0.5	1.4	0.5	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	13.7	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	1.1	0.0	1.4	0.0	3.2	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.5	0.0
SIDE STRIPE SHRIMP	0.1	0.0	0.0	0.0	1.8	1.6	1.1	0.0	0.0	0.1	0.9
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	676.1	2415.8	4093.2	69.1	386.8	169.4	363.8	108.1	868.2	364.7	202.5

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	7/ 9/93	7/ 9/93	7/10/93	7/10/93	7/10/93	7/10/93	7/10/93	7/11/93	7/11/93	7/11/93	7/11/93
LATITUDE START	55 52.2	55 49.6	56 1.4	56 1.8	56 6.8	56 15.5	56 12.8	56 12.1	56 19.9	56 24.7	56 34.1
LONGITUDE START	155 57.5	155 55.7	155 57.9	156 14.3	156 35.0	156 18.0	156 35.6	157 4.3	157 5.2	156 54.7	156 46.8
LATITUDE END	55 53.2	55 51.0	56 1.6	56 0.4	56 5.6	56 14.0	56 14.3	56 10.6	56 20.1	56 23.6	56 34.2
LONGITUDE END	155 59.4	155 55.3	155 55.1	156 15.0	156 34.6	156 17.9	156 35.7	157 5.6	157 2.4	156 54.7	156 49.4
LORAN START	18650.40	18647.60	18662.40	18661.20	18665.50	18676.90	18673.60	18669.20	18679.00	18684.20	18695.80
LORAN START	44558.20	44553.50	44540.30	44640.60	44760.80	44637.70	44754.20	44939.60	44933.50	44859.10	44796.30
LORAN END	18651.10	18649.50	18663.20	18659.40	18664.10	18675.20	18675.20	18667.90	18678.30	18683.50	18694.90
LORAN END	44567.50	44547.80	44523.00	44648.20	44760.60	44639.90	44753.10	44950.20	44915.70	44861.20	44813.30
GEAR DEPTH	47	46	41	115	107	149	95	52	96	66	62
DURATION IN HOURS	0.50	0.52	0.50	0.50	0.39	0.50	0.50	0.51	0.53	0.42	0.52
DISTANCE FISHED	1.46	1.44	1.58	1.40	1.16	1.44	1.53	1.63	1.58	1.19	1.45
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172
POLLOCK	0.4	1.1	0.1	39.2	6.4	24.9	25.9	0.0	357.4	0.9	0.0
PACIFIC COD	0.1	51.7	42.6	62.1	0.0	17.7	9.1	0.0	0.0	119.7	102.5
SABLEFISH	0.0	0.0	0.0	69.4	0.0	84.8	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	0.1	0.0	0.0	0.0	0.1	1.0	0.2	0.1	11.3	0.0
ARROWTOOTH FL	4.5	0.5	6.8	163.3	68.9	131.5	176.4	89.4	88.5	1350.3	549.1
HALIBUT	277.6	115.5	68.0	28.1	0.0	18.7	30.2	166.4	25.4	58.2	62.6
FLATHEAD SOLE	0.0	0.0	10.0	1.1	9.1	5.0	5.0	24.0	100.7	6.4	7.3
DOVER SOLE	0.0	0.0	0.0	17.7	13.2	6.5	31.3	0.0	0.0	2.7	35.4
REX SOLE	0.0	0.0	0.0	46.3	16.8	6.4	46.7	0.0	0.1	0.0	24.9
ROCK SOLE	41.7	12.7	203.4	0.0	0.0	0.0	0.0	28.6	0.2	1.4	0.7
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	13.2	0.0	0.0	7.3	4.1	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	5.0	0.0	0.0	5.9	0.0	15.9	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.4	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.1	1.4	1.1	4.1	0.0	9.1	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.1	0.1	2.0	0.1	0.0	0.1	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	324.4	181.6	359.0	446.8	115.9	299.2	343.5	314.9	597.6	1550.9	782.5

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	155	156	157	158	159	160	161	162	163	164	165
MONTH/DAY/YEAR	7/11/93	7/12/93	7/12/93	7/12/93	7/12/93	7/12/93	7/13/93	7/13/93	7/13/93	7/13/93	7/13/93
LATITUDE START	56 35.8	57 3.0	56 55.6	56 41.0	56 46.6	56 57.5	57 4.7	57 13.3	57 22.8	57 23.5	57 30.6
LONGITUDE START	156 35.6	156 8.4	156 4.9	156 16.2	155 57.4	155 47.6	155 12.6	155 23.1	155 24.3	156 8.2	155 47.6
LATITUDE END	56 34.8	57 1.5	56 54.4	56 40.9	56 47.7	56 55.9	57 6.3	57 14.9	57 24.2	57 23.6	57 30.8
LONGITUDE END	156 37.5	156 8.1	156 6.9	156 13.8	155 55.4	155 49.0	155 12.1	155 23.6	155 24.3	156 6.3	155 45.5
LORAN START			18776.10	18764.80	18770.30	18779.20	18785.10	18791.30	18796.80	18797.60	18801.90
LORAN START			44498.20	44587.40	44457.20	44382.40	44143.60	44209.90	44216.30	44509.00	44374.00
LORAN END			18776.20	18764.70	18771.20	18777.90		18792.50	18798.20	18797.80	18802.20
LORAN END			44511.40	44571.80	44443.20	44392.00		44212.30	44216.50	44497.00	44359.20
GEAR DEPTH	85	51	115	106	166	164	132	140	146	17	19
DURATION IN HOURS	0.51	0.52	0.55	0.43	0.50	0.56	0.53	0.51	0.48	0.33	0.39
DISTANCE FISHED	1.47	1.56	1.64	1.30	1.52	1.71	1.69	1.62	1.45	1.02	1.16
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172
POLLOCK	0.0	0.0	14.5	6.8	7.7	30.8	45.4	62.1	17.7	0.0	0.0
PACIFIC COD	72.6	0.0	19.5	33.6	31.8	31.8	19.1	51.3	10.4	0.0	0.0
SABLEFISH	0.0	0.0	0.0	1.7	58.1	391.0	32.2	49.0	109.8	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	6.4	13.8	0.6	1.0	9.1	16.4	0.0	9.3	8.1	0.7	0.7
ARROWTOOTH FL	572.9	48.5	283.5	248.8	149.7	112.9	191.2	288.5	200.0	0.0	0.0
HALIBUT	14.8	131.0	9.6	66.0	17.8	8.4	33.1	30.0	0.0	115.5	4.0
FLATHEAD SOLE	22.2	0.0	47.6	18.1	27.2	47.6	58.1	72.1	15.9	0.0	0.0
DOVER SOLE	19.5	0.0	11.3	8.6	8.6	0.0	3.9	0.9	0.0	0.0	0.0
REX SOLE	24.0	0.0	15.0	7.7	4.5	24.5	4.1	21.3	5.0	0.0	0.0
ROCK SOLE	0.0	68.0	1.4	0.0	0.0	0.0	0.0	0.0	0.5	14.5	19.1
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	2.9	0.0	0.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	13.2	134.0	2.9	19.5	26.3	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	7.7	0.0	1.1	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0
TANNER CRAB	0.0	0.0	0.1	0.0	0.1	3.4	0.5	4.5	0.7	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	4.5	0.0	2.8	1.8	0.0	0.2	0.1	0.5	0.7	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.7	0.2	1.4	1.0	0.9	3.4	1.3	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	739.8	261.8	406.8	397.9	329.2	809.7	391.5	613.5	396.4	138.4	23.8

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	166	167	168	169	170	171	172	173	174	175	176
MONTH/DAY/YEAR	7/14/93	7/14/93	7/14/93	7/14/93	7/14/93	7/15/93	7/15/93	7/15/93	7/18/93	7/18/93	7/18/93
LATITUDE START	57 41.9	57 38.8	57 23.5	57 35.7	57 44.8	57 57.4	58 1.1	58 2.1	57 20.4	57 19.5	57 28.2
LONGITUDE START	155 34.1	154 59.1	154 44.4	154 30.8	154 22.4	154 14.6	153 48.8	153 44.9	152 26.3	152 30.0	152 45.0
LATITUDE END	57 41.4	57 40.1	57 24.9	57 35.3	57 46.2	57 56.0	58 1.1	58 1.4	57 19.0	57 18.8	57 27.3
LONGITUDE END	155 33.5	154 57.5	154 44.2	154 33.1	154 21.4	154 15.4	153 48.7	153 47.3	152 25.2	152 27.5	152 42.4
LORAN START	18817.60	18815.40		18775.30	18779.10	18801.10	18802.60	18803.30	18838.80	18838.30	18842.20
LORAN START	44290.70	44057.60		43828.00	43785.90	43766.80	43621.80	43602.00	43008.00	43030.70	43113.70
LORAN END	18817.00	18816.00		18775.40	18779.80	18801.50	18802.50	18803.30	18838.50	18838.30	18842.00
LORAN END	44287.00	44049.10		43842.50	43782.30	43767.70	43620.70	43614.20	43011.20	43022.10	43094.80
GEAR DEPTH	12	131	15	39	112	115	106	107	39	52	50
DURATION IN HOURS	0.21	0.51	0.48	0.45	0.50	0.54	0.03	0.53	0.54	0.52	0.52
DISTANCE FISHED	0.57	1.58	1.33	1.29	1.52	1.54	0.11	1.48	1.53	1.51	1.65
PERFORMANCE / GEAR	1 /172	0 /172	1 /172	0 /172	0 /172	0 /172	5 /172	0 /172	0 /172	1 /172	0 /172
POLLOCK	0.1	115.7	0.0	0.9	118.8	96.6	19.5	68.9	0.0	477.0	557.2
PACIFIC COD	1.4	60.6	0.9	567.9	7.7	11.3	0.0	0.0	18.1	72.1	213.4
SABLEFISH	0.5	103.6	0.0	0.0	9.1	20.4	0.0	8.2	0.0	51.7	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	6.5	0.4	0.7	10.6	9.3	8.7	1.1	1.1	1.4	8.1	26.0
ARROWTOOTH FL	0.0	255.8	0.0	0.0	435.4	342.0	11.3	309.3	63.7	239.5	158.7
HALIBUT	10.6	92.0	156.6	1152.8	0.0	76.1	0.0	29.8	67.9	239.8	134.6
FLATHEAD SOLE	0.0	38.1	1.8	0.0	108.9	38.6	11.8	113.9	0.2	55.3	1519.9
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	2.3	0.0	0.0	1.4	1.4	0.9	3.2	0.0	1.4	0.0
ROCK SOLE	115.7	0.0	381.9	169.6	0.0	0.0	0.0	0.0	34.9	83.5	0.0
STARRY FLOUNDER	53.5	1.8	546.8	0.0	0.0	0.0	0.0	0.0	151.5	0.0	0.0
YELLOWFIN SOLE	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6
BUTTER SOLE	27.2	0.0	78.0	0.0	0.0	0.0	0.0	0.0	121.1	4.5	243.7
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	55.6	0.0	0.0	80.3	11.3	1.0	1.4	0.0	0.0	0.0
THORNYHEADS	0.0	0.9	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	7.3	0.0	0.0	2.6	4.5	0.2	3.2	0.0	0.9	1.7
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	1.0	0.0	0.0	1.6	3.3	0.6	4.4	0.0	0.1	2.6
SIDE STRIPE SHRIMP	0.0	3.2	0.0	0.0	9.6	3.8	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	218.8	738.3	1166.7	1901.9	786.5	618.0	46.4	543.4	458.8	1234.8	2884.7

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	177	178	179	180	181	182	183	184	185	186	187
MONTH/DAY/YEAR	7/19/93	7/19/93	7/19/93	7/19/93	7/19/93	7/20/93	7/20/93	7/20/93	7/20/93	7/21/93	7/21/93
LATITUDE START	57 24.1	57 4.0	57 4.8	57 9.2	57 14.4	57 3.6	57 7.7	56 47.8	56 52.2	57 8.0	56 55.7
LONGITUDE START	152 35.2	152 28.1	152 18.4	151 59.6	152 9.7	152 37.5	152 44.9	153 29.5	153 26.5	153 22.4	153 29.5
LATITUDE END	57 25.2	57 3.5	57 3.5	57 10.3	57 13.2	57 3.0	57 8.9	56 46.4	56 53.3	57 8.1	56 57.0
LONGITUDE END	152 37.4	152 25.9	152 17.6	151 57.6	152 8.2	152 35.0	152 46.8	153 30.9	153 28.1	153 22.2	153 31.2
LORAN START	18861.20	18719.30	18720.10	18723.40	18725.20	18718.70	18721.20	18705.60	18709.10		18770.70
LORAN START	43047.50	43142.70	43105.10	43042.10	43034.80	43182.60	43200.60	43525.10	43490.60		43496.60
LORAN END	18860.90	18718.90	18719.70	18723.90	18724.80	18718.40	18721.90	18704.70	18709.80		18771.90
LORAN END	43060.80	43137.00	43109.40	43035.70	43037.80	43175.80	43204.80	43537.00	43495.60		43502.40
GEAR DEPTH	49	81	43	39	46	78	79	43	68	65	74
DURATION IN HOURS	0.53	0.53	0.52	0.53	0.51	0.56	0.55	0.53	0.52	0.32	0.50
DISTANCE FISHED	1.62	1.32	1.39	1.56	1.45	1.51	1.60	1.66	1.43	0.17	1.55
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	7 /172	0 /172	6 /172	1 /172
POLLOCK	454.3	177.1	8.4	0.0	0.0	4.5	507.1	0.1	231.3	0.0	542.5
PACIFIC COD	45.1	8.6	0.0	0.0	31.8	144.8	10.4	0.1	35.8	0.0	51.5
SABLEFISH	0.0	61.0	0.0	0.0	0.0	108.4	73.7	0.0	0.0	0.0	1.4
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	13.5	2.9	0.0	0.2	0.0	0.1	0.6	0.3	3.2	0.0	13.2
ARROWTOOTH FL	385.8	1601.7	0.0	0.0	129.0	560.2	1302.8	0.0	314.8	2.3	472.6
HALIBUT	53.4	15.7	58.6	142.7	92.1	52.7	46.7	147.6	187.9	0.0	38.1
FLATHEAD SOLE	878.0	112.6	0.0	0.0	2.0	24.0	268.7	0.0	67.4	0.2	188.5
DOVER SOLE	0.0	47.0	0.0	0.0	0.0	14.5	160.6	0.0	8.8	0.0	2.7
REX SOLE	0.0	13.7	0.0	0.0	0.0	1.6	28.1	0.0	29.9	0.0	1.4
ROCK SOLE	5.4	0.0	36.3	61.7	174.4	1.0	4.6	24.3	0.2	0.0	2.0
STARRY FLOUNDER	8.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	68.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	111.1	0.5	0.0	0.1	61.5	0.7	0.0	0.0	3.2	0.0	2.7
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	17.2	0.7	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	1.7	2.3	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	6.8
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	3.2	0.0	94.3	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	1.4	0.0	0.0	0.0	10.2	0.0	393.7	2.7	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	4.2	270.8	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	1.4
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	10.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.6
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	2.5	3.2	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
TOTAL CATCH	2042.7	2319.4	103.3	204.7	517.1	926.9	2409.3	660.4	885.2	2.5	1326.4

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	188	189	190	191	192	193	194	195	196	197	198
MONTH/DAY/YEAR	7/21/93	7/21/93	7/21/93	7/22/93	7/22/93	7/22/93	7/22/93	7/23/93	7/23/93	7/23/93	7/23/93
LATITUDE START	56 46.4	56 55.6	57 0.5	56 58.8	56 53.7	56 44.2	56 38.1	56 33.4	56 26.7	56 21.5	56 11.3
LONGITUDE START	154 14.0	154 35.3	154 43.6	154 54.4	155 2.7	155 0.9	155 26.7	155 27.1	155 26.3	155 52.3	155 49.8
LATITUDE END	56 45.4	56 54.5	56 59.4	56 59.8	56 55.0	56 45.3	56 36.8	56 32.7	56 28.2	56 23.1	56 12.5
LONGITUDE END	154 16.3	154 33.4	154 45.4	154 53.1	155 1.7	154 59.0	155 28.6	155 28.0	155 25.8	155 50.7	155 49.9
LORAN START	18762.80	18768.40	18771.80	18781.10	18776.20	18769.60	18762.40	18788.60	18783.80	18776.20	18765.30
LORAN START	43795.50	43910.60	43957.70	44029.70	44090.50	44094.10	44271.30	44280.80	44290.00	44463.40	44468.00
LORAN END	18761.90	18767.50	18771.00	18781.30	18777.60	18770.70	18761.20	18787.90	18785.40	18778.30	18766.90
LORAN END	43811.10	43900.70	43970.60	44020.20	44082.00	44080.00	44285.70	44289.60	44283.80	44451.10	44467.20
GEAR DEPTH	29	18	28	44	47	31	75	42	28	90	37
DURATION IN HOURS	0.55	0.51	0.50	0.42	0.51	0.49	0.51	0.28	0.50	0.50	0.38
DISTANCE FISHED	1.68	1.55	1.52	1.16	1.43	1.55	1.72	0.83	1.55	1.84	1.27
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	5 /172
POLLOCK	1494.4	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.9	0.0
PACIFIC COD	14.1	0.0	2.3	58.5	424.6	19.5	0.0	239.9	18.4	161.4	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	2.2	0.0	0.1	0.1	14.0	0.0	0.0	1.3	0.0	8.2	0.0
ARROWTOOTH FL	83.1	0.0	0.0	215.6	4023.2	22.2	7014.9	168.7	2.0	3106.1	0.0
HALIBUT	61.2	237.8	90.3	116.6	103.5	62.0	0.0	95.7	56.6	31.6	0.0
FLATHEAD SOLE	362.5	0.0	0.0	7.0	35.2	0.2	82.5	212.7	0.0	75.3	0.0
DOVER SOLE	0.0	0.0	0.0	1.8	50.8	0.1	80.8	21.0	0.0	71.4	0.0
REX SOLE	0.2	0.0	0.0	0.2	44.3	0.2	35.5	88.7	0.0	84.0	0.0
ROCK SOLE	9.0	8.8	55.6	7.7	0.0	149.7	0.0	2.7	146.1	0.0	0.0
STARRY FLOUNDER	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0
YELLOWFIN SOLE	106.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	11.3	0.0	0.0	0.0	0.0	0.8	0.0	1.4	16.6	0.0	0.0
ALASKA PLAICE	26.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	646.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.1	156.9	0.0	0.0	0.0	0.0	0.0	1.0	0.0
SHORTTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.5	840.1	0.0	0.0	0.0	4.8	0.0	78.8	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	1.7	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	2.7	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2171.4	246.6	148.9	1422.3	4695.9	254.8	7213.7	856.0	248.0	4289.0	0.0

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	199	200	201	202	203	204	205	206	207	208	209
MONTH/DAY/YEAR	7/24/93	7/24/93	7/24/93	7/24/93	7/24/93	7/25/93	7/25/93	7/25/93	7/25/93	7/25/93	7/26/93
LATITUDE START	56 12.2	56 16.5	56 8.2	56 9.4	56 5.0	56 10.2	56 5.6	56 2.7	56 8.5	56 11.2	56 28.9
LONGITUDE START	155 50.1	155 18.7	155 31.2	155 23.2	154 55.0	154 15.6	154 2.4	153 31.8	153 33.5	153 33.5	153 1.7
LATITUDE END	56 11.1	56 15.2	56 7.1	56 8.6	56 3.8	56 9.9	56 6.8	56 1.2	56 9.1	56 11.4	56 27.6
LONGITUDE END	155 50.0	155 20.6	155 33.5	155 23.6	154 57.1	154 17.7	154 0.9	153 31.2	153 35.9	153 36.1	153 0.3
LORAN START	18766.00	18771.80	18763.10	32976.30	18672.60	18681.30	18678.00	18677.80	18683.00	18685.20	18702.80
LORAN START	44469.00	44265.70	44361.80	44309.50	44154.40	43913.10	43858.20	43715.60	43700.50	43689.10	43460.10
LORAN END	18764.10	18770.50	33005.00	18673.90	18671.20	18680.70	18679.10	18676.50	18683.40	18685.30	18701.60
LORAN END	44470.70	44280.70	44378.80	44314.10	44169.80	43926.20	43846.10	43719.20	43709.20	43701.10	43459.60
GEAR DEPTH	40	22	27	20	51	58	76	124	124	66	35
DURATION IN HOURS	0.33	0.51	0.50	0.50	0.51	0.49	0.51	0.54	0.52	0.51	0.50
DISTANCE FISHED	1.06	1.65	1.67	0.82	1.71	1.21	1.47	1.52	1.45	1.45	1.50
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	921.5	0.0	0.0	0.0	0.0	0.9	0.0	2.0	2.9	0.1	0.0
PACIFIC COD	619.6	0.0	4.5	0.0	223.4	0.1	15.0	6.4	62.6	29.7	0.1
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	4.5	131.3	207.3	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	0.1	0.0
ARROWTOOTH FL	9.3	0.0	1.4	0.0	85.3	31.8	131.1	41.5	365.1	168.7	3.4
HALIBUT	105.0	157.8	131.1	16.7	47.8	178.9	66.2	31.7	18.3	41.4	176.3
FLATHEAD SOLE	3.9	0.0	0.0	0.0	0.1	0.0	0.9	1.1	0.1	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	9.5	2.5	6.8	2.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	104.3	0.7	5.9	3.2	0.0
ROCK SOLE	92.3	0.9	27.4	0.1	76.0	9.3	0.0	0.0	0.0	3.9	36.7
STARRY FLOUNDER	0.0	0.0	20.9	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	84.1	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	2.9	0.0	4242.8	107.3	6.6	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.5	70.3	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	51.7	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	68.3	25.2	6.8	5.2	65.5	0.3
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	7.5	5.7	0.0	3.6	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.5	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	4.1	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
SCALLOP	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1835.9	159.0	185.3	16.8	433.3	292.2	370.1	4519.6	912.7	325.3	216.8

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	210	211	212	213	214	215	216	217	218	219	220
MONTH/DAY/YEAR	7/26/93	7/26/93	7/26/93	7/26/93	7/26/93	7/27/93	7/27/93	7/27/93	7/27/93	7/27/93	7/28/93
LATITUDE START	56 32.7	56 39.1	56 42.6	56 43.0	56 43.8	56 43.7	57 10.3	57 14.6	57 20.8	57 18.1	57 24.8
LONGITUDE START	152 40.6	152 37.7	152 53.7	152 44.1	152 37.4	151 49.0	151 13.2	150 52.6	150 52.2	151 22.6	151 32.6
LATITUDE END	56 33.3	56 37.7	56 43.8	56 44.4	56 44.9	56 42.1	57 8.9	57 14.5	57 19.6	57 19.9	57 23.6
LONGITUDE END	152 42.7	152 37.6	152 52.7	152 43.1	152 35.3	151 49.9	151 14.7	150 55.2	150 53.0	151 22.5	151 31.0
LORAN START	18706.80	18711.90	18713.60	18714.20	18715.00	18716.80	18734.60		32260.00	32311.70	32296.60
LORAN START	43351.70	43307.70	43359.60	43314.70	43263.10	43139.30	43009.70		42999.10	43001.00	42999.90
LORAN END	18707.30	18710.50	18714.40	18715.20	18715.70	18715.70	18734.10		32266.40	32304.20	32299.40
LORAN END	43356.90	43314.90	43349.00	43303.40	43268.20	43148.70	43012.40		42999.30	42999.90	42999.30
GEAR DEPTH	47	62	38	44	59	69	62	79	62	77	49
DURATION IN HOURS	0.52	0.49	0.49	0.51	0.51	0.51	0.51	0.50	0.48	0.50	0.50
DISTANCE FISHED	1.34	1.47	1.40	1.51	1.61	1.64	1.55	1.41	1.29	1.81	1.47
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	2.7	0.0	0.0	0.0	1.6	0.0	0.1	2.3	558.4	0.1
PACIFIC COD	1.6	8.2	0.0	0.1	62.1	68.3	0.7	0.0	129.0	137.0	232.5
SABLEFISH	0.0	26.3	0.0	0.0	25.4	0.0	0.0	0.0	1.4	54.9	130.0
ATKA MACKEREL	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.9	1.0	0.0
ARROWTOOTH FL	0.2	909.7	5.2	0.7	1459.7	56.2	108.9	75.3	817.4	272.2	2990.3
HALIBUT	13.4	14.0	192.4	134.8	238.6	242.1	40.4	75.0	13.9	89.7	71.3
FLATHEAD SOLE	0.0	28.3	0.7	0.0	2.7	0.0	0.0	0.0	4.8	20.4	0.5
DOVER SOLE	0.0	55.1	0.0	0.0	0.8	0.0	0.0	0.0	2.3	16.8	0.0
REX SOLE	0.0	428.2	0.0	0.0	26.8	0.0	0.0	0.0	0.7	79.2	1.5
ROCK SOLE	22.9	0.2	14.1	57.2	2.5	60.1	64.4	4.8	93.2	3.4	63.8
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
PAC OC PERCH	113.4	29.5	0.0	0.0	0.0	1.1	0.0	0.0	2.5	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	1456.5	12.7	0.0	0.9	0.0	0.3	0.0	0.0	1.8	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	290.2	17.9	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0
HARLEQUIN RKFH	86.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFISH	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2000.1	1532.8	212.4	194.4	1818.6	429.9	214.5	155.2	1074.1	1233.1	3490.0

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	221	222	223	224	225	226	227	228	229	230	231
MONTH/DAY/YEAR	7/28/93	7/28/93	7/28/93	7/29/93	7/29/93	7/29/93	7/29/93	7/30/93	7/30/93	7/30/93	7/30/93
LATITUDE START	57 30.4	57 23.9	57 31.4	58 8.0	58 18.6	58 27.6	58 32.5	58 57.5	58 57.5	59 9.3	59 12.9
LONGITUDE START	151 13.6	151 23.9	151 44.0	153 21.0	153 8.2	153 30.6	153 20.5	153 13.4	152 45.0	152 46.8	153 14.8
LATITUDE END	57 29.6	57 25.2	57 30.9	58 6.7	58 17.4	58 26.3	58 31.3	58 58.6	58 59.0	59 8.2	59 11.6
LONGITUDE END	151 15.4	151 22.5	151 41.5	153 22.1	153 9.9	153 31.3	153 22.5	153 14.0	152 45.0	152 46.2	153 16.2
LORAN START	32247.80	32288.60	32282.90	32243.60	32175.30	32158.50	32121.70	31983.30	31951.10	31893.50	31904.80
LORAN START	43004.40	42999.40	43006.60	43535.70	43528.30	43684.30	43661.70	43765.80	43658.10	43731.30	43857.40
LORAN END	32253.50	32281.00	32281.90	32251.40	32183.10	32166.40	32130.50	31971.20	31943.70	31898.40	31913.60
LORAN END	43003.40	42999.40	43005.50	43534.50	43529.70	43680.60	43664.60	43770.20	43666.40	43722.70	43855.60
GEAR DEPTH	43	94	79	32	85	80	89	71	94	79	28
DURATION IN HOURS	0.51	0.51	0.52	0.50	0.51	0.51	0.49	0.45	0.50	0.52	0.51
DISTANCE FISHED	1.27	1.55	1.45	1.43	1.48	1.43	1.63	1.15	1.49	1.20	1.52
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.1	353.6	1855.0	0.0	2206.7	70.8	92.1	307.3	44.5	19.1	12.5
PACIFIC COD	4.5	122.7	105.7	0.0	178.3	49.9	40.6	323.6	62.4	62.1	21.8
SABLEFISH	0.0	147.0	24.5	0.0	9.1	2.7	0.5	2.0	15.9	45.8	1.4
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.8	0.2	2.5	9.1	22.8	0.4	0.2	2.3	0.5	0.4	0.7
ARROWTOOTH FL	0.0	1363.6	430.7	0.9	436.1	308.0	193.9	202.5	402.6	370.6	101.2
HALIBUT	197.5	470.1	72.2	146.9	174.9	5.4	48.6	32.8	9.1	129.8	214.2
FLATHEAD SOLE	0.0	109.3	238.8	12.9	52.8	7.3	3.9	42.4	30.6	12.2	2.7
DOVER SOLE	0.0	36.9	2.1	0.0	24.0	3.2	3.6	14.7	46.7	6.1	0.1
REX SOLE	0.0	37.8	31.5	0.0	17.2	1.8	2.7	0.1	29.0	0.5	0.4
ROCK SOLE	76.2	1.0	2.5	262.2	0.0	0.0	0.0	0.1	0.0	0.0	54.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	18.1
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
ALASKA PLAICE	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.8	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	1.1	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.5	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.1	0.1	0.0	1.2	4.7	13.1	1.4	8.6	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	279.1	2642.3	2766.8	432.0	3130.5	458.3	400.5	929.2	652.2	646.6	433.6

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	232	233	234	235	236	237	238	239	240	241	242
MONTH/DAY/YEAR	7/30/93	7/30/93	7/31/93	7/31/93	7/31/93	7/31/93	8/ 1/93	8/ 1/93	8/ 1/93	8/ 1/93	8/ 2/93
LATITUDE START	59 18.6	59 32.4	59 47.5	59 54.6	59 56.0	59 34.1	59 27.3	59 3.1	59 0.6	58 50.5	58 35.2
LONGITUDE START	152 55.7	152 56.8	152 41.6	152 18.6	152 9.2	151 49.8	152 21.4	152 35.6	152 19.8	152 8.4	152 43.1
LATITUDE END	59 17.3	59 33.9	59 48.3	59 54.3	59 55.0	59 34.6	59 28.2	59 4.8	59 0.9	58 50.7	58 36.4
LONGITUDE END	152 56.7	152 57.2	152 39.4	152 18.9	152 8.8	151 47.5	152 19.1	152 35.9	152 20.9	152 5.1	152 41.4
LORAN START	31854.20	31781.40	31685.80	31626.90	31612.50	31708.40	31773.10	31912.50	31907.90	31945.30	32061.40
LORAN START	43815.20	43894.40	43920.60	43885.30	43864.50	43692.70	43747.00	43657.40	43590.50	43495.40	43528.20
LORAN END	31862.30	31774.00	31679.50	31627.10	31617.00	31703.80	31766.40	31904.20	31908.00	31940.80	32053.70
LORAN END	43812.20	43903.50	43917.70	43888.50	43857.10	43689.00	43744.80	43667.80	43595.20	43487.00	43521.10
GEAR DEPTH	41	23	12	56	38	23	37	78	67	63	33
DURATION IN HOURS	0.51	0.50	0.56	0.16	0.53	0.51	0.53	0.51	0.21	0.51	0.52
DISTANCE FISHED	1.44	1.45	1.41	0.36	1.06	1.30	1.44	1.67	0.62	1.73	1.50
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172
POLLOCK	0.0	57.8	74.6	9.8	0.5	0.2	0.1	16.4	0.0	0.1	0.0
PACIFIC COD	68.5	2.0	0.1	51.0	8.6	0.0	7.5	39.7	1.1	9.8	5191.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	5.9	0.2	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.3	2.1	0.6	5.7	44.5	4.5	1.8	0.1	2.1	48.7
ARROWTOOTH FL	73.5	7.0	0.0	0.0	2.5	69.6	0.0	110.7	209.3	272.2	12.7
HALIBUT	131.2	27.4	13.0	0.0	5.0	17.8	573.0	38.6	17.0	204.3	4035.6
FLATHEAD SOLE	0.0	1.8	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	0.0	0.0	0.0
ROCK SOLE	24.0	10.9	0.1	0.1	5.7	1.4	117.0	0.1	9.3	18.4	36.1
STARRY FLOUNDER	0.0	2.5	1.6	0.0	0.0	20.0	67.6	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	10.0	0.0	0.0	0.0	32.4	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	38.6	0.5	0.0	0.0	0.0	369.2	1.1	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	4.3	0.0	0.0	0.0	0.0	39.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	1.6	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.1	0.0	0.0	0.0	12.6	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	341.7	120.2	91.6	61.6	28.0	596.0	770.8	270.8	242.7	507.1	9324.1

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	243	244	245	246	247	248	249	250	251	252	253
MONTH/DAY/YEAR	8/ 2/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 4/93	8/ 4/93	8/ 4/93	8/ 4/93
LATITUDE START	58 13.3	58 18.5	58 30.2	58 35.2	58 39.6	58 53.3	59 0.7	58 44.5	58 43.4	58 33.9	58 25.1
LONGITUDE START	151 34.8	151 14.1	151 12.2	151 8.8	151 29.1	151 25.6	151 6.2	150 58.9	150 49.7	150 58.4	151 4.3
LATITUDE END	58 14.4	58 18.6	58 29.8	58 35.0	58 39.7	58 54.1	58 59.9	58 45.7	58 44.5	58 35.6	58 26.3
LONGITUDE END	151 35.2	151 10.9	151 15.0	151 7.7	151 26.0	151 27.8	151 7.2	150 56.7	150 46.6	150 57.0	151 6.7
LORAN START	32083.00	32034.70	31980.10	31953.30	31954.70	31885.50	31830.80	31899.30	31895.10	12000.60	11888.80
LORAN START	43192.80	43189.50	43249.70	43271.20	43333.30	43403.60	43405.60	43305.40	43285.30	31494.20	31450.40
LORAN END	32078.50	32030.80	31985.00	31952.80	31951.20	31883.70	31836.30	31891.60	31886.80	12022.10	11892.00
LORAN END	43199.60	43185.80	43251.90	43268.70	43327.80	43412.70	43402.70	43307.70	43286.10	31501.80	31460.70
GEAR DEPTH	38	47	70	99	103	86	80	91	97	99	44
DURATION IN HOURS	0.49	0.52	0.50	0.23	0.52	0.52	0.39	0.50	0.54	0.49	0.50
DISTANCE FISHED	1.12	1.69	1.50	0.63	1.62	1.37	1.00	1.61	1.91	1.79	1.76
PERFORMANCE / GEAR	7 /172	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.1	0.7	14.5	18.8	0.2	0.1	0.9	39.9	9.6	0.0
PACIFIC COD	0.0	0.0	63.5	10.0	22.9	16.1	17.2	24.3	79.6	0.0	10.0
SABLEFISH	0.0	0.0	75.7	45.1	64.0	120.9	8.6	823.3	664.5	22.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.5	0.0	21.3	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
ARROWTOOTH FL	0.0	9.1	733.2	178.0	160.1	314.6	163.5	339.3	534.6	570.6	5.0
HALIBUT	13.0	55.4	292.7	0.0	0.0	56.7	0.0	43.7	22.8	10.2	2677.3
FLATHEAD SOLE	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	56.5	0.0
DOVER SOLE	0.0	0.0	5.0	15.2	30.4	0.5	10.4	0.7	17.5	42.0	0.0
REX SOLE	0.0	0.0	12.7	15.2	12.0	2.7	12.2	3.6	15.6	20.2	0.0
ROCK SOLE	0.0	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.2	0.5	0.5	0.0	2.3	15.9	13.6	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	2.7	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.9	0.0	0.0	0.0	0.5	0.5	0.0	0.1	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.2	0.2	15.2	1.1	0.0	0.0	66.5	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.5	1.3	1.4	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.2	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	13.7	94.5	1221.8	285.3	308.9	511.8	292.0	1253.2	1389.5	735.6	2910.3

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	254	255	256	257	258	259	260	261	262	263	264
MONTH/DAY/YEAR	8/ 4/93	8/ 4/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 6/93	8/ 9/93	8/ 9/93
LATITUDE START	58 20.0	58 5.1	57 29.9	57 34.1	57 35.1	57 40.5	57 39.8	57 44.3	57 45.2	59 48.0	59 55.0
LONGITUDE START	150 56.5	150 57.4	150 9.4	150 10.7	150 19.1	150 9.0	150 18.9	150 10.2	150 4.7	149 13.3	149 0.8
LATITUDE END	58 21.2	58 4.0	57 30.9	57 35.0	57 36.3	57 41.1	57 40.4	57 45.7	57 46.6	59 47.4	59 53.9
LONGITUDE END	150 57.7	150 55.2	150 7.6	150 9.1	150 17.5	150 11.7	150 16.2	150 10.5	150 4.5	149 13.1	149 2.8
LORAN START	11869.50	11724.10	11705.30	11721.50	11676.40	11760.10	11707.60	11780.50	11813.20	13154.30	13250.20
LORAN START	31411.10	31326.00	31048.30	31073.90	31093.80	31108.50	31120.70	31132.90	31128.70	31837.10	31864.00
LORAN END	11876.10	11723.70	11709.20	11725.60	11692.50	11750.80	11724.70	11788.70	11824.30	13140.50	13232.40
LORAN END	31419.60	31316.30	31050.60	31076.60	31098.40	31115.80	31119.50	31141.00	31136.80	31827.20	31858.80
GEAR DEPTH	30	76	241	164	93	105	74	90	112	63	48
DURATION IN HOURS	0.50	0.49	0.51	0.47	0.50	0.51	0.51	0.51	0.54	0.50	0.51
DISTANCE FISHED	1.39	1.62	1.39	1.24	1.55	1.55	1.58	1.38	1.48	0.58	1.46
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	262.2	0.0	3.6	0.1	0.0	0.1	367.9	199.0	1.4	33.1
PACIFIC COD	923.1	100.0	0.0	0.0	118.2	75.7	76.0	33.6	4.1	0.0	2.7
SABLEFISH	0.0	466.7	48.5	3.2	387.6	524.6	4.5	111.4	11.8	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6
ARROWTOOTH FL	0.0	238.4	44.7	24.3	1100.9	658.2	2759.4	112.9	97.7	599.2	61.2
HALIBUT	191.2	7.7	0.0	0.0	135.9	49.5	207.4	5.0	23.8	67.7	0.0
FLATHEAD SOLE	0.0	1.6	0.0	0.2	0.0	0.0	0.0	0.0	5.9	14.7	0.5
DOVER SOLE	0.0	7.9	42.0	29.0	0.0	0.0	0.0	2.7	31.1	15.4	30.8
REX SOLE	0.0	32.7	5.4	10.9	17.2	4.8	0.0	0.2	43.3	9.1	5.0
ROCK SOLE	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	20.6	11.6	1004.5	0.0	3343.4	39.5	1.4	0.0
ROUGHEYE RKFH	0.0	0.0	2.0	22.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0
THORNYHEADS	0.0	0.0	20.2	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	5.4	0.0	1.4	0.0	0.5	0.0
SHORTRAKER RKFH	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.7	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.9	4.1	0.0	0.0	0.0	8.4	20.2
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.7	0.5
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1125.6	1117.3	165.9	149.6	1772.4	2337.3	3047.4	3978.5	457.2	730.0	155.8

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	265	266	267	268	269	270	271	272	273	274	275
MONTH/DAY/YEAR	8/ 9/93	8/10/93	8/10/93	8/10/93	8/10/93	8/10/93	8/10/93	8/10/93	8/11/93	8/11/93	8/11/93
LATITUDE START	59 49.9	59 49.3	59 48.9	59 39.9	59 33.7	59 39.6	59 38.6	59 34.1	59 33.6	59 32.2	59 37.1
LONGITUDE START	148 58.1	148 33.0	148 13.5	148 22.5	148 1.5	148 9.2	147 31.9	147 32.5	147 12.4	146 32.2	146 45.0
LATITUDE END	59 50.1	59 50.0	59 48.0	59 40.3	59 34.6	59 38.4	59 37.6	59 32.6	59 33.1	59 32.1	59 37.8
LONGITUDE END	149 1.1	148 35.4	148 15.8	148 19.7	148 5.1	148 7.3	147 34.5	147 32.5	147 15.6	146 35.2	146 47.6
LORAN START	13211.20	13303.10	13375.20	13253.40	13277.30	13303.30	13441.20	13398.50	13471.20	13620.20	13614.70
LORAN START	31827.10	31798.00	31770.10	31717.20	31647.90	31697.50	31640.10	31607.90	31574.20	31498.30	31558.00
LORAN END	13201.90	13299.80	13375.70	13269.50	13271.90	13299.90	13422.80	13383.80	13455.80	13608.20	13610.40
LORAN END	31831.80	31803.00	31706.60	31717.20	31657.00	31687.30	31636.90	31596.50	31575.90	31502.90	31567.00
GEAR DEPTH	82	76	60	99	101	39	66	57	113	59	57
DURATION IN HOURS	0.50	0.43	0.50	0.49	0.58	0.54	0.53	0.50	0.59	0.51	0.50
DISTANCE FISHED	1.53	1.43	1.48	1.49	2.04	1.51	1.65	1.59	1.71	1.52	1.45
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.2	11.8	0.7	5.0	6.8	0.0	5.4	10.7	2.7	0.5	0.9
PACIFIC COD	0.0	0.9	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	1.1	15.0	2.3	0.0	0.0	3.2	0.0	114.8	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	0.5	0.1	0.2	0.1	0.0	0.0	0.0	5.4	0.1	0.0
ARROWTOOTH FL	306.6	159.0	1639.1	220.4	59.2	0.0	39.0	141.7	158.3	231.1	223.3
HALIBUT	0.0	0.0	66.3	0.0	0.0	82.6	1.6	3.2	29.6	2.5	0.0
FLATHEAD SOLE	1.6	22.2	7.9	28.6	1.1	0.0	0.0	0.3	5.4	5.7	4.5
DOVER SOLE	7.3	12.2	48.1	24.3	4.5	0.0	12.9	22.9	95.3	7.3	2.3
REX SOLE	0.9	0.7	87.1	10.0	0.5	0.0	7.7	13.6	189.1	7.7	0.2
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	7.7	0.0	6.4	0.0	0.0	0.2	0.0	0.0	1.8	0.0	0.1
ROUGHEYE RKFH	7.9	0.0	0.0	11.8	23.8	0.0	7.3	3.2	86.0	10.9	4.1
THORNYHEADS	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	21.1	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
HARLEQUIN RKFH	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.3	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	1.4	0.0	2.9	0.0	0.0	5.9	0.7	0.1	1.1	0.0	0.0
TANNER CRAB	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	19.4	5.9	0.0	5.2	5.4	0.0	6.4	1.6	1.5	0.0	0.0
SIDE STRIPE SHRIMP	1.0	0.3	0.0	0.9	5.4	0.0	0.0	0.0	3.6	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
TOTAL CATCH	354.2	214.7	1909.4	309.1	107.2	93.8	84.3	197.4	723.3	265.9	238.2

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	276	277	278	279	280	281	282	283	284	285	286
MONTH/DAY/YEAR	8/11/93	8/11/93	8/11/93	8/12/93	8/12/93	8/12/93	8/12/93	8/12/93	8/12/93	8/12/93	8/13/93
LATITUDE START	59 43.1	59 52.4	60 7.1	60 19.3	60 17.5	60 10.1	60 5.7	59 55.1	59 44.2	59 53.7	59 33.3
LONGITUDE START	147 1.8	147 11.4	146 57.3	146 6.7	145 46.7	145 39.0	145 30.4	145 0.6	144 55.3	144 36.7	144 34.3
LATITUDE END	59 41.7	59 53.9	60 6.2	60 19.3	60 17.8	60 11.2	60 4.7	59 53.8	59 45.6	59 52.6	59 33.5
LONGITUDE END	147 1.2	147 11.9	146 59.1	146 9.8	145 49.3	145 41.3	145 28.2	145 1.6	144 54.2	144 38.4	144 37.5
LORAN START	13602.50	13652.20	13848.00	14152.50	14210.30	14170.10	14160.20	14170.60	14092.80	14242.70	14072.00
LORAN START	31629.10	31714.50	31808.20	31834.80	31790.70	31716.60	31664.00	31518.60	31415.20	31459.50	31277.30
LORAN END	13592.30	13664.10	13829.80	14141.30	14204.10	14171.00	14158.70	14156.10	14109.20	14226.50	14062.70
LORAN END	31617.90	31726.20	31802.60	31839.30	31797.20	31729.30	31651.00	31510.40	31425.00	31452.40	31286.00
GEAR DEPTH	109	98	100	17	11	63	70	101	66	38	85
DURATION IN HOURS	0.51	0.52	0.43	0.51	0.51	0.49	0.53	0.58	0.50	0.50	0.50
DISTANCE FISHED	1.42	1.53	1.28	1.54	1.32	1.59	1.49	1.43	1.51	1.44	1.62
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	3.6	18.1	26.3	82.1	158.5	22.2	14.1	39.2	0.2	1.1	0.1
PACIFIC COD	0.0	56.5	4.8	6.8	31.3	1.4	10.0	31.8	12.5	0.0	1.4
SABLEFISH	21.8	42.0	34.2	0.7	0.0	19.5	8.6	67.8	38.8	32.7	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	9.3	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.0
ARROWTOOTH FL	80.1	732.1	652.7	7.5	0.3	161.5	838.2	195.7	748.7	172.4	327.7
HALIBUT	0.0	16.6	9.3	7.8	0.0	23.8	6.3	77.8	68.0	134.0	91.8
FLATHEAD SOLE	4.5	129.7	98.0	0.0	0.0	21.1	70.5	27.4	66.0	39.5	0.0
DOVER SOLE	1.8	188.2	30.4	0.0	0.0	31.3	56.5	278.1	631.2	9.1	3.2
REX SOLE	3.6	83.5	3.6	1.4	0.0	14.7	101.4	264.9	323.2	44.9	5.7
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
STARRY FLOUNDER	0.0	0.0	0.0	185.3	10.7	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	10.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.4	0.0	2.5	0.5	0.7	1.6	0.2	0.7	266.3	0.0
PAC OC PERCH	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	162.6	6.4	141.3	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.5
THORNYHEADS	31.3	5.9	0.0	0.0	0.0	0.0	0.0	22.7	0.7	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	10.0	33.1	0.0	0.0	0.0	2.5	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	1.4	9.1	1.1	0.0	0.0	1.6	1.1	3.9	0.0	0.0	0.0
SIDE STRIPE SHRIMP	1.4	3.8	1.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.0
TOTAL CATCH	312.2	1303.2	1003.3	314.5	235.8	298.0	1108.8	1014.5	1895.1	700.5	431.4

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	287	288	289	290	291	292	293	294	295	296	297
MONTH/DAY/YEAR	8/13/93	8/13/93	8/13/93	8/13/93	8/13/93	8/14/93	8/14/93	8/14/93	8/14/93	8/14/93	8/14/93
LATITUDE START	59 34.8	59 30.4	59 32.4	59 47.0	59 50.6	59 23.4	59 15.9	59 11.1	59 2.6	58 58.7	58 53.8
LONGITUDE START	145 14.9	145 23.8	146 13.9	146 26.6	145 54.4	146 44.2	147 5.7	147 51.6	147 53.2	148 14.0	148 9.0
LATITUDE END	59 34.9	59 31.3	59 31.4	59 46.4	59 51.0	59 21.9	59 14.4	59 9.7	59 4.0	58 59.8	58 55.0
LONGITUDE END	145 12.1	145 26.1	146 11.8	146 24.1	145 51.3	146 44.4	147 5.3	147 51.0	147 54.0	148 16.1	148 7.1
LORAN START	13939.30	13868.00	13694.90	13776.00	13933.50	13493.60			13029.20	12907.60	12886.20
LORAN START	31375.80	31358.00	31467.90	30615.10	31580.60	31449.90			31413.20	31419.00	31376.90
LORAN END	13950.20	13866.40	13694.10	13781.60	13948.80	13480.60			13038.80	12908.50	12904.20
LORAN END	31371.00	31369.20	31456.90	30596.50	31578.70	31439.60			31424.80	31429.60	31381.90
GEAR DEPTH	64	83	52	41	58	68	110	109	88	138	175
DURATION IN HOURS	0.50	0.51	0.52	0.49	0.50	0.51	0.49	0.51	0.48	0.51	0.50
DISTANCE FISHED	1.43	1.43	1.44	1.39	1.63	1.48	1.45	1.43	1.45	1.50	1.51
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.2	0.0	0.2	0.2	2.0	0.4	3.2	6.4	0.1	11.8	7.3
PACIFIC COD	0.0	0.0	90.7	0.0	0.0	10.2	15.2	0.0	0.0	12.2	0.0
SABLEFISH	0.2	10.7	0.0	0.0	1.4	0.1	47.4	6.4	0.0	5.2	1.1
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	39.7	41.0
ARROWTOOTH FL	467.7	1145.3	200.0	56.5	209.3	90.0	100.9	90.3	564.9	98.9	14.3
HALIBUT	25.6	0.0	699.4	28.9	0.0	0.0	41.6	14.8	246.8	2.7	15.2
FLATHEAD SOLE	17.2	20.4	4.8	0.0	14.1	225.4	0.0	5.2	0.0	0.0	0.0
DOVER SOLE	4.3	48.1	0.0	0.0	40.1	36.7	117.0	130.0	0.0	133.6	29.7
REX SOLE	5.9	4.1	3.6	0.0	1.8	2.7	53.3	13.2	0.0	11.3	0.0
ROCK SOLE	0.0	0.0	8.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	535.5	26.3	1.4	59.4	0.0
ROUGHEYE RKFH	0.0	1.8	0.0	0.0	0.1	0.0	0.0	34.2	0.0	32.7	384.2
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	115.0	96.2
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
SHORTTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	1.8	2.3	0.0	1.1	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	2.9	0.0	1.8	1.1	0.0	3.9	1.4	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	1.4	0.9	0.0	0.2	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	521.1	1230.4	1007.1	102.1	270.3	370.2	920.0	339.5	836.9	525.1	610.3

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	298	299	300	301	302	303	304	305	306	307	308
MONTH/DAY/YEAR	8/15/93	8/15/93	8/15/93	8/15/93	8/15/93	8/15/93	8/15/93	8/16/93	8/16/93	8/16/93	8/16/93
LATITUDE START	58 43.4	58 49.6	58 58.6	59 4.7	59 15.0	59 24.7	59 30.8	59 13.4	59 31.6	59 34.9	59 39.5
LONGITUDE START	148 11.9	148 25.3	148 51.0	149 0.6	149 10.5	149 20.8	149 30.8	148 31.3	148 43.0	148 51.3	149 5.2
LATITUDE END	58 44.8	58 48.8	58 58.7	59 5.6	59 15.1	59 26.1	59 29.2	59 14.4	59 30.3	59 36.2	59 40.9
LONGITUDE END	148 11.2	148 22.9	148 51.8	149 2.7	149 13.3	149 22.1	149 31.2	148 33.5	148 41.7	148 53.6	149 7.0
LORAN START	12784.20	12779.90	12751.10	12768.20	12824.90	12879.10	12899.40	12968.60	13093.10	13093.00	13083.90
LORAN START	31310.00	31373.80	31474.30	31528.50	31609.70	31686.90	31737.30	31545.40	31685.60	31719.10	31766.10
LORAN END	12798.60	12782.70	12749.30	12767.50	12814.80	12886.90	12882.10	12968.20	13086.30	13096.70	13090.20
LORAN END	31318.30	31364.90	31475.50	31537.40	31613.90	31697.50	31727.60	31555.00	31675.40	31730.40	31777.10
GEAR DEPTH	168	147	132	79	81	79	59	56	49	96	102
DURATION IN HOURS	0.55	0.52	0.25	0.50	0.48	0.49	0.53	0.50	0.51	0.49	0.50
DISTANCE FISHED	1.57	1.52	0.55	1.39	1.34	1.48	1.67	1.49	1.43	1.71	1.63
PERFORMANCE / GEAR	7 /172	0 /172	5 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.5	0.5	22.7	6.4	46.7	0.1	2.2	0.1	0.0	34.2	8.6
PACIFIC COD	0.0	0.0	0.0	7.3	73.4	14.7	25.9	60.4	0.0	0.0	105.5
SABLEFISH	0.0	45.1	10.0	7.3	11.3	0.0	1.1	0.0	0.0	19.1	42.6
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	11.1	0.0	22.1	12.7	10.9	0.0	0.0	0.0	0.0	5.3	0.9
ARROWTOOTH FL	0.0	45.8	36.5	369.4	137.9	344.3	400.7	18.6	0.0	116.1	89.8
HALIBUT	0.0	17.6	0.0	183.6	105.0	6.4	73.3	24.6	53.0	0.0	32.9
FLATHEAD SOLE	0.0	0.3	0.0	0.0	0.7	1.8	0.9	0.0	0.0	20.0	1.8
DOVER SOLE	0.0	73.0	1.6	14.3	14.5	11.3	0.0	0.5	0.0	15.4	4.3
REX SOLE	0.0	9.1	1.6	29.5	28.6	22.9	11.3	22.7	0.0	3.9	10.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	1140.8	3.4	19.1	9.3	20.9	8.6	0.5	0.1	0.0	0.7	15.9
ROUGHEYE RKFH	145.6	0.5	9.1	0.0	0.7	3.2	0.0	0.0	0.0	10.7	10.9
THORNYHEADS	44.0	12.0	16.8	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0
SHORTRAKER RKFH	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.7	28.3	0.0	1.6	0.0	0.0	0.0	1.6
HARLEQUIN RKFH	0.0	0.0	0.0	3.2	33.3	9.8	6.8	0.5	0.0	0.0	0.2
SHARPCHIN RKFH	0.0	0.2	0.0	0.0	2.3	1.1	0.3	0.5	0.0	0.0	0.5
OTHER RCKFISH	0.0	0.0	0.2	1.6	16.8	1.1	2.3	0.0	0.0	0.0	16.8
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.0	5.7	4.8	0.0	0.0	0.0	4.8	5.0
SIDE STRIPE SHRIMP	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.1
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1346.2	207.5	140.0	645.5	537.0	430.1	526.9	135.7	53.0	232.9	347.4

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	309	310	311	312	313	314	315	316	317	318	319
MONTH/DAY/YEAR	8/16/93	8/18/93	8/18/93	8/18/93	8/18/93	8/18/93	8/19/93	8/19/93	8/19/93	8/19/93	8/19/93
LATITUDE START	59 40.7	59 24.1	59 15.1	59 10.8	59 6.0	58 58.4	58 34.3	58 39.4	58 34.6	58 49.2	58 54.4
LONGITUDE START	149 25.3	150 10.7	149 50.5	149 32.8	149 26.7	149 35.3	149 39.0	149 58.5	149 49.5	149 59.8	150 0.6
LATITUDE END	59 41.4	59 25.4	59 15.0	59 10.1	59 4.8	58 59.5	58 35.1	58 40.3	58 35.4	58 50.1	58 56.0
LONGITUDE END	149 22.8	150 9.3	149 47.7	149 30.6	149 25.5	149 37.6	149 41.4	150 1.0	149 52.4	150 2.4	150 0.7
LORAN START	13018.50	12684.50	12669.40	12696.10	12673.60	12565.00	12328.10	12292.60	12285.60	12380.60	12427.60
LORAN START	31795.80	31739.80	31660.30	31610.60	31571.40	31535.50	31387.10	31447.60	31405.20	31510.80	31543.30
LORAN END	13035.10	12702.30	12678.80	12697.20	12667.20	12568.40	12324.20	12289.80	12280.70	12378.40	12442.90
LORAN END	31798.20	31746.10	31655.80	31603.30	31562.50	31545.00	31395.70	31456.00	31413.90	31519.00	31552.90
GEAR DEPTH	105	72	101	82	96	126	61	71	75	100	124
DURATION IN HOURS	0.50	0.49	0.51	0.50	0.50	0.50	0.51	0.51	0.50	0.53	0.50
DISTANCE FISHED	1.47	1.41	1.47	1.31	1.37	1.60	1.43	1.57	1.70	1.61	1.56
PERFORMANCE / GEAR	1 /172	0 /172	0 /172	0 /172	0 /172	5 /172	0 /172	0 /172	0 /172	1 /172	0 /172
POLLOCK	25.6	18.1	25.9	0.1	45.1	66.2	0.9	0.0	5.0	74.6	13.4
PACIFIC COD	58.5	10.2	0.0	153.8	14.5	0.0	60.3	32.0	14.3	19.1	23.1
SABLEFISH	0.7	0.0	18.1	9.1	22.9	73.9	4.1	7.7	23.6	209.6	3231.2
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	3.2	0.7	2.6	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FL	146.5	953.4	115.7	371.3	114.5	105.9	327.3	279.9	191.2	282.7	143.3
HALIBUT	0.0	54.1	0.0	0.0	0.0	0.0	98.5	73.4	31.6	10.8	9.8
FLATHEAD SOLE	0.0	27.2	3.2	0.0	0.2	7.3	2.5	3.2	17.5	0.0	1.4
DOVER SOLE	34.0	27.2	5.0	12.7	2.7	2.5	41.0	36.1	148.1	4.0	7.3
REX SOLE	8.6	7.3	2.3	32.2	28.1	6.8	25.9	60.6	74.6	13.1	5.9
ROCK SOLE	0.0	0.0	0.0	0.5	0.0	0.0	7.5	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	42.4	1.1	0.0	3.2	177.6	1.4	0.0	0.7	0.0	587.7	0.0
ROUGHEYE RKFH	28.1	2.3	226.3	0.0	0.5	29.7	0.0	1.6	0.0	133.0	5.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	6.4
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.5	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	3.6	0.0	0.0	0.0	1.6	0.0	127.5	0.0
HARLEQUIN RKFH	0.7	2.3	0.0	0.9	0.3	0.0	0.0	3.2	0.0	96.3	0.0
SHARPCHIN RKFH	0.0	2.9	0.0	0.0	0.7	0.0	0.0	2.9	0.0	50.4	0.0
OTHER RKFH	4.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
TANNER CRAB	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	10.3	5.7	5.0	0.0	1.4	0.4	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	5.1	0.0	3.4	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.9
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	368.0	1113.5	407.6	587.4	408.6	307.2	568.0	505.2	506.4	1613.8	3447.7

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	320	321	322	323	324	325	326	327	328	329	330
MONTH/DAY/YEAR	8/19/93	8/20/93	8/20/93	8/20/93	8/20/93	8/20/93	8/20/93	8/20/93	8/21/93	8/21/93	8/21/93
LATITUDE START	59 5.3	58 55.0	58 25.5	58 16.0	58 10.4	58 5.1	57 56.9	57 55.4	58 25.1	58 29.2	58 23.8
LONGITUDE START	149 59.6	150 19.5	150 10.1	150 17.1	149 52.3	149 41.2	149 27.9	149 31.0	149 31.6	149 20.8	149 12.1
LATITUDE END	59 5.7	58 55.0	58 24.2	58 15.2	58 10.0	58 4.6	57 58.1	57 54.2	58 24.7	58 30.3	58 25.4
LONGITUDE END	150 2.6	150 16.3	150 9.0	150 19.5	149 49.5	149 38.3	149 26.5	149 33.5	149 29.9	149 22.3	149 13.1
LORAN START	12536.80		12114.30		12062.20	12071.50	12073.60	12044.50	12279.50	12362.20	
LORAN START	31609.60		31378.10		31269.00	31219.10	31147.50	31132.80	31317.10	31326.90	
LORAN END	12530.20	12371.40	12106.60		12072.60	12081.10	12088.00	12025.40	12283.10	12364.00	
LORAN END	31615.70	31566.30	31368.10		31262.50	31211.40	31142.30	31130.00	31312.70	31336.80	
GEAR DEPTH	94	81	41	36	71	128	114	81	87	62	71
DURATION IN HOURS	0.51	0.53	0.50	0.50	0.50	0.51	0.56	0.54	0.32	0.49	0.52
DISTANCE FISHED	1.60	1.68	1.47	1.51	1.52	1.62	1.49	1.78	0.99	1.36	1.60
PERFORMANCE / GEAR	1 /172	0 /172	0 /172	0 /172	1 /172	0 /172	7 /172	0 /172	5 /172	0 /172	0 /172
POLLOCK	17.0	13.2	0.0	0.0	0.7	782.2	67.6	0.0	2.5	0.7	80.7
PACIFIC COD	16.6	56.9	4.5	0.0	14.3	16.3	8.8	12.7	18.6	10.0	65.8
SABLEFISH	95.9	46.7	0.0	0.0	0.0	55.3	24.5	1.1	21.3	10.9	151.3
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
ARROWTOOTH FL	288.3	309.8	0.0	0.0	1324.5	550.9	2.7	30.8	76.2	156.0	683.6
HALIBUT	85.8	177.6	876.5	544.0	196.9	52.9	0.0	324.4	0.0	148.8	98.7
FLATHEAD SOLE	0.0	0.0	0.0	0.0	4.3	6.6	0.0	0.0	9.1	2.0	6.6
DOVER SOLE	14.5	11.3	0.0	0.0	0.0	19.1	3.6	0.0	49.9	0.7	20.9
REX SOLE	1.4	35.8	0.0	0.0	0.0	62.6	2.0	0.0	25.2	9.3	19.5
ROCK SOLE	0.0	0.0	0.5	0.0	13.2	0.0	0.0	6.6	0.0	2.3	1.1
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
PAC OC PERCH	5.0	13.2	1.1	0.0	0.0	6.8	154.2	2128.0	0.0	0.0	8.2
ROUGHEYE RKFH	0.1	0.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.4
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	2.0	0.0	0.0	0.0	0.5	1.8	67.1	0.0	545.7	276.2
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	456.1	27.0
HARLEQUIN RKFH	0.3	0.0	0.0	0.0	0.0	0.0	2.3	35.4	0.0	97.1	24.5
SHARPCHIN RKFH	0.2	0.7	0.0	0.0	0.0	0.0	2.7	2.0	0.0	0.7	0.9
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	6.4	6.1	3.0	0.0	2.3	2.7
TANNER CRAB	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	525.8	670.4	882.6	544.0	1553.9	1559.6	281.8	2625.6	202.9	1442.6	1470.0

KILOGRAMS OF CATCH TAKEN BY F/V ARGOSY DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	331	332	333	334	335	336	337	338	339	340
MONTH/DAY/YEAR	8/21/93	8/21/93	8/22/93	8/22/93	8/22/93	8/22/93	8/22/93	8/23/93	8/23/93	8/23/93
LATITUDE START	58 29.8	58 29.7	58 10.0	58 4.7	58 0.3	58 0.0	57 55.2	57 55.0	57 54.7	57 54.2
LONGITUDE START	149 0.8	148 42.6	148 48.6	149 12.0	150 17.6	150 35.7	150 45.5	151 3.7	151 13.7	151 50.6
LATITUDE END	58 30.2	58 29.7	58 8.4	58 4.9	58 0.3	57 59.9	57 53.7	57 54.8	57 54.6	57 54.2
LONGITUDE END	149 3.9	148 45.6	148 47.9	149 13.2	150 20.5	150 38.1	150 46.8	151 6.6	151 16.2	151 53.7
LORAN START			12352.10	12204.90	11863.40	11777.50	11691.30	11605.40	11558.00	11400.60
LORAN START			31151.10	31158.60	31238.80	31264.90	31251.80	31278.00	31291.00	31340.50
LORAN END			12343.50	12199.00	11850.60	11764.20	11673.90	11591.70	11546.60	11390.70
LORAN END			31139.90	31161.30	31243.30	31268.00	31245.20	31281.50	31294.00	31344.60
GEAR DEPTH	59	62	207	60	101	71	49	40	38	37
DURATION IN HOURS	0.56	0.54	0.51	0.30	0.51	0.50	0.51	0.49	0.49	0.53
DISTANCE FISHED	1.64	1.57	1.65	0.66	1.53	1.32	1.59	1.54	1.35	1.61
PERFORMANCE / GEAR	7 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.7	0.0	6.6	0.0	37.0	1.4	0.0	0.0	0.1	0.0
PACIFIC COD	12.0	7.0	0.0	0.0	35.4	122.0	67.6	118.2	60.1	17.2
SABLEFISH	0.0	0.0	29.3	0.0	87.8	12.7	784.3	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.5	0.0	2.3
ARROWTOOTH FL	5.4	0.0	120.4	0.0	111.1	309.8	834.4	223.4	90.7	164.2
HALIBUT	70.2	146.0	0.0	0.0	33.2	59.2	920.4	155.9	78.2	1384.1
FLATHEAD SOLE	0.0	0.0	0.0	0.0	6.4	0.2	7.7	0.0	0.0	0.7
DOVER SOLE	0.0	0.0	24.3	0.0	20.9	34.9	122.9	0.0	0.0	0.0
REX SOLE	0.0	2.3	7.7	0.0	27.7	13.4	50.8	0.0	0.0	0.0
ROCK SOLE	16.6	8.6	0.0	0.0	0.2	0.0	26.3	65.3	512.3	41.3
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	11.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.9	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	222.3	2694.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	37.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	840.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	17.5	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	15.9	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
TOTAL CATCH	373.3	3762.6	244.1	0.0	360.6	553.6	2814.7	568.3	742.5	1628.8

Section 1 (continued)

Fishing log for the F/V *Argosy*

- **Summary listing of catch rates (kilograms/
nautical mile) in descending order of
magnitude for selected species of
commercial interest**

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
194	8991.5	2.5	75
192	6202.6	2.5	47
220	4484.6	2.0	49
260	3850.3	2.1	74
197	3721.6	3.0	90
89	2701.9	1.8	79
178	2675.1	2.5	81
153	2501.7	1.6	66
267	2441.6	2.2	60
129	2287.6	3.5	169
263	2277.6	0.9	63
131	2231.8	2.6	129
214	1998.8	2.0	59
222	1939.5	6.0	94
324	1921.1	1.8	71
183	1795.1	3.3	79
288	1765.7	2.1	83
258	1565.8	2.6	93
310	1490.8	1.6	72
116	1447.8	1.8	65
218	1396.9	1.6	62
111	1391.2	1.1	61
120	1384.1	2.1	69
211	1364.3	1.5	62
282	1240.3	2.8	70
112	1183.8	1.2	61
337	1156.9	1.1	49
91	1147.3	1.8	80
278	1124.2	3.3	100
284	1093.0	2.7	66
245	1077.7	2.6	70
277	1054.9	3.2	98
58	1023.5	1.7	75
117	985.2	1.3	63
330	941.9	1.9	71
259	936.1	2.6	105
126	918.8	1.4	89
27	900.0	1.9	69
109	867.4	0.8	58
155	859.2	1.8	85
295	859.0	2.7	88
154	834.8	1.2	62
60	823.6	1.3	81
105	823.4	1.6	74
182	817.9	1.9	78
132	786.1	2.2	108
325	749.7	4.4	128
240	744.4	2.2	67

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
110	728.4	1.3	52
287	721.0	1.6	64
252	702.8	2.0	99
119	701.3	1.8	70
230	680.8	2.9	79
187	672.3	1.7	74
223	654.8	3.7	79
225	649.7	3.4	85
170	631.6	3.2	112
312	624.8	1.8	82
246	623.0	3.0	99
51	617.4	3.8	60
251	617.0	2.6	97
229	595.6	2.9	94
301	586.0	1.8	79
141	565.8	1.2	63
108	559.8	1.4	83
207	555.2	3.8	124
304	529.0	1.5	59
177	525.0	2.2	49
336	517.4	2.9	71
303	512.8	2.0	79
104	509.8	1.6	67
34	509.4	1.3	59
248	506.2	1.9	86
103	505.1	1.1	92
315	504.5	2.4	61
79	500.0	1.3	64
45	491.1	2.3	49
171	489.6	2.3	115
185	485.3	1.6	68
226	474.8	1.5	80
250	464.6	2.3	91
173	460.8	2.2	107
195	448.2	2.2	42
286	446.0	2.0	85
265	441.8	1.2	82
20	426.4	1.3	53
158	421.9	2.5	106
15	420.7	3.2	184
37	418.0	1.6	77
191	409.7	0.6	44
321	406.5	2.0	81
118	402.8	2.0	75
17	400.7	1.6	69
100	399.3	1.5	79
320	397.2	2.5	94
316	393.0	1.9	71

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
162	392.6	3.2	140
61	391.1	0.9	62
73	390.8	2.2	76
228	388.3	1.7	71
318	387.1	2.3	100
124	382.0	2.3	90
157	381.1	2.5	115
18	373.0	1.9	57
80	368.8	1.6	62
249	360.5	1.7	80
94	359.8	1.5	89
167	357.0	3.6	131
175	349.7	1.3	52
241	346.8	1.1	63
101	346.7	1.3	96
31	343.6	2.5	77
275	339.6	0.9	57
274	335.2	1.5	59
83	335.0	0.9	40
219	331.5	2.5	77
268	326.2	1.6	99
255	324.4	3.0	76
338	319.8	1.6	40
107	316.2	1.1	84
289	306.2	2.9	52
163	304.1	3.9	146
283	301.7	2.2	101
291	283.1	1.0	58
72	274.8	1.3	75
285	263.9	2.0	38
227	262.3	1.6	89
147	257.1	3.6	115
208	256.6	1.1	66
150	254.2	2.4	95
329	252.9	1.9	62
143	252.0	2.9	116
78	250.7	1.9	81
74	249.7	1.9	69
161	249.4	3.7	132
317	247.9	2.5	75
115	245.5	0.4	42
266	245.1	0.8	76
97	241.9	2.0	98
46	238.2	1.2	53
133	228.5	4.6	138
172	227.3	0.5	106
302	226.9	1.9	81
340	224.8	3.4	37

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
281	223.9	2.7	63
309	219.7	2.1	105
134	219.3	1.4	96
247	217.9	2.6	103
159	217.1	3.5	166
176	212.1	2.2	50
273	204.1	2.4	113
319	202.6	2.5	124
149	201.4	3.5	149
44	201.4	0.9	46
52	199.2	2.2	58
8	199.1	0.8	55
96	198.9	1.7	89
205	196.6	1.3	76
272	196.5	0.9	57
181	196.2	2.0	46
90	193.2	2.5	100
313	184.3	2.0	96
35	183.1	0.9	59
261	180.4	1.7	90
102	175.0	1.3	101
311	173.5	4.0	101
42	172.3	0.0	53
33	171.1	1.1	57
328	169.7	2.8	87
139	166.7	2.3	115
6	161.0	2.4	76
333	160.9	3.5	207
335	160.1	3.3	101
216	154.8	0.9	62
293	153.4	4.0	110
142	150.0	2.0	107
307	149.7	1.1	96
14	148.3	0.9	78
339	148.1	2.9	38
231	146.7	1.7	28
38	146.5	0.7	53
300	146.4	3.4	132
239	146.1	2.4	78
314	145.9	2.5	126
160	145.6	4.5	164
262	145.6	2.1	112
296	145.3	2.9	138
137	144.0	0.0	133
294	139.2	2.4	109
93	138.7	2.8	105
138	135.6	2.2	129
75	135.4	2.1	77

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
127	135.1	2.4	102
292	134.1	2.0	68
148	131.0	1.5	107
92	129.8	3.4	202
276	124.3	1.3	109
152	123.4	1.8	96
308	121.5	2.3	102
151	120.9	0.5	52
43	120.8	0.7	51
76	120.7	1.3	69
237	118.1	0.8	23
217	117.7	0.8	79
232	112.5	1.1	41
16	112.1	1.8	119
125	111.3	2.4	174
203	109.9	1.1	51
188	109.1	0.6	29
57	102.7	1.3	78
264	92.5	1.1	48
174	91.8	0.6	39
290	89.6	1.5	41
67	80.0	0.5	47
215	75.6	1.2	69
21	75.0	3.6	199
256	70.9	3.6	241
156	68.6	0.7	51
299	66.4	4.8	147
5	64.2	0.8	46
269	64.0	1.7	101
32	63.6	1.3	47
206	60.2	3.0	124
7	59.7	0.9	55
204	57.9	0.3	58
66	53.8	0.3	28
271	52.1	0.5	66
12	50.3	2.1	59
10	49.2	0.5	35
23	47.6	0.7	48
36	43.8	0.7	47
28	43.7	1.5	140
77	43.6	1.4	68
257	43.1	2.7	164
49	41.9	2.4	45
30	40.7	2.5	210
13	40.1	1.5	52
327	38.2	1.1	81
99	37.5	0.8	58
59	36.6	0.3	34

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
140	34.5	1.3	48
64	34.1	0.3	26
9	33.7	0.3	36
193	31.6	0.4	31
186	29.4	1.0	65
305	27.5	0.9	56
1	23.4	4.1	122
95	22.0	0.4	49
297	20.9	2.6	175
121	20.8	0.2	56
199	19.3	2.1	40
242	18.7	3.1	33
98	18.7	0.8	64
29	18.5	3.8	251
69	18.2	0.8	22
53	15.0	1.7	44
47	14.8	1.7	43
65	13.8	0.2	21
130	13.2	2.8	276
11	12.9	0.8	43
244	11.8	0.5	47
2	11.2	0.7	39
279	10.7	1.6	17
233	10.7	0.6	23
4	10.4	0.7	43
26	10.1	0.5	40
146	9.5	15.0	41
212	8.2	1.1	38
22	7.5	0.3	46
331	7.3	1.2	59
48	7.3	3.3	37
87	6.8	0.2	44
144	6.8	0.2	47
253	6.3	1.8	44
128	5.4	5.5	114
236	5.2	1.4	38
209	5.0	1.3	35
55	4.0	0.6	40
326	4.0	1.5	114
68	3.5	0.3	22
196	2.9	1.5	28
41	2.5	3.5	37
136	2.3	0.2	57
63	2.3	0.4	29
201	1.8	3.0	27
84	1.8	0.2	27
122	1.8	0.1	52
224	1.4	0.3	32

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
242	5931.3	4.1	33
253	3353.7	5.4	44
169	1970.2	7.2	39
340	1895.3	5.7	37
322	1314.5	7.8	41
238	877.2	5.4	37
323	794.3	8.8	36
222	668.6	21.1	94
337	638.1	17.8	49
337	638.1	17.8	49
40	633.8	4.3	23
289	535.4	19.8	52
289	535.4	19.8	52
245	430.3	20.2	70
144	419.2	15.3	47
295	375.3	17.6	88
18	362.4	8.1	57
175	350.1	13.9	52
221	342.8	9.5	43
189	338.2	6.2	18
214	326.7	37.6	59
204	326.0	12.7	58
215	325.4	26.7	69
81	324.0	15.5	42
41	315.4	3.8	37
231	310.7	4.3	28
254	303.2	6.6	30
212	303.0	7.4	38
185	289.7	25.9	68
260	289.4	19.9	74
324	285.7	14.0	71
225	260.5	19.3	85
241	260.3	14.1	63
168	259.6	3.3	15
209	259.1	4.6	35
263	257.4	24.9	63
195	254.2	10.0	42
164	249.6	6.2	17
113	247.1	9.3	36
106	242.1	3.6	31
25	240.6	8.1	41
230	238.5	20.4	79
4	235.9	8.3	43
24	233.7	3.8	41
42	231.2	12.7	53
87	230.4	8.4	44
224	226.4	8.3	32
151	225.1	17.5	52

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
338	223.1	5.8	40
191	221.6	16.1	44
199	218.3	4.5	40
112	215.3	19.5	61
200	210.9	4.8	22
70	210.9	16.3	44
86	209.1	14.2	30
83	204.2	6.1	40
180	201.7	7.0	39
327	201.0	22.4	81
327	201.0	22.4	81
232	200.9	3.8	41
213	196.8	17.5	44
35	196.6	9.0	59
184	196.0	40.7	43
258	193.2	25.0	93
110	191.7	26.6	52
156	185.1	7.8	51
176	179.8	29.7	50
114	177.5	1.0	17
140	177.3	13.9	48
55	176.9	5.8	40
145	176.9	25.5	46
45	174.7	7.9	49
201	173.1	5.9	27
67	164.7	13.0	47
47	163.6	6.3	43
11	163.4	6.9	43
192	159.5	9.9	47
69	159.3	3.5	22
315	151.9	18.1	61
32	149.6	11.0	47
301	145.5	67.4	79
301	145.5	67.4	79
181	140.1	7.3	46
330	136.1	24.2	71
39	135.6	4.5	23
82	135.1	2.8	34
109	131.7	21.1	58
190	131.0	8.0	28
85	130.8	16.5	32
80	128.7	12.7	62
167	128.4	40.6	131
339	127.6	6.9	38
74	127.1	24.9	69
286	124.9	28.9	85
122	124.5	7.7	52
94	122.0	11.5	89

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
329	120.7	23.4	62
329	120.7	23.4	62
270	120.6	7.3	39
111	119.8	11.0	61
131	118.7	20.0	129
217	117.2	18.4	79
134	116.9	48.5	96
321	116.5	16.3	81
321	116.5	16.3	81
62	115.5	5.3	26
84	114.7	8.6	27
105	113.7	18.3	74
158	111.9	16.2	106
43	111.3	4.9	51
223	109.7	19.9	79
219	109.2	14.1	77
52	109.0	5.7	58
171	109.0	28.0	115
44	108.9	3.9	46
153	107.9	16.1	66
220	106.9	26.2	49
34	106.0	5.7	59
316	103.1	20.2	71
332	102.5	40.3	62
332	102.5	40.3	62
285	102.5	9.8	38
285	102.5	9.8	38
46	101.5	7.4	53
65	100.2	2.9	21
117	99.8	12.2	63
284	99.3	25.0	66
205	99.3	20.9	76
267	98.8	12.2	60
174	97.8	11.5	39
48	96.7	3.2	37
304	96.7	14.7	59
36	95.8	4.7	47
154	95.1	17.2	62
146	94.9	7.1	41
331	94.4	31.0	59
2	93.8	4.8	39
63	93.6	2.9	29
179	92.9	5.0	43
248	91.2	20.8	86
66	89.8	3.7	28
115	89.3	14.2	42
193	88.2	2.1	31
100	87.6	14.8	79

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
104	86.7	19.0	67
302	86.4	23.2	81
302	86.4	23.2	81
64	85.1	3.0	26
38	85.0	12.2	53
310	84.6	23.9	72
121	82.3	5.8	56
306	81.7	8.3	49
196	80.5	2.7	28
188	80.3	16.9	29
33	80.3	4.6	57
10	80.2	3.9	35
136	79.6	10.0	57
54	79.5	3.1	37
8	77.9	4.3	55
182	76.9	16.6	78
177	72.7	19.6	49
5	72.6	3.7	46
244	72.2	5.8	47
325	72.0	19.4	128
259	70.5	21.8	105
95	69.6	6.3	49
143	69.2	34.6	116
59	68.2	3.7	34
88	68.0	6.0	42
71	66.7	10.5	42
227	65.8	26.8	89
53	65.6	5.5	44
183	64.3	17.2	79
293	63.2	22.9	110
228	63.0	10.3	71
208	62.9	22.8	66
51	62.8	5.8	60
107	62.7	28.4	84
13	62.5	4.6	52
203	61.6	13.2	51
26	61.2	4.8	40
12	60.8	6.7	59
240	60.5	18.8	67
283	59.9	28.6	101
283	59.9	28.6	101
250	59.9	24.1	91
61	59.7	9.7	62
116	59.3	13.8	65
320	59.1	47.3	94
320	59.1	47.3	94
17	58.8	8.9	69
216	57.4	12.7	62

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
72	56.2	10.8	75
22	55.2	6.8	46
187	54.3	14.0	74
68	53.7	2.7	22
133	53.1	25.5	138
142	52.9	24.2	107
239	51.0	14.2	78
20	50.3	14.1	53
92	49.6	70.0	202
336	49.5	13.1	71
336	49.5	13.1	71
335	47.9	24.4	101
7	47.4	4.2	55
135	47.4	17.4	66
103	46.8	16.0	92
206	45.9	23.3	124
290	45.9	6.4	41
9	45.7	3.5	36
202	44.9	6.1	20
141	44.9	11.4	63
132	44.7	21.4	108
308	44.5	36.3	102
173	44.4	32.9	107
147	44.2	31.0	115
123	44.1	4.4	52
75	43.6	27.7	77
150	43.5	11.1	95
161	43.2	24.3	132
58	42.3	11.2	75
60	42.0	11.1	81
91	41.8	18.4	80
233	41.7	2.2	23
317	41.0	17.4	75
166	40.9	1.0	12
162	40.9	33.1	140
79	40.8	5.7	64
287	39.5	28.3	64
197	37.8	11.6	90
127	37.6	26.5	102
305	36.4	4.5	56
152	35.5	18.7	96
262	35.5	26.3	112
76	35.3	10.6	69
14	35.0	5.7	78
49	33.5	2.9	45
31	31.0	6.9	77
98	30.2	9.5	64
237	30.2	9.8	23

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
149	28.7	41.3	149
120	28.4	11.9	69
119	28.2	31.6	70
207	27.8	20.2	124
129	27.1	18.4	169
37	26.5	5.9	77
251	26.3	16.8	97
178	26.2	34.6	81
159	25.8	19.6	166
243	25.6	28.7	38
299	25.6	19.5	147
16	25.4	11.9	119
78	24.1	12.2	81
218	23.7	15.3	62
137	23.5	9.8	133
294	22.8	32.6	109
297	22.3	33.6	175
155	22.2	16.3	85
210	22.1	5.9	47
126	21.2	16.1	89
97	21.1	28.7	98
211	21.0	6.2	62
124	20.6	13.7	90
234	20.4	4.1	12
139	19.2	14.7	115
273	19.1	32.6	113
273	19.1	32.6	113
23	19.0	4.5	48
57	18.7	9.3	78
29	17.1	24.4	251
281	16.5	13.1	63
281	16.5	13.1	63
278	16.0	20.5	100
27	15.6	6.2	69
318	14.8	12.0	100
15	14.4	24.4	184
229	13.5	6.7	94
157	12.9	21.2	115
252	12.6	11.3	99
277	12.0	6.1	98
277	12.0	6.1	98
160	10.9	9.3	164
236	10.5	2.2	38
255	10.4	8.5	76
303	9.5	14.0	79
282	9.3	6.9	70
226	8.3	5.9	80
261	8.0	11.0	90

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
176	2030.8	0.6	50
177	1194.9	1.0	49
116	836.2	0.6	65
67	800.7	0.7	47
195	565.1	0.9	42
188	475.7	0.8	29
115	473.8	0.5	42
61	430.8	0.5	62
58	423.5	0.5	75
183	370.2	0.5	79
223	363.1	0.8	79
110	339.9	0.7	52
292	335.8	1.1	68
187	268.1	0.7	74
60	267.9	0.4	81
37	259.4	0.6	77
105	241.4	0.6	74
172	236.4	0.9	106
104	189.5	0.5	67
178	188.0	0.4	81
277	186.9	1.1	98
173	169.6	0.8	107
278	168.8	1.0	100
108	166.3	0.4	83
170	157.9	0.9	112
222	155.4	0.7	94
152	140.5	0.6	96
101	138.7	0.3	96
102	118.2	0.6	101
38	111.6	0.7	53
194	105.7	0.5	75
103	104.4	0.4	92
282	104.4	0.5	70
185	103.8	0.6	68
162	98.1	0.9	140
284	96.4	0.5	66
197	90.2	0.8	90
228	81.3	0.5	71
107	80.9	0.4	84
175	80.8	0.5	52
225	78.7	0.9	85
109	77.8	0.5	58
100	77.4	0.4	79
161	75.7	0.8	132
44	71.6	0.9	46
252	69.6	0.6	99
57	66.7	0.5	78
45	65.9	0.5	49

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
117	65.6	0.5	63
157	64.0	0.9	115
53	63.9	1.3	44
160	61.4	0.8	164
120	61.1	0.6	69
285	60.4	0.3	38
36	58.4	2.1	47
133	57.6	1.0	138
263	56.0	0.9	63
171	55.2	0.9	115
192	54.2	0.7	47
118	53.9	0.3	75
167	53.2	1.1	131
229	45.3	0.7	94
59	45.1	0.5	34
310	42.6	1.1	72
211	42.5	0.6	62
283	42.3	0.6	101
268	42.3	0.5	99
159	39.5	1.1	166
141	38.8	0.8	63
119	37.9	0.4	70
72	37.8	0.4	75
143	36.0	1.1	116
132	35.8	0.8	108
182	35.1	0.3	78
266	34.3	0.5	76
155	33.3	0.9	85
151	32.5	1.2	52
288	31.5	1.1	83
158	30.8	0.8	106
281	29.2	0.4	63
287	26.6	1.0	64
307	25.7	0.5	96
219	24.9	0.5	77
52	24.6	1.1	58
163	24.1	1.1	146
317	22.6	0.6	75
230	22.5	1.0	79
76	22.0	0.4	69
121	21.5	1.0	56
328	20.2	0.6	87
224	19.9	1.1	32
291	19.0	0.4	58
83	18.2	0.9	40
148	17.2	0.9	107
46	16.8	0.5	53
66	14.4	0.7	28

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
146	13.9	1.6	41
63	13.8	1.2	29
51	13.4	1.0	60
191	13.4	0.5	44
42	12.4	0.8	53
267	11.8	1.0	60
139	11.8	1.0	115
153	11.8	0.5	66
43	11.7	0.5	51
226	11.2	0.6	80
154	11.0	1.0	62
80	10.9	0.5	62
337	10.7	1.0	49
246	10.3	0.6	99
75	10.2	0.7	77
314	10.0	0.5	126
138	9.9	1.2	129
78	9.9	0.4	81
112	9.7	0.6	61
54	9.7	1.7	37
142	9.5	0.9	107
335	9.2	0.7	101
32	9.1	2.4	47
330	9.1	0.6	71
325	9.0	0.5	128
64	8.9	1.1	26
262	8.8	0.4	112
274	8.2	0.6	59
218	8.1	0.8	62
294	8.0	0.5	109
199	8.0	1.4	40
79	7.8	0.4	64
149	7.6	0.9	149
49	7.4	1.4	45
289	7.3	1.3	52
150	7.2	0.8	95
276	7.0	0.8	109
273	7.0	0.7	113
65	6.9	0.3	21
275	6.9	1.1	57
324	6.2	1.2	71
111	6.1	0.5	61
62	5.2	0.5	26
227	5.2	0.7	89
97	5.1	0.5	98
48	5.1	1.8	37
35	4.9	0.6	59
137	4.8	1.3	133

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
311	4.8	0.4	101
316	4.5	0.7	71
28	4.2	0.5	140
231	3.9	0.2	28
315	3.8	0.7	61
89	3.8	1.4	79
214	3.7	1.2	59
34	3.6	0.7	59
33	3.5	1.0	57
329	3.3	0.8	62
96	3.3	0.8	89
181	3.1	1.1	46
168	3.0	1.3	15
73	2.8	0.5	76
233	2.8	0.6	23
303	2.7	0.8	79
308	2.5	0.6	102
186	2.4	0.4	65
265	2.3	0.5	82
41	2.2	1.5	37
255	2.2	0.9	76
319	1.9	0.6	124
140	1.8	1.0	48
147	1.8	0.8	115
68	1.7	0.6	22
206	1.6	0.3	124
205	1.4	0.4	76
269	1.2	0.6	101
304	1.2	0.7	59
302	1.1	0.8	81
47	1.1	0.5	43
212	1.1	0.5	38
340	0.9	0.8	37
94	0.9	0.6	89
239	0.9	0.8	78
127	0.7	1.0	102
87	0.7	1.0	44
264	0.7	0.3	48
220	0.7	0.3	49
69	0.7	1.0	22
106	0.6	0.8	31
10	0.5	0.7	35
9	0.5	0.8	36
299	0.5	0.7	147
272	0.4	0.7	57
257	0.4	0.3	164
237	0.4	0.1	23
131	0.4	0.1	129

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
313	0.4	0.3	96
174	0.3	0.1	39
336	0.3	0.4	71
193	0.3	0.4	31
203	0.2	0.3	51
86	0.1	0.2	30
207	0.1	0.2	124
16	0.1	0.1	119

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
284	921.5	2.1	66
283	428.7	1.9	101
277	271.2	1.9	98
183	221.2	4.3	79
294	200.3	1.5	109
296	196.3	1.4	138
317	192.1	1.6	75
293	177.9	1.6	110
337	170.4	1.1	49
273	122.8	1.7	113
328	111.1	2.1	87
299	105.9	1.5	147
194	103.5	2.4	75
125	89.4	1.9	174
197	85.6	2.6	90
282	83.6	2.1	70
211	82.7	2.8	62
178	78.5	3.5	81
130	78.3	1.2	276
192	78.3	2.6	47
288	74.1	2.0	83
267	71.6	1.8	60
92	71.3	1.7	202
229	69.1	2.0	94
256	66.5	1.1	241
315	63.3	1.6	61
143	62.0	1.9	116
137	60.7	1.6	133
263	58.6	1.2	63
336	58.3	0.6	71
195	55.8	1.6	42
139	54.9	2.0	115
292	54.7	2.0	68
141	54.6	2.4	63
291	54.3	2.7	58
154	53.8	2.9	62
246	53.2	1.9	99
222	52.5	3.5	94
278	52.3	0.0	100
252	51.7	2.3	99
257	51.6	1.3	164
309	51.0	1.6	105
316	50.6	2.8	71
264	46.6	1.7	48
262	46.3	1.3	112
150	45.1	2.7	95
91	44.7	2.6	80
281	43.4	1.9	63

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
297	43.4	2.1	175
310	42.6	2.1	72
247	41.4	1.7	103
97	40.4	2.1	98
80	37.7	2.6	62
268	35.9	2.0	99
225	35.8	1.8	85
131	34.1	2.0	129
129	33.1	1.7	169
333	32.4	1.4	207
272	31.8	1.9	57
335	30.1	1.7	101
155	29.3	3.3	85
330	28.7	1.6	71
228	28.3	2.0	71
147	27.9	2.3	115
325	25.9	1.3	128
148	25.0	3.2	107
302	23.9	1.8	81
249	23.0	1.5	80
134	22.9	1.7	96
301	22.7	2.0	79
15	21.9	3.1	184
78	21.7	2.5	81
312	21.4	1.5	82
182	21.2	4.6	78
89	21.1	3.4	79
124	21.1	2.0	90
133	20.8	2.1	138
219	20.4	2.3	77
251	20.2	1.9	97
320	20.0	2.0	94
307	19.9	2.0	96
266	18.9	2.3	76
132	18.4	2.2	108
96	17.5	2.4	89
271	17.3	1.1	66
303	16.9	2.3	79
94	15.9	1.6	89
157	15.2	1.8	115
321	14.9	2.3	81
158	14.6	3.2	106
205	14.3	2.6	76
285	13.9	0.8	38
185	13.6	2.2	68
159	12.5	3.2	166
230	11.3	1.7	79
255	10.8	1.9	76

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
274	10.5	1.6	59
265	10.5	2.0	82
207	10.3	3.0	124
319	10.3	1.8	124
149	9.9	2.9	149
142	9.5	1.9	107
29	9.1	4.3	251
75	9.1	2.9	77
79	8.5	3.3	64
74	7.6	3.0	69
138	7.5	2.8	129
311	7.5	1.4	101
245	7.3	1.4	70
287	6.6	3.2	64
300	6.4	3.5	132
58	6.4	2.1	75
60	6.1	3.3	81
308	5.8	1.2	102
318	5.5	1.3	100
326	5.4	1.6	114
101	5.1	3.5	96
153	5.0	2.0	66
161	5.0	4.3	132
73	5.0	2.3	76
127	5.0	1.8	102
227	4.9	2.7	89
269	4.9	2.0	101
226	4.9	1.8	80
313	4.4	1.5	96
261	4.3	1.2	90
286	4.3	2.3	85
218	3.9	1.0	62
187	3.9	2.0	74
206	3.6	1.1	124
275	3.4	2.5	57
191	3.4	1.3	44
314	3.4	0.9	126
223	3.2	1.6	79
105	3.1	1.1	74
208	3.1	2.3	66
51	3.0	4.5	60
276	2.8	1.3	109
239	2.7	1.5	78
76	2.7	4.0	69
108	2.7	3.5	83
37	2.5	3.3	77
57	2.3	3.5	78
72	2.2	3.0	75

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
211	642.2	0.9	62
284	471.9	0.6	66
283	408.4	1.2	101
72	314.1	1.1	75
80	279.7	1.2	62
273	243.9	0.5	113
195	235.5	1.2	42
141	165.8	1.1	63
97	162.5	1.1	98
205	156.5	0.9	76
282	150.0	0.5	70
51	139.6	1.1	60
267	129.7	0.7	60
78	127.6	1.1	81
132	126.7	1.0	108
94	124.2	1.2	89
137	123.8	1.2	133
277	120.3	0.7	98
143	114.0	1.3	116
93	112.9	1.0	105
79	111.8	1.2	64
133	104.9	1.1	138
120	102.4	1.9	69
197	100.7	1.3	90
131	97.9	1.2	129
317	96.8	1.2	75
219	96.4	0.9	77
75	93.7	1.3	77
134	92.8	1.0	96
139	86.3	1.4	115
325	85.2	0.7	128
316	85.0	1.0	71
293	81.0	0.6	110
147	72.9	1.5	115
337	70.4	0.9	49
285	68.8	0.4	38
192	68.3	1.1	47
150	67.3	1.5	95
262	64.5	0.7	112
52	61.9	1.1	58
76	60.7	1.8	69
96	57.7	1.5	89
328	56.1	1.0	87
125	54.6	0.8	174
312	54.2	0.7	82
222	53.8	2.3	94
246	53.2	1.5	99
223	47.9	2.3	79

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
321	47.0	1.0	81
302	47.0	0.7	81
301	46.8	0.7	79
185	46.2	1.1	68
194	45.5	1.1	75
313	45.3	0.8	96
255	44.4	1.1	76
229	43.0	1.7	94
92	42.6	1.0	202
138	40.4	1.4	129
335	39.9	1.1	101
315	39.9	0.9	61
183	38.7	2.7	79
154	37.9	0.0	62
21	37.9	1.1	199
214	36.6	1.0	59
155	36.1	1.7	85
263	34.5	0.6	63
129	34.2	0.8	169
303	34.1	0.8	79
305	33.6	0.8	56
28	32.6	0.7	140
148	31.9	1.3	107
160	31.6	0.6	164
142	29.9	1.4	107
162	29.0	1.1	140
130	28.7	0.7	276
100	28.1	1.2	79
249	27.0	1.0	80
330	26.9	0.8	71
35	26.8	1.4	59
225	25.7	0.8	85
252	24.9	1.4	99
16	24.8	1.4	119
258	24.5	1.0	93
127	23.4	1.1	102
178	22.9	1.4	81
33	22.5	1.2	57
336	22.3	1.0	71
46	21.4	1.6	53
15	21.3	1.2	184
58	20.5	1.2	75
281	20.4	0.4	63
294	20.3	0.5	109
157	20.1	1.1	115
257	19.4	0.6	164
272	18.9	0.6	57
245	18.7	1.0	70

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
172	18.2	1.0	106
251	18.1	1.1	97
318	18.0	0.9	100
90	17.3	0.9	100
296	16.7	0.5	138
247	16.4	0.9	103
34	15.8	1.0	59
329	15.1	0.8	62
304	15.0	0.5	59
268	14.8	0.4	99
29	14.0	1.1	251
308	13.5	0.6	102
299	13.2	0.6	147
158	13.1	1.4	106
309	12.9	0.6	105
73	11.3	1.5	76
310	11.3	0.7	72
274	11.2	0.5	59
271	10.3	0.3	66
333	10.3	0.4	207
37	9.8	1.1	77
124	9.8	1.2	90
149	9.7	1.4	149
314	9.4	0.6	126
111	9.2	0.7	61
287	9.1	0.4	64
207	9.0	1.0	124
30	8.9	0.4	210
256	8.6	0.6	241
89	8.4	1.0	79
319	8.3	1.0	124
105	8.3	0.9	74
102	7.9	0.4	101
286	7.7	0.5	85
163	7.6	0.6	146
264	7.5	0.7	48
6	7.2	0.9	76
112	7.1	1.2	61
259	6.8	0.9	105
159	6.6	1.1	166
300	6.4	0.5	132
288	6.3	0.6	83
278	6.3	0.0	100
91	5.7	1.5	80
276	5.6	0.4	109
289	5.6	0.5	52
161	5.3	1.0	132
60	5.2	0.8	81

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
307	5.0	0.3	96
250	5.0	0.9	91
208	4.8	1.0	66
173	4.7	0.6	107
248	4.4	0.9	86
43	4.2	1.7	51
292	4.1	0.9	68
121	3.7	1.8	56
227	3.7	0.6	89
107	3.7	0.4	84
311	3.4	0.6	101
332	3.2	0.4	62
167	3.2	0.7	131
326	3.0	1.5	114
31	3.0	1.3	77
61	2.9	0.5	62
74	2.9	1.5	69
226	2.8	0.6	80
95	2.8	0.9	49
291	2.5	0.4	58
182	2.3	1.8	78
220	2.3	0.5	49
237	2.3	0.6	23
175	2.0	1.5	52
170	2.0	0.5	112
171	1.9	0.8	115
279	1.9	0.8	17
187	1.9	1.5	74
320	1.9	0.5	94
239	1.8	1.5	78
109	1.7	1.3	58
38	1.7	0.7	53
57	1.7	2.5	78
98	1.6	1.0	64
27	1.6	1.3	69
118	1.4	2.0	75
265	1.3	0.5	82
218	1.2	1.5	62
266	1.0	0.1	76
126	1.0	0.8	89
206	1.0	0.3	124
230	0.8	0.5	79
117	0.7	1.0	63
14	0.7	1.0	78
66	0.6	0.4	28
20	0.6	0.8	53
231	0.5	0.1	28
269	0.5	0.5	101

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
191	0.4	0.5	44
12	0.4	0.6	59
101	0.4	0.5	96
261	0.4	0.5	90
104	0.3	0.2	67
193	0.3	0.5	31
188	0.3	0.3	29
275	0.3	0.4	57
67	0.3	0.4	47
228	0.3	0.3	71
110	0.1	0.2	52
152	0.1	0.2	96

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES YELLOWFIN SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
65	1230.3	0.5	21
66	655.3	0.9	28
115	385.6	1.5	42
67	315.3	1.0	47
59	221.1	1.2	34
69	215.5	1.1	22
61	207.5	0.9	62
188	140.2	1.2	29
68	120.3	1.1	22
177	93.6	1.7	49
237	55.0	1.2	23
176	34.2	1.3	50
64	31.1	0.7	26
231	26.3	0.8	28
110	20.1	1.8	52
104	19.0	1.3	67
233	15.2	0.6	23
44	14.9	1.0	46
166	12.3	0.3	12
109	8.3	2.0	58
45	4.9	0.8	49
105	4.8	1.2	74
58	0.6	0.8	75

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES STARRY FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
168	906.4	5.6	15
279	265.3	4.0	17
174	218.3	5.2	39
166	207.0	3.4	12
238	103.5	5.5	37
114	100.0	5.1	17
69	94.6	3.1	22
237	33.8	3.7	23
201	27.5	11.5	27
280	17.8	2.0	11
181	13.8	10.0	46
196	11.8	9.2	28
164	11.8	6.0	17
177	10.9	4.4	49
115	10.3	7.4	42
340	5.0	8.0	37
67	4.2	6.3	47
65	3.8	5.5	21
233	3.8	2.8	23
167	2.5	4.0	131
234	2.5	3.5	12
116	2.2	2.5	65
188	0.3	0.5	29

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ROCK SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
339	836.7	1.3	38
86	645.8	1.8	30
168	633.1	1.6	15
69	617.6	0.8	22
64	511.1	1.0	26
62	450.3	1.1	26
166	447.4	0.8	12
224	404.2	1.2	32
68	402.8	0.8	22
44	335.8	0.6	46
114	334.7	0.8	17
169	289.9	1.5	39
82	288.0	1.4	34
146	283.9	3.6	41
253	273.0	1.4	44
83	271.5	1.1	40
181	265.2	1.7	46
85	245.4	1.0	32
45	245.2	0.6	49
106	243.8	1.0	31
63	223.6	1.1	29
193	212.9	0.9	31
196	207.7	1.2	28
66	200.0	0.8	28
42	197.1	0.9	53
199	192.0	2.0	40
65	189.7	0.9	21
238	179.2	1.4	37
39	167.9	1.2	23
218	159.3	1.5	62
36	153.6	1.5	47
54	152.9	1.3	37
113	149.2	1.0	36
10	134.4	1.0	35
221	132.3	0.9	43
26	129.7	1.1	40
49	125.7	1.4	45
175	121.9	1.1	52
59	116.9	0.7	34
38	113.2	1.1	53
14	111.8	1.2	78
40	104.3	0.9	23
9	102.0	1.6	36
203	98.0	2.6	51
156	96.2	2.0	51
220	95.6	0.7	49
338	93.5	1.0	40
216	91.6	1.3	62

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ROCK SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
121	90.6	1.6	56
41	90.6	0.9	37
53	89.5	1.2	44
32	87.9	1.3	47
180	87.2	0.9	39
11	83.6	1.5	43
213	83.4	0.8	44
215	80.8	0.9	69
190	80.6	1.2	28
231	78.3	0.6	28
18	73.6	1.2	57
13	70.7	0.9	52
5	68.2	1.5	46
87	68.2	0.9	44
55	64.0	0.9	40
144	63.0	1.6	47
52	60.3	2.1	58
179	57.6	1.0	43
340	56.5	1.2	37
20	55.0	1.3	53
209	54.0	0.7	35
110	53.2	1.3	52
242	53.1	1.1	33
174	50.3	1.4	39
8	49.1	1.9	55
25	48.5	1.0	41
12	48.3	1.0	59
48	48.2	1.2	37
140	47.3	1.2	48
61	47.3	0.8	62
84	46.5	1.5	27
67	46.0	0.8	47
51	39.6	2.0	60
244	38.8	1.3	47
151	38.7	1.7	52
210	37.7	0.7	47
99	37.5	1.5	58
232	36.8	1.4	41
337	36.5	1.0	49
201	36.2	1.6	27
165	36.2	1.5	19
112	35.7	1.9	61
47	34.8	0.8	43
27	33.5	1.7	69
240	33.1	1.4	67
184	32.2	1.1	43
23	31.5	1.4	48
164	31.4	1.6	17

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ROCK SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
22	27.2	1.4	46
4	26.5	1.1	43
2	25.5	0.7	39
109	24.3	1.7	58
241	23.4	1.2	63
88	23.2	1.2	42
7	22.6	1.9	55
331	22.3	1.2	59
212	22.1	1.2	38
17	21.9	2.1	69
290	21.6	1.6	41
43	20.8	0.9	51
145	19.4	1.4	46
324	19.1	1.3	71
254	18.0	0.7	30
204	16.9	2.6	58
233	16.6	0.5	23
34	16.5	1.4	59
33	16.2	1.4	57
191	14.7	1.9	44
95	13.8	0.9	49
111	13.6	1.8	61
289	12.8	1.3	52
189	12.6	1.1	18
46	12.2	0.9	53
332	12.1	3.8	62
188	11.8	1.0	29
236	11.8	0.5	38
315	11.5	1.2	61
35	11.3	1.5	59
123	10.9	1.7	52
98	9.9	2.1	64
37	9.8	1.0	77
105	9.3	1.5	74
136	8.6	1.6	57
81	8.4	0.9	42
327	8.1	1.4	81
122	8.1	2.0	52
217	7.4	1.5	79
177	7.4	1.3	49
270	7.3	1.4	39
195	7.2	1.5	42
183	6.4	1.7	79
208	5.9	1.7	66
31	5.6	2.5	77
6	4.8	1.8	76
219	4.1	1.3	77
141	3.9	2.0	63

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES BUTTER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
237	626.2	0.6	23
176	325.6	0.9	50
199	175.0	0.8	40
174	174.5	0.7	39
177	151.2	0.8	49
86	139.7	0.7	30
168	129.3	1.1	15
69	110.8	1.0	22
166	105.3	0.8	12
181	93.4	0.6	46
232	59.0	0.4	41
64	56.3	0.8	26
146	39.2	0.7	41
83	23.7	0.8	40
196	23.5	1.0	28
340	21.1	0.7	37
63	16.1	0.9	29
279	14.9	0.7	17
188	14.8	0.6	29
231	7.9	0.3	28
175	6.6	0.8	52
185	4.9	1.4	68
82	4.5	0.5	34
68	4.1	0.8	22
187	3.9	0.8	74
195	3.6	0.6	42
36	2.6	0.7	47
280	2.3	0.6	11
67	1.7	0.6	47
238	1.7	0.2	37
193	1.2	0.6	31
182	1.0	0.8	78
203	0.9	0.4	51
178	0.8	0.6	81
233	0.7	0.1	23
87	0.7	0.5	44
66	0.7	0.9	28
200	0.4	0.7	22
46	0.3	0.4	53
213	0.3	0.4	44
180	0.2	0.1	39

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ALASKA PLAICE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
67	113.3	3.0	47
188	34.5	3.2	29
104	25.5	4.3	67
45	25.2	2.8	49
110	12.2	5.7	52
105	10.3	3.8	74
115	10.1	4.8	42
66	7.6	1.3	28
195	6.0	2.5	42
59	5.6	1.6	34
61	4.5	1.6	62
58	3.0	4.0	75
44	2.0	1.5	46
225	1.7	2.5	85
231	1.6	2.5	28
237	0.4	0.5	23
114	0.2	0.3	17

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
319	4566.3	5.6	124
250	1127.3	5.0	91
337	1087.4	2.9	49
90	971.9	4.6	100
130	912.0	8.3	276
251	767.0	6.5	97
259	746.1	5.0	105
255	635.2	5.8	76
129	606.3	6.3	169
137	554.8	7.6	133
258	551.3	3.1	93
160	504.1	9.0	164
89	395.2	3.4	79
207	315.2	6.3	124
318	287.1	5.9	100
28	227.1	3.7	140
132	217.0	4.1	108
222	209.0	6.4	94
330	208.4	6.3	71
220	194.9	4.0	49
248	194.5	4.0	86
206	190.5	5.5	124
261	177.9	6.1	90
92	176.6	6.9	202
163	166.9	8.1	146
131	164.8	3.3	129
182	158.3	4.4	78
246	157.9	5.5	99
273	148.0	8.4	113
167	144.6	7.4	131
320	132.2	5.3	94
149	129.9	7.8	149
335	126.5	5.5	101
29	122.4	5.3	251
143	120.0	7.5	116
245	111.3	4.4	70
147	109.3	7.0	115
283	104.5	2.5	101
178	101.9	4.8	81
314	101.9	6.5	126
183	101.6	4.6	79
247	87.0	5.0	103
133	86.8	7.8	138
159	84.2	7.1	166
230	84.2	2.7	79
125	80.9	7.1	174
256	77.0	4.0	241
175	75.5	3.1	52

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
325	75.3	6.1	128
293	72.1	2.9	110
219	66.9	3.9	77
162	66.7	8.3	140
299	65.5	5.9	147
321	61.3	6.4	81
277	60.5	5.8	98
278	59.0	0.0	100
308	57.7	5.9	102
100	57.4	4.1	79
284	56.6	6.1	66
124	56.4	3.1	90
15	52.7	4.4	184
285	50.0	4.0	38
101	49.6	3.8	96
30	48.8	4.3	210
328	47.5	5.9	87
239	45.8	3.5	78
73	45.4	3.0	76
161	42.0	5.5	132
300	40.0	7.3	132
211	39.5	4.5	62
333	39.1	7.2	207
223	37.2	3.2	79
313	36.9	6.3	96
326	36.2	3.4	114
21	35.3	4.6	199
214	34.8	3.3	59
276	33.8	4.0	109
317	30.6	3.5	75
171	29.2	4.5	115
139	28.1	7.2	115
311	27.2	4.4	101
252	27.1	3.7	99
281	27.0	1.4	63
16	26.2	2.8	119
307	24.6	2.3	96
229	23.5	5.0	94
93	22.6	7.0	105
197	22.6	3.0	90
267	22.3	2.4	60
336	21.2	4.7	71
240	21.0	2.6	67
249	19.0	2.1	80
302	18.7	6.3	81
91	18.2	4.0	80
138	17.8	5.2	129
329	17.6	4.8	62

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
262	17.6	5.2	112
288	16.4	2.4	83
312	15.3	2.5	82
225	13.5	3.3	85
170	13.2	5.0	112
282	12.8	1.9	70
173	12.2	6.0	107
301	11.5	3.2	79
316	10.8	4.3	71
94	10.2	6.8	89
294	9.8	3.5	109
97	8.8	4.0	98
296	7.7	5.8	138
205	6.8	2.5	76
77	6.7	5.3	68
1	6.5	8.0	122
260	6.3	3.3	74
315	6.3	2.3	61
119	6.3	3.5	70
72	5.9	2.0	75
257	5.6	3.5	164
116	5.2	6.0	65
271	4.2	2.3	66
226	4.2	3.0	80
228	3.9	2.3	71
134	3.6	3.0	96
268	3.4	2.5	99
45	3.3	4.5	49
120	3.2	2.0	69
108	3.0	4.0	83
158	2.8	3.7	106
102	2.5	3.5	101
128	2.5	2.5	114
218	2.3	3.0	62
74	2.2	3.5	69
142	2.2	3.0	107
65	2.1	0.8	21
231	2.0	1.5	28
187	1.9	3.0	74
291	1.8	1.5	58
166	1.8	1.0	12
266	1.7	2.5	76
297	1.7	2.5	175
304	1.5	2.5	59
327	1.4	1.3	81
76	1.3	2.0	69
309	1.0	1.5	105
279	1.0	0.8	17

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
242	7629.5	3.7	33
254	1464.0	6.2	30
199	1288.7	6.1	40
169	970.5	3.4	39
94	803.4	4.9	89
192	654.5	5.1	47
195	637.1	6.0	42
228	620.4	4.9	71
8	541.8	5.2	55
126	524.7	5.5	89
18	481.8	7.1	57
44	452.0	4.3	46
22	444.9	2.0	46
59	442.3	1.5	34
11	408.6	5.8	43
4	389.2	9.4	43
141	384.2	4.6	63
220	348.6	6.5	49
235	312.5	10.2	56
203	288.0	4.9	51
176	285.2	5.7	50
225	265.5	5.9	85
12	259.4	12.0	59
312	258.8	3.8	82
42	252.6	3.0	53
134	244.6	4.4	96
17	235.1	8.1	69
67	226.0	2.6	47
6	225.3	8.4	76
13	222.4	6.5	52
153	221.8	4.3	66
218	220.5	5.6	62
34	219.4	3.1	59
182	211.5	4.6	78
336	203.8	4.1	71
61	203.4	3.9	62
31	200.0	4.0	77
58	197.7	8.7	75
79	195.4	3.5	64
197	193.4	5.6	90
93	187.1	6.1	105
27	186.7	4.6	69
51	181.9	4.0	60
48	178.8	8.8	37
142	177.6	5.2	107
222	174.5	8.7	94
116	172.4	5.9	65
38	170.5	4.9	53

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
338	169.2	3.2	40
258	168.1	5.5	93
120	167.9	6.6	69
219	166.9	4.9	77
97	165.4	4.5	98
223	160.7	6.1	79
113	156.3	3.1	36
154	155.9	2.7	62
80	153.6	3.4	62
52	149.2	3.9	58
83	147.4	5.2	40
82	146.6	2.2	34
49	146.3	6.6	45
308	142.6	4.8	102
289	138.9	6.1	52
24	138.7	2.6	41
7	136.3	9.9	55
255	136.1	3.7	76
37	134.6	6.9	77
86	127.9	1.6	30
124	127.8	5.7	90
132	126.4	5.2	108
54	124.5	2.6	37
68	123.8	1.1	22
43	123.3	2.5	51
2	122.4	6.3	39
55	119.3	3.3	40
66	118.9	1.7	28
14	114.3	9.3	78
69	114.2	2.2	22
230	114.2	5.1	79
191	111.2	2.6	44
114	110.8	5.7	17
89	109.9	0.0	79
155	108.8	5.0	85
5	107.9	5.4	46
259	107.7	6.2	105
260	106.0	4.8	74
175	105.3	4.4	52
232	104.9	3.5	41
35	100.0	3.8	59
339	98.1	4.3	38
33	97.9	4.8	57
147	97.9	5.5	115
53	97.7	3.2	44
105	96.9	5.2	74
207	95.2	4.8	124
104	94.8	5.8	67

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
337	93.7	2.9	49
245	93.3	6.4	70
315	93.0	3.6	61
229	92.3	5.3	94
251	91.9	5.7	97
215	91.8	2.3	69
330	90.6	3.8	71
91	89.0	5.3	80
90	87.8	5.5	100
309	87.8	4.4	105
71	85.2	4.8	42
214	85.1	4.4	59
167	84.5	6.7	131
85	82.5	2.1	32
78	82.2	5.0	81
139	81.7	5.0	115
277	81.4	5.7	98
145	79.2	3.0	46
115	79.0	6.6	42
226	76.9	6.5	80
143	76.0	6.3	116
321	74.7	4.5	81
127	74.5	4.6	102
111	74.1	3.8	61
20	73.6	6.1	53
96	73.4	4.6	89
187	73.2	5.7	74
77	73.1	4.2	68
162	69.8	7.5	140
9	68.0	3.8	36
10	65.2	3.8	35
36	65.0	6.8	47
45	63.7	2.5	49
302	61.9	4.1	81
177	61.4	6.2	49
146	59.5	3.1	41
302	59.0	4.4	81
46	58.8	2.6	53
158	56.9	5.3	106
185	55.2	4.4	68
227	54.9	4.7	89
47	54.8	12.3	43
261	53.6	5.3	90
239	52.4	4.0	78
280	52.3	4.6	11
70	51.7	2.2	44
335	51.0	5.2	101
133	49.3	4.7	138

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
131	49.3	5.1	129
26	48.6	8.0	40
181	48.3	2.9	46
112	46.8	2.5	61
118	46.1	7.2	75
159	46.1	8.8	166
267	45.9	4.3	60
208	45.2	3.0	66
316	44.9	3.2	71
305	44.6	3.2	56
305	44.6	3.2	56
109	43.4	6.3	58
57	43.3	3.8	78
76	42.7	5.3	69
23	42.0	4.3	48
328	41.4	13.7	87
160	40.9	7.0	164
72	40.0	3.4	75
73	39.0	3.2	76
249	38.0	3.8	80
137	35.1	5.9	133
246	34.9	3.1	99
304	34.1	3.8	59
250	33.2	3.3	91
319	32.7	6.4	124
65	31.7	2.9	21
40	31.6	5.3	23
231	31.6	1.7	28
247	31.2	3.0	103
193	27.7	1.4	31
149	27.1	6.5	149
157	26.2	7.2	115
318	26.2	3.8	100
174	26.1	5.7	39
196	26.1	6.8	28
248	25.9	3.9	86
161	24.9	7.0	132
283	24.5	3.5	101
283	24.5	3.5	101
340	23.6	3.2	37
313	23.4	4.0	96
293	23.1	3.7	110
320	22.8	4.6	94
32	22.7	5.0	47
205	22.4	3.7	76
87	22.3	1.3	44
325	22.2	6.0	128
64	22.2	0.9	26

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
303	22.0	4.1	79
324	20.7	3.1	71
16	20.6	4.1	119
25	18.9	12.5	41
110	18.7	5.2	52
317	18.5	3.1	75
188	18.5	5.2	29
50	18.3	9.5	41
284	18.2	6.9	66
296	18.0	4.5	138
236	17.9	3.8	38
81	17.4	2.1	42
88	16.7	2.0	42
171	16.2	6.3	115
329	16.2	3.7	62
331	16.2	3.3	59
310	16.0	3.8	72
98	15.9	4.0	64
163	15.9	7.7	146
75	15.7	2.9	77
327	15.7	3.5	81
292	15.2	4.5	68
95	15.0	1.5	49
282	14.8	5.5	70
178	14.4	4.8	81
183	14.4	2.9	79
102	13.6	6.3	101
326	13.1	6.5	114
150	13.1	4.0	95
128	12.7	6.5	114
253	12.5	3.7	44
241	12.4	3.1	63
138	12.3	4.5	129
211	12.2	2.6	62
301	11.5	3.2	79
238	11.5	5.5	37
170	11.2	5.7	112
60	10.4	3.7	81
129	9.9	4.5	169
332	9.9	5.2	62
279	9.7	3.8	17
117	9.6	3.3	63
206	9.2	3.5	124
74	8.3	2.6	69
278	8.2	10.5	100
221	7.9	0.7	43
63	7.5	3.3	29
322	6.8	10.0	41

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
84	6.2	0.1	27
262	6.1	3.0	112
201	6.0	10.0	27
56	5.9	6.0	39
166	5.3	0.2	12
135	4.8	7.0	66
264	4.1	0.1	48
240	4.0	2.5	67
190	3.3	0.4	28
1	3.2	4.0	122
233	3.1	0.5	23
62	3.0	0.1	26
210	2.6	0.6	47
281	1.9	3.0	63
286	1.9	3.0	85
168	1.5	2.0	15
266	1.4	2.0	76
216	1.0	1.5	62
136	0.4	0.6	57
204	0.2	0.1	58
234	0.2	0.3	12
144	0.2	0.1	47
213	0.2	0.1	44
209	0.1	0.2	35
39	0.1	0.0	23
184	0.1	0.0	43

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ATKA MACKEREL

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
4	1453.5	2.8	43
11	54.3	3.0	43
95	43.3	3.2	49
56	28.7	2.9	39
80	15.9	3.1	62
71	10.2	4.8	42
2	10.2	1.7	39
50	7.1	1.6	41
55	6.8	2.8	40
33	6.3	3.0	57
75	6.3	2.7	77
91	5.3	3.5	80
93	4.8	3.0	105
54	4.5	3.5	37
87	4.5	3.3	44
96	4.4	3.0	89
51	4.0	3.0	60
22	3.4	2.5	46
72	3.2	4.3	75
70	2.7	2.0	44
82	2.6	3.5	34
24	2.3	3.3	41
25	2.3	3.0	41
102	2.1	3.0	101
206	2.0	3.0	124
36	1.8	2.5	47
34	1.8	2.5	59
81	1.8	3.0	42
77	1.8	2.8	68
52	1.6	2.0	58
5	1.5	2.3	46
210	1.5	2.0	47

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
129	177.6	0.9	169
296	169.0	0.5	138
15	147.9	0.6	184
297	140.4	0.5	175
125	127.0	0.6	174
92	96.8	0.5	202
29	79.7	0.5	251
207	78.6	0.6	124
300	67.3	0.8	132
21	64.7	0.5	199
130	63.6	0.6	276
257	62.1	0.4	164
298	61.8	0.4	168
133	58.3	1.8	138
206	48.7	0.4	124
276	48.6	0.9	109
283	35.0	1.7	101
256	32.0	0.4	241
30	30.1	0.4	210
273	27.2	0.7	113
294	18.2	0.6	109
299	17.4	0.7	147
314	15.3	1.1	126
333	14.2	0.2	207
160	9.9	0.7	164
319	9.0	0.9	124
277	8.5	0.9	98
16	7.8	0.5	119
326	7.0	0.3	114
28	5.6	0.3	140
170	2.6	0.6	112
162	1.5	0.4	140
167	1.3	0.3	131
307	1.2	2.0	96
284	1.0	1.5	66
301	0.4	0.5	79
268	0.3	0.2	99

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
15	1442.4	3.8	184
297	560.9	2.4	175
133	359.0	3.4	138
311	339.5	1.8	101
276	252.5	1.6	109
278	243.4	4.1	100
298	204.5	2.5	168
318	182.2	0.9	100
160	172.8	3.2	164
170	116.4	2.8	112
273	110.8	2.0	113
207	106.9	0.8	124
129	104.4	3.5	169
1	99.2	1.7	122
167	77.5	2.7	131
294	52.8	1.6	109
92	49.6	3.3	202
296	48.0	1.0	138
21	47.4	3.4	199
125	46.8	3.3	174
309	42.2	1.1	105
314	40.9	2.4	126
257	40.7	3.4	164
163	40.0	2.6	146
300	36.4	1.3	132
162	26.5	2.1	140
269	25.7	3.1	101
152	22.2	2.7	96
172	20.9	1.2	106
159	19.1	3.6	166
268	17.4	1.1	99
171	16.2	1.9	115
274	15.8	0.5	59
101	15.0	1.6	96
308	14.7	1.4	102
307	13.7	3.9	96
8	11.6	1.2	55
265	11.4	0.6	82
333	10.0	4.1	207
271	9.7	0.6	66
187	9.7	1.9	74
137	9.5	2.7	133
277	9.2	1.4	98
150	8.5	1.4	95
147	7.9	2.2	115
283	7.7	0.7	101
58	7.6	3.3	75
57	7.3	1.6	78

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
319	7.1	1.8	124
143	7.0	3.5	116
183	6.9	5.5	79
30	6.5	4.0	210
246	6.3	2.0	99
275	6.2	0.4	57
142	5.1	2.3	107
138	4.8	3.5	129
272	4.4	0.4	57
161	3.8	2.2	132
178	3.8	0.6	81
310	3.5	0.7	72
205	3.4	1.0	76
252	3.4	3.0	99
60	3.3	0.9	81
256	3.2	2.3	241
288	2.8	0.7	83
96	2.8	1.3	89
229	2.7	2.0	94
139	2.6	4.0	115
132	2.4	0.9	108
303	2.4	0.3	79
303	2.4	0.3	79
16	2.3	3.3	119
177	2.3	0.9	49
108	2.3	1.5	83
316	2.2	3.5	71
100	2.2	3.0	79
173	2.0	3.0	107
103	2.0	2.7	92
330	1.9	1.5	71
127	1.8	2.5	102
4	1.5	2.0	43
97	1.5	2.0	98
197	1.4	1.3	90
107	1.3	0.8	84
331	1.2	0.7	59
52	1.2	1.5	58
302	1.1	0.5	81
321	0.9	1.5	81
206	0.8	0.4	124
313	0.7	0.5	96
326	0.7	1.0	114
299	0.7	0.5	147
286	0.6	0.2	85
227	0.6	1.0	89
263	0.3	0.1	63
291	0.1	0.2	58

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
239	0.1	0.2	78
320	0.1	0.0	94

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
93	8755.5	1.1	105
1	7086.2	1.5	122
206	6153.8	1.5	124
135	5538.1	1.1	66
261	5341.2	1.4	90
6	3330.8	0.9	76
327	2635.7	1.4	81
298	1601.9	1.4	168
90	1463.7	1.4	100
259	1428.7	1.5	105
128	1257.1	1.4	114
124	1044.4	1.3	90
94	991.7	1.0	89
293	814.1	1.5	110
318	804.7	1.7	100
197	774.0	1.8	90
16	648.9	1.0	119
12	375.5	1.2	59
313	285.8	1.2	96
95	266.9	0.8	49
74	240.8	0.8	69
8	230.0	0.6	55
326	228.2	1.5	114
210	186.6	0.5	47
207	163.1	1.1	124
22	147.6	0.3	46
140	130.9	0.3	48
127	109.9	1.3	102
132	94.4	1.9	108
50	88.1	0.7	41
296	87.3	1.0	138
129	78.7	1.2	169
300	76.4	2.0	132
96	69.0	0.9	89
309	63.6	1.2	105
262	58.8	1.4	112
52	57.1	1.1	58
139	51.6	1.9	115
211	44.2	1.1	62
126	44.1	1.0	89
294	40.6	1.0	109
257	36.7	1.3	164
302	34.3	1.1	81
7	25.8	0.6	55
17	25.2	0.7	69
134	24.1	1.4	96
250	21.7	1.2	91
308	21.5	0.9	102

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
147	20.7	1.5	115
99	20.0	0.8	58
77	18.6	1.2	68
321	17.3	1.4	81
258	16.5	1.3	93
331	15.9	0.3	59
251	15.7	1.8	97
301	14.7	1.3	79
131	14.1	1.0	129
28	13.2	1.3	140
91	12.9	1.4	80
303	12.8	0.8	79
330	11.3	0.9	71
265	11.1	0.7	82
97	11.0	1.0	98
150	10.5	0.8	95
208	10.0	0.5	66
125	9.9	1.3	174
136	9.6	0.7	57
267	9.5	0.9	60
325	9.3	1.7	128
2	8.2	1.0	39
23	7.3	0.2	48
320	6.9	1.2	94
158	6.2	2.7	106
151	5.5	0.5	52
204	5.4	0.4	58
312	5.3	1.0	82
263	5.2	0.2	63
225	5.1	0.8	85
249	5.0	0.8	80
299	4.9	1.3	147
155	4.4	1.6	85
218	4.3	0.4	62
239	3.9	1.1	78
92	3.2	4.5	202
142	2.9	1.3	107
98	2.4	1.0	64
273	2.3	2.0	113
295	2.1	0.8	88
314	1.9	1.5	126
310	1.8	0.3	72
322	1.7	1.3	41
246	1.6	1.0	99
215	1.5	0.3	69
178	1.5	2.0	81
277	1.3	2.0	98
335	1.3	2.0	101

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
70	1.2	0.4	44
120	1.2	0.8	69
15	1.2	2.0	184
100	1.1	0.8	79
316	1.0	1.5	71
27	0.9	1.5	69
20	0.9	0.1	53
71	0.9	0.3	42
307	0.9	0.8	96
11	0.8	0.1	43
61	0.7	0.3	62
247	0.6	0.5	103
304	0.6	0.1	59
56	0.6	0.3	39
105	0.3	0.5	74
245	0.3	0.5	70
157	0.3	0.5	115
270	0.3	0.1	39
5	0.2	0.3	46
81	0.2	0.1	42
275	0.1	0.2	57
191	0.1	0.1	44
123	0.1	0.1	52
305	0.1	0.1	56

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
191	1596.6	1.1	44
191	1596.6	1.1	44
332	1179.9	3.0	62
332	1179.9	3.0	62
95	889.4	2.2	49
95	889.4	2.2	49
329	739.3	3.8	62
329	739.3	3.8	62
99	650.0	2.6	58
99	650.0	2.6	58
184	522.9	1.1	43
184	522.9	1.1	43
210	477.4	2.9	47
210	477.4	2.9	47
318	174.6	3.5	100
318	174.6	3.5	100
249	146.5	2.9	80
249	146.5	2.9	80
71	125.4	2.3	42
71	125.4	2.3	42
197	94.5	2.9	90
197	94.5	2.9	90
12	84.6	3.5	59
12	84.6	3.5	59
22	74.8	1.3	46
22	74.8	1.3	46
280	55.3	4.9	11
280	55.3	4.9	11
302	46.6	3.7	81
302	46.6	3.7	81
52	46.0	2.5	58
52	46.0	2.5	58
330	37.2	3.3	71
330	37.2	3.3	71
134	36.5	3.0	96
134	36.5	3.0	96
211	26.9	2.6	62
211	26.9	2.6	62
245	22.3	3.7	70
245	22.3	3.7	70
327	18.0	4.6	81
327	18.0	4.6	81
105	17.2	1.9	74
105	17.2	1.9	74
96	16.8	2.3	89
96	16.8	2.3	89
182	14.9	2.5	78
182	14.9	2.5	78

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
127	14.9	3.0	102
127	14.9	3.0	102
279	14.3	5.5	17
279	14.3	5.5	17
195	12.7	1.3	42
195	12.7	1.3	42
239	12.0	2.5	78
239	12.0	2.5	78
205	11.2	4.1	76
205	11.2	4.1	76
98	9.8	3.1	64
98	9.8	3.1	64
206	8.2	3.1	124
206	8.2	3.1	124
50	8.0	2.1	41
50	8.0	2.1	41
128	7.8	2.7	114
128	7.8	2.7	114
312	6.1	2.0	82
312	6.1	2.0	82
2	5.8	1.9	39
2	5.8	1.9	39
77	5.8	3.0	68
77	5.8	3.0	68
7	5.6	1.8	55
7	5.6	1.8	55
208	5.5	2.7	66
208	5.5	2.7	66
8	5.5	0.9	55
8	5.5	0.9	55
267	5.4	2.0	60
267	5.4	2.0	60
94	5.3	3.5	89
94	5.3	3.5	89
126	5.3	4.0	89
126	5.3	4.0	89
185	4.2	2.0	68
185	4.2	2.0	68
225	4.1	2.0	85
225	4.1	2.0	85
246	4.0	2.5	99
246	4.0	2.5	99
218	3.9	2.5	62
218	3.9	2.5	62
275	3.8	2.8	57
275	3.8	2.8	57
284	3.6	5.5	66
284	3.6	5.5	66

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
56	3.5	1.2	39
56	3.5	1.2	39
293	3.4	2.5	110
293	3.4	2.5	110
292	2.7	4.0	68
292	2.7	4.0	68
139	2.6	4.0	115
139	2.6	4.0	115
232	2.4	0.7	41
232	2.4	0.7	41
178	2.3	3.0	81
178	2.3	3.0	81
124	2.3	3.0	90
124	2.3	3.0	90
316	2.2	3.5	71
316	2.2	3.5	71
308	2.1	3.5	102
308	2.1	3.5	102
81	2.1	1.2	42
81	2.1	1.2	42
304	2.1	1.8	59
304	2.1	1.8	59
28	2.1	3.0	140
28	2.1	3.0	140
151	1.8	1.5	52
151	1.8	1.5	52
223	1.7	2.5	79
223	1.7	2.5	79
295	1.7	2.5	88
295	1.7	2.5	88
61	1.7	1.3	62
61	1.7	1.3	62
87	1.7	0.6	44
87	1.7	0.6	44
100	1.1	1.5	79
100	1.1	1.5	79
129	1.1	1.5	169
129	1.1	1.5	169
301	1.1	1.5	79
301	1.1	1.5	79
147	1.1	1.5	115
147	1.1	1.5	115
259	1.0	1.5	105
259	1.0	1.5	105
121	0.9	1.3	56
121	0.9	1.3	56
190	0.7	0.3	28
190	0.7	0.3	28

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
134	5656.1	1.8	96
99	4075.0	1.3	58
332	3784.3	1.4	62
210	2396.3	1.2	47
329	884.6	2.1	62
95	750.8	1.4	49
96	652.9	1.8	89
135	546.7	1.3	66
94	439.8	1.6	89
330	380.6	1.9	71
127	316.3	1.6	102
331	298.8	1.5	59
191	298.1	1.0	44
12	209.8	1.7	59
50	152.4	1.8	41
71	143.7	1.4	42
184	125.2	0.5	43
204	124.4	1.8	58
22	117.0	0.9	46
98	111.0	1.4	64
52	108.7	2.6	58
208	99.7	1.6	66
74	94.9	1.7	69
327	83.1	1.7	81
93	81.5	1.3	105
8	66.4	1.1	55
7	58.1	1.3	55
77	40.4	1.3	68
132	38.9	1.6	108
205	37.8	1.6	76
87	28.1	1.0	44
16	26.2	1.4	119
90	24.1	1.2	100
4	20.8	1.6	43
211	19.0	1.6	62
70	15.6	1.4	44
6	14.4	1.3	76
124	11.3	1.5	90
97	11.0	1.5	98
305	10.1	1.2	56
206	9.9	1.5	124
81	8.4	0.9	42
207	7.9	1.4	124
128	7.8	1.6	114
259	7.7	1.2	105
131	7.4	1.3	129
100	5.2	0.9	79
23	4.9	1.0	48

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
182	4.6	1.8	78
126	4.3	1.3	89
11	3.6	0.8	43
316	3.2	2.5	71
218	3.1	2.0	62
2	3.1	1.0	39
133	2.8	1.3	138
89	2.7	1.3	79
326	2.7	1.3	114
321	2.7	2.3	81
31	2.6	1.8	77
261	2.2	1.0	90
139	2.0	1.0	115
32	1.9	2.5	47
17	1.9	1.4	69
140	1.8	0.5	48
263	1.7	1.0	63
56	1.7	1.7	39
1	1.6	2.0	122
27	1.6	1.3	69
123	1.4	2.0	52
245	1.3	1.0	70
213	1.3	2.0	44
197	1.1	0.7	90
91	1.1	1.5	80
151	1.1	1.8	52
28	1.0	1.5	140
249	1.0	1.0	80
296	1.0	1.5	138
116	0.9	1.0	65
156	0.8	0.3	51
147	0.7	1.0	115
138	0.7	1.0	129
267	0.7	0.5	60
250	0.6	1.0	91
325	0.6	1.0	128
317	0.6	1.0	75
286	0.4	0.7	85
215	0.4	0.7	69
209	0.4	0.6	35
38	0.2	0.3	53
169	0.2	0.2	39
190	0.1	0.2	28
252	0.1	0.2	99
10	0.1	0.1	35

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
15	323.7	5.9	184
92	151.4	7.6	202
125	61.0	7.2	174
333	50.3	5.9	207
129	36.8	8.3	169
297	31.1	11.8	175
2	22.4	3.1	39
21	19.8	3.3	199
30	13.8	4.3	210
273	9.4	16.0	113
298	5.7	9.0	168
256	4.0	5.5	241

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SIDESTRIPE SHRIMP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
170	13.9	0.0	112
309	7.7	0.0	105
269	5.9	0.0	101
171	5.5	0.0	115
277	5.4	0.0	98
311	5.0	0.0	101
137	4.8	0.0	133
273	4.7	0.0	113
162	4.6	0.0	140
167	4.4	0.0	131
143	4.0	0.0	116
149	3.1	0.0	149
278	2.8	0.0	100
138	2.4	0.0	129
307	2.3	0.0	96
276	2.1	0.0	109
314	2.0	0.1	126
159	2.0	0.0	166
163	1.9	0.0	146
139	1.6	0.0	115
246	1.6	0.0	99
265	1.4	0.0	82
268	1.3	0.0	99
319	1.3	0.0	124
160	1.2	0.0	164
161	1.2	0.0	132
103	1.1	0.0	92
294	1.0	0.1	109
227	1.0	0.1	89
157	0.9	0.0	115
300	0.9	0.0	132
101	0.7	0.0	96
125	0.7	0.0	174
320	0.6	0.0	94
266	0.4	0.0	76
158	0.4	0.0	106
131	0.4	0.0	129
207	0.3	0.0	124
252	0.3	0.0	99
102	0.2	0.0	101
292	0.2	0.0	68
226	0.1	0.0	80
251	0.1	0.0	97
148	0.1	0.0	107
30	0.1	0.1	210
100	0.1	0.0	79
96	0.1	0.1	89
142	0.1	0.1	107

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES SIDESTRIPE SHRIMP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
147	0.1	0.0	115
92	0.1	0.0	202
28	0.1	0.1	140
133	0.1	0.0	138
150	0.1	0.0	95
298	0.1	0.1	168
152	0.1	0.0	96
281	0.1	0.0	63
308	0.1	0.0	102

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES BROAD SNOW CRAB (=TANNER CRAB)

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
178	452.3	1.1	81
167	10.1	0.4	131
171	6.5	0.2	115
162	6.2	1.1	140
177	5.7	0.1	49
173	4.7	0.9	107
172	4.5	0.2	106
160	4.4	0.5	164
170	3.8	0.5	112
116	3.4	1.3	65
103	2.9	0.5	92
58	2.7	0.6	75
176	2.3	0.0	50
187	1.9	0.2	74
175	1.3	0.1	52
163	1.0	0.5	146
263	0.9	0.2	63
149	0.7	0.5	149
229	0.7	1.0	94
250	0.6	1.0	91
67	0.6	0.2	47
161	0.6	1.0	132
61	0.5	0.4	62
69	0.5	0.8	22
104	0.3	0.3	67
264	0.3	0.1	48
7	0.2	0.3	55
226	0.2	0.0	80
216	0.2	0.3	62
119	0.2	0.1	70
166	0.2	0.1	12
219	0.2	0.0	77
108	0.2	0.1	83
115	0.1	0.1	42
266	0.1	0.0	76
275	0.1	0.1	57
265	0.1	0.1	82
183	0.1	0.0	79
227	0.1	0.1	89
269	0.1	0.1	101
60	0.1	0.1	81
10	0.1	0.1	35
28	0.1	0.1	140
109	0.1	0.0	58
65	0.1	0.1	21
223	0.1	0.1	79
311	0.1	0.1	101
57	0.1	0.0	78

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES BROAD SNOW CRAB (=TANNER CRAB)

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
76	0.1	0.0	69
5	0.1	0.1	46
182	0.1	0.0	78
159	0.1	0.0	166
274	0.1	0.1	59
152	0.1	0.1	96
272	0.1	0.0	57
320	0.1	0.1	94
157	0.1	0.1	115
271	0.1	0.1	66

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ARGOSY

SPECIES WEATHERVANE SCALLOP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
226	5.9	0.6	80
178	5.3	0.7	81
177	3.4	0.9	49
68	2.7	1.0	22
67	2.3	0.7	47
339	1.9	0.3	38
183	1.3	1.0	79
285	0.7	0.3	38
83	0.7	0.9	40
192	0.5	0.7	47
199	0.5	0.5	40
282	0.5	0.7	70
104	0.4	0.6	67
275	0.3	0.5	57

Section 2

Fishing Log for the F/V *Alsea/Progress*

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

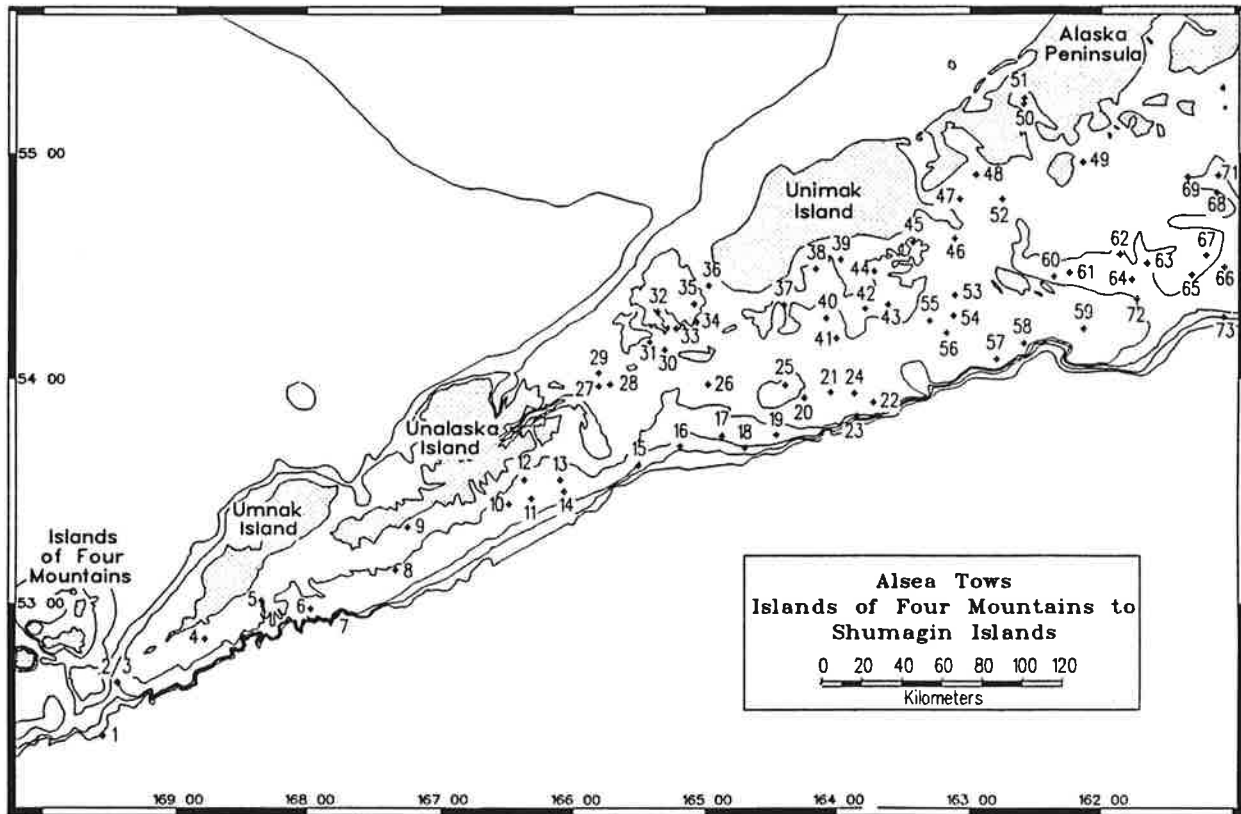


Figure 5. --Stations surveyed by the chartered trawler Alsea between Islands of Four Mountains and the Shumagin Islands

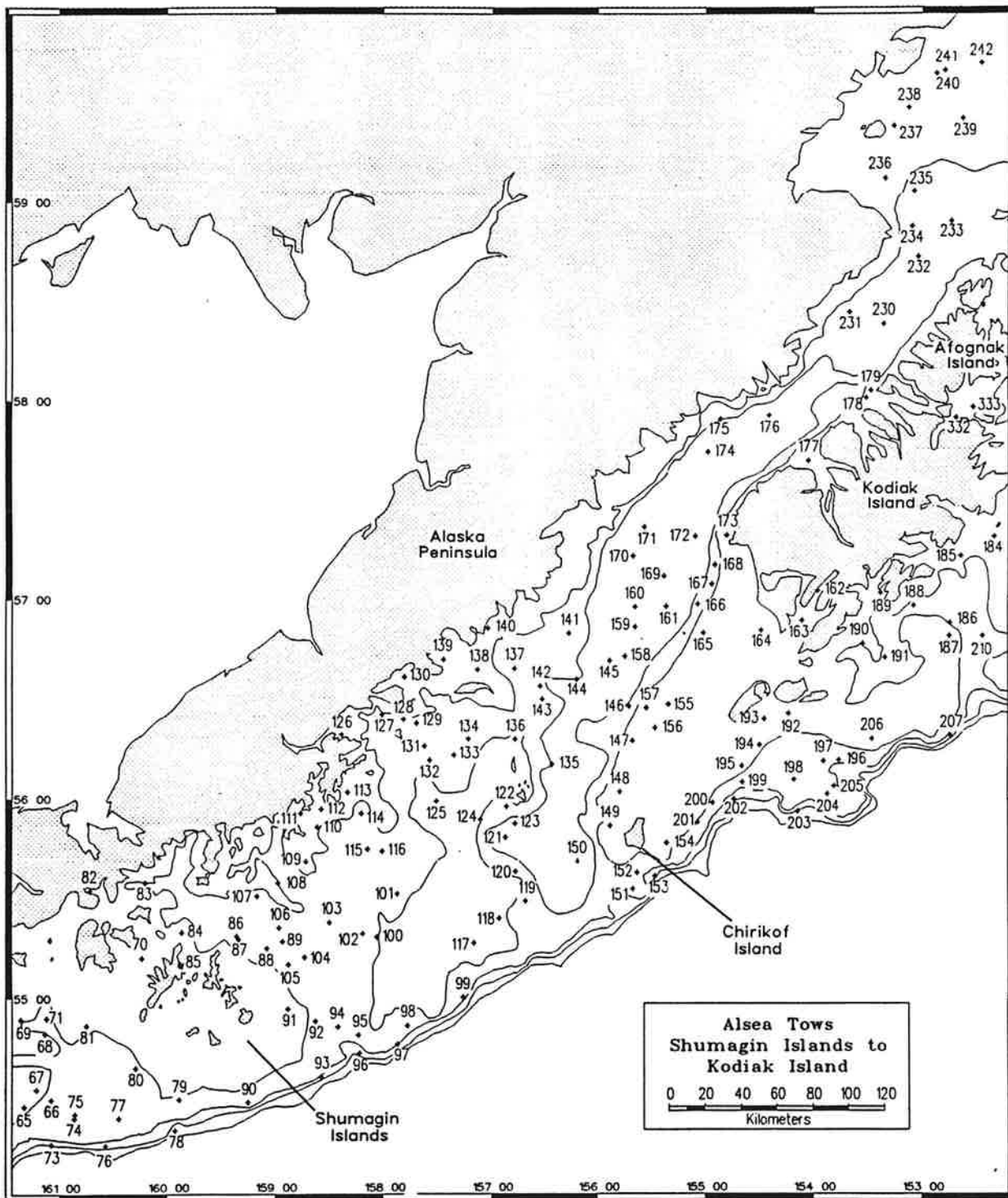


Figure 6. --Stations surveyed by the chartered trawler Alsea between the Shumagin Islands and Kodiak Island.

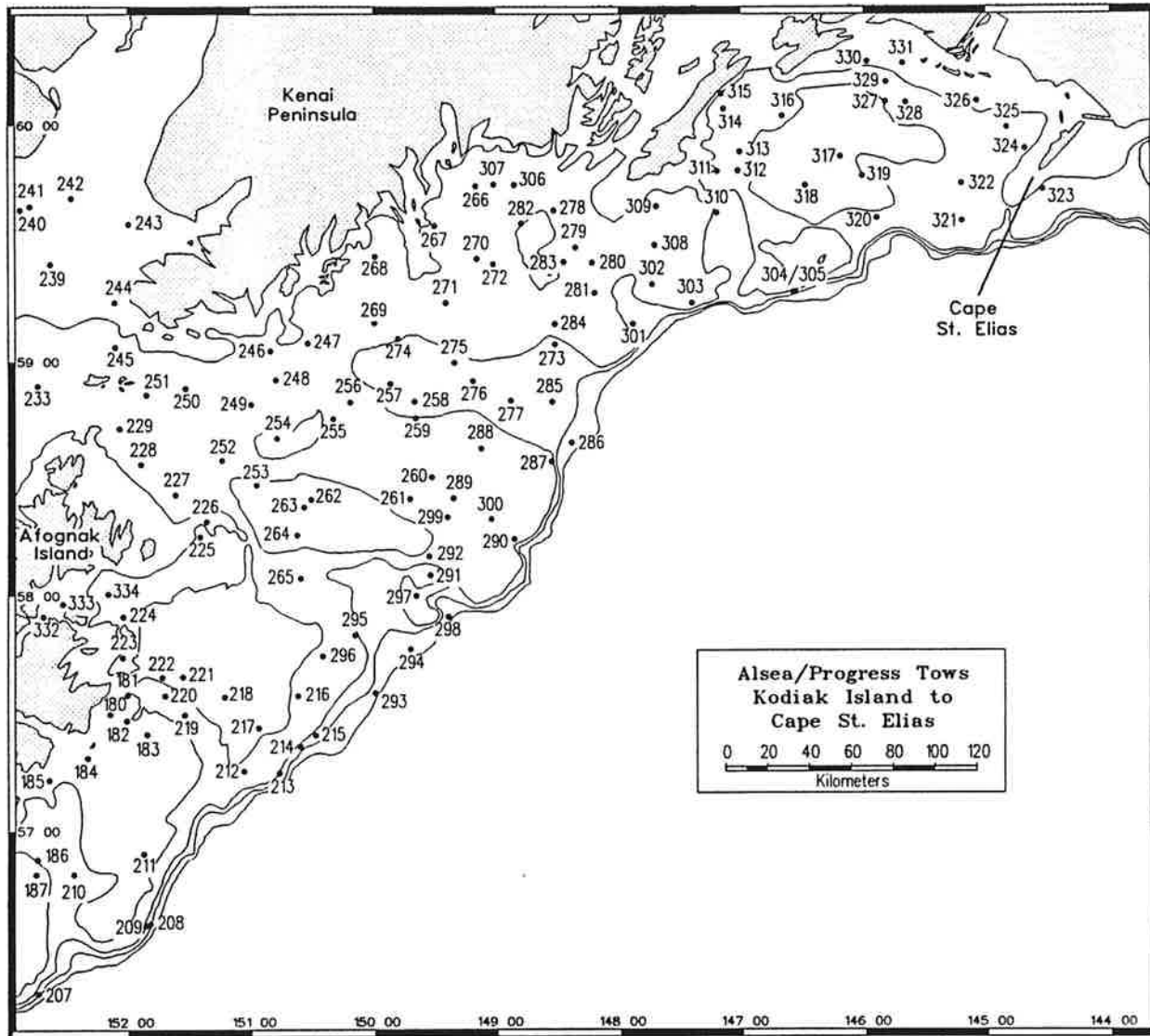


Figure 7. --Stations surveyed by the chartered trawlers Alsea and Progress between Kodiak Island and Cape St. Elias.

Section 2 (continued)

Fishing Log for the F/V *Alsea/Progress*

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

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	6/ 5/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 6/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 7/93	6/ 8/93	6/ 8/93
LATITUDE START	52 25.1	52 38.5	52 39.6	52 50.6	53 0.8	52 58.7	52 57.0	53 9.1	53 20.5	53 27.1	53 28.1
LONGITUDE START	169 32.6	169 25.5	169 26.2	168 48.3	168 22.2	167 59.8	167 48.5	167 21.4	167 15.9	166 28.0	166 20.5
LATITUDE END	52 25.1	52 39.8	52 38.9	52 50.9	53 1.2	52 58.6	52 57.3	53 9.0	53 20.5	53 26.0	53 28.3
LONGITUDE END	169 32.6	169 26.5	169 26.1	168 45.8	168 19.8	167 57.1	167 47.0	167 18.9	167 13.6	166 30.0	166 17.9
LORAN START			17105.00	17287.20	17416.70	17477.90	17490.30	17617.20	17688.90	17819.20	17839.50
LORAN START			48952.10	48842.90	48768.80	48677.80	48613.30	48528.30	48532.60	48318.20	48282.70
LORAN END			17102.00	17295.10	17425.60	17473.80	17493.30	17622.90	17694.00	17810.30	17844.80
LORAN END			48950.00	48834.40	48759.70	48657.70	48610.60	48517.10	48522.10	48325.40	48270.40
GEAR DEPTH	186	135	136	46	52	62	202	57	36	67	70
DURATION IN HOURS	0.25	0.60	0.19	0.50	0.50	0.53	0.30	0.50	0.45	0.50	0.50
DISTANCE FISHED	0.00	1.43	0.76	1.54	1.50	1.63	0.92	1.50	1.40	1.59	1.59
PERFORMANCE / GEAR	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	5 /172	7 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	27.0	10.2	10.9	74.4	583.5	12.7	3.6	0.3	63.5	197.5
PACIFIC COD	0.0	58.1	13.4	66.2	93.9	62.1	5.7	0.0	14.5	38.1	118.2
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	1254.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	8.7	5.0	15.4	15.0	0.0	0.0	0.0	0.0	0.0	0.5
ARROWTOOTH FL	0.0	26.8	1.6	68.9	29.5	13.6	14.5	1.8	13.6	88.5	31.1
HALIBUT	0.0	0.0	0.0	62.8	49.9	25.8	3.8	0.0	16.3	25.6	77.4
FLATHEAD SOLE	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	10.4	0.5
ROCK SOLE	0.0	0.0	0.0	57.2	30.8	22.2	0.0	1.4	65.3	7.3	10.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	6.8	4.8	7.5	0.1	0.0	90.3	33.6	0.0	0.0	1.4
ROUGHEYE RKFH	0.0	3.6	0.7	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	65.8	0.0	0.0	0.0	0.8	0.0	0.0	3.2
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	177.8	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	2.3	0.0	0.0	0.0	1.1	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	0.0	131.0	35.9	1611.2	300.1	707.2	328.7	42.3	110.8	233.4	439.8

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	6/ 8/93	6/ 8/93	6/ 8/93	6/ 8/93	6/ 9/93	6/ 9/93	6/ 9/93	6/ 9/93	6/ 9/93	6/ 9/93	6/10/93
LATITUDE START	53 32.9	53 33.9	53 29.9	53 36.4	53 41.6	53 44.7	53 41.6	53 45.4	53 54.1	53 56.3	53 53.9
LONGITUDE START	166 23.7	166 5.7	166 5.5	165 30.8	165 12.0	164 53.3	164 43.0	164 28.6	164 14.5	164 4.1	163 43.5
LATITUDE END	53 33.1	53 32.3	53 29.9	53 37.7	53 42.6	53 44.9	53 41.6	53 44.8	53 55.8	53 56.7	53 53.9
LONGITUDE END	166 20.9	166 6.4	166 3.2	165 29.5	165 10.5	164 51.0	164 40.4	164 26.3	164 14.9	164 1.7	163 43.5
LORAN START	17857.00	17894.00	17875.40	17962.80	18013.80	18052.50	18052.60	18086.50	18138.00	18157.60	18169.40
LORAN START	48309.10	48221.30	48212.20	48046.20	47955.30	47859.20	47798.60	47725.00	47657.30	47600.40	47481.40
LORAN END	17862.70	17885.00	17879.70	17970.40	18020.40	18056.40	18056.50	18086.90	18143.80	18161.90	18169.50
LORAN END	48295.80	48221.70	48200.70	48041.90	47948.90	47847.20	47784.90	47711.40	47661.30	47587.10	47480.80
GEAR DEPTH	57	60	75	137	169	86	128	68	49	40	44
DURATION IN HOURS	0.53	0.50	0.51	0.50	0.49	0.51	0.51	0.50	0.50	0.50	0.08
DISTANCE FISHED	1.68	1.67	1.37	1.49	1.35	1.36	1.52	1.53	1.63	1.50	0.04
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172
POLLOCK	3.6	12.2	740.0	6.8	5.0	311.2	0.5	889.0	911.7	0.0	56.0
PACIFIC COD	19.7	282.4	94.3	2.5	0.0	25.4	7.3	105.7	415.3	44.2	1.6
SABLEFISH	0.0	0.0	0.0	19.3	12.7	3.6	52.2	7.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	1.6	1.1
SCULPINS	0.0	0.7	0.0	0.1	4.5	0.1	17.0	1.6	0.0	8.0	0.5
ARROWTOOTH FL	486.9	210.7	184.8	11.1	29.0	36.3	17.7	195.5	467.2	8.2	0.0
HALIBUT	27.4	21.9	0.0	2.7	0.0	2.0	0.0	18.1	87.8	132.6	0.0
FLATHEAD SOLE	0.0	0.0	4.3	0.3	0.5	0.0	4.5	0.0	24.9	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	1.4	0.0	7.3	5.2	30.4	5.0	21.3	5.2	0.0	0.0	0.0
ROCK SOLE	21.5	25.4	23.1	0.0	0.0	0.0	0.0	75.3	82.7	9.5	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	1.4	0.0	71.2	7.3	0.0	63.5	10.9	0.0	0.2	1.1
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	12.2	0.0	0.7	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	3.6	17.7	0.0	13.6	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	2.7	0.5	1.4	0.0	0.7	1.4	6.8	0.0	0.0	49.9
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	11.3
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	560.5	557.4	1054.3	125.1	134.5	384.3	199.7	1315.1	2018.2	204.3	144.0

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	6/10/93	6/10/93	6/10/93	6/10/93	6/11/93	6/11/93	6/11/93	6/11/93	6/11/93	6/12/93	6/12/93
LATITUDE START	53 50.4	53 56.0	53 58.4	53 58.6	53 58.2	53 58.9	54 2.3	54 7.2	54 10.0	54 17.2	54 13.0
LONGITUDE START	163 52.6	163 53.5	164 22.0	165 0.0	165 47.1	165 41.8	165 49.5	165 17.6	165 26.6	165 21.0	165 11.9
LATITUDE END	53 50.1	53 56.6	53 58.4	53 58.7	53 58.1	53 58.3	54 1.0	54 8.4	54 9.7	54 18.5	54 14.0
LONGITUDE END	163 49.8	163 51.0	164 24.5	164 57.4	165 49.6	165 44.5	165 47.3	165 19.0	165 23.7	165 21.8	165 14.1
LORAN START	18147.30	18167.50	18146.50	18102.80	18036.70	18047.50	18051.60	18117.90	18118.40	18157.30	18149.80
LORAN START	47529.00	47539.80	47704.40	47916.30	48173.10	48146.20	48193.40	48027.90	48082.50	48065.30	48006.60
LORAN END	18149.00	18172.10	18143.60	18106.20	18032.20	18040.90	18049.00	18121.40	18120.80	18162.00	18151.40
LORAN END	47513.50	47526.40	47718.40	47902.40	48186.00	48158.90	48179.30	48038.10	48065.90	48072.50	48020.50
GEAR DEPTH	51	44	59	48	44	52	44	35	33	43	37
DURATION IN HOURS	0.50	0.50	0.50	0.49	0.50	0.50	0.51	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.64	1.56	1.50	1.53	1.50	1.68	1.77	1.53	1.76	1.42	1.63
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	1 /172	1 /172	0 /172	0 /172	1 /172	1 /172	0 /172
POLLOCK	3.4	4.5	2.5	0.0	0.0	0.7	0.0	0.0	0.0	2.0	0.0
PACIFIC COD	72.6	42.6	88.5	12.5	4.5	488.1	4.1	2.3	45.4	100.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	3.6	0.1	2.3	0.0	0.0	8.6	0.0	0.0	0.0	12.0	3.2
SCULPINS	1.8	0.5	0.0	1.8	0.1	6.5	19.1	2.2	225.0	222.9	40.4
ARROWTOOTH FL	16.3	33.8	63.0	17.5	2.7	61.7	9.5	0.0	0.0	1.4	0.0
HALIBUT	44.8	24.4	80.6	86.8	116.7	97.1	243.4	251.2	24.0	166.6	82.1
FLATHEAD SOLE	0.0	18.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	27.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	23.6	48.5	5.4	120.0	10.2	73.3	112.3	47.6	16.3	103.9	10.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	1.8	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	12.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	12.0	0.0
HARLEQUIN RKFH	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	182.4	178.7	272.2	239.3	134.2	740.6	388.4	303.3	310.7	621.0	135.7

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	6/12/93	6/12/93	6/12/93	6/12/93	6/12/93	6/13/93	6/13/93	6/13/93	6/13/93	6/13/93	6/13/93
LATITUDE START	54 14.6	54 19.1	54 24.4	54 19.4	54 30.0	54 31.7	54 16.1	54 11.4	54 18.3	54 19.3	54 28.5
LONGITUDE START	165 2.9	165 4.6	164 57.4	164 22.8	164 8.7	163 59.5	164 3.5	164 1.2	163 46.2	163 38.0	163 42.1
LATITUDE END	54 15.8	54 20.5	54 25.3	54 19.6	54 28.6	54 32.1	54 16.1	54 10.4	54 19.0	54 20.1	54 28.7
LONGITUDE END	165 4.7	165 5.4	164 59.4	164 25.3	164 10.2	163 57.0	164 6.1	163 59.3	163 48.6	163 36.0	163 44.7
LORAN START	18167.00	18184.30	18214.20	18227.70	18282.70	18296.70	18233.30	18218.00	18257.70	18268.20	18298.80
LORAN START	47958.30	47975.40	47943.40	47733.80	47662.80	47609.70	47617.60	47598.50	47518.90	47471.10	47503.50
LORAN END	18170.10	18189.40	18215.80	18226.30	18276.60	18299.90	18230.70	18216.00	18258.10	18272.70	18297.40
LORAN END	47970.30	47982.50	47956.20	47748.40	47670.80	47595.30	47632.70	47586.80	47533.30	47460.10	47519.10
GEAR DEPTH	48	73	38	54	57	45	38	40	61	61	56
DURATION IN HOURS	0.50	0.50	0.50	0.48	0.50	0.50	0.50	0.50	0.49	0.49	0.50
DISTANCE FISHED	1.59	1.50	1.44	1.50	1.73	1.49	1.55	1.49	1.51	1.42	1.52
PERFORMANCE / GEAR	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172
POLLOCK	0.0	0.0	0.0	28.3	684.2	29.9	3075.0	0.8	2701.4	698.1	1090.9
PACIFIC COD	285.3	357.9	0.0	213.9	12.9	232.2	175.3	0.1	84.8	31.8	93.2
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	39.3	62.8	0.1	1.8	8.2	10.4	0.0	0.0	0.3	0.0	2.7
ARROWTOOTH FL	0.0	291.7	0.0	132.9	158.3	254.2	7.2	10.2	218.2	375.1	137.0
HALIBUT	449.1	30.1	572.3	61.4	36.7	106.1	211.3	183.5	49.9	20.9	167.8
FLATHEAD SOLE	0.0	731.6	0.0	18.1	120.4	72.6	0.0	6.8	55.3	59.9	5.7
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
REX SOLE	0.0	0.0	0.0	0.0	1.8	0.1	0.0	0.0	10.4	18.4	0.0
ROCK SOLE	10.7	14.1	37.2	70.5	55.6	271.5	64.3	37.2	0.4	1.1	42.2
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	4.1	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	785.1	1488.2	609.6	526.9	1078.1	981.1	3533.5	238.6	3120.7	1206.0	1540.4

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	6/13/93	6/14/93	6/14/93	6/14/93	6/14/93	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93
LATITUDE START	54 35.9	54 37.5	54 47.7	54 53.5	54 57.4	55 13.7	55 14.7	54 48.3	54 21.6	54 16.1	54 15.8
LONGITUDE START	163 26.2	163 7.8	163 5.5	162 57.0	162 7.4	162 36.2	162 34.1	162 46.0	163 6.7	163 6.8	163 19.0
LATITUDE END	54 36.9	54 37.3	54 48.0	54 54.9	54 58.0	55 12.5	55 14.6	54 47.1	54 23.1	54 17.4	54 15.0
LONGITUDE END	163 25.1	163 5.7	163 3.0	162 57.5	162 9.8	162 34.5	162 36.6	162 44.7	163 6.6	163 7.5	163 17.1
LORAN START	18335.50	18353.70	18389.60	18412.50	18448.60	18481.60	18485.00	18402.60	18300.80	18282.20	18271.30
LORAN START	47412.30	47302.00	47293.80	47245.10	46936.90	47121.40	47109.30	47174.00	47286.50	47284.60	47356.60
LORAN END	18340.00	18354.30	18392.10	18416.50	18449.10	18478.80	18483.80	18399.70	18305.70	18285.90	18270.50
LORAN END	47406.40	47289.70	47278.60	47249.40	46951.80	47111.30	47124.70	47166.20	47287.40	47289.50	47344.50
GEAR DEPTH	55	49	24	61	45	31	15	36	29	35	38
DURATION IN HOURS	0.43	0.43	0.50	0.50	0.50	0.50	0.51	0.47	0.50	0.43	0.50
DISTANCE FISHED	1.17	1.21	1.49	1.40	1.53	1.56	1.44	1.41	1.52	1.30	1.39
PERFORMANCE / GEAR	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	174.0	13.4	0.0	192.3	497.1	32.4	0.0	1.8	0.0	0.0	0.9
PACIFIC COD	117.9	258.8	0.0	255.8	40.4	148.8	263.5	21.8	239.7	38.6	197.5
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	38.6	103.9	11.8	44.6	24.6	13.7	4.3	3.0	20.4	0.2	10.4
ARROWTOOTH FL	184.8	111.1	0.0	59.1	29.5	0.5	0.2	83.5	0.0	4.5	5.2
HALIBUT	90.3	58.8	424.6	20.2	62.6	31.3	94.9	5.0	347.0	116.1	86.7
FLATHEAD SOLE	39.5	20.4	0.0	611.9	218.4	149.9	1.8	37.4	0.0	18.6	4.5
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5
ROCK SOLE	145.4	144.0	207.7	52.6	25.9	20.0	247.4	165.8	212.5	129.7	76.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	179.2	19.7	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.4	0.0	0.0	1460.3	303.5	672.0	552.7	20.4	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.9	2.3	0.0	0.0	0.0	4.5	0.9	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	3.6	2.3	3.9	1.4	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	184.6	0.1	1.5	0.1	0.1	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	791.6	715.4	644.1	2886.4	1208.0	1252.7	1188.5	340.3	824.1	308.6	381.7

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	6/16/93	6/16/93	6/16/93	6/16/93	6/17/93	6/17/93	6/17/93	6/17/93	6/17/93	6/17/93	6/18/93
LATITUDE START	54 12.8	54 4.8	54 9.9	54 13.9	54 27.8	54 28.0	54 33.9	54 31.5	54 25.8	54 27.5	54 30.0
LONGITUDE START	163 11.4	162 48.5	162 36.5	162 9.2	162 22.4	162 13.5	161 52.2	161 39.5	161 45.7	161 28.1	161 5.3
LATITUDE END	54 11.7	54 5.7	54 9.2	54 12.9	54 26.5	54 28.4	54 32.3	54 30.1	54 26.8	54 27.8	54 29.5
LONGITUDE END	163 9.7	162 47.4	162 34.4	162 7.7	162 20.9	162 15.8	161 51.7	161 39.4	161 47.3	161 20.1	161 3.0
LORAN START	18267.00	18258.30	18284.30	18316.40	18351.90	18358.20	18388.20	18388.10	18368.50	18388.00	18401.50
LORAN START	47309.30	47171.00	47102.40	46941.50	47023.40	46970.70	46841.30	46764.70	46802.80	46633.40	46556.80
LORAN END	18264.70	18262.50	18283.40	18314.10	18348.80	18358.10	18383.80	18384.30	18370.30	18387.90	18401.50
LORAN END	47298.70	47164.90	47089.90	46932.60	47014.50	46984.60	46838.60	46764.40	46812.40	46648.10	46543.00
GEAR DEPTH	42	45	45	43	79	80	79	44	83	64	70
DURATION IN HOURS	0.50	0.46	0.51	0.49	0.52	0.51	0.50	0.45	0.50	0.50	0.50
DISTANCE FISHED	1.46	1.18	1.43	1.33	1.58	1.42	1.62	1.38	1.36	1.20	1.43
PERFORMANCE / GEAR	0 /172	7 /172	0 /172	7 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	2.0	4.5	0.1	49.4	29.3	67.1	2.3	4.1	104.8	20.4
PACIFIC COD	35.8	26.3	49.0	1.8	34.0	28.1	109.5	13.6	51.3	34.0	39.7
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	0.0
ATKA MACKEREL	8.2	3.4	0.0	0.1	1.4	2.3	5.4	0.0	0.0	2.7	0.0
SCULPINS	0.5	1.1	4.7	0.0	0.0	0.0	0.6	0.0	0.0	1.4	0.0
ARROWTOOTH FL	6.4	0.0	2.0	0.0	217.7	315.7	205.9	32.2	136.1	731.9	255.4
HALIBUT	75.3	36.2	112.1	0.0	21.6	70.9	18.5	101.6	62.9	15.9	53.0
FLATHEAD SOLE	81.2	1.6	0.0	0.0	106.6	54.7	42.2	3.6	13.6	55.3	0.9
DOVER SOLE	0.0	0.0	0.0	0.0	1.4	2.9	4.5	0.0	0.9	2.7	3.6
REX SOLE	0.0	0.0	0.0	0.0	5.2	2.3	8.6	0.0	11.8	39.0	23.1
ROCK SOLE	153.8	2.7	20.0	0.1	2.4	0.0	0.0	52.2	0.1	16.3	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.7	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	221.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.9	0.0
ROUGHY RKFH	0.0	0.0	0.0	0.0	1.8	6.4	5.4	0.0	81.6	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	1028.5	0.0	2.3	0.0	0.0	0.0	0.0	0.0	24.5	2.5
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	251.7	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.2	5.2	0.4	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	361.2	1606.8	192.3	14.4	441.8	518.6	469.0	205.5	363.3	1031.0	398.6

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	6/18/93	6/18/93	6/18/93	6/20/93	6/20/93	6/20/93	6/21/93	6/21/93	6/21/93	6/21/93	6/22/93
LATITUDE START	54 33.5	54 49.8	54 53.7	55 12.8	54 53.6	54 20.7	54 16.3	54 24.0	54 24.5	54 16.3	54 24.9
LONGITUDE START	161 13.3	161 6.4	161 21.2	160 13.2	161 8.0	161 45.2	161 5.5	160 51.6	160 51.4	160 35.4	160 26.5
LATITUDE END	54 32.4	54 49.2	0 0.0	55 11.4	54 54.6	54 21.7	54 16.5	54 24.0	54 26.1	54 15.7	54 23.3
LONGITUDE END	161 11.5	161 8.9	0 0.0	160 15.0	161 5.8	161 43.2	161 3.1	160 51.6	160 50.9	160 33.3	160 26.8
LORAN START	18407.20	18453.90	18457.80	18527.10	18462.80	18353.50	18363.90		18394.00	18379.90	18406.90
LORAN START	46604.50	46556.90	46647.60	46212.40	46565.70	46799.50	46562.00		46475.40	46383.40	46325.50
LORAN END	18404.90	18451.30		18523.70	18466.20	18357.60	18365.60		18398.40	18379.30	18402.80
LORAN END	46594.00	46572.40		46224.40	46551.70	46786.90	46547.60		46471.40	46370.40	46327.70
GEAR DEPTH	67	60	75	107	62	79	184	61	60	123	73
DURATION IN HOURS	0.50	0.52	0.48	0.28	0.50	0.50	0.50	0.50	0.50	0.47	0.50
DISTANCE FISHED	1.52	1.55	1.44	1.70	1.59	1.53	1.40	0.00	1.61	1.42	1.68
PERFORMANCE / GEAR	0 /172	0 /172	1 /172	1 /172	0 /172	0 /172	0 /172	5 /172	0 /172	1 /172	0 /172
POLLOCK	3.6	33.1	28.6	45.1	371.5	4.1	2.3	0.0	2.3	41.3	15.4
PACIFIC COD	10.9	2.9	15.4	171.0	6.8	23.6	0.0	0.0	24.7	51.3	43.1
SABLEFISH	2.0	0.0	0.0	0.0	0.0	2.3	55.1	0.0	0.0	202.5	3.6
ATKA MACKEREL	0.9	0.0	0.0	0.0	0.0	2.5	0.0	0.0	2.9	0.0	0.0
SCULPINS	0.0	0.7	1.2	18.1	1.1	0.0	0.7	0.0	0.0	3.8	0.0
ARROWTOOTH FL	298.5	381.0	376.5	112.5	414.1	185.5	70.3	0.0	335.7	76.2	71.7
HALIBUT	42.0	33.0	2.3	5.9	25.6	22.8	28.5	0.0	15.6	27.5	10.6
FLATHEAD SOLE	21.8	43.5	140.6	15.9	97.5	22.2	0.0	0.0	47.6	0.8	1.1
DOVER SOLE	1.8	0.0	0.0	1.6	0.0	1.6	75.1	0.0	0.0	3.2	2.3
REX SOLE	27.0	0.0	2.7	0.0	0.1	23.1	7.7	0.0	3.2	0.8	55.3
ROCK SOLE	2.5	3.4	2.0	3.4	4.1	0.0	0.0	0.0	57.2	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.8	0.5
ROUGHEYE RKFH	0.0	0.0	1.1	0.0	0.0	0.0	24.0	0.0	0.0	2.3	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	89.4	0.0	0.0	7.7	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
TANNER CRAB	0.0	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	411.0	497.7	570.7	374.4	922.9	287.8	377.0	0.0	489.2	603.5	208.1

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	6/22/93	6/22/93	6/22/93	6/22/93	6/23/93	6/23/93	6/23/93	6/23/93	6/26/93	6/26/93	6/26/93
LATITUDE START	54 20.5	54 29.7	54 38.8	54 52.2	55 32.4	55 34.6	55 19.8	55 9.9	55 18.4	55 18.2	55 14.3
LONGITUDE START	159 54.1	159 54.3	160 18.5	160 45.9	160 44.2	160 13.5	159 50.9	159 52.8	159 20.6	159 20.9	159 4.3
LATITUDE END	54 20.5	54 29.9	54 39.4	54 51.5	55 32.1	55 34.3	55 19.8	55 10.6	55 18.7	55 17.1	55 15.8
LONGITUDE END	159 56.9	159 52.0	160 16.5	160 43.8	160 41.6	160 11.0	159 52.8	159 52.6	159 21.3	159 18.7	159 4.1
LORAN START	18411.30	18434.00	18446.30	18468.10	18561.00	18572.90	18548.00	18526.70	18553.00	18551.90	18548.40
LORAN START	46134.80	46128.10	46267.80	46429.00	46399.70	46200.20	46066.60	46085.80	45879.10	45876.90	45777.60
LORAN END	18409.90	18435.50	18448.70	18467.20	18560.80	18572.80	18547.50	18528.60	18553.20	18550.40	18551.40
LORAN END	46151.80	46113.70	46255.20	46416.30	46382.80	46184.50	46078.80	46084.10	45880.00	45864.50	45774.80
GEAR DEPTH	161	65	60	50	16	101	59	50	111	107	107
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.49	0.46	0.32	0.25	0.10	0.50	0.50
DISTANCE FISHED	1.68	1.40	1.31	1.42	1.48	1.43	1.10	0.76	0.49	1.68	1.49
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	5 /172	0 /172	0 /172
POLLOCK	15.0	2.9	0.1	60.6	46.7	151.5	15.0	1294.6	0.0	64.9	51.6
PACIFIC COD	0.0	54.9	76.7	62.1	56.0	71.7	233.6	53.3	0.0	38.6	6.6
SABLEFISH	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	11.1
ATKA MACKEREL	1.8	4.1	38.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	7.2	0.1	0.0	1.3	12.2	6.2	6.8	11.0	0.0	12.4	0.2
ARROWTOOTH FL	22.7	913.5	616.9	523.2	60.4	811.4	133.1	152.0	0.0	483.9	596.6
HALIBUT	0.0	53.9	24.4	78.1	247.4	69.3	51.4	44.6	0.0	197.6	45.7
FLATHEAD SOLE	0.0	45.6	26.3	17.7	125.4	473.4	5.9	97.4	0.0	18.6	149.9
DOVER SOLE	16.3	7.3	9.1	0.0	0.0	2.4	0.0	0.0	0.0	24.0	2.3
REX SOLE	5.7	34.5	55.6	0.0	0.0	0.2	0.0	0.8	0.0	15.9	10.0
ROCK SOLE	0.0	0.0	2.3	44.5	5.3	0.4	32.2	27.1	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	81.1	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	1237.9	0.0	0.0	119.4	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	46.9	0.6	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	13.2	0.0	0.0	3.1	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.9	1.4	0.0	0.0	0.0	7.8	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3
ROUGHEYE RKFH	37.4	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.8
THORNYHEADS	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.0	0.0	4.3	1.6
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	7.2	1.3
SIDE STRIPE SHRIMP	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.1
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	186.2	1116.8	850.4	796.2	1932.5	1603.7	479.5	1811.1	0.0	883.7	879.1

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	6/26/93	6/27/93	6/27/93	6/27/93	6/28/93	6/28/93	6/28/93	6/28/93	6/29/93	6/29/93	6/29/93
LATITUDE START	55 17.6	54 28.7	54 57.3	54 53.8	54 36.2	54 52.0	54 49.7	54 43.7	54 45.6	54 51.4	55 1.0
LONGITUDE START	158 56.3	159 15.5	158 53.4	158 37.4	158 35.1	158 24.6	158 13.8	158 13.8	157 53.0	157 47.6	157 15.2
LATITUDE END	55 16.5	54 29.2	54 56.1	54 52.5	54 36.9	54 50.7	54 48.4	54 43.4	54 46.7	54 52.1	54 59.6
LONGITUDE END	158 54.8	159 13.6	158 52.3	158 37.2	158 33.2	158 25.3	158 13.6	158 12.3	157 51.4	157 45.5	157 16.2
LORAN START	18557.00	18447.70	18517.30	18514.90	18479.30	18515.00	18513.50	18501.80	18512.00	18524.40	18550.50
LORAN START	45723.70	45897.00	45730.10	45637.30	45647.60	45562.40	45501.50	45510.30	45384.30	45342.40	45133.80
LORAN END	18555.00	18449.70	18515.20	18512.20	18481.50	18512.20	18511.10	18501.60	18514.50	18526.30	18547.80
LORAN END	45715.60	45885.10	45724.50	45638.10	45634.90	45568.40	45501.80	45502.10	45372.80	45329.10	45142.10
GEAR DEPTH	108	99	45	72	141	100	104	140	173	82	95
DURATION IN HOURS	0.50	0.49	0.50	0.50	0.50	0.50	0.50	0.40	0.50	0.50	0.50
DISTANCE FISHED	1.41	1.22	1.33	1.36	1.33	1.40	1.29	0.92	1.46	1.38	1.50
PERFORMANCE / GEAR	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172
POLLOCK	24.7	8.4	0.1	0.7	63.0	8.6	2.7	1.2	0.6	0.6	0.0
PACIFIC COD	3.2	46.7	1.1	88.5	0.0	36.3	25.4	2.9	0.0	64.9	116.1
SABLEFISH	5.0	244.5	0.0	0.0	219.1	166.7	5.4	8.4	83.0	0.0	7.9
ATKA MACKEREL	0.0	3.6	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.2	0.3	0.1	0.0	0.7	6.4	0.0	7.9	1.6	0.0	0.0
ARROWTOOTH FL	131.5	303.7	2.1	621.9	161.3	126.6	161.0	345.0	72.6	2173.8	1277.5
HALIBUT	0.0	34.4	0.0	32.7	0.0	5.6	15.2	0.0	0.0	36.4	30.4
FLATHEAD SOLE	95.7	0.0	0.0	0.7	0.0	2.3	6.8	0.0	0.0	17.7	0.0
DOVER SOLE	3.9	18.6	0.0	0.7	22.2	1.4	6.4	1.9	42.4	49.9	18.8
REX SOLE	27.4	16.6	0.0	23.1	3.8	16.1	257.2	0.7	35.6	40.6	8.6
ROCK SOLE	0.0	0.0	0.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	79.4	1.8	0.0	25.4	2834.3	33.1	179.4	0.0	0.0	3.2
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	25.9	0.0	1.4	88.5	207.5	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	204.3	0.0	0.0	1.8	48.8	0.0	0.0
NORTHERN RKFH	0.0	24.9	0.5	1.6	0.0	47.6	9.1	0.5	0.0	0.0	1.6
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.2	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.7	0.0	1.6	18.1	0.0	0.0	0.0	1.1	0.0
HARLEQUIN RKFH	0.0	0.2	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.5
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.0	0.0	0.0	0.0
TANNER CRAB	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	3.1	0.0	0.0	0.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	297.2	781.3	6.7	771.1	730.1	3271.4	524.7	652.2	686.7	2385.0	1464.6

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	6/29/93	6/30/93	6/30/93	6/30/93	6/30/93	6/30/93	7/ 1/93	7/ 1/93	7/ 1/93	7/ 1/93	7/ 1/93
LATITUDE START	55 17.6	55 31.7	55 18.9	55 23.5	55 11.8	55 9.7	55 20.4	55 30.0	55 33.8	55 40.5	55 50.7
LONGITUDE START	158 4.6	157 51.3	158 11.9	158 29.4	158 44.4	158 51.5	158 56.6	159 8.6	158 57.5	158 41.9	158 35.6
LATITUDE END	55 19.0	55 30.8	55 19.8	55 22.0	55 13.0	55 10.7	55 21.8	55 31.0	55 35.1	55 41.3	55 51.8
LONGITUDE END	158 2.9	157 53.4	158 10.9	158 29.6	158 42.5	158 53.4	158 58.4	159 10.8	158 59.0	158 44.1	158 37.3
LORAN START	18568.60	18594.80	18569.30	18573.40	18548.80	18542.80	18562.60	18577.40	18586.50	18601.10	18618.70
LORAN START	45402.60	45298.70	45446.60	45548.80	45656.60	45703.50	45723.20	45788.00	45713.90	45606.70	45554.10
LORAN END	18571.30	18593.00	18571.10	18571.00	18551.40	18544.20	18564.70	18578.80	18588.70	18602.10	18620.30
LORAN END	45390.10	45313.30	45438.60	45552.10	45643.50	45714.50	45732.50	45801.40	45722.20	45620.10	45564.70
GEAR DEPTH	59	67	68	81	109	105	98	65	54	50	65
DURATION IN HOURS	0.50	0.50	0.32	0.50	0.50	0.50	0.54	0.50	0.50	0.50	0.51
DISTANCE FISHED	1.69	1.50	1.05	1.48	1.60	1.50	1.74	1.64	1.56	1.51	1.45
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	2.7	5.7	0.0	0.7	87.3	72.8	33.6	0.1	0.0	0.2	0.0
PACIFIC COD	173.7	85.7	683.1	7.9	0.0	16.6	0.0	15.2	2.0	0.0	130.0
SABLEFISH	0.0	33.8	11.6	0.0	24.0	17.7	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	1.4	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.3	6.0	0.0	0.5	0.0	1.6	0.0	0.0
ARROWTOOTH FL	261.0	666.6	205.7	340.2	299.4	177.6	218.0	299.4	765.9	6.4	88.0
HALIBUT	235.1	110.3	41.7	170.4	43.0	21.3	0.0	42.6	62.4	41.4	55.1
FLATHEAD SOLE	4.1	15.9	17.5	46.7	164.9	46.5	75.7	4.3	0.5	0.0	25.4
DOVER SOLE	0.0	34.9	20.4	6.4	8.8	22.2	1.8	0.0	0.0	0.0	0.0
REX SOLE	2.3	82.8	94.8	12.2	1.8	16.6	5.0	5.9	0.0	0.0	0.1
ROCK SOLE	8.2	0.0	0.0	0.9	0.0	0.0	0.0	1.4	7.5	6.1	2.7
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.2	0.0	4.1	7.7	0.0	0.0	0.0	0.0	0.4	0.4	0.1
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	1.6
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	50.8	57.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	165.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.1	0.0	1.7	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.1	0.0	0.1	0.5	2.4	2.9	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.5	1.4	0.6	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	688.7	1035.8	1300.3	650.9	642.0	396.5	339.8	368.9	840.3	54.5	303.9

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	7/ 2/93	7/ 2/93	7/ 2/93	7/ 2/93	7/ 2/93	7/ 2/93	7/ 3/93	7/ 3/93	7/ 3/93	7/ 3/93	7/ 3/93
LATITUDE START	55 54.9	55 57.2	56 2.3	55 54.8	55 45.5	55 43.6	55 15.9	55 23.3	55 28.2	55 38.3	55 47.6
LONGITUDE START	158 45.4	158 35.2	158 20.3	158 11.7	158 9.2	158 1.5	157 10.6	156 56.2	156 41.2	156 47.0	156 53.1
LATITUDE END	55 56.3	55 56.4	56 1.9	55 56.3	55 44.1	55 44.5	55 16.9	55 24.4	55 29.8	55 37.2	55 48.5
LONGITUDE END	158 46.2	158 33.1	158 19.4	158 12.7	158 8.8	157 59.8	157 8.7	156 54.8	156 40.2	156 45.9	156 51.1
LORAN START	18624.00	18628.70	18637.80	18627.70	18613.80	18612.10	18576.70	18591.20	18601.20	18615.30	18627.20
LORAN START	45613.70	45544.20	45440.80	45395.80	45391.20	45345.20	45076.60	44975.70	44875.00	44889.90	44908.80
LORAN END	18626.20	18627.90	18637.30	18629.90	18611.80	18613.80	18578.80	18593.10	18603.80	18613.90	18628.70
LORAN END	45617.40	45531.60	45434.90	45400.60	45390.30	45332.70	45063.80	44965.30	44865.80	44884.80	44894.60
GEAR DEPTH	80	56	61	98	68	67	54	50	81	76	63
DURATION IN HOURS	0.50	0.51	0.27	0.50	0.50	0.50	0.53	0.50	0.51	0.50	0.50
DISTANCE FISHED	1.49	1.45	0.69	1.54	1.34	1.36	1.47	1.37	1.71	1.23	1.41
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172
POLLOCK	501.0	0.9	0.5	154.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
PACIFIC COD	49.0	76.4	84.8	279.6	109.3	111.4	8.6	0.2	47.6	143.1	606.5
SABLEFISH	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	9.5	3.2	7.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FL	398.3	401.4	65.1	181.7	254.7	169.4	0.0	0.2	201.6	571.3	1792.7
HALIBUT	45.7	38.7	14.0	8.2	0.0	17.6	500.2	22.4	11.0	102.2	22.8
FLATHEAD SOLE	303.5	51.9	17.5	35.8	13.4	26.1	0.0	0.0	0.0	0.0	5.3
DOVER SOLE	0.0	1.4	3.6	4.5	0.0	6.8	0.0	0.0	5.4	34.2	14.6
REX SOLE	0.0	5.4	0.0	2.0	11.6	24.9	0.0	0.0	6.8	58.3	17.2
ROCK SOLE	2.0	66.0	5.2	0.0	1.4	0.6	9.8	5.0	0.0	0.0	1.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	4.3	0.0	0.0
ROUGHEYE RKFH	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.7	13.6	14.7
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1323.5	649.3	198.2	667.5	392.9	357.5	518.6	27.9	392.5	922.8	2474.8

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	7/ 4/93	7/ 4/93	7/ 4/93	7/ 4/93	7/ 5/93	7/ 5/93	7/ 5/93	7/ 5/93	7/ 6/93	7/ 6/93	7/ 6/93
LATITUDE START	55 58.3	55 52.8	55 53.0	55 58.4	56 18.7	56 25.5	56 24.1	56 22.7	56 37.5	56 15.2	56 10.8
LONGITUDE START	156 51.1	156 45.8	157 7.3	157 31.4	158 23.6	158 2.0	157 47.7	157 40.5	157 48.5	157 38.1	157 34.4
LATITUDE END	55 56.8	55 51.9	55 54.1	55 59.9	56 20.3	56 25.4	56 24.1	56 22.7	56 36.2	56 16.5	56 12.5
LONGITUDE END	156 52.2	156 47.4	157 5.0	157 30.3	158 22.2	157 59.4	157 50.1	157 43.1	157 48.1	157 36.9	157 34.7
LORAN START	18642.30	18635.30	18632.90	18637.90	18661.00	18670.50	18669.70	18668.70	18685.60	18660.30	18655.30
LORAN START	44877.80	44853.80	44987.20	45131.50	45446.30	45298.90	45206.20	45161.10	45199.20	45153.90	45135.30
LORAN END	18640.20	18633.80	18634.60	18640.30	18662.90	18670.50	18669.70	18668.60	18684.10	18662.10	18657.40
LORAN END	44887.00	44865.50	44971.80	45122.80	45436.60	45281.60	45222.00	45177.80	45197.60	45144.20	45135.20
GEAR DEPTH	73	97	59	70	19	102	131	94	18	71	89
DURATION IN HOURS	0.50	0.50	0.50	0.52	0.53	0.51	0.50	0.50	0.40	0.43	0.53
DISTANCE FISHED	1.60	1.35	1.62	1.55	1.81	1.46	1.31	1.43	1.30	1.40	1.67
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	5 /172
POLLOCK	326.8	0.9	0.0	0.1	602.0	704.9	295.1	62.6	86.9	2.3	1.8
PACIFIC COD	21.5	4.1	250.6	20.4	62.4	323.6	400.3	118.6	3.9	1.6	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	5.2	1.1	1.3	5.2	0.8	0.1	0.0
ARROWTOOTH FL	350.2	718.9	328.6	240.2	59.6	424.7	246.3	1100.9	0.9	252.9	96.2
HALIBUT	17.1	36.5	63.2	36.5	56.8	63.5	22.3	161.8	113.2	12.6	33.1
FLATHEAD SOLE	18.1	4.8	4.3	20.2	112.0	220.1	127.5	130.5	0.0	30.8	29.7
DOVER SOLE	18.6	41.3	7.3	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0
REX SOLE	111.6	57.6	76.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0
ROCK SOLE	3.2	0.0	3.6	3.9	30.6	0.0	0.9	0.0	36.7	1.4	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	219.8	0.0	0.0	0.0	2.9	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	5.7	0.0	0.0	1.1	9.1	0.0	0.9	4.5
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.3	0.1	8.6	6.8	0.6	0.0	0.1	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.1	0.0	0.8	0.0	21.2	8.2	2.0	0.0	0.6	2.5
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.1	0.0	2.5	2.2	0.1	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	867.1	864.2	806.1	328.2	1249.3	1770.2	1112.0	1607.5	245.3	303.3	167.8

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	7/ 6/93	7/ 6/93	7/ 7/93	7/ 7/93	7/ 7/93	7/ 7/93	7/ 7/93	7/ 8/93	7/ 8/93	7/ 8/93	7/ 8/93
LATITUDE START	56 13.9	56 18.7	56 11.2	56 17.2	56 40.1	56 38.6	56 42.4	56 50.6	56 50.7	56 34.8	56 29.2
LONGITUDE START	157 21.6	157 13.5	156 25.9	156 47.5	156 47.0	157 6.0	157 28.1	157 2.6	156 15.7	156 32.0	156 32.3
LATITUDE END	56 12.6	56 17.3	56 9.6	56 18.6	56 38.5	56 39.3	56 41.5	56 52.2	56 49.0	56 33.2	56 30.7
LONGITUDE END	157 20.3	157 12.3	156 25.4	156 45.5	156 46.9	157 9.3	157 25.2	157 1.1	156 16.4	156 32.4	156 30.0
LORAN START	18660.10	18666.10	18661.70	18666.60	18691.00	18688.90	18691.60	18700.10	18702.00	18686.80	18680.90
LORAN START	45048.60	44989.80	44661.70	44822.40	44791.00	44919.50	45059.10	44883.00	44573.00	44698.50	44707.60
LORAN END	18658.80	18664.80	18659.70	18668.10	18689.50	18689.30	18690.70	18702.00	18700.20	18685.10	18682.60
LORAN END	45041.80	44984.10	44695.20	44808.20	44791.70	44938.70	45041.00	44872.10	44579.80	44703.30	44691.00
GEAR DEPTH	82	88	135	56	77	94	34	16	105	101	111
DURATION IN HOURS	0.51	0.50	0.50	0.57	0.53	0.57	0.53	0.51	0.50	0.50	0.50
DISTANCE FISHED	1.49	1.50	1.55	1.79	1.65	1.95	1.85	1.82	1.81	1.65	1.94
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	11.3	4.8	10.4	4.5	5.2	68.0	1643.5	1.4	6.1	14.5	29.0
PACIFIC COD	39.9	40.4	24.0	12.5	14.7	0.0	71.2	2.0	12.9	31.5	56.7
SABLEFISH	0.0	0.0	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	2.1	0.0	0.0	1.2	0.7	8.1	0.1	3.5	0.0	0.1
ARROWTOOTH FL	213.2	112.5	263.8	24.5	138.1	87.1	83.0	0.0	323.2	88.5	167.8
HALIBUT	29.6	33.6	6.9	14.5	3.0	8.7	1.5	259.5	24.8	8.7	0.0
FLATHEAD SOLE	54.2	57.4	10.7	0.9	27.4	69.4	47.2	0.0	14.7	4.5	20.6
DOVER SOLE	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0	6.8	5.4
REX SOLE	0.0	0.5	29.7	0.0	1.1	0.0	0.0	0.0	0.5	7.9	5.4
ROCK SOLE	0.0	0.0	0.0	3.9	1.1	1.4	53.8	253.2	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	3.2	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	34.7	1.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	26.5	2.9	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.9	2.5
ROUGHEYE RKFH	1.1	1.0	2.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	2.9
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	0.1	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.5
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	2.0	5.0	0.9	0.0	3.2	16.3	0.0	0.0	6.3	1.4	10.9
SIDE STRIPE SHRIMP	0.0	0.0	1.6	0.0	0.0	0.1	0.0	0.0	0.2	0.3	0.7
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	351.5	257.4	393.0	60.8	195.4	256.1	1969.5	578.6	397.0	165.0	308.4

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	7/ 8/93	7/ 8/93	7/ 9/93	7/ 9/93	7/ 9/93	7/ 9/93	7/ 9/93	7/10/93	7/10/93	7/10/93	7/10/93
LATITUDE START	56 35.5	56 41.2	56 28.5	56 18.1	56 2.1	55 51.6	55 41.4	55 32.7	55 37.4	55 36.1	55 46.5
LONGITUDE START	156 12.9	155 54.7	155 41.6	155 39.3	155 45.9	155 52.8	156 12.0	155 41.5	155 39.0	155 28.8	155 22.9
LATITUDE END	56 36.5	56 41.9	56 27.1	56 16.6	56 1.9	55 51.7	55 40.5	55 32.5	55 37.7	55 36.6	55 46.3
LONGITUDE END	156 10.4	155 52.0	155 43.0	155 41.0	155 48.9	155 53.2	156 10.4	155 38.7	155 36.3	155 26.6	155 19.6
LORAN START	18688.50	18694.20	18683.30	18672.20	18654.70	18640.30	18624.30	18617.00	18623.40	18623.10	18637.40
LORAN START	44573.20	44447.00	44383.50	44390.50	44466.20	44534.10	44670.20	44512.40	44484.80	44430.60	44364.00
LORAN END	18689.50	18694.80	18681.80	18670.80	18654.10	18640.30	18623.10	18616.90	18624.00	18624.00	18637.60
LORAN END	44555.10	44428.10	44394.60	44403.30	44484.60	44534.10	44663.00	44497.70	44469.40	44416.70	44349.20
GEAR DEPTH	138	159	65	39	30	37	140	104	85	192	37
DURATION IN HOURS	0.51	0.50	0.50	0.54	0.52	0.07	0.50	0.51	0.52	0.50	0.63
DISTANCE FISHED	1.73	1.66	1.54	1.78	1.74	0.21	1.32	1.59	1.54	1.36	1.89
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	20.4	11.6	6.4	2.0	0.0	0.1	5.0	0.0	0.0	11.3	0.0
PACIFIC COD	0.0	0.0	157.6	590.8	5.2	0.0	0.0	74.6	114.1	0.0	0.0
SABLEFISH	44.0	22.2	0.0	0.0	0.0	0.0	6.4	4.3	0.0	362.6	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0
ARROWTOOTH FL	168.7	23.4	2044.5	15.4	0.0	0.0	91.4	750.0	1295.7	476.3	0.0
HALIBUT	0.0	12.6	37.6	232.6	188.0	1.4	32.7	76.2	2.5	45.7	96.3
FLATHEAD SOLE	10.4	10.2	85.2	0.0	0.0	0.0	13.6	0.9	0.0	0.0	0.0
DOVER SOLE	4.1	0.0	98.7	0.0	0.0	0.0	11.6	0.5	0.0	65.5	0.0
REX SOLE	0.0	2.5	232.3	0.0	0.0	0.0	20.4	6.4	0.0	47.9	0.0
ROCK SOLE	0.0	0.0	0.0	372.2	41.3	0.0	0.0	0.0	0.0	0.0	254.9
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	72.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.7	1.0	94.8	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	178.5	0.9	0.0	48.1	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	105.7	0.2
NORTHERN RKFH	0.0	0.0	11.6	0.0	0.0	0.0	1.6	60.8	9.3	0.5	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0
DUSKY ROCKFISH	0.0	0.0	13.4	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
TANNER CRAB	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	251.9	83.2	2687.5	1285.6	234.5	1.7	362.3	992.7	1422.6	1276.8	351.6

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	155	156	157	158	159	160	161	162	163	164	165
MONTH/DAY/YEAR	7/11/93	7/11/93	7/11/93	7/11/93	7/11/93	7/11/93	7/11/93	7/12/93	7/12/93	7/12/93	7/12/93
LATITUDE START	56 29.2	56 21.1	56 27.2	56 42.4	56 52.3	56 57.2	56 58.4	57 3.1	56 53.0	56 50.1	56 49.1
LONGITUDE START	155 20.7	155 28.9	155 31.2	155 45.9	155 38.4	155 39.7	155 20.9	153 57.0	154 7.1	154 30.0	155 1.5
LATITUDE END	56 27.8	56 21.6	56 27.4	56 43.3	56 51.2	56 58.2	56 57.3	57 1.9	56 54.3	56 51.1	56 50.4
LONGITUDE END	155 20.2	155 26.6	155 33.6	155 43.4	155 39.6	155 37.8	155 22.4	153 58.4	154 5.4	154 28.0	155 0.1
LORAN START	18685.10	18676.10	18682.50	18695.50	18704.60	18708.50	18709.90	18716.00	18708.20	18705.20	18703.20
LORAN START	44249.50	44317.90	44320.30	44387.70	44326.30	44328.90	44204.40	43651.20	43734.60	43885.80	44089.80
LORAN END	18683.60	18677.10	18682.70	18696.50	18703.80	18709.40	18708.80	18715.10	18709.10	18706.20	18704.40
LORAN END	44249.50	44302.00	44334.80	44370.10	44334.90	44315.60	44215.10	43662.30	43721.40	43871.80	44079.20
GEAR DEPTH	30	32	38	147	155	157	142	84	39	40	43
DURATION IN HOURS	0.51	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.53	0.51	0.50
DISTANCE FISHED	1.49	1.40	1.34	1.68	1.26	1.42	1.40	1.47	1.57	1.51	1.55
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.0	0.1	30.3	12.2	51.7	34.9	553.2	1229.2	4043.0	1029.7
PACIFIC COD	0.3	6.6	185.1	7.0	3.2	14.7	0.0	29.9	34.5	37.0	127.9
SABLEFISH	0.0	0.0	0.0	36.7	65.8	76.7	127.9	1.4	0.0	0.0	0.9
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	1.6	0.1	0.1	0.1	0.0	3.8	18.6	9.4	0.5
ARROWTOOTH FL	0.0	0.0	15.9	144.5	74.4	203.9	207.7	319.6	157.8	136.1	625.5
HALIBUT	168.6	290.1	67.6	0.0	3.8	64.5	4.9	0.0	62.6	65.8	145.8
FLATHEAD SOLE	0.0	0.0	0.5	21.5	13.2	24.7	47.2	253.1	220.4	179.4	132.0
DOVER SOLE	0.0	0.0	0.0	4.1	0.0	0.0	1.4	5.4	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	13.4	11.6	17.7	7.3	0.0	0.0	0.0	26.8
ROCK SOLE	68.5	48.1	102.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	36.3	49.7	3.9	0.0	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	0.0	58.1	2.0	0.0
BUTTER SOLE	0.0	0.0	129.7	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0
ALASKA PLAICE	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	3.9	4.1	6.8
ENGLISH SOLE	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	2.0	1.8	1.6	2.5	18.4	2.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	1.6	0.0	0.1	0.1	7.3	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.7	1.4	1.6	0.5	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	273.7	394.5	509.8	269.6	187.5	457.3	434.4	1192.8	1793.0	4491.3	2095.9

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	166	167	168	169	170	171	172	173	174	175	176
MONTH/DAY/YEAR	7/12/93	7/13/93	7/13/93	7/13/93	7/13/93	7/13/93	7/14/93	7/14/93	7/14/93	7/14/93	7/14/93
LATITUDE START	56 57.9	57 4.9	57 10.9	57 7.6	57 12.5	57 22.3	57 19.3	57 18.6	57 43.7	57 53.9	57 54.7
LONGITUDE START	155 4.8	154 55.3	154 54.4	155 22.5	155 41.0	155 33.6	155 4.5	154 47.0	154 59.8	154 52.9	154 25.6
LATITUDE END	56 59.0	57 4.1	57 9.8	57 6.2	57 13.5	57 21.1	57 18.4	57 19.8	57 44.8	57 54.6	57 56.0
LONGITUDE END	155 3.0	154 57.2	154 54.5	155 22.7	155 39.3	155 33.8	155 6.4	154 48.9	154 57.3	154 50.2	154 23.7
LORAN START	18710.10	18715.60	18720.00	18716.80	18720.30	18726.00	18725.10	18724.70	18737.40	18738.70	18631.70
LORAN START	44098.80	44029.80	44019.70	44207.40	44328.40	44277.90	44085.10	43969.20	44068.40	44035.80	43778.20
LORAN END	18711.00	18714.90	18719.20	18715.80	18721.10	18725.30	18725.50	18725.50	18738.00	18625.20	18632.60
LORAN END	44085.80	44043.00	44020.90	44209.70	44316.60	44279.60	44097.70	43980.50	44053.00	43907.90	43770.50
GEAR DEPTH	91	67	77	141	148	157	130	33	149	103	129
DURATION IN HOURS	0.50	0.51	0.43	0.51	0.51	0.50	0.52	0.53	0.50	0.55	0.50
DISTANCE FISHED	1.50	1.30	1.07	1.35	1.39	1.21	1.37	1.59	1.71	1.61	1.63
PERFORMANCE / GEAR	1 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172
POLLOCK	42.6	7.5	7.3	87.5	18.1	26.7	69.6	0.0	74.4	470.8	138.6
PACIFIC COD	67.8	61.2	91.6	41.5	41.7	32.2	15.6	174.6	96.8	33.1	100.7
SABLEFISH	0.0	0.0	0.0	115.4	126.1	133.1	26.8	0.0	124.5	0.0	81.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	9.8	0.2	0.2	0.1	0.1	1.0	0.2	3.2	10.2	9.9	0.1
ARROWTOOTH FL	309.8	2409.7	1536.1	248.3	222.0	242.0	398.7	71.9	91.2	449.3	472.6
HALIBUT	45.2	34.7	34.6	21.8	58.0	0.0	0.0	94.4	35.9	73.9	58.2
FLATHEAD SOLE	183.7	103.7	101.8	58.5	4.5	9.3	48.5	122.0	13.4	41.3	22.9
DOVER SOLE	24.5	87.0	79.4	0.0	7.3	2.7	2.3	0.3	0.0	10.2	0.7
REX SOLE	9.5	19.4	2.9	9.1	0.4	1.6	1.4	0.1	0.7	8.2	0.7
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.8	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	41.7	0.0	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	30.4	0.0	0.0	7.5	2.9	2.9	1.4	0.0	49.7	12.5	42.2
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	93.4	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	1.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.7	0.1	0.0	1.3	1.6	1.8	0.0	0.0	0.0	0.9	4.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	3.9	0.0	0.2	0.1	0.1	0.5	0.4	0.0	0.1	2.3	1.1
SIDE STRIPE SHRIMP	0.0	0.0	0.0	2.0	2.0	1.8	0.9	0.0	0.4	0.4	0.8
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	864.9	2723.5	1887.0	593.1	484.8	453.6	565.8	717.8	497.6	1112.8	923.7

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	177	178	179	180	181	182	183	184	185	186	187
MONTH/DAY/YEAR	7/14/93	7/15/93	7/15/93	7/18/93	7/18/93	7/18/93	7/18/93	7/19/93	7/19/93	7/19/93	7/19/93
LATITUDE START	57 41.3	58 0.8	58 3.7	57 29.8	57 35.1	57 27.6	57 23.8	57 19.0	57 12.7	56 53.4	56 48.1
LONGITUDE START	154 2.0	153 32.2	153 28.7	152 10.1	151 59.6	152 1.0	151 51.1	152 18.2	152 39.1	152 44.6	152 44.1
LATITUDE END	57 41.9	58 0.5	58 2.1	57 30.1	57 34.1	57 28.8	57 25.4	57 18.3	57 13.2	56 52.2	56 49.6
LONGITUDE END	154 4.3	153 29.3	153 27.8	152 7.0	152 1.2	152 0.3	151 50.3	152 20.4	152 36.8	152 43.3	152 44.8
LORAN START	18626.20	18633.00	18634.80	11084.70	11178.30	11116.00	11148.40	11015.20	10998.00	11004.50	11008.50
LORAN START	43606.10	43482.50	43474.80	31237.50	31250.80	31213.20	31178.80	31193.50	31191.70	31103.80	31077.40
LORAN END	18626.70		18634.10	11101.90	11161.90	11127.60	11159.90	11010.50	10998.20	11006.20	11006.80
LORAN END	43622.60		43463.90	31234.80	31247.50	31218.80	31185.70	31193.30	31191.50	31095.70	31085.80
GEAR DEPTH	63	43	63	36	47	38	38	26	41	67	40
DURATION IN HOURS	0.50	0.50	0.55	0.50	0.51	0.40	0.50	0.36	0.51	0.51	0.51
DISTANCE FISHED	1.39	1.56	1.61	1.71	1.32	1.29	1.63	1.34	1.36	1.41	1.55
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	704.4	0.0	720.5	0.5	1.4	0.0	1.0	0.0	5.7	195.0	0.0
PACIFIC COD	55.8	126.3	208.4	95.7	25.9	3.2	81.4	0.9	58.7	0.0	0.0
SABLEFISH	0.0	1.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	1.6	0.0	0.0	3.0	1.7	3.1	6.2	10.3	0.8	0.0
ARROWTOOTH FL	838.9	509.2	650.7	186.0	391.7	7.7	3.9	0.0	88.0	677.9	0.0
HALIBUT	176.9	43.2	320.8	125.3	106.3	37.0	130.7	65.3	88.1	39.0	217.3
FLATHEAD SOLE	116.8	19.3	218.0	7.3	7.0	0.0	0.0	0.0	5.2	39.9	1.4
DOVER SOLE	8.4	5.4	8.8	0.0	0.0	0.0	0.0	0.0	0.0	32.7	0.0
REX SOLE	59.6	16.1	17.7	0.0	0.0	0.0	0.0	0.0	0.0	178.5	0.0
ROCK SOLE	0.0	41.5	3.2	41.7	89.4	56.5	99.8	9.3	41.3	0.0	2.0
STARRY FLOUNDER	0.0	0.0	0.0	12.7	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	115.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	43.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.6
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	2.0	0.0	0.0
TANNER CRAB	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.2
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2004.7	770.3	2151.9	585.1	628.8	106.1	319.9	87.1	299.3	1170.3	300.7

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	188	189	190	191	192	193	194	195	196	197	198
MONTH/DAY/YEAR	7/19/93	7/19/93	7/20/93	7/20/93	7/20/93	7/20/93	7/20/93	7/21/93	7/23/93	7/23/93	7/23/93
LATITUDE START	56 57.5	57 2.0	56 47.0	56 43.0	56 25.9	56 24.2	56 16.8	56 9.8	56 11.7	56 11.6	56 6.4
LONGITUDE START	153 2.7	153 21.2	153 33.4	153 19.2	154 12.1	154 25.8	154 30.3	154 41.0	153 44.3	153 53.3	154 10.1
LATITUDE END	56 58.3	57 1.6	56 46.0	56 41.8	56 25.3	56 23.9	56 15.4	56 10.1	56 11.5	56 11.0	56 5.2
LONGITUDE END	153 5.0	153 23.6	153 31.4	153 21.1	154 15.3	154 29.1	154 29.7	154 38.4	153 47.0	153 55.7	154 11.3
LORAN START	10998.30	11009.20	11002.30	10998.10	11005.70		11007.20		10998.80	10998.00	10998.50
LORAN START	31151.10	31198.30	31144.50	31105.40	31103.50		31088.60		30998.00	31011.00	31013.50
LORAN END	10998.60	11010.20	11001.20	10998.20	11006.20		11006.10		10998.60	10998.00	10998.20
LORAN END	31158.50	31199.70	31137.30	31102.40	31105.30		31081.50		31001.60	31012.10	31009.60
GEAR DEPTH	72	21	42	66	23	18	48	55	85	106	58
DURATION IN HOURS	0.50	0.40	0.51	0.50	0.50	0.52	0.50	0.51	0.50	0.50	0.50
DISTANCE FISHED	1.52	1.33	1.45	1.61	1.86	1.81	1.44	1.47	1.56	1.46	1.46
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	820.8	0.0	0.0	0.0	0.0	683.3	27.0	1.3	0.0	12.5	0.1
PACIFIC COD	45.8	0.0	0.5	100.2	0.0	89.1	137.7	22.7	37.0	42.2	0.1
SABLEFISH	8.8	0.0	0.0	7.7	0.0	0.0	0.0	0.0	23.6	201.8	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	12.2	0.0	1.4	0.0	0.0	0.0	17.3	0.5	0.0	2.3	0.0
ARROWTOOTH FL	268.3	0.0	14.1	711.7	0.0	0.0	95.3	176.2	800.5	110.0	13.4
HALIBUT	11.8	108.9	39.4	164.7	72.3	74.4	63.6	28.8	71.8	25.3	30.2
FLATHEAD SOLE	163.3	0.0	0.3	26.5	0.0	0.0	16.3	0.0	0.0	0.0	0.0
DOVER SOLE	40.1	0.0	0.0	4.7	0.0	0.0	1.3	0.7	7.5	7.9	0.0
REX SOLE	95.0	0.0	0.0	27.2	0.0	0.0	123.4	31.5	33.6	6.6	22.5
ROCK SOLE	2.3	96.2	52.2	0.5	2.3	0.0	40.6	0.0	0.9	0.0	9.1
STARRY FLOUNDER	0.0	0.0	0.0	0.0	116.3	12.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	51.5	0.0	0.0	22.9	10.2	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	998.1	3025.7	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	1.1	1.3	0.0	0.0	0.0	0.0	2.4	9.0	4.3
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	3.6	74.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1469.1	256.6	113.1	1128.0	213.8	869.1	522.5	261.7	1975.4	3445.2	79.7

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	199	200	201	202	203	204	205	206	207	208	209
MONTH/DAY/YEAR	7/23/93	7/23/93	7/23/93	7/24/93	7/24/93	7/24/93	7/24/93	7/25/93	7/25/93	7/25/93	7/25/93
LATITUDE START	56 5.0	55 59.3	55 53.5	55 59.6	55 55.9	56 1.0	56 3.0	56 17.4	56 18.3	56 36.1	56 35.2
LONGITUDE START	154 38.2	154 54.7	155 3.4	154 45.4	154 9.6	153 52.4	153 47.8	153 28.1	152 43.8	151 49.2	151 51.6
LATITUDE END	56 5.0	55 58.2	55 52.0	56 0.1	55 56.2	56 1.7	56 4.4	56 18.5	56 19.0	56 36.6	56 36.5
LONGITUDE END	154 40.9	154 56.5	155 4.6	154 43.0	154 7.3	153 52.1	153 49.2	153 26.6	152 42.9	151 49.3	151 51.0
LORAN START	11003.60	11006.30	11006.80	11003.60	32901.30	32852.10	32836.90	32746.60	32677.40	32522.60	
LORAN START	31048.90	31047.60	31035.60	31035.80	43931.80	43823.50	43793.30	43633.50	43439.00	43176.10	
LORAN END	11004.50	11006.70	11006.40	32942.50	32896.20		32833.70	32741.20	32670.50	32520.10	32522.60
LORAN END	31052.40	31045.60	31031.20	44009.40	43919.10		43794.50	43624.40	43427.50	43173.40	43177.10
GEAR DEPTH	65	88	67	137	159	43	87	42	191	267	198
DURATION IN HOURS	0.50	0.50	0.50	0.51	0.52	0.23	0.51	0.51	0.26	0.19	0.50
DISTANCE FISHED	1.50	1.47	1.62	1.39	1.33	0.66	1.57	1.29	0.77	0.51	1.29
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	1 /172	6 /172	0 /172	7 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.1	0.0	2.9	10.7	0.0	29.3	0.0	12.2	1.8	1.6
PACIFIC COD	69.2	36.1	68.9	23.4	2.7	0.0	21.1	0.2	0.0	0.0	0.0
SABLEFISH	0.0	46.9	22.0	83.7	9.3	0.0	7.5	0.0	19.1	15.4	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	3.2	1.8	0.0	0.0	6.1	0.0	1.6	8.2
ARROWTOOTH FL	216.6	488.3	84.6	75.3	48.1	0.0	177.4	9.5	20.9	2.5	104.1
HALIBUT	102.1	46.2	38.2	7.8	0.0	68.0	2.5	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	2.7	0.0	1.1	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	4.1	4.1	10.9	31.3	0.0	5.0	0.0	20.0	31.1	11.1
REX SOLE	0.0	69.2	90.0	13.2	59.9	0.0	15.4	0.0	2.9	0.0	5.4
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.7	0.0	3.9	63.5	0.0	95.3	0.0	0.9	0.0	5.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	33.6	0.0	325.5
THORNYHEADS	0.0	0.0	0.0	49.0	59.4	0.0	0.0	0.0	3.6	12.2	45.8
NORTHERN RKFH	0.0	1.1	3.9	3.2	1.4	5443.1	3.2	0.1	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	126.3	13.6	315.2
DUSKY ROCKFISH	0.0	0.0	0.0	1.5	0.0	45.4	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.1	0.0	0.1
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	387.9	692.9	311.8	278.1	299.9	5556.5	360.1	17.0	239.6	78.2	822.9

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	210	211	212	213	214	215	216	217	218	219	220
MONTH/DAY/YEAR	7/26/93	7/26/93	7/27/93	7/27/93	7/27/93	7/27/93	7/27/93	7/28/93	7/28/93	7/28/93	7/28/93
LATITUDE START	56 48.4	56 54.0	57 15.9	57 15.5	57 21.2	57 25.2	57 33.8	57 26.2	57 33.6	57 28.8	57 34.8
LONGITUDE START	152 24.9	151 52.6	151 2.8	150 45.8	150 37.0	150 27.6	150 37.4	150 55.0	151 12.0	151 32.1	151 43.4
LATITUDE END	56 49.4	56 54.2	57 14.8	57 14.3	57 22.1	57 23.9	57 35.2	57 26.4	57 34.7	57 30.5	57 34.2
LONGITUDE END	152 26.9	151 52.6	151 4.5	150 47.2	150 34.9	150 29.6	150 37.1	150 57.9	151 14.2	151 32.9	151 40.6
LORAN START	32523.90	32453.80	11365.90	11443.70	11512.00	11578.70	11578.80	11446.20	11403.10	11271.90	11253.70
LORAN START	43212.90	43098.50	31058.80	31028.90	31045.60	31051.70	31117.20	31103.50	31171.50	31177.50	31224.90
LORAN END	32522.40	32452.90	11347.50	11431.00	11526.50	11561.60	11589.00	11432.70	11399.30	11277.80	11262.80
LORAN END	43214.60	43097.70	31056.20	31024.20	31046.40	31047.80	31124.60	31108.80	31181.10	31186.80	31217.60
GEAR DEPTH	95	43	59	196	167	150	57	51	40	87	69
DURATION IN HOURS	0.50	0.08	0.50	0.50	0.51	0.50	0.51	0.50	0.51	0.56	0.50
DISTANCE FISHED	1.51	0.25	1.42	1.45	1.44	1.70	1.40	1.54	1.67	1.74	1.61
PERFORMANCE / GEAR	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.0	0.7	0.7	5.2	88.9	17.5	0.6	0.7	547.3	365.4
PACIFIC COD	0.0	0.0	17.2	0.0	0.0	2.5	100.9	82.8	0.0	69.4	9.1
SABLEFISH	4.5	0.0	0.0	21.1	0.0	7.0	0.7	0.0	0.0	15.9	7.9
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	1.6	0.0	0.0	1.7	2.3	0.2	0.0	1.6	0.0	0.0	0.1
ARROWTOOTH FL	35.6	0.0	40.1	56.2	96.6	49.7	799.7	30.8	0.0	272.8	198.9
HALIBUT	0.0	0.0	151.4	0.0	0.0	26.1	88.0	154.6	2140.6	49.0	36.0
FLATHEAD SOLE	27.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	38.6	47.6
DOVER SOLE	1.8	0.0	0.0	58.7	41.3	18.6	0.0	0.0	0.0	5.0	2.7
REX SOLE	0.7	0.0	0.0	20.2	24.9	7.5	0.0	0.0	0.0	41.0	49.2
ROCK SOLE	0.0	1.4	78.5	0.0	0.0	0.0	62.4	229.5	13.2	0.7	2.2
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	9.1	174.9	273.5	0.0	0.0	0.0	0.7	0.0
ROUGHEYE RKFH	13.2	0.0	0.0	708.4	36.7	7.9	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	38.4	15.4	30.6	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	2.3	1.0	0.0	0.0	0.0	0.8	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	72.2	8.6	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.8	1.2	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
SIDE STRIPE SHRIMP	0.1	0.0	0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	87.6	1.5	287.9	986.9	409.1	518.7	1069.2	499.9	2154.5	1041.4	719.5

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	221	222	223	224	225	226	227	228	229	230	231
MONTH/DAY/YEAR	7/28/93	7/28/93	7/29/93	7/29/93	7/30/93	7/30/93	7/30/93	7/30/93	7/30/93	7/31/93	7/31/93
LATITUDE START	57 39.6	57 39.4	57 44.3	57 53.8	58 14.3	58 19.3	58 25.2	58 34.0	58 42.3	58 22.4	58 25.9
LONGITUDE START	151 34.8	151 42.0	152 1.1	152 2.4	151 25.4	151 23.2	151 35.6	151 54.9	152 3.7	153 20.6	153 41.0
LATITUDE END	57 39.1	57 39.1	57 44.1	57 55.5	58 15.7	58 18.6	58 26.4	58 33.2	58 43.4	58 23.8	58 27.0
LONGITUDE END	151 32.1	151 44.8	152 3.9	152 2.2	151 24.7	151 20.8	151 38.1	151 52.4	152 4.5	153 21.5	153 39.2
LORAN START	11333.20	11296.20	32249.10	32208.00	32067.10	32042.10	32029.60	32010.40	31980.70	32171.80	32180.00
LORAN START	31238.50	31248.00	43022.20	43081.90	43134.20	43157.60	43213.60	43309.90	43383.90	43558.00	43677.40
LORAN END	11341.60	11280.30	32253.80	32200.10	32059.90	32042.40	32026.70	32011.70	31975.90	32165.80	32172.30
LORAN END	31231.70	31250.50	43025.00	43091.80	43140.80	43150.30	43226.10	43298.70	43393.20	43569.90	43674.30
GEAR DEPTH	35	39	61	94	85	42	101	93	76	96	76
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.51	0.50	0.50	0.50	0.50	0.49	0.51
DISTANCE FISHED	1.54	1.58	1.52	1.72	1.47	1.41	1.80	1.55	1.26	1.48	1.51
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	1 /172	0 /172	0 /172	1 /172	0 /172
POLLOCK	0.0	2.3	1286.5	186.4	271.9	0.0	32.4	810.5	2.3	6.4	42.0
PACIFIC COD	0.0	132.2	111.8	31.1	43.8	0.0	40.1	18.6	35.4	0.0	67.8
SABLEFISH	0.0	0.0	5.7	37.9	57.2	0.0	129.3	184.4	71.4	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	12.2	0.0	0.0	0.0	0.5	0.0	0.3	0.1	1.2
ARROWTOOTH FL	0.0	63.3	896.9	174.4	837.6	0.0	129.5	742.2	1414.3	142.0	395.3
HALIBUT	379.6	82.5	83.9	65.4	96.1	654.8	62.6	14.9	71.3	0.0	15.9
FLATHEAD SOLE	0.0	3.6	162.7	30.2	0.5	0.0	3.4	8.0	0.3	73.5	15.9
DOVER SOLE	0.0	0.0	29.9	0.0	4.5	0.0	7.7	25.9	4.8	0.0	0.5
REX SOLE	0.0	0.0	64.1	1.3	10.9	0.0	50.3	9.5	6.1	0.0	3.9
ROCK SOLE	9.3	315.2	32.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.7
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	2.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	12.2	0.0	0.0	10.4	0.0	0.0	0.0	0.6
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	1.8	18.6	0.0	0.0	1.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	6.0	0.0	0.0	0.1	0.0	0.0	6.3	8.6
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.9	0.0	0.0	0.1	0.0	0.0	0.1	1.1
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	388.9	601.8	2692.1	545.8	1322.5	663.7	485.2	1814.2	1606.2	229.5	553.6

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	232	233	234	235	236	237	238	239	240	241	242
MONTH/DAY/YEAR	7/31/93	7/31/93	7/31/93	7/31/93	8/ 1/93	8/ 1/93	8/ 1/93	8/ 1/93	8/ 1/93	8/ 1/93	8/ 1/93
LATITUDE START	58 42.7	58 53.2	58 52.7	59 2.1	59 6.3	59 21.8	59 27.4	59 24.5	59 37.9	59 38.9	59 41.4
LONGITUDE START	153 3.1	152 44.4	153 4.1	153 4.3	153 19.6	153 15.6	153 8.1	152 38.9	152 53.5	152 48.6	152 28.7
LATITUDE END	58 43.6	58 54.5	58 51.9	59 3.6	59 7.1	59 23.4	59 28.7	59 25.0	59 38.7	59 39.7	59 41.4
LONGITUDE END	153 0.9	152 43.2	153 6.7	153 4.1	153 20.9	153 15.6	153 6.5	152 36.1	152 50.1	152 45.7	152 25.7
LORAN START	32047.30	31972.40	31997.30	31949.40	31944.60	31857.00	31819.80	31805.30	31748.70	31738.50	31706.30
LORAN START	43592.50	43580.70	43652.70	43707.30	43792.40	43858.40	43858.80	43739.00	43860.70	43848.30	43796.60
LORAN END	32039.90	31963.90	32003.90	31941.50	31942.10	31848.70	31811.00	31800.10	31741.00	31731.60	31704.00
LORAN END	43588.30	43584.60	43659.10	43715.00	43801.50	43866.70	43859.70	43731.80	43854.00	43844.10	43787.10
GEAR DEPTH	91	96	91	77	21	25	22	36	22	22	45
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.39	0.52	0.52	0.50	0.52	0.51	0.53
DISTANCE FISHED	1.45	1.52	1.57	1.52	1.02	1.61	1.60	1.55	1.93	1.68	1.54
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172
POLLOCK	5.2	301.4	42.2	505.8	0.8	0.4	9.9	0.1	6.4	1.6	539.3
PACIFIC COD	2.7	90.0	54.0	111.4	1.8	6.4	3.8	0.0	5.4	2.5	33.3
SABLEFISH	0.0	7.3	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.5	1.6	1.7	1.4	0.8	1.2	0.7	0.5	6.3	1.1	2.7
ARROWTOOTH FL	235.6	288.3	161.9	291.7	1.1	0.0	0.1	0.0	0.0	0.0	29.0
HALIBUT	46.6	9.6	11.8	113.1	21.5	19.8	17.1	385.2	35.9	0.0	57.7
FLATHEAD SOLE	4.3	15.4	12.2	12.2	0.0	0.0	0.9	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	17.9	3.4	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1
REX SOLE	1.5	18.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	5.4	3.8	3.2	20.2	12.5	2.9	24.5
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	2.5	0.0	472.2	0.0	2.3	2.3
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	3.2	13.2	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	1.1
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	5.9	2.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.8	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	322.5	752.0	296.7	1059.9	31.4	37.3	50.5	878.6	66.5	10.4	690.0

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	243	244	245	246	247	248	249	250	251	252	253
MONTH/DAY/YEAR	8/ 2/93	8/ 2/93	8/ 2/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 3/93	8/ 4/93	8/ 4/93
LATITUDE START	59 34.9	59 16.0	59 4.4	59 1.9	59 5.0	58 55.9	58 49.4	58 53.7	58 51.0	58 34.8	58 29.1
LONGITUDE START	151 57.7	152 6.9	152 5.8	150 50.8	150 30.3	150 47.3	150 58.6	151 33.7	151 51.9	151 16.1	150 56.5
LATITUDE END	59 35.0	59 14.3	59 3.0	59 3.4	59 4.5	58 54.5	58 48.8	58 52.8	58 51.9	58 34.6	58 27.6
LONGITUDE END	152 1.0	152 5.7	152 6.4	150 50.2	150 33.8	150 48.2	151 1.4	151 30.4	151 50.1	151 12.7	150 58.0
LORAN START	31712.20	31817.60	31874.10	31809.70	31775.70	31834.10	31876.80	31892.10	31924.30	31962.80	31967.20
LORAN END	43670.00	43589.50	43520.50	43334.70	43317.30	43296.70	43281.00	43373.30	43402.70	43231.80	43171.50
LORAN END	31714.30	31824.60	31881.60	31802.10	31781.20	31841.60	31882.20	31892.90	31918.30	31960.00	31975.30
LORAN END	43678.70	43576.50	43513.80	43341.00	43320.00	43290.70	43282.20	43361.10	43403.90	43225.00	43166.30
GEAR DEPTH	23	49	99	92	61	88	93	65	59	93	46
DURATION IN HOURS	0.52	0.51	0.52	0.50	0.52	0.46	0.53	0.52	0.53	0.50	0.54
DISTANCE FISHED	1.69	1.81	1.43	1.52	1.86	1.49	1.58	1.93	1.33	1.80	1.70
PERFORMANCE / GEAR	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	5 /172	0 /172	0 /172
POLLOCK	0.1	0.4	435.9	81.6	0.2	0.0	7.7	0.1	0.1	80.7	0.0
PACIFIC COD	94.3	0.4	1341.7	26.3	0.0	2.7	11.3	50.1	4.1	140.6	65.5
SABLEFISH	0.0	0.0	9.3	63.5	0.0	68.5	78.0	30.2	0.0	372.9	1301.2
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.8	0.4	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
ARROWTOOTH FL	0.0	1.6	69.4	246.3	27.2	2357.9	309.1	931.7	687.6	496.2	2485.6
HALIBUT	324.8	66.0	26.4	40.2	99.7	8.6	7.2	58.6	8.9	24.4	564.9
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.9	2.7
DOVER SOLE	0.0	0.0	6.8	20.9	0.0	11.3	14.3	0.0	0.0	26.5	8.4
REX SOLE	0.0	0.0	0.0	13.6	0.0	4.5	7.7	0.0	0.0	42.2	2.3
ROCK SOLE	205.7	5.4	0.3	0.0	8.4	0.0	0.0	2.0	9.1	0.0	30.8
STARRY FLOUNDER	575.2	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
PAC OC PERCH	0.0	0.0	0.0	3.6	3.4	0.0	1.4	16.3	0.0	6.4	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.8	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	1.1	0.0	0.0	0.8	0.0	0.0	0.1	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1203.2	74.2	1889.8	499.7	141.8	2463.0	439.2	1099.2	709.8	1191.7	4463.4

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	254	255	256	257	258	259	260	261	262	263	264
MONTH/DAY/YEAR	8/ 4/93	8/ 4/93	8/ 4/93	8/ 4/93	8/ 4/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 5/93	8/ 5/93
LATITUDE START	58 39.6	58 44.9	58 50.1	58 54.7	58 49.8	58 45.9	58 30.5	58 24.7	58 24.4	58 22.0	58 16.4
LONGITUDE START	150 47.8	150 20.8	150 10.0	149 50.6	149 41.1	149 38.2	149 32.9	149 40.6	150 32.1	150 35.3	150 37.3
LATITUDE END	58 41.0	58 45.7	58 49.2	58 53.9	58 49.4	58 45.0	58 30.2	58 24.7	58 24.7	58 23.2	58 14.6
LONGITUDE END	150 46.6	150 18.6	150 12.5	149 52.7	149 38.5	149 40.0	149 29.7	149 43.4	150 28.9	150 32.7	150 37.7
LORAN START	31910.50	31858.20	31823.80	31783.00	31796.00	31811.20	31872.60	31905.50	31961.70	31975.40	32003.20
LORAN START	43213.50	43205.30	43217.10	43217.80	43187.60	43168.50	43104.70	43087.70	43121.80	43114.50	43090.50
LORAN END	31902.90	31852.00	31830.20	31789.20	31795.50	31816.80	31871.00	31908.80	31956.50	31967.20	32010.90
LORAN END	43218.90	43206.90	43215.90	43216.30	43183.40	43166.70	43101.50	43088.70	43120.80	43117.30	43083.60
GEAR DEPTH	112	80	89	132	128	109	75	85	43	39	38
DURATION IN HOURS	0.53	0.52	0.52	0.46	0.42	0.50	0.50	0.50	0.51	0.50	0.53
DISTANCE FISHED	1.54	1.46	1.56	1.40	1.41	1.28	1.72	1.48	1.69	1.86	1.77
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	154.7	0.0	1.1	35.8	57.8	47.2	85.5	10.0	0.0	0.0	0.0
PACIFIC COD	69.9	36.5	78.9	0.0	0.0	17.0	21.3	170.1	9.5	0.0	0.0
SABLEFISH	73.3	235.0	1928.3	28.3	45.8	129.5	7.9	297.1	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FL	723.7	898.6	2550.1	81.2	35.8	134.7	88.9	356.7	0.0	0.0	0.0
HALIBUT	75.0	70.7	61.2	27.4	4.8	45.3	9.2	35.7	299.4	872.6	230.0
FLATHEAD SOLE	10.9	0.8	0.0	5.9	5.4	91.6	9.8	12.2	0.0	0.0	0.0
DOVER SOLE	66.7	7.7	22.7	1.5	5.9	32.7	92.5	161.3	0.0	0.0	0.0
REX SOLE	16.3	23.1	3.4	21.5	7.9	11.6	64.4	97.5	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	1.3	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	2.9	1881.9	0.7	0.0	14.5	4.8	0.7	0.0	0.0	0.0
ROUGHEYE RKFH	11.6	0.0	0.2	16.8	50.6	8.6	0.0	4.2	0.0	0.0	0.0
THORNYHEADS	0.0	0.0	0.0	21.8	6.1	14.3	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	13.6	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	26.1	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.6	19.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RKFH	0.0	0.0	5.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	2.1	1.8	0.0	0.2	0.1	3.1	0.0	0.1	0.0	0.0	0.0
SIDE STRIPE SHRIMP	2.5	0.0	0.0	1.5	2.0	0.8	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1206.8	1277.7	6610.7	242.6	222.2	558.5	384.8	1154.4	321.8	873.9	230.0

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	266
MONTH/DAY/YEAR	8/ 5/93
LATITUDE START	58 5.4
LONGITUDE START	150 35.8
LATITUDE END	58 3.6
LONGITUDE END	150 35.8
LORAN START	32050.30
LORAN START	43044.80
LORAN END	32057.90
LORAN END	43038.60
GEAR DEPTH	77
DURATION IN HOURS	0.54
DISTANCE FISHED	1.81
PERFORMANCE / GEAR	0 /172
POLLOCK	4.2
PACIFIC COD	100.0
SABLEFISH	1409.5
ATKA MACKEREL	0.0
SCULPINS	9.1
ARROWTOOTH FL	1465.6
HALIBUT	199.3
FLATHEAD SOLE	29.2
DOVER SOLE	62.4
REX SOLE	65.4
ROCK SOLE	0.0
STARRY FLOUNDER	0.0
YELLOWFIN SOLE	0.0
BUTTER SOLE	0.0
ALASKA PLAICE	0.0
ENGLISH SOLE	0.0
PAC OC PERCH	110.9
ROUGHEYE RKFH	2.0
THORNYHEADS	0.0
NORTHERN RKFH	12.2
SHORTRAKER RKFH	0.0
DUSKY ROCKFISH	17.2
HARLEQUIN RKFH	0.0
SHARPCHIN RKFH	0.0
OTHER RCKFISH	0.0
TANNER CRAB	0.0
KING CRAB	0.0
DUNGENESS CRAB	0.0
PINK SHRIMP	0.0
SIDE STRIPE SHRIMP	0.0
SCALLOP	0.0
TOTAL CATCH	3487.0

Due to mechanical breakdown, the F/V Alsea is replaced by the F/V Progress for the remainder of the survey

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	266	267	268	269	270	271	272	273	274	275	276
MONTH/DAY/YEAR	8/17/93	8/17/93	8/17/93	8/17/93	8/18/93	8/18/93	8/20/93	8/20/93	8/21/93	8/21/93	8/21/93
LATITUDE START	59 43.5	59 35.0	59 26.8	59 10.0	59 26.8	59 15.1	59 25.3	59 4.7	59 5.9	59 0.1	58 54.3
LONGITUDE START	149 9.3	149 30.9	149 59.1	150 0.9	149 9.0	149 26.0	149 1.7	148 32.9	149 46.4	149 21.0	149 10.3
LATITUDE END	59 45.1	59 33.6	59 26.4	59 9.8	59 25.1	59 14.6	59 23.9	59 3.9	59 5.5	58 58.9	58 55.4
LONGITUDE END	149 10.9	149 29.3	149 59.3	149 57.8	149 10.1	149 23.3	149 0.9	148 30.0	149 49.2	149 19.6	149 12.6
LORAN START	31525.80	31583.30	31645.20	31724.60	31603.00	31670.00		31668.70	31729.90	31731.70	31747.00
LORAN START	43440.50	43426.90	43426.90	43350.10	43364.10	43332.30		43244.10	43313.90	43263.50	43231.00
LORAN END	31520.50	31588.10		31722.80	31610.30	31669.70	31607.90	31669.50	31734.40	31735.80	31744.20
LORAN END	43447.80	43419.00		43345.40	43359.10	43327.60	43344.40	43240.00	43314.80	43256.70	43237.00
GEAR DEPTH	104	68	84	79	120	85	107	118	108	129	115
DURATION IN HOURS	0.58	0.55	0.14	0.50	0.59	0.52	0.53	0.55	0.53	0.43	0.52
DISTANCE FISHED	1.80	1.65	0.38	1.58	1.76	1.48	1.44	1.70	1.50	1.35	1.63
PERFORMANCE / GEAR	0 /172	0 /172	6 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	8.6	0.0	6.9	0.1	61.9	21.8	121.1	43.5	87.3	52.6	10.4
PACIFIC COD	138.3	68.7	1.4	7.3	2.3	8.6	2.3	14.3	24.9	0.0	5.9
SABLEFISH	25.9	8.8	0.0	15.9	124.7	2.3	177.6	66.5	107.5	12.5	22.2
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	17.5	0.0	0.0	0.0	21.8	10.9	0.0	0.0	0.2	9.5	10.0
ARROWTOOTH FL	154.2	5352.6	19.1	679.9	175.5	457.4	105.2	67.1	160.3	19.5	63.5
HALIBUT	0.0	193.2	0.0	0.0	0.0	86.3	0.0	6.1	43.0	0.0	0.0
FLATHEAD SOLE	0.7	1.1	0.5	0.5	15.2	6.4	42.6	0.0	2.7	0.2	0.9
DOVER SOLE	21.5	18.6	1.8	12.5	5.4	17.5	3.6	25.9	1.4	1.6	10.4
REX SOLE	13.2	2.0	2.7	14.1	17.9	11.8	2.3	0.0	0.0	0.0	22.9
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	1.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	16.3	0.5	3.6	4.1	0.0	4.3	0.0	223.2	19.1	0.0	170.1
ROUGHEYE RKFH	48.5	0.0	5.0	6.8	45.8	5.7	17.0	3.6	2.9	11.8	3.2
THORNYHEADS	0.0	0.0	0.0	0.0	14.7	0.0	0.9	10.0	12.9	3.2	42.2
NORTHERN RKFH	1.1	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	23.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8
HARLEQUIN RKFH	0.2	0.0	1.1	0.2	0.0	0.5	0.0	0.2	0.2	0.0	0.0
SHARPCHIN RKFH	0.7	0.1	3.6	0.8	0.0	3.4	0.0	0.2	0.0	0.0	0.2
OTHER RCKFISH	2.5	0.0	21.3	6.1	0.0	0.0	0.0	1.4	0.7	0.0	0.7
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	13.6	0.0	5.2	4.5	8.5	2.5	0.0	0.0	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.9	0.0	0.1	0.0	5.2	0.1	0.0	0.5	2.3	0.2	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	463.7	5646.7	96.4	763.4	498.9	639.5	472.6	462.5	465.5	111.1	364.4

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	277	278	279	280	281	282	283	284	285	286	287
MONTH/DAY/YEAR	8/21/93	8/22/93	8/22/93	8/22/93	8/22/93	8/23/93	8/23/93	8/23/93	8/23/93	8/24/93	8/24/93
LATITUDE START	58 49.4	59 38.5	59 27.9	59 25.5	59 16.6	59 33.9	59 25.5	59 9.0	58 49.1	58 39.0	58 33.7
LONGITUDE START	148 52.0	148 33.3	148 20.7	148 13.9	148 11.3	148 47.9	148 28.1	148 30.2	148 31.7	148 23.4	148 32.0
LATITUDE END	58 50.5	59 37.7	59 29.4	59 24.3	59 17.9	59 35.5	59 24.5	59 9.8	58 49.9	58 39.2	58 34.7
LONGITUDE END	148 53.3	148 30.6	148 21.6	148 11.8	148 12.3	148 47.2	148 25.9	148 32.8	148 34.1	148 23.6	148 34.1
LORAN START	31751.60	31521.00	31557.50	31568.80	31599.30	31552.30	13094.80	12932.40	12747.90	12697.70	12615.10
LORAN START	43199.20	43379.30	43324.80	43309.60	43274.90	43374.50	31624.20	31513.60	31381.30	31300.40	31278.30
LORAN END	31747.90	31522.50	31551.80	31566.60	31594.80	31717.80	13094.70	12928.90	12744.80	12698.20	12614.80
LORAN END	43204.50	43373.10	43331.40	43303.50	43280.40	13115.30	31614.60	31522.50	31390.50	31301.10	31288.50
GEAR DEPTH	143	112	90	112	87	59	66	88	164	143	79
DURATION IN HOURS	0.43	0.47	0.50	0.52	0.49	0.52	0.48	0.49	0.50	0.10	0.50
DISTANCE FISHED	1.31	1.59	1.71	1.61	1.41	1.65	1.44	1.52	1.50	0.21	1.50
PERFORMANCE / GEAR	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	6 /172	0 /172
POLLOCK	0.9	32.7	117.3	5.0	5.9	0.0	0.0	0.5	4.5	0.0	0.7
PACIFIC COD	0.0	1.1	27.7	0.0	0.0	8.0	0.0	29.0	0.0	0.0	24.5
SABLEFISH	0.0	46.5	16.1	5.9	4.1	3751.7	7.7	7.3	48.5	0.0	33.5
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.2	4.5	0.2	8.2	0.0	0.0	0.0	0.0	0.0	1.2
ARROWTOOTH FL	6.4	165.1	56.5	88.7	68.3	947.6	230.0	207.3	33.6	0.0	32.3
HALIBUT	0.0	0.0	17.4	0.0	19.3	24.3	7.9	84.2	0.0	0.0	0.0
FLATHEAD SOLE	0.0	5.9	0.9	0.2	0.0	13.9	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	8.6	13.6	11.3	42.6	0.0	5.9	0.2	44.9	0.0	1.5
REX SOLE	0.0	17.9	15.4	0.2	64.2	45.8	22.2	150.6	9.5	0.0	3.4
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	4.1	1.8	147.0	0.5	12.7	2.0	0.0	0.7	0.0	0.0	525.2
ROUGHEYE RKFH	0.9	1745.0	4.3	46.3	0.1	0.0	0.0	0.0	1.1	0.0	11.2
THORNYHEADS	1.4	2.7	0.0	6.8	0.0	0.0	0.0	0.0	27.2	0.0	2.2
NORTHERN RKFH	0.0	1.4	1.8	0.0	7.3	0.0	0.0	0.0	0.0	0.0	647.9
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1012.5
HARLEQUIN RKFH	0.0	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	665.7
SHARPCHIN RKFH	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	976.9
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6
TANNER CRAB	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	2.7	1.4	9.3	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	2.5	2.0	3.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	13.7	2031.8	444.8	170.1	242.5	4793.3	273.7	479.8	169.4	0.0	3951.3

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	288	289	290	291	292	293	294	295	296	297	298
MONTH/DAY/YEAR	8/24/93	8/24/93	8/26/93	8/26/93	8/26/93	8/27/93	8/27/93	8/27/93	8/27/93	8/28/93	8/28/93
LATITUDE START	58 37.4	58 24.5	58 13.8	58 5.4	58 10.0	57 35.1	57 46.3	57 50.6	57 45.1	58 0.0	57 53.9
LONGITUDE START	149 9.0	149 19.8	148 51.8	149 33.6	149 33.3	150 0.8	149 40.8	150 8.8	150 24.2	149 39.1	149 24.0
LATITUDE END	58 37.6	58 25.2	58 15.1	58 4.9	58 9.9	57 35.4	57 46.8	57 49.3	57 44.4	58 0.0	57 55.4
LONGITUDE END	149 6.1	149 22.4	148 51.0	149 31.0	149 32.3	149 58.1	149 43.3	150 9.9	150 25.9	149 39.3	149 23.4
LORAN START	12487.00	12326.50	12366.10	12108.50	12146.60	11767.40	31094.70	32082.50	11718.20	12041.80	12070.10
LORAN START	31363.80	31295.50	31181.20	31198.40	31226.20	31062.50	11935.80	43040.50	31160.40	31174.80	31112.10
LORAN END	12501.40	12320.50	12380.70	12116.80	12150.20	11782.80	31102.10	32089.50	11703.90	12041.40	12082.50
LORAN END	31360.60	31304.00	31188.40	31191.00	31224.20	31060.20	11927.00	43037.60	31158.80	31175.10	31120.10
GEAR DEPTH	72	83	77	129	62	265	252	107	57	68	269
DURATION IN HOURS	0.50	0.49	0.49	0.48	0.18	0.50	0.49	0.50	0.45	0.04	0.50
DISTANCE FISHED	1.50	1.53	1.41	1.47	0.52	1.48	1.45	1.45	1.21	0.11	1.47
PERFORMANCE / GEAR	0 /172	0 /172	7 /172	0 /172	1 /172	0 /172	1 /172	0 /172	1 /172	6 /172	7 /172
POLLOCK	0.1	32.0	0.5	757.6	2.7	0.0	0.0	324.8	0.1	0.0	0.5
PACIFIC COD	1.6	111.6	3.2	1.8	7.3	0.0	0.0	29.5	23.1	2.5	0.0
SABLEFISH	5.0	23.8	0.0	171.9	0.0	49.0	54.9	30.6	0.0	0.7	44.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	7.0	0.0	0.1	6.9	6.8	0.2	0.0	0.0
ARROWTOOTH FL	703.1	141.5	4.6	419.2	243.1	5.9	6.4	144.9	139.5	0.0	27.4
HALIBUT	18.1	143.6	52.8	99.7	28.3	0.0	0.0	27.3	182.1	0.0	0.0
FLATHEAD SOLE	32.2	7.5	0.0	27.3	0.0	0.0	0.0	18.4	0.0	0.0	0.0
DOVER SOLE	60.3	54.4	0.0	48.5	0.0	19.1	64.0	35.4	0.0	0.0	68.3
REX SOLE	93.0	43.1	0.0	72.7	0.0	6.8	17.2	17.0	1.4	0.0	29.0
ROCK SOLE	0.3	0.0	4.1	0.0	11.8	0.0	0.0	0.0	22.9	0.3	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	3.4	0.0	0.7	5.9	0.0	0.0	0.0	7.5	31.8	2.3	0.5
ROUGHEYE RKFH	0.0	0.0	0.0	1.4	0.0	0.0	1.6	0.0	0.0	0.0	3.2
THORNYHEADS	0.0	0.0	0.0	0.2	0.0	29.0	49.4	0.5	0.0	0.0	45.6
NORTHERN RKFH	6.1	0.0	2205.4	0.0	1.4	0.0	0.0	0.0	151.3	15.9	2.9
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	1.4	0.0	34.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0
HARLEQUIN RKFH	1.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0
SHARPCHIN RKFH	2.3	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.0
OTHER RCKFISH	0.7	0.0	3.6	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.1	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	929.1	557.5	2318.9	1613.9	294.6	109.9	200.4	643.2	600.2	22.5	221.9

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	299	300	301	302	303	304	305	306	307	308	309
MONTH/DAY/YEAR	8/28/93	8/28/93	8/29/93	8/29/93	8/29/93	8/29/93	8/29/93	8/30/93	8/30/93	9/ 1/93	9/ 1/93
LATITUDE START	58 19.6	58 18.8	59 8.9	59 19.6	59 15.3	59 17.4	59 17.4	59 44.8	59 45.4	59 29.9	59 39.8
LONGITUDE START	149 25.1	149 2.2	147 54.1	147 44.9	147 25.1	146 33.2	146 33.4	148 49.7	149 2.0	147 42.6	147 42.5
LATITUDE END	58 20.3	58 20.2	59 10.0	59 19.3	59 14.2	59 17.4	59 17.4	59 44.4	59 44.1	59 28.7	59 38.5
LONGITUDE END	149 22.6	149 3.1	147 52.3	147 42.1	147 23.3	146 33.7	146 35.2	148 52.7	149 0.2	147 42.1	147 40.8
LORAN START	12262.20	12359.20	13080.70	13215.90	13258.00		13485.50	13194.60	13152.80	13319.10	13411.00
LORAN START	31273.50	31231.10	31458.50	31520.90	31458.80		31386.60	31783.70	31800.90	31592.80	31663.20
LORAN END	12278.70	12366.20	13099.10	13224.00	13447.10		13478.20	13178.90	13147.00	13309.70	13452.00
LORAN END	31273.40	31241.30	31463.70	31514.10	31447.10		31389.40	31784.60	31790.80	31582.50	31652.20
GEAR DEPTH	91	70	111	90	90	130	124	102	105	62	64
DURATION IN HOURS	0.50	0.49	0.49	0.49	0.50	0.12	0.28	0.49	0.48	0.45	0.50
DISTANCE FISHED	1.49	1.47	1.49	1.51	1.49	0.29	0.93	1.58	1.56	1.23	1.52
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	5 /172	5 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	2.7	2.7	2.7	6.4	4.5	0.0	0.0	7.3	5.9	3.4	6.8
PACIFIC COD	9.8	54.2	5.4	16.3	49.4	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	4.8	8.6	4.1	1.4	1.4	0.0	0.0	18.1	70.1	0.0	1.8
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
ARROWTOOTH FL	586.9	380.8	54.4	128.1	242.2	0.0	0.0	108.4	303.7	69.9	310.5
HALIBUT	16.6	25.2	0.0	7.6	190.9	0.0	0.0	2.0	1.4	7.8	0.0
FLATHEAD SOLE	25.4	8.4	0.2	0.1	0.0	0.0	0.0	32.7	90.0	0.1	1.1
DOVER SOLE	22.0	5.0	42.6	45.6	15.4	0.0	0.0	15.9	26.5	9.5	9.1
REX SOLE	24.0	5.4	3.2	15.2	54.0	0.0	0.0	4.1	15.6	2.7	9.5
ROCK SOLE	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	2.7	1.6	11.3	5.9	0.7	0.0	0.0	3.6	1.1	0.0	0.0
ROUGHEYE RKFH	30.2	2.0	52.6	4.1	0.1	0.0	0.0	11.6	81.4	1.8	1.8
THORNYHEADS	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0
NORTHERN RKFH	1.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	1.8	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.2	0.1	0.1	0.1	0.1	0.0	0.0	2.7	4.6	0.1	0.2
SIDE STRIPE SHRIMP	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	1.6	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	728.7	494.9	182.9	231.7	563.9	0.0	0.0	207.3	602.8	95.3	340.9

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	310	311	312	313	314	315	316	317	318	319	320
MONTH/DAY/YEAR	9/ 1/93	9/ 1/93	9/ 2/93	9/ 2/93	9/ 2/93	9/ 2/93	9/ 2/93	9/ 2/93	9/ 3/93	9/ 3/93	9/ 3/93
LATITUDE START	59 36.8	59 48.9	59 49.0	59 52.3	60 3.5	60 8.7	60 1.9	59 51.1	59 44.9	59 46.8	59 36.4
LONGITUDE START	147 11.9	147 11.8	147 1.9	147 0.6	147 9.4	147 8.9	146 41.2	146 10.8	146 28.5	146 2.0	145 52.2
LATITUDE END	59 38.2	59 47.2	59 47.5	59 53.8	60 4.8	60 7.5	60 2.6	59 52.6	59 44.0	59 46.8	59 35.7
LONGITUDE END	147 12.3	147 11.9	147 1.4	147 1.2	147 7.7	147 10.9	146 38.5	146 12.0	146 28.6	145 59.8	145 54.8
LORAN START	13505.20	13617.10	13657.60	13693.40	13765.90	13816.00	13858.60	13872.30	13749.60	13869.60	13813.10
LORAN START	31596.90	31687.70	31674.60	31698.00	31796.20	31834.30	31744.50	31608.70	31591.00	31562.60	31461.20
LORAN END	13516.60	13601.90	13645.50	13710.80	13784.40	13828.00	13875.80	13884.60	13741.20	13878.50	13796.70
LORAN END	31608.90	31675.00	31662.50	31705.30	31804.00	31797.10	31746.80	31626.00	31584.50	31559.00	31460.00
GEAR DEPTH	111	105	102	95	118	113	65	46	43	51	80
DURATION IN HOURS	0.50	0.52	0.50	0.50	0.51	0.51	0.50	0.49	0.33	0.37	0.51
DISTANCE FISHED	1.42	1.63	1.55	1.56	1.55	1.60	1.54	1.62	0.92	1.11	1.51
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172
POLLOCK	17.2	68.9	11.8	5.9	70.3	80.7	18.1	2.0	0.3	1.8	1.4
PACIFIC COD	0.0	74.6	0.0	0.0	14.5	78.5	0.0	8.2	0.1	9.1	0.0
SABLEFISH	64.4	72.3	57.6	3.6	26.8	21.3	12.0	0.0	0.0	0.0	6.8
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	7.7	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0
ARROWTOOTH FL	141.3	230.4	150.4	331.1	157.4	140.8	194.1	17.7	19.5	18.6	1533.7
HALIBUT	1.7	41.2	0.0	2.9	0.0	3.8	4.2	63.9	2.2	73.1	50.8
FLATHEAD SOLE	7.0	13.6	2.3	20.0	13.8	3.9	10.9	3.2	0.0	42.0	15.8
DOVER SOLE	92.1	112.9	13.4	30.8	57.6	62.1	6.8	0.9	0.0	0.0	286.8
REX SOLE	114.3	107.3	0.7	5.9	41.3	100.7	6.8	31.8	0.0	5.4	9.7
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.7	1.8	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.3	1.8	0.0	0.0	0.0	28.1	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	22.2	2.7	92.8	208.7	105.9	2.3	4.5	0.0	0.0	0.5	2.0
THORNYHEADS	22.9	0.9	15.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.9	0.1	0.9	0.9	0.7	0.1	1.6	0.0	0.0	0.0	0.2
SIDE STRIPE SHRIMP	1.1	1.6	1.1	1.8	10.4	14.5	0.0	0.0	0.0	0.0	0.2
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	487.4	726.5	354.0	622.2	498.8	508.7	259.1	156.2	27.0	152.3	1907.4

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	321	322	323	324	325	326	327	328	329	330	331
MONTH/DAY/YEAR	9/ 3/93	9/ 4/93	9/ 4/93	9/ 4/93	9/ 4/93	9/ 4/93	9/ 5/93	9/ 5/93	9/ 5/93	9/ 5/93	9/ 5/93
LATITUDE START	59 36.1	59 44.1	59 43.4	59 53.3	59 58.5	60 5.9	60 5.3	60 5.3	60 10.9	60 16.4	60 16.3
LONGITUDE START	145 12.1	145 11.9	144 31.0	144 42.4	144 50.8	145 3.2	145 48.6	145 38.3	145 47.5	145 59.7	145 42.3
LATITUDE END	59 34.6	59 45.5	59 43.2	59 54.3	59 59.9	60 6.3	60 6.6	60 6.3	60 11.4	60 16.4	60 15.7
LONGITUDE END	145 11.8	145 13.0	144 34.1	144 39.9	144 49.8	145 6.3	145 50.0	145 40.6	145 50.5	145 56.7	145 39.5
LORAN START	13960.70	14032.00	14171.20	14219.60	14236.70	14260.60	14089.90	14120.10	14145.60	14151.90	14215.80
LORAN START	31381.30	31448.40	31356.70	31467.60	31529.70	31618.40	31691.90	31675.00	31736.30	31800.30	31773.30
LORAN END	13948.90	14040.90	14159.40	14237.00	14253.20	14253.20	14096.40	14128.40	14139.80	14162.70	14220.40
LORAN END	31368.00	31462.60	31362.20	31471.20	31540.00	31626.90	31704.90	31686.80	31746.10	31795.90	31763.90
GEAR DEPTH	65	85	70	80	118	47	51	64	65	39	21
DURATION IN HOURS	0.49	0.53	0.50	0.50	0.50	0.51	0.51	0.50	0.51	0.50	0.53
DISTANCE FISHED	1.50	1.58	1.59	1.58	1.52	1.57	1.48	1.50	1.64	1.48	1.55
PERFORMANCE / GEAR	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.2	26.8	46.7	39.0	70.8	2.5	1.8	8.2	16.3	341.1	107.5
PACIFIC COD	0.0	3.6	13.2	0.0	9.5	0.0	0.0	0.0	11.3	216.1	11.6
SABLEFISH	0.5	22.2	18.1	55.8	105.2	1.8	3.4	4.5	28.6	1.6	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.1	0.0	0.5	0.0	0.1	0.2	0.5	0.1	0.0	0.0
ARROWTOOTH FL	478.5	346.1	243.1	193.7	248.6	81.2	355.8	206.6	499.9	97.5	8.2
HALIBUT	8.8	47.6	51.9	0.0	24.3	24.7	7.2	26.3	41.0	46.9	0.0
FLATHEAD SOLE	66.2	38.1	485.3	210.0	30.4	5.4	35.8	24.5	39.5	27.4	1.1
DOVER SOLE	1.8	286.7	19.1	49.0	118.4	0.0	11.3	28.1	29.9	0.0	0.0
REX SOLE	6.8	110.7	19.1	106.1	170.6	0.0	1.4	7.7	31.3	41.3	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	259.7
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTTER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGLISH SOLE	0.2	0.0	0.0	5.4	0.7	3.6	0.0	0.9	0.5	0.5	11.3
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.2	0.1	0.0	5.4	89.4	1.4	0.5	1.4	2.3	0.0	0.0
THORNYHEADS	1.4	4.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
HARLEQUIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.2	11.3	1.5	5.2	3.4	9.1	8.2	7.5	10.4	4.5	0.0
SIDE STRIPE SHRIMP	0.0	0.5	0.0	1.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0
SCALLOP	0.0	0.1	0.5	1.6	0.0	0.0	0.1	0.7	0.1	0.1	0.0
TOTAL CATCH	564.9	898.4	898.5	672.8	871.9	129.8	425.8	317.0	711.3	777.0	428.4

KILOGRAMS OF CATCH TAKEN BY F/V ALSEA/ PROGRESS DURING THE 1993 GULF OF ALASKA BOTTOM TRAWL SURVEY

HAUL #	332	333	334
MONTH/DAY/YEAR	9/ 7/93	9/ 7/93	9/ 7/93
LATITUDE START	57 55.2	57 57.3	58 1.0
LONGITUDE START	152 39.9	152 32.1	152 8.7
LATITUDE END	57 54.2	57 58.4	57 59.9
LONGITUDE END	152 41.9	152 30.8	152 10.5
LORAN START	11296.40	11329.90	11418.30
LORAN START	31410.50	31411.70	31401.10
LORAN END	11284.80	11344.00	11401.90
LORAN END	31408.40	31415.90	31397.70
GEAR DEPTH	57	51	89
DURATION IN HOURS	0.50	0.45	0.50
DISTANCE FISHED	1.45	1.35	1.44
PERFORMANCE / GEAR	0 /172	0 /172	0 /172
POLLOCK	191.4	569.0	488.3
PACIFIC COD	46.7	37.2	59.4
SABLEFISH	35.8	30.8	108.0
ATKA MACKEREL	0.0	0.0	0.0
SCULPINS	15.1	3.8	0.5
ARROWTOOTH FL	295.7	658.2	1124.8
HALIBUT	37.0	167.1	36.7
FLATHEAD SOLE	322.3	88.9	197.5
DOVER SOLE	10.0	13.6	18.6
REX SOLE	3.2	29.7	0.9
ROCK SOLE	5.4	36.5	1.8
STARRY FLOUNDER	0.0	0.0	0.0
YELLOWFIN SOLE	27.4	13.6	0.0
BUTTER SOLE	0.0	0.0	0.0
ALASKA PLAICE	16.8	0.0	0.0
ENGLISH SOLE	0.0	0.0	0.0
PAC OC PERCH	0.0	0.2	0.0
ROUGHEYE RKFH	0.0	5.9	12.2
THORNYHEADS	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.5	0.0
SHORTRAKER RKFH	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0
HARLEQUIN RKFH	0.0	0.0	0.0
SHARPCHIN RKFH	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0
TANNER CRAB	0.2	0.5	3.5
KING CRAB	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0
PINK SHRIMP	4.1	34.2	8.8
SIDE STRIPE SHRIMP	0.1	0.0	1.8
SCALLOP	0.0	0.0	0.0
TOTAL CATCH	1011.2	1689.7	2062.8

Section 2 (continued)

Fishing log for the F/V *Alsea/Progress*

- **Summary listing of catch rates (kilograms/
nautical mile) in descending order of
magnitude for selected species of
commercial interest**

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
267	7151.8	1.9	68
167	4086.5	2.2	67
256	3603.8	2.3	89
248	3488.7	2.0	88
98	3472.8	2.3	82
253	3223.5	2.4	46
168	3165.0	3.0	77
146	2926.9	3.4	65
121	2803.0	2.1	63
229	2474.5	2.3	76
320	2239.2	2.3	80
99	1877.7	3.0	95
152	1854.9	2.0	85
265	1785.1	3.1	77
334	1722.0	2.4	89
129	1697.2	2.5	94
79	1438.6	2.1	65
255	1356.8	2.3	80
65	1344.6	1.6	64
177	1330.6	2.5	63
223	1300.9	1.6	61
282	1266.2	1.4	59
216	1259.3	1.9	57
225	1256.1	2.7	85
83	1250.9	1.5	101
123	1174.1	2.9	97
251	1139.8	1.6	59
196	1131.3	2.5	85
108	1082.4	1.5	54
333	1074.8	1.2	51
250	1064.2	1.7	65
186	1059.9	1.3	67
228	1055.7	2.7	93
151	1039.9	2.9	104
80	1038.2	1.7	60
254	1036.0	2.5	112
288	1033.3	1.8	72
292	1030.8	2.2	62
120	1024.0	2.0	76
92	1008.1	1.5	72
101	979.7	1.9	67
191	974.5	1.7	66
269	948.7	1.9	79
179	891.0	1.9	63
165	889.7	1.4	43
88	882.8	1.6	107
299	868.5	1.9	91
96	826.6	0.0	140

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
81	812.3	1.2	50
153	772.1	3.8	192
200	732.3	3.0	88
178	719.6	1.1	43
321	703.3	1.1	65
271	681.4	1.8	85
329	672.0	2.6	65
181	654.2	1.8	47
172	641.6	3.3	130
127	641.2	2.2	102
176	639.3	3.6	129
12	639.0	1.2	57
87	635.1	2.9	107
20	631.9	2.0	49
291	628.7	3.6	129
175	615.2	3.6	103
112	610.3	1.2	56
252	607.8	3.0	93
111	589.3	1.9	80
43	582.4	1.0	61
231	577.2	2.0	76
69	576.4	1.9	75
71	574.2	0.9	62
300	571.1	1.4	70
90	548.8	2.5	99
68	541.9	0.9	60
261	531.4	4.5	85
327	530.1	2.3	51
103	506.8	1.5	81
61	490.1	2.1	80
322	482.9	2.4	85
122	482.5	1.4	73
162	479.3	1.9	84
313	467.9	2.1	95
75	459.6	0.7	60
166	455.3	2.5	91
309	450.3	1.7	64
332	449.7	1.2	57
124	447.2	1.3	59
85	440.9	1.1	50
171	440.9	3.4	157
67	432.9	0.8	67
102	431.9	1.5	68
249	431.3	2.5	93
307	429.2	2.0	105
35	428.7	1.6	73
235	423.0	4.1	77
115	419.0	1.3	68

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
233	418.1	2.9	96
128	414.5	2.7	131
104	412.5	2.1	109
169	405.6	3.9	141
107	402.4	1.4	65
131	398.2	1.2	71
66	393.7	1.4	70
141	393.6	3.1	105
188	389.1	2.1	72
39	376.2	0.6	45
135	375.2	3.2	135
325	360.5	2.5	118
303	358.4	2.1	90
232	358.3	2.0	91
246	357.2	1.8	92
170	352.2	3.2	148
283	352.1	1.4	66
45	348.3	0.8	55
219	345.7	3.9	87
125	341.6	1.3	70
100	340.5	1.2	59
323	337.1	1.9	70
161	327.1	3.6	142
42	318.5	1.7	61
199	318.3	1.7	65
160	316.5	4.0	157
133	315.4	1.8	82
311	311.7	3.0	105
60	303.8	0.9	79
328	303.7	2.2	64
284	300.7	1.6	88
14	297.4	2.0	75
19	281.7	0.9	68
62	280.2	1.4	79
13	278.1	1.7	60
316	277.9	1.6	65
106	276.1	1.5	98
95	275.2	2.4	104
116	274.6	2.0	67
220	272.4	1.9	69
324	270.3	1.5	80
72	267.3	2.7	79
93	267.3	2.4	141
84	266.8	0.5	59
195	264.3	1.5	55
105	261.0	1.6	105
114	260.1	1.6	98
119	259.9	1.9	81

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
296	254.1	1.4	57
205	249.0	2.9	87
180	239.8	1.6	36
274	235.7	2.7	108
259	232.0	2.0	109
278	228.9	2.0	112
234	227.4	2.4	91
314	223.9	4.1	118
224	223.5	2.3	94
163	221.7	1.6	39
64	220.6	1.9	83
295	220.3	2.7	107
270	219.9	2.4	120
310	219.4	2.3	111
144	215.0	3.4	138
312	213.9	2.5	102
230	211.5	2.3	96
113	208.0	1.2	61
89	205.7	1.6	108
289	203.9	1.7	83
46	202.5	1.1	49
38	201.7	0.9	57
94	199.3	2.2	100
44	198.7	0.7	56
164	198.7	2.7	40
37	195.3	1.1	54
315	194.1	2.8	113
143	190.7	2.2	111
158	189.6	3.7	147
266	188.9	2.7	104
302	187.1	1.6	90
137	184.5	1.2	77
209	177.9	3.3	198
197	166.1	4.5	106
134	165.3	1.5	88
272	161.1	2.7	107
227	158.6	2.9	101
150	152.7	4.0	140
306	151.3	2.2	102
214	147.9	3.2	167
70	145.9	2.0	107
194	145.8	1.8	48
330	145.3	2.1	39
185	142.6	1.1	41
110	133.8	0.8	65
52	130.5	0.2	36
159	130.2	4.1	155
257	127.9	2.6	132

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
132	126.9	1.6	89
308	125.2	1.1	62
10	122.6	1.6	67
280	121.4	1.9	112
202	119.4	3.6	137
76	118.3	2.9	123
142	118.2	2.5	101
174	117.5	4.0	149
201	115.1	1.6	67
326	114.0	1.2	47
260	114.0	1.8	75
73	110.7	3.7	184
268	110.5	1.9	84
97	109.6	2.6	173
245	107.0	2.7	99
281	106.7	2.0	87
173	99.7	1.0	33
139	98.9	1.5	34
4	98.7	0.9	46
138	98.5	1.8	94
77	94.0	0.7	73
48	93.1	1.8	61
25	92.7	0.7	59
82	89.9	0.4	16
222	88.3	1.9	39
273	87.1	3.0	118
276	85.9	2.5	115
213	85.5	3.9	196
28	81.0	2.4	52
301	80.5	2.4	111
203	79.7	5.3	159
279	72.8	1.0	90
126	72.7	0.4	19
215	64.4	3.2	150
212	62.3	0.5	59
207	59.7	3.3	191
17	58.8	1.7	86
258	56.0	2.5	128
210	52.0	1.5	95
63	51.4	0.9	44
285	49.3	1.3	164
24	47.8	2.3	44
287	47.5	2.4	79
16	47.4	2.2	169
318	46.7	1.5	43
217	44.2	1.0	51
5	43.3	0.6	52
11	43.1	1.3	70

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
49	42.5	0.4	45
242	41.6	4.3	45
2	41.3	3.3	135
298	41.2	3.8	269
319	36.9	0.3	51
7	34.8	3.6	202
247	32.3	0.4	61
275	31.9	2.5	129
145	31.0	3.7	159
136	30.2	0.6	56
78	29.8	2.5	161
157	26.1	3.9	38
18	25.7	2.3	128
26	25.2	0.7	48
317	24.1	0.3	46
23	22.0	0.7	51
9	21.4	0.7	36
190	21.4	0.7	42
198	20.2	0.9	58
147	19.1	3.8	39
6	18.4	0.9	62
15	16.4	2.2	137
206	16.3	7.0	42
41	15.1	2.5	40
182	13.2	0.6	38
21	12.0	1.6	40
29	11.9	2.1	44
331	11.6	0.5	21
208	10.8	1.8	267
277	10.7	4.7	143
40	10.2	5.3	38
294	9.7	2.3	252
56	9.6	3.5	42
109	9.3	0.7	50
293	8.8	2.6	265
55	8.3	2.9	38
54	7.7	3.3	35
290	7.2	1.3	77
183	5.2	1.2	38
3	4.6	0.9	136
27	4.0	1.5	44
91	3.5	2.3	45
58	3.1	0.5	45
8	2.7	0.6	57
236	2.5	2.5	21
32	2.1	3.0	43
244	1.9	3.5	49
130	1.5	1.0	18

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
218	2825.9	7.5	40
263	1034.3	10.7	39
226	1023.8	19.5	42
36	876.2	8.3	38
117	750.1	5.4	54
253	732.6	6.5	46
47	628.3	3.0	24
34	622.7	8.4	48
239	547.9	4.3	36
221	543.4	8.7	35
53	503.2	3.4	29
156	456.8	4.7	32
179	439.3	14.7	63
243	423.7	4.8	23
262	390.5	7.3	43
82	368.6	20.2	16
30	362.0	4.0	35
296	331.8	7.7	57
140	314.3	2.2	16
187	309.1	59.9	40
100	306.6	7.2	59
29	303.2	6.6	44
40	300.5	2.8	38
147	288.1	11.9	39
264	286.4	9.2	38
303	282.4	60.1	90
177	280.6	17.0	63
333	272.9	17.5	51
41	271.5	10.4	40
87	259.3	29.0	107
32	258.7	6.0	43
267	258.2	23.7	68
103	253.9	34.2	81
155	249.5	3.8	30
129	249.4	27.4	94
44	243.4	7.6	56
265	242.8	16.3	77
148	238.2	3.7	30
212	235.0	19.6	59
204	227.3	37.5	43
191	225.6	36.3	66
217	221.3	9.5	51
165	207.4	15.3	43
289	206.9	28.8	83
54	196.8	2.8	35
21	194.9	12.2	40
130	191.9	2.4	18
120	183.2	45.1	76

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
189	180.5	4.4	21
181	177.5	33.5	47
183	176.7	5.6	38
58	172.8	10.3	45
27	171.5	3.5	44
45	170.1	7.4	55
235	164.0	27.7	77
63	162.2	4.9	44
101	162.1	12.8	67
180	161.5	11.5	36
39	157.0	4.0	45
199	150.0	18.8	65
291	149.6	20.0	129
51	145.3	3.7	15
319	145.2	26.9	51
225	144.1	15.1	85
185	142.8	48.6	41
216	138.6	12.1	57
55	137.5	3.2	38
173	130.9	6.5	33
85	129.3	19.7	50
271	128.5	31.7	85
28	127.4	3.7	52
26	125.0	4.6	48
229	124.8	78.7	76
284	122.2	26.5	88
223	121.7	15.4	61
81	121.2	5.9	50
292	120.0	7.8	62
20	118.7	6.4	49
25	118.5	7.4	59
247	118.2	6.9	61
222	115.1	8.3	39
56	113.6	4.0	42
154	112.3	9.2	37
157	111.2	6.5	38
33	111.0	4.0	37
61	110.1	15.6	80
254	107.4	15.0	112
184	107.4	14.4	26
11	107.4	13.1	70
46	107.2	7.6	49
83	106.8	25.5	101
255	106.7	17.3	80
151	105.7	18.7	104
84	103.1	12.6	59
64	101.9	19.8	83
196	101.5	31.7	85

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
175	101.2	18.1	103
160	100.1	35.6	157
194	97.4	8.8	48
164	96.0	48.3	40
127	95.9	28.0	102
170	92.0	32.0	148
193	90.6	7.1	18
49	90.3	5.5	45
37	90.2	5.9	54
4	89.9	3.1	46
108	88.1	9.2	54
163	88.0	46.0	39
102	87.6	23.0	68
317	86.9	5.2	46
256	86.5	22.5	89
124	86.0	17.4	59
192	85.8	4.4	23
79	84.9	14.9	65
224	83.8	20.6	94
110	83.7	24.3	65
242	82.7	31.8	45
290	82.6	23.3	77
66	81.7	9.0	70
244	80.3	2.6	49
176	78.8	32.1	129
259	78.0	25.0	109
227	76.6	23.0	101
320	74.2	22.4	80
153	74.0	50.4	192
5	73.4	6.1	52
42	72.8	12.2	61
323	71.9	16.3	70
168	71.2	15.2	77
232	70.8	20.5	91
330	69.9	8.6	39
200	69.3	17.0	88
126	69.2	5.4	19
88	67.6	25.2	107
111	67.6	20.1	80
57	67.5	19.9	45
250	66.9	14.3	65
166	66.5	19.9	91
322	66.4	21.0	85
182	63.3	6.8	38
274	63.1	94.7	108
90	62.2	25.3	99
219	62.1	15.4	87
178	61.1	5.0	43

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
67	61.0	8.4	67
186	60.9	28.6	67
109	60.4	6.5	50
23	60.2	8.2	51
190	59.9	21.7	42
123	59.6	16.1	97
104	59.2	94.7	109
167	58.9	9.6	67
112	58.9	10.7	56
246	58.4	17.7	92
98	58.2	16.1	82
107	57.3	7.2	65
334	56.2	13.5	89
332	56.2	13.6	57
311	55.7	22.7	105
329	55.1	18.1	65
150	54.6	14.4	140
146	53.8	8.3	65
261	53.2	15.7	85
92	53.1	12.0	72
201	52.0	12.0	67
125	51.9	40.2	70
134	49.3	24.7	88
220	49.3	15.9	69
68	46.9	8.1	60
38	46.8	5.1	57
236	46.5	5.3	21
174	46.3	19.8	149
198	45.5	6.6	58
73	44.9	31.4	184
113	44.8	10.3	61
99	44.7	16.8	95
50	44.3	7.7	31
35	44.2	6.0	73
133	43.8	10.9	82
132	43.7	24.3	89
195	43.2	15.9	55
257	43.1	30.2	132
76	42.7	30.3	123
295	41.4	10.0	107
240	41.0	11.3	22
80	41.0	8.9	60
245	40.6	7.3	99
328	38.6	29.0	64
197	38.2	55.8	106
300	37.8	11.1	70
128	37.5	16.4	131
118	36.0	5.5	50

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
12	36.0	4.0	57
169	35.6	16.0	141
121	35.6	8.4	63
10	35.5	7.1	67
71	35.5	11.3	62
325	35.3	17.9	118
6	34.9	4.1	62
326	34.7	6.8	47
24	34.4	6.0	44
215	33.8	28.8	150
72	32.9	6.3	79
282	32.4	5.9	59
43	32.4	9.2	61
48	31.9	8.9	61
105	31.3	15.7	105
141	30.2	27.3	105
60	30.2	11.9	79
281	30.1	42.5	87
31	30.1	4.1	33
252	29.8	17.9	93
65	29.2	5.0	64
13	28.9	4.8	60
116	28.5	9.7	67
237	27.1	4.0	25
288	26.7	10.0	72
19	26.1	5.0	68
95	26.0	16.8	104
9	25.7	3.6	36
62	25.1	10.2	79
299	24.6	36.7	91
122	23.6	6.3	73
238	23.5	5.4	22
231	23.2	8.8	76
279	22.5	19.2	90
75	21.4	2.9	60
228	21.2	10.9	93
131	19.9	7.0	71
136	17.8	3.5	56
188	17.1	26.0	72
145	16.7	27.8	159
234	16.6	26.0	91
149	14.8	3.1	37
251	14.7	19.6	59
119	14.2	12.2	81
308	14.0	8.6	62
233	13.9	21.2	96
77	13.9	11.7	73
321	13.0	9.8	65

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
248	12.8	9.5	88
202	12.3	17.1	137
283	12.2	8.8	66
260	11.8	6.8	75
114	11.7	9.0	98
142	11.6	19.1	101
302	11.1	8.4	90
327	10.7	15.8	51
249	10.0	15.8	93
135	9.8	15.2	135
138	9.8	19.1	94
7	9.1	8.4	202
94	8.9	12.4	100
273	7.9	13.5	118
52	7.9	2.2	36
161	7.8	10.9	142
70	7.7	6.5	107
258	7.4	10.5	128
159	6.7	8.4	155
316	6.0	9.2	65
315	5.3	8.4	113
318	5.2	4.8	43
313	4.1	3.2	95
137	4.1	3.4	77
15	4.0	5.9	137
152	3.6	5.6	85
205	3.6	2.8	87
69	3.5	5.0	75
17	3.3	4.5	86
306	2.8	4.5	102
310	2.7	3.8	111
307	1.9	3.	
139	1.8	3.3	34

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
35	1075.3	1.7	73
48	963.6	1.0	61
83	729.8	0.5	101
323	673.0	1.4	70
332	490.0	0.5	57
111	449.0	0.7	80
162	379.6	0.7	84
127	332.3	1.0	102
49	314.7	0.5	45
163	309.6	0.7	39
334	302.4	0.6	89
179	298.4	0.9	63
324	293.0	0.4	80
85	282.6	0.7	50
166	270.0	0.6	91
164	261.9	0.5	40
188	236.8	0.5	72
223	236.0	0.6	61
104	227.2	0.7	109
88	221.8	0.6	107
69	215.3	0.3	75
128	214.5	1.2	131
50	211.9	0.4	31
168	209.8	0.7	77
129	201.3	0.6	94
165	187.7	0.5	43
82	186.8	0.5	16
177	185.3	0.7	63
167	175.8	0.7	67
173	169.2	1.1	33
259	157.8	0.5	109
38	153.5	0.7	57
89	149.6	0.4	108
60	148.7	0.5	79
333	145.2	0.5	51
126	136.5	0.3	19
71	135.2	0.3	62
307	127.2	0.4	105
56	122.6	1.7	42
146	121.9	0.7	65
230	109.5	0.6	96
39	107.4	0.9	45
65	101.7	0.9	64
321	97.3	0.9	65
106	96.0	0.5	98
169	95.6	0.9	141
43	93.0	0.5	61
61	84.9	0.4	80

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
134	84.3	0.5	88
319	83.3	0.8	51
42	80.8	0.6	61
133	80.2	0.4	82
112	79.0	0.6	56
138	78.5	0.4	94
172	78.1	1.0	130
45	74.4	0.6	55
161	74.3	0.9	142
79	71.8	1.2	65
103	69.6	0.5	81
105	68.3	0.8	105
272	65.3	0.6	107
75	65.2	1.0	60
220	65.2	0.5	69
186	62.4	0.4	67
68	61.9	0.4	60
52	58.5	0.6	36
62	57.4	0.4	79
175	56.5	0.9	103
139	56.2	0.7	34
113	55.8	0.6	61
327	53.4	0.5	51
322	53.2	0.6	85
329	53.0	0.6	65
114	51.3	0.7	98
219	48.9	0.7	87
131	48.6	0.5	71
288	47.3	0.8	72
306	45.6	0.5	102
80	44.3	1.0	60
325	44.1	0.6	118
116	42.3	0.5	67
291	40.9	0.4	129
330	40.9	0.6	39
210	39.7	0.4	95
132	39.2	0.5	89
224	38.7	0.7	94
110	38.6	0.8	65
160	38.4	0.9	157
299	37.6	0.7	19
46	37.2	1.4	49
137	36.7	0.5	77
102	36.7	0.7	68
191	36.3	0.6	66
328	36.0	0.5	64
265	35.5	0.6	77
20	33.6	1.2	49

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
72	32.0	0.4	79
67	31.6	0.8	67
54	31.5	1.6	35
176	31.0	0.9	129
125	28.7	0.5	70
158	28.3	1.0	147
98	28.3	1.6	82
313	28.2	0.6	95
295	27.9	0.5	107
81	27.5	0.4	50
178	27.2	1.1	43
37	26.7	0.9	54
24	26.3	2.1	44
194	25.0	0.7	48
122	25.0	0.7	73
87	24.4	0.7	107
143	23.5	0.7	111
101	23.5	0.2	67
231	23.2	0.8	76
320	23.0	1.0	80
159	23.0	1.0	155
150	22.7	1.0	140
233	22.4	0.9	96
64	22.1	0.6	83
115	22.0	0.5	68
70	20.6	0.8	107
314	19.7	1.1	118
270	19.0	0.7	120
282	18.6	1.7	59
311	18.4	1.0	105
261	18.2	0.6	85
141	18.0	0.7	105
235	17.8	0.8	77
174	17.3	1.1	149
234	17.2	0.9	91
171	16.9	1.0	157
254	15.6	0.9	112
316	15.6	0.5	65
135	15.2	0.7	135
248	14.1	1.5	88
145	13.6	1.1	159
144	13.3	0.9	138
300	12.6	0.9	70
260	12.6	0.5	75
84	11.8	0.5	59
181	11.7	0.9	47
95	11.6	0.5	104
228	11.4	1.4	93

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
310	10.9	0.8	111
289	10.8	0.4	83
41	10.1	1.9	40
271	9.5	0.9	85
180	9.4	1.5	36
257	9.3	0.8	132
258	8.5	0.7	128
185	8.5	0.9	41
121	8.3	0.7	63
44	8.2	0.7	56
278	8.2	0.5	112
123	7.8	0.5	97
326	7.6	0.3	47
5	7.3	0.5	52
55	7.2	1.3	38
170	7.2	1.1	148
14	6.9	1.0	75
18	6.6	0.3	128
232	6.6	0.6	91
142	6.1	0.9	101
124	5.9	1.4	59
63	5.8	0.8	44
107	5.8	0.7	65
100	5.3	1.1	59
315	5.3	1.4	113
222	5.1	2.0	39
203	4.5	0.5	159
317	4.3	0.8	46
227	4.2	1.1	101
25	4.0	1.2	59
274	4.0	0.5	108
94	3.6	1.7	100
253	3.5	2.0	46
312	3.2	0.6	102
57	3.0	1.8	45
51	2.8	0.3	15
268	2.6	0.5	84
187	1.9	0.5	40
309	1.6	1.3	64
331	1.6	0.5	21
205	1.6	0.6	87
267	1.5	1.3	68
77	1.5	0.5	73
66	1.4	0.7	70
76	1.3	1.8	123
151	1.3	1.0	104
238	1.3	1.0	22
255	1.2	0.9	80

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
276	1.2	0.7	115
279	1.2	0.5	90
136	1.1	2.0	56
252	1.1	0.7	93
92	1.1	1.5	72
266	0.8	0.8	104
157	0.7	1.0	38
16	0.7	0.5	169
225	0.7	1.0	85
108	0.6	1.0	54
269	0.6	0.5	79
215	0.6	1.0	150
229	0.6	0.7	76
190	0.5	0.7	42
15	0.4	0.1	137
301	0.3	0.5	111
280	0.3	0.3	112
275	0.3	0.4	129
302	0.2	0.3	90
308	0.2	0.2	62

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
320	418.7	2.2	80
322	400.0	1.8	85
261	240.2	2.0	85
325	171.7	1.5	118
168	163.6	3.7	77
311	152.8	2.1	105
167	147.5	2.5	67
310	143.0	1.7	111
146	141.2	2.9	65
208	134.3	1.6	267
260	118.6	1.7	75
73	118.2	1.8	184
153	106.3	1.5	192
298	102.4	1.1	269
294	97.2	1.2	252
254	95.5	2.5	112
213	89.3	1.3	196
288	88.7	1.5	72
315	85.6	2.4	113
314	81.9	2.2	118
98	79.7	1.5	82
289	78.4	1.8	83
265	76.0	1.8	77
291	72.7	1.4	129
324	68.4	1.0	80
123	67.4	2.5	97
281	66.7	1.7	87
302	66.6	1.7	90
285	66.0	1.7	164
97	64.0	1.6	173
214	63.2	1.1	167
301	63.1	1.6	111
120	61.4	2.6	76
188	58.2	4.2	72
207	57.1	2.0	191
259	56.3	2.2	109
295	53.8	1.4	107
203	51.9	1.9	159
101	51.3	1.9	67
186	51.1	3.0	67
313	43.6	1.6	95
223	43.4	1.6	61
102	42.9	0.0	68
328	41.3	2.1	64
329	40.2	2.2	65
307	37.5	1.8	105
93	36.8	2.1	141
228	36.8	1.8	93

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
166	36.0	4.5	91
90	33.6	2.4	99
273	33.5	2.0	118
105	32.7	2.4	105
299	32.6	2.4	91
252	32.5	2.1	93
256	32.1	1.9	89
87	31.5	3.1	107
246	30.3	2.0	92
334	28.5	4.1	89
293	28.4	0.5	265
99	27.7	2.6	95
235	27.0	2.0	77
323	26.4	1.7	70
266	26.4	1.7	104
271	26.0	2.1	85
233	26.0	1.5	96
122	25.6	2.1	73
267	24.8	2.0	68
215	24.1	1.1	150
303	22.8	1.5	90
121	22.8	2.5	63
333	22.2	1.0	51
306	22.2	1.8	102
78	21.4	2.0	161
249	19.9	2.0	93
150	19.3	3.6	140
312	19.0	1.8	102
209	19.0	2.2	198
279	17.5	1.7	90
135	17.4	3.4	135
269	17.4	1.8	79
202	17.3	2.2	137
308	17.1	1.9	62
327	16.9	1.8	51
248	16.8	1.9	88
280	15.5	1.8	112
80	15.3	2.5	60
332	15.2	1.6	57
276	14.1	1.8	115
175	14.0	2.0	103
177	13.3	1.7	63
309	13.2	1.7	64
104	12.2	2.8	109
179	12.1	1.8	63
197	12.0	3.5	106
278	11.9	1.5	112
255	11.6	1.9	80

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
113	11.6	1.6	61
170	11.5	2.7	148
79	11.4	3.2	65
116	11.0	3.0	67
253	10.9	1.4	46
95	10.9	2.3	104
196	10.6	3.3	85
268	10.5	1.3	84
245	10.5	1.2	99
124	9.9	1.8	59
316	9.7	1.7	65
103	9.5	2.0	81
227	9.4	1.9	101
258	9.2	2.6	128
142	9.1	3.0	101
283	9.0	1.9	66
129	8.4	1.5	94
229	8.3	1.8	76
162	8.0	2.0	84
178	7.7	1.5	43
300	7.5	2.8	70
119	7.0	2.4	81
205	7.0	2.8	87
270	6.8	1.3	120
225	6.8	1.7	85
114	6.5	2.5	98
191	6.4	2.6	66
219	6.3	2.8	87
143	6.2	4.0	111
62	6.2	2.5	79
200	6.1	3.0	88
89	6.0	2.1	108
66	5.6	2.7	70
201	5.6	2.3	67
272	5.6	1.6	107
158	5.4	3.0	147
144	5.2	4.5	138
65	5.0	0.8	64
171	5.0	3.0	157
76	4.9	3.5	123
234	4.8	2.5	91
61	4.6	2.2	80
96	4.5	2.1	140
83	3.8	2.7	101
220	3.7	1.5	69
172	3.6	2.5	130
88	3.4	2.6	107
77	3.0	2.5	73

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
95	439.5	1.2	104
146	332.5	1.1	65
186	279.1	1.4	67
325	247.4	0.7	118
284	218.4	0.7	88
102	199.0	1.0	68
194	188.9	1.4	48
310	177.5	0.6	111
322	154.4	0.6	85
122	153.7	1.9	73
324	148.1	0.5	80
261	145.3	1.2	85
311	145.1	0.7	105
315	138.7	1.0	113
188	137.8	1.9	72
288	136.7	0.7	72
201	122.5	1.1	67
101	121.7	1.9	67
291	109.0	0.6	129
120	104.5	1.2	76
124	104.0	1.3	59
200	103.7	1.2	88
281	100.4	0.6	87
203	99.2	0.7	159
177	94.6	1.0	63
123	94.1	1.6	97
80	93.5	1.1	60
223	93.0	1.7	61
260	82.6	0.8	75
303	79.9	0.6	90
265	79.6	1.0	77
153	77.6	0.7	192
77	72.6	1.1	73
65	71.7	1.3	64
220	67.4	1.5	69
98	64.9	1.1	82
289	62.1	0.7	83
227	61.7	1.4	101
330	61.5	0.6	39
282	61.2	0.5	59
314	58.7	0.8	118
79	54.3	1.0	65
97	53.8	0.8	173
219	52.0	1.7	87
252	51.7	1.1	93
16	49.6	0.7	169
333	48.5	0.7	51
196	47.4	0.8	85

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
195	47.3	1.5	55
298	43.5	0.6	269
317	43.2	0.5	46
89	42.8	1.6	108
135	42.3	1.6	135
329	42.1	0.5	65
116	40.4	1.5	67
25	40.0	0.9	59
67	39.1	1.2	67
214	38.2	0.6	167
165	38.1	1.7	43
92	37.5	1.3	72
191	37.3	1.8	66
66	35.7	1.2	70
299	35.6	1.2	91
255	34.9	1.1	80
150	34.1	1.5	140
283	34.0	0.6	66
257	33.9	0.9	132
198	33.9	1.4	58
72	33.3	1.7	79
167	32.9	0.8	67
276	31.0	0.7	115
18	30.9	1.0	128
213	30.7	0.6	196
90	29.9	1.2	99
43	28.5	1.8	61
160	27.5	1.1	157
121	26.9	1.2	63
233	26.6	1.0	96
323	26.4	0.5	70
294	26.2	0.6	252
295	25.9	0.7	107
94	25.4	1.1	100
278	24.8	0.5	112
105	24.3	1.6	105
179	24.2	0.9	63
254	23.4	1.6	112
178	22.8	1.1	43
270	22.4	0.6	120
302	22.2	0.6	90
307	22.1	0.3	105
205	21.7	0.9	87
202	20.9	1.0	137
87	20.8	0.7	107
159	20.2	1.1	155
259	19.9	0.7	109
279	19.9	0.7	90

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
246	19.7	1.0	92
269	19.6	0.6	79
64	19.1	1.9	83
115	19.0	1.4	68
103	18.2	1.0	81
271	17.6	0.7	85
158	17.6	1.6	147
225	16.3	1.4	85
266	16.1	0.6	104
268	15.8	0.8	84
42	15.2	1.4	61
169	14.8	0.9	141
88	14.8	0.6	107
10	14.5	0.8	67
320	14.2	0.6	80
166	14.0	1.2	91
285	14.0	0.7	164
309	13.8	0.8	64
228	13.5	1.0	93
99	12.7	1.0	95
258	12.4	1.0	128
73	12.1	1.0	184
62	11.7	1.4	79
14	11.7	1.0	75
161	11.4	1.1	142
328	11.3	0.4	64
175	11.2	1.2	103
319	10.8	0.5	51
249	10.8	1.1	93
229	10.7	1.4	76
142	10.6	1.8	101
293	10.1	0.6	265
321	10.0	0.5	65
197	9.9	1.3	106
316	9.7	0.8	65
215	9.7	0.6	150
209	9.3	0.9	198
151	8.8	1.3	104
119	8.8	1.1	81
207	8.4	0.7	191
313	8.3	0.7	95
112	8.3	0.8	56
300	8.2	0.8	70
17	8.1	1.4	86
107	7.9	0.5	65
15	7.7	0.6	137
19	7.5	1.0	68
78	7.4	1.0	161

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
60	7.3	1.0	79
248	6.7	1.1	88
106	6.3	0.4	98
93	6.2	0.9	141
143	6.2	1.3	111
168	6.1	1.3	77
129	5.7	0.8	94
306	5.7	0.4	102
231	5.6	0.9	76
287	4.9	0.7	79
308	4.9	0.5	62
332	4.8	1.4	57
256	4.8	0.9	89
301	4.7	0.5	111
75	4.3	0.0	60
69	4.2	0.8	75
61	3.5	1.0	80
272	3.5	0.3	107
145	3.3	1.8	159
100	3.0	1.3	59
253	2.9	0.8	46
114	2.9	1.1	98
171	2.9	0.9	157
267	2.7	0.5	68
104	2.5	0.6	109
296	2.5	0.8	57
38	2.3	2.0	57
232	2.3	1.1	91
85	2.2	0.6	50
172	2.2	1.0	130
327	2.0	0.2	51
5	2.0	0.6	52
12	1.8	1.5	57
235	1.6	0.8	77
96	1.6	0.8	140
224	1.6	1.4	94
137	1.5	2.5	77
334	1.4	1.0	89
45	1.3	0.4	55
76	1.3	1.8	123
210	1.0	1.5	95
26	1.0	1.5	48
312	1.0	0.5	102
176	0.9	0.5	129
174	0.9	0.5	149
134	0.7	1.1	88
55	0.7	1.0	38
11	0.6	1.0	70

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
170	0.6	0.8	148
141	0.6	1.0	105
83	0.3	0.1	101
280	0.3	0.2	112
52	0.2	0.3	36
110	0.2	0.3	65
71	0.2	0.1	62
39	0.1	0.2	45
173	0.1	0.2	33

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES YELLOWFIN SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
48	2299.6	1.3	61
82	1844.1	0.7	16
50	949.7	0.6	31
51	846.2	0.5	15
49	437.3	1.1	45
85	346.4	1.3	50
126	267.7	0.7	19
163	81.5	1.1	39
332	41.7	1.2	57
139	41.4	1.5	34
52	31.9	0.8	36
333	22.2	1.0	51
238	18.1	0.5	22
173	12.3	1.3	33
39	6.0	1.0	45
130	5.0	0.5	18
237	4.3	0.7	25
164	3.0	2.3	40
140	1.3	0.2	16
61	1.1	1.5	80
112	1.0	0.8	56
45	0.7	0.4	55

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES STARRY FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
243	750.3	4.1	23
239	671.6	5.3	36
331	369.4	2.5	21
50	253.2	2.5	31
192	137.9	5.5	23
82	120.8	2.5	16
173	85.5	6.8	33
156	78.2	9.1	32
140	69.8	3.4	16
155	53.7	10.0	30
51	30.2	2.0	15
180	16.4	7.0	36
193	14.6	8.8	18
126	8.3	3.0	19
157	6.3	8.5	38
141	3.9	3.5	105
237	3.4	5.5	25
242	3.2	5.0	45
241	3.0	5.0	22

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ROCK SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
147	461.0	2.0	39
222	439.9	1.1	39
39	401.7	0.7	45
51	378.8	1.0	15
217	328.6	1.0	51
53	308.2	1.2	29
47	307.4	1.4	24
140	306.7	1.4	16
154	297.4	2.8	37
45	273.9	0.6	55
243	268.3	1.3	23
46	262.4	0.7	49
52	259.2	0.7	36
56	232.2	1.2	42
54	220.0	1.3	35
26	172.9	1.5	48
157	169.0	2.2	38
32	161.3	1.3	43
173	159.4	1.3	33
189	159.4	2.1	21
181	149.2	1.1	47
29	139.8	0.8	44
183	135.0	1.0	38
212	121.8	1.3	59
55	120.5	1.1	38
20	111.9	1.5	49
19	108.5	1.7	68
37	103.7	0.8	54
9	102.9	1.4	36
155	101.3	1.6	30
112	100.3	1.4	56
216	98.2	1.3	57
182	96.5	1.2	38
28	96.1	1.0	52
40	91.5	1.2	38
63	83.3	1.1	44
48	82.8	0.8	61
4	81.8	1.4	46
190	79.3	1.4	42
85	78.7	1.0	50
75	78.3	1.9	60
156	75.7	1.4	32
38	70.8	0.8	57
81	69.0	1.2	50
30	68.6	1.8	35
24	68.6	1.4	44
185	66.9	0.8	41
84	64.5	1.1	59

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ROCK SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
139	64.1	1.6	34
130	62.3	0.6	18
194	62.2	1.6	48
44	61.2	0.9	56
333	59.6	1.7	51
178	58.7	1.2	43
36	56.9	0.9	38
41	55.0	1.1	40
180	53.8	1.3	36
148	52.3	1.5	30
292	50.0	1.3	62
223	47.1	1.4	61
5	45.3	1.4	52
296	41.7	1.3	57
253	40.0	1.2	46
126	37.3	0.6	19
49	37.3	0.5	45
14	37.2	2.1	75
242	35.1	0.9	45
13	33.5	2.0	60
23	31.7	1.0	51
58	30.8	0.8	45
6	30.1	1.1	62
65	30.0	1.8	64
239	28.7	2.0	36
12	28.3	1.8	57
50	28.2	1.3	31
35	20.7	1.2	73
31	20.5	1.1	33
218	17.4	1.8	40
262	16.9	1.6	43
113	16.7	1.4	61
184	15.3	1.4	26
251	15.0	1.1	59
27	15.0	1.3	44
34	14.8	1.1	48
117	14.6	1.7	54
240	14.2	0.5	22
21	14.0	0.7	40
11	13.8	2.4	70
198	13.7	1.8	58
33	13.5	1.7	37
221	13.3	1.1	35
211	12.0	1.5	43
236	11.8	0.5	21
100	10.7	1.8	59
108	10.6	1.4	54
10	10.1	1.8	67

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ROCK SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
247	9.9	1.7	61
109	8.9	1.9	50
332	8.3	1.7	57
118	8.0	1.4	50
25	8.0	1.5	59
82	7.9	0.6	16
244	6.6	1.0	49
318	6.5	1.5	43
290	6.4	1.5	77
71	5.7	1.8	62
125	5.5	2.1	70
297	5.5	0.6	68
237	5.2	0.5	25
57	5.1	0.8	45
124	4.9	2.0	59
68	4.8	1.3	60
136	4.7	2.1	56
70	4.4	1.1	107
122	4.4	1.8	73
238	4.4	0.4	22
179	4.3	1.4	63
110	4.1	1.5	65
241	3.9	0.6	22
80	3.8	1.7	60
67	3.6	1.4	67
319	3.6	1.3	51
60	3.4	1.3	79
188	3.3	1.0	72
205	3.2	0.8	87
69	3.1	1.1	75
111	3.0	1.5	80
220	3.0	0.8	69
187	2.9	0.6	40
334	2.7	1.0	89
192	2.7	0.7	23
115	2.2	3.0	68
250	2.2	1.4	65
131	2.1	0.8	71
8	2.0	0.8	57
206	1.9	0.8	42
92	1.8	2.5	72
107	1.8	3.0	65
43	1.8	1.3	61
121	1.6	2.2	63
138	1.5	3.0	94
128	1.5	2.0	131
137	1.5	2.5	77
263	1.5	0.9	39

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ALASKA PLAICE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
332	25.5	2.8	57
126	23.8	0.8	19
82	19.6	1.5	16
165	9.7	3.8	43
85	9.1	2.3	50
164	6.0	4.5	40
51	5.9	0.9	15
163	5.4	2.8	39
49	5.2	4.0	45
50	3.2	1.3	31
71	2.8	4.5	62
157	2.6	3.5	38
52	2.1	1.5	36
110	1.4	2.0	65
238	1.3	1.0	22
140	1.1	0.4	16
193	0.2	0.3	18

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
282	5012.8	2.1	59
256	2725.1	8.4	89
265	1716.9	5.6	77
253	1687.5	3.1	46
153	587.9	6.6	192
252	456.7	6.2	93
261	442.6	5.8	85
90	441.8	4.7	99
93	363.2	5.4	141
255	354.8	5.6	80
76	314.4	3.5	123
197	304.8	5.1	106
272	271.9	3.1	107
94	262.5	5.6	100
228	262.3	5.4	93
291	257.8	7.0	129
171	242.6	7.2	157
259	223.0	7.1	109
161	201.4	6.0	142
170	200.0	8.2	148
169	188.5	6.2	141
334	165.3	5.5	89
174	160.5	7.6	149
227	158.3	6.6	101
274	158.0	7.4	108
270	156.3	4.4	120
325	152.6	5.8	118
202	132.7	7.4	137
97	125.3	5.9	173
229	125.0	3.5	76
160	119.0	6.0	157
159	115.1	5.2	155
176	109.5	7.1	129
249	108.9	5.7	93
254	104.9	6.7	112
248	101.3	3.7	88
310	100.0	6.2	111
307	99.0	4.7	105
311	97.9	6.1	105
246	92.1	4.5	92
73	86.8	6.4	184
273	86.2	5.9	118
225	85.7	6.0	85
294	83.4	3.6	252
312	81.9	5.1	102
324	77.8	2.2	80
18	75.7	3.1	128
293	73.0	4.0	265

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
258	71.6	5.9	128
285	71.3	7.1	164
200	70.4	2.7	88
208	66.7	6.8	267
298	66.0	4.9	269
278	64.5	5.7	112
144	56.1	8.1	138
207	54.5	7.0	191
332	54.5	3.3	57
78	54.2	5.7	161
333	50.4	2.6	51
101	49.7	3.7	67
287	49.2	7.4	79
224	48.5	7.0	94
158	48.2	5.1	147
295	46.6	3.8	107
257	44.6	4.5	132
172	43.1	4.9	130
135	42.3	7.3	135
329	38.4	2.0	65
314	38.1	4.5	118
250	34.5	3.7	65
289	34.3	4.8	83
196	33.3	3.5	85
104	33.1	5.3	109
213	32.1	5.2	196
266	31.7	11.4	104
322	31.0	2.7	85
276	30.1	4.9	115
201	29.9	2.3	67
145	29.5	4.9	159
315	29.4	3.6	113
15	28.5	3.5	137
105	26.0	5.6	105
306	25.3	4.4	102
323	25.2	2.1	70
102	24.3	3.2	68
269	22.2	2.1	79
279	20.8	7.1	90
16	20.7	3.5	169
275	20.4	5.5	129
219	20.1	5.0	87
96	20.1	6.2	140
87	17.6	3.3	107
316	17.2	1.9	65
88	16.4	3.5	107
203	15.4	5.1	159
7	15.2	14.0	202

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
245	14.3	6.8	99
297	13.6	1.5	68
300	12.9	3.8	70
188	12.7	3.2	72
267	11.8	2.2	68
283	11.8	2.1	66
99	11.7	2.9	95
220	10.9	3.5	69
150	10.6	7.0	140
191	10.6	3.4	66
233	10.5	5.3	96
284	10.5	2.7	88
205	10.5	2.8	87
260	10.2	4.4	75
19	10.1	2.6	68
320	9.9	2.1	80
95	9.3	6.0	104
215	9.1	7.8	150
223	8.2	4.2	61
280	8.1	4.3	112
89	7.8	3.7	108
288	7.3	5.5	72
299	7.0	5.3	91
143	6.7	6.5	111
328	6.7	1.4	64
210	6.6	5.0	95
281	6.4	1.1	87
301	6.0	2.3	111
151	6.0	4.8	104
235	5.9	3.0	77
17	5.9	2.7	86
186	5.7	2.7	67
313	5.1	2.0	95
327	5.1	1.1	51
77	4.8	4.0	73
115	4.1	2.8	68
179	3.7	3.0	63
271	3.4	2.5	85
72	3.3	2.5	79
67	3.0	2.3	67
65	2.9	3.5	64
309	2.6	2.0	64
178	2.6	2.0	43
326	2.5	1.0	47
330	2.4	1.2	39
162	2.0	3.0	84
303	2.0	1.5	90
302	2.0	1.5	90

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
245	2068.5	7.3	99
102	1434.3	4.2	68
121	948.2	3.2	63
147	731.7	9.3	39
128	673.7	7.7	131
28	640.5	2.1	52
20	561.7	6.6	49
35	526.0	2.6	73
127	488.6	6.7	102
46	471.5	2.7	49
84	468.2	3.0	59
51	403.5	1.5	15
48	402.9	2.9	61
114	400.3	5.3	98
34	395.6	6.2	48
13	372.8	4.1	60
53	347.7	2.8	29
39	343.6	4.1	45
124	341.0	3.7	59
330	322.0	6.3	39
37	314.3	10.0	54
55	313.3	3.2	38
157	304.5	5.6	38
179	285.4	7.7	63
113	271.0	6.2	61
120	256.5	4.6	76
261	253.4	5.2	85
40	249.4	11.4	38
173	242.1	3.6	33
100	226.6	3.5	59
146	225.6	7.7	65
45	222.2	2.6	55
70	221.8	4.9	107
194	210.8	4.7	48
50	210.3	3.1	31
110	197.6	5.3	65
168	188.8	5.9	77
222	184.5	0.4	39
129	182.9	7.9	94
165	181.9	5.0	43
116	180.5	4.2	67
115	179.9	4.5	68
178	178.5	3.8	43
252	172.2	8.2	93
99	170.7	5.2	95
266	169.4	5.4	104
11	163.8	5.8	70
152	163.3	7.9	85

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
223	162.2	6.8	61
235	161.5	4.9	77
289	160.8	5.3	83
216	158.9	4.5	57
32	155.3	1.2	43
85	154.6	6.5	50
19	152.3	6.5	68
14	151.8	8.3	75
62	149.1	4.6	79
92	143.4	3.4	72
5	138.0	6.3	52
191	137.3	3.6	66
176	136.2	6.9	129
44	135.2	3.1	56
233	130.6	5.2	96
25	130.0	3.2	59
80	129.0	3.6	60
101	126.0	4.2	67
174	124.9	7.9	149
42	123.8	6.9	61
180	123.4	6.4	36
243	123.1	5.5	23
265	121.8	5.8	77
217	118.5	4.6	51
112	116.2	2.2	56
256	111.5	5.0	89
83	110.5	6.9	101
183	110.1	2.6	38
193	108.6	7.3	18
315	108.1	8.2	113
167	103.8	9.0	67
98	103.6	7.1	82
151	103.5	5.9	104
199	101.7	3.9	65
311	100.9	8.2	105
254	100.0	6.4	112
166	99.7	7.9	91
231	99.0	4.5	76
23	97.6	7.3	51
81	96.5	3.2	50
185	95.2	7.2	41
4	94.8	4.1	46
201	93.8	7.6	67
267	91.8	4.5	68
334	91.0	6.9	89
2	89.5	6.1	135
177	88.5	4.2	63
219	87.9	6.4	87

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
22	87.5	3.5	44
79	86.4	3.4	65
253	85.0	4.5	46
139	84.9	7.1	34
90	84.4	5.4	99
6	84.0	6.9	62
82	83.4	2.5	16
64	83.1	3.9	83
300	81.3	3.1	70
76	79.6	4.2	123
126	76.0	10.6	19
234	75.8	4.6	91
58	75.5	4.9	45
303	73.2	4.0	90
111	72.5	5.4	80
332	71.0	6.4	57
169	67.8	7.6	141
188	66.4	5.9	72
170	66.2	6.1	148
225	65.6	4.2	85
54	65.4	3.4	35
21	65.0	2.4	40
143	64.4	7.8	111
197	63.7	5.2	106
65	62.5	3.1	64
229	61.9	3.7	76
119	61.4	5.0	81
66	61.2	3.0	70
333	60.7	5.5	51
24	60.3	4.3	44
134	59.3	6.4	88
133	59.1	5.9	82
171	58.7	5.9	157
49	58.2	3.1	45
250	57.3	3.9	65
94	57.1	5.0	100
31	56.8	2.6	33
77	56.5	3.5	73
255	55.1	4.7	80
56	54.1	4.6	42
200	54.1	4.4	88
164	54.0	8.2	40
10	52.8	4.9	67
196	52.2	3.4	85
87	50.6	7.1	107
297	50.0	2.8	68
43	49.3	3.5	61
227	49.2	5.9	101

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
57	49.2	2.6	45
163	48.4	7.6	39
242	47.7	7.4	45
60	47.5	3.6	79
175	45.3	5.2	103
162	44.9	8.3	84
295	44.8	4.6	107
61	43.7	3.6	80
95	43.4	4.3	104
181	43.2	3.6	47
296	42.1	1.6	57
142	42.1	6.3	101
284	42.1	3.0	88
17	41.2	11.2	86
224	39.8	5.3	94
3	38.8	4.9	136
246	38.2	3.6	92
202	37.1	6.4	137
274	36.7	6.1	108
287	36.1	3.6	79
279	35.7	4.4	90
135	34.2	0.6	135
52	34.0	2.4	36
195	34.0	4.2	55
72	34.0	4.0	79
75	33.9	2.9	60
292	30.8	5.3	62
122	29.7	3.4	73
205	29.6	4.2	87
259	29.3	4.2	109
125	29.0	7.5	70
260	27.3	3.9	75
212	26.8	4.8	59
228	26.5	4.1	93
12	25.9	7.3	57
172	25.2	8.6	130
105	24.3	4.6	105
302	23.8	4.5	90
69	23.6	4.9	75
160	22.9	10.8	157
9	22.9	8.0	36
63	21.7	2.7	44
314	20.6	10.7	118
107	20.4	2.8	65
137	19.7	4.6	77
273	18.5	3.9	118
323	18.2	4.8	70
319	18.0	6.7	51

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
26	18.0	5.5	48
38	16.5	2.0	57
331	16.5	5.1	21
249	15.8	3.6	93
67	15.8	3.0	67
141	15.7	7.1	105
136	15.4	3.9	56
329	15.2	6.3	65
299	14.4	5.4	91
325	13.8	7.0	118
7	13.6	4.2	202
117	12.9	6.3	54
271	12.8	3.8	85
262	12.4	7.0	43
220	12.4	6.7	69
103	11.8	3.5	81
317	11.1	1.8	46
282	10.7	0.7	59
18	10.5	5.3	128
156	10.4	7.3	32
269	10.1	5.3	79
88	9.7	4.8	107
71	9.4	3.8	62
158	9.2	7.8	147
237	8.7	4.7	25
301	8.1	3.0	111
276	8.0	3.3	115
268	7.9	3.0	84
96	7.1	3.3	140
251	6.8	3.0	59
27	6.7	1.4	44
123	6.7	9.0	97
148	6.6	5.8	30
130	6.5	1.1	18
240	6.2	1.1	22
159	5.6	7.0	155
182	5.4	1.4	38
238	5.2	0.9	22
29	5.1	3.0	44
322	5.1	4.0	85
89	5.0	7.0	108
290	5.0	3.5	77
203	4.5	6.0	159
68	4.2	3.3	60
232	4.1	6.0	91
248	4.0	6.0	88
236	3.9	1.3	21
15	3.7	5.5	137

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
272	3.5	5.0	107
241	3.3	1.4	22
30	3.3	5.0	35
215	3.2	5.5	150
59	3.0	1.3	43
270	2.8	5.0	120
108	2.8	2.2	54
291	2.7	2.0	129
131	2.5	1.8	71
140	2.5	4.5	16
288	2.3	3.5	72
91	1.9	1.3	45
278	1.6	2.5	112
184	1.5	0.4	26
190	0.7	0.2	42
244	0.4	0.4	49
155	0.4	0.6	30
206	0.4	0.2	42
118	0.4	0.1	50
318	0.3	0.3	43
198	0.2	0.3	58
41	0.1	0.2	40

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ATKA MACKEREL

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
4	1795.5	2.8	46
80	64.1	3.1	60
22	62.5	2.5	44
20	38.7	3.5	49
32	18.7	1.7	43
56	12.3	3.6	42
28	11.3	3.2	52
81	11.3	3.2	50
46	9.1	1.1	49
62	7.4	3.0	79
90	6.6	2.7	99
79	6.4	3.0	65
57	6.4	1.9	45
65	5.0	3.0	64
23	4.9	0.8	51
33	4.3	3.5	37
75	4.0	3.3	60
72	3.6	2.8	79
61	3.5	2.5	80
25	3.3	2.5	59
78	2.4	4.0	161
21	2.3	3.5	40
94	2.1	3.0	100
105	2.0	3.0	105
60	1.9	3.0	79
100	1.8	3.0	59
67	1.3	2.0	67
34	0.9	1.5	48
24	0.2	0.3	44
59	0.2	0.1	43

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
93	338.7	0.4	141
153	171.3	0.5	192
73	140.7	0.3	184
203	98.5	0.5	159
209	78.3	0.4	198
202	77.7	0.7	137
294	75.2	0.3	252
97	73.6	0.6	173
298	68.4	0.3	269
213	58.4	0.3	196
276	57.1	0.8	115
208	52.9	0.3	267
293	43.2	0.2	265
285	40.0	1.1	164
215	39.7	0.6	150
78	38.7	0.4	161
310	35.6	0.8	111
257	34.3	0.9	132
16	28.9	0.4	169
259	24.6	0.9	109
214	23.6	0.4	167
312	21.3	0.7	102
18	19.7	0.4	128
274	19.0	0.9	108
270	18.5	1.1	120
273	12.9	0.4	118
313	12.2	1.3	95
76	12.0	0.5	123
207	10.4	0.2	191
258	9.6	0.7	128
280	9.3	0.4	112
322	6.3	1.0	85
15	5.4	0.4	137
275	5.2	0.6	129
7	4.9	1.5	202
96	4.3	4.0	140
278	3.8	1.0	112
301	3.4	0.8	111
287	3.3	1.0	79
277	2.3	1.0	143
321	2.0	3.0	65
272	1.4	1.0	107
311	1.2	0.7	105
307	0.9	0.2	105
295	0.7	0.5	107
325	0.7	1.0	118
306	0.6	0.5	102
151	0.6	1.0	104

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
174	0.4	0.7	149
291	0.3	0.3	129
154	0.3	0.5	37

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
278	2419.5	2.5	112
213	1077.1	3.3	196
209	556.2	3.3	198
97	313.4	3.1	173
150	298.1	3.2	140
313	294.9	1.4	95
96	212.0	2.3	140
314	150.6	1.9	118
64	132.4	2.3	83
312	131.9	1.5	102
325	129.6	1.4	118
307	115.1	1.7	105
207	96.1	3.2	191
258	79.1	2.3	128
153	77.9	2.9	192
301	77.9	2.2	111
174	64.0	2.5	149
280	63.4	1.5	112
266	59.4	1.4	104
270	57.4	2.5	120
176	57.1	2.6	129
214	56.2	3.9	167
78	49.1	2.6	161
166	44.7	2.2	91
299	44.6	2.5	91
93	42.9	1.1	141
73	37.9	2.6	184
7	35.9	2.1	202
310	34.5	1.8	111
232	29.3	1.6	91
268	28.9	0.7	84
257	26.4	2.3	132
272	26.0	2.1	107
111	20.8	2.6	80
16	20.0	3.0	169
275	19.3	2.4	129
210	19.2	1.4	95
334	18.8	3.4	89
175	17.1	2.3	103
254	16.6	2.6	112
287	16.4	2.5	79
306	16.1	1.8	102
224	15.7	2.7	94
259	14.8	1.9	109
129	14.0	1.1	94
227	12.8	1.6	101
169	12.2	3.3	141
215	10.3	1.6	150

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
158	10.1	4.3	147
61	9.9	1.8	80
333	9.6	1.3	51
269	9.5	0.8	79
271	8.4	0.4	85
125	8.1	0.7	70
104	7.8	2.5	109
324	7.6	0.7	80
62	7.4	1.2	79
316	6.5	2.0	65
261	6.2	2.3	85
132	6.0	1.0	89
302	6.0	2.3	90
2	5.6	1.1	135
279	5.6	2.4	90
171	5.4	3.3	157
138	4.9	1.6	94
298	4.8	2.3	269
273	4.7	2.0	118
170	4.7	3.3	148
274	4.3	2.2	108
276	4.3	0.7	115
203	3.8	2.5	159
311	3.7	3.0	105
76	3.5	1.0	123
143	3.3	2.1	111
308	3.3	0.8	62
246	3.2	2.4	92
315	3.1	1.7	113
300	3.1	2.3	70
329	3.0	0.3	65
320	3.0	0.9	80
135	2.9	4.5	135
88	2.7	1.3	107
309	2.6	0.5	64
60	2.5	2.0	79
265	2.5	1.5	77
110	2.4	1.8	65
294	2.4	3.5	252
95	2.3	3.0	104
172	2.2	3.0	130
83	2.1	1.5	101
291	2.0	3.0	129
328	2.0	0.3	64
3	2.0	1.5	136
326	1.9	0.2	47
128	1.9	2.5	131
69	1.7	2.5	75

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
133	1.7	2.5	82
285	1.7	0.5	164
134	1.5	2.3	88
277	1.5	2.0	143
131	1.4	1.0	71
197	1.4	2.0	106
151	1.3	2.0	104
162	1.0	1.5	84
18	1.0	1.5	128
319	0.9	0.5	51
231	0.9	0.4	76
327	0.7	0.1	51
321	0.3	0.3	65
256	0.3	0.2	89
281	0.1	0.2	87
303	0.1	0.2	90
322	0.1	0.2	85

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
197	4568.9	1.6	106
94	4463.3	1.1	100
256	2659.5	1.6	89
196	1410.6	1.2	85
287	771.9	1.0	79
96	429.9	0.0	140
57	413.2	0.8	45
215	354.7	1.4	150
273	289.4	1.8	118
76	283.8	1.4	123
214	267.7	1.4	167
276	230.1	1.3	115
7	216.3	1.6	202
279	189.5	1.0	90
153	153.7	1.4	192
90	143.4	1.4	99
265	135.0	1.2	77
205	133.8	1.5	87
15	105.4	1.3	137
203	105.3	1.4	159
18	92.1	1.4	128
22	62.5	0.8	44
166	61.3	2.5	91
296	57.9	0.8	57
95	56.6	1.2	104
168	52.3	2.3	77
8	49.3	0.6	57
297	45.5	0.6	68
93	42.1	1.5	141
274	28.0	1.6	108
259	25.0	1.4	109
268	21.1	0.8	84
266	20.0	0.8	104
281	19.9	0.8	87
250	18.7	1.4	65
301	16.8	1.2	111
19	15.7	1.5	68
3	13.8	1.0	136
213	13.8	1.3	196
16	11.9	1.8	169
124	11.7	0.8	59
191	11.5	1.0	66
103	11.5	0.6	81
295	11.4	1.4	107
4	10.7	0.4	46
2	10.5	1.0	135
291	8.8	1.2	129
302	8.6	1.6	90

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
102	8.6	0.8	68
209	8.5	1.6	198
252	7.8	1.8	93
277	6.9	1.3	143
271	6.4	0.5	85
202	6.1	1.4	137
260	6.1	1.0	75
269	5.7	0.8	79
119	5.6	0.7	81
246	5.3	0.7	92
306	5.1	1.6	102
288	5.0	1.3	72
99	4.7	0.9	95
187	4.5	0.4	40
255	4.5	1.6	80
247	4.0	0.2	61
299	4.0	1.2	91
91	3.0	1.3	45
143	2.9	2.8	111
282	2.7	1.1	59
207	2.6	2.0	191
278	2.5	1.0	112
23	2.4	0.7	51
300	2.4	1.2	70
141	1.9	3.5	105
249	1.9	1.5	93
11	1.9	0.3	70
13	1.8	0.2	60
65	1.7	0.4	64
307	1.6	1.3	105
150	1.5	2.0	140
152	1.4	0.7	85
44	1.3	0.5	56
142	1.2	2.0	101
116	1.1	0.4	67
261	1.1	0.8	85
177	1.1	1.5	63
303	1.1	0.8	90
257	1.1	1.5	132
290	1.1	0.5	77
200	1.0	0.8	88
284	1.0	0.3	88
151	0.9	0.2	104
84	0.9	1.0	59
219	0.9	1.5	87
298	0.7	0.5	269
280	0.6	0.5	112
62	0.6	0.5	79

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
267	0.6	0.3	68
109	0.6	0.5	50
28	0.6	1.0	52
77	0.6	1.0	73
108	0.6	0.3	54
88	0.4	0.6	107
333	0.4	0.5	51
32	0.4	0.5	43
100	0.3	0.5	59
21	0.3	0.2	40
146	0.3	0.4	65
228	0.3	0.4	93
313	0.1	0.2	95
110	0.1	0.1	65
5	0.1	0.0	52

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
287	1488.1	3.4	79
287	1488.1	3.4	79
22	625.0	2.8	44
22	625.0	2.8	44
57	470.3	1.8	45
57	470.3	1.8	45
102	347.6	2.2	68
102	347.6	2.2	68
204	151.5	3.3	43
204	151.5	3.3	43
166	137.3	2.8	91
166	137.3	2.8	91
268	135.5	2.7	84
268	135.5	2.7	84
191	102.2	2.4	66
191	102.2	2.4	66
290	53.2	3.0	77
290	53.2	3.0	77
256	36.9	3.6	89
256	36.9	3.6	89
124	31.5	2.2	59
124	31.5	2.2	59
296	30.6	3.4	57
296	30.6	3.4	57
94	28.6	2.7	100
94	28.6	2.7	100
227	22.8	3.2	101
227	22.8	3.2	101
279	22.2	3.2	90
279	22.2	3.2	90
265	21.0	3.5	77
265	21.0	3.5	77
146	19.2	1.8	65
146	19.2	1.8	65
32	18.7	1.4	43
32	18.7	1.4	43
59	16.5	1.5	43
59	16.5	1.5	43
168	14.0	1.9	77
168	14.0	1.9	77
269	11.4	4.5	79
269	11.4	4.5	79
331	6.5	5.0	21
331	6.5	5.0	21
48	6.4	1.8	61
48	6.4	1.8	61
190	5.5	1.1	42
190	5.5	1.1	42

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
28	5.4	2.3	52
28	5.4	2.3	52
301	4.7	7.0	111
301	4.7	7.0	111
4	3.2	0.6	46
4	3.2	0.6	46
215	3.1	1.8	150
215	3.1	1.8	150
226	2.8	1.3	42
226	2.8	1.3	42
261	2.7	4.0	85
261	2.7	4.0	85
299	2.7	4.0	91
299	2.7	4.0	91
93	2.6	3.5	141
93	2.6	3.5	141
187	2.6	2.0	40
187	2.6	2.0	40
276	2.5	4.0	115
276	2.5	4.0	115
202	2.3	3.2	137
202	2.3	3.2	137
288	2.0	3.0	72
288	2.0	3.0	72
76	1.8	2.5	123
76	1.8	2.5	123
98	1.7	2.4	82
98	1.7	2.4	82
8	1.7	2.5	57
8	1.7	2.5	57
197	1.6	2.3	106
197	1.6	2.3	106
230	1.6	2.3	96
230	1.6	2.3	96
179	1.6	2.5	63
179	1.6	2.5	63
84	1.4	1.5	59
84	1.4	1.5	59
15	1.3	2.0	137
15	1.3	2.0	137
151	1.3	2.0	104
151	1.3	2.0	104
91	1.2	1.6	45
91	1.2	1.6	45
252	0.8	1.4	93
252	0.8	1.4	93
235	0.7	1.0	77
235	0.7	1.0	77

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
204	18181.8	0.0	43
290	3448.2	1.4	77
22	2750.0	1.4	44
57	1921.6	1.6	45
287	952.2	1.6	79
297	318.2	1.5	68
296	275.6	1.9	57
119	149.1	2.0	81
102	106.7	1.7	68
187	99.0	1.2	40
4	94.2	0.8	46
103	85.5	1.9	81
151	84.3	1.5	104
94	75.0	1.4	100
124	50.3	1.4	59
90	45.1	4.2	99
65	45.0	1.9	64
120	24.4	2.0	76
121	23.0	1.7	63
256	19.2	1.8	89
23	17.1	2.0	51
146	16.6	2.0	65
95	15.5	1.3	104
265	14.9	1.6	77
197	13.6	1.0	106
152	13.3	2.1	85
281	11.3	1.6	87
261	10.5	1.9	85
226	10.3	0.7	42
19	9.8	1.9	68
288	9.0	1.9	72
24	8.0	2.5	44
198	6.5	1.6	58
292	5.8	1.5	62
77	5.4	1.8	73
201	5.2	2.1	67
202	5.0	1.4	137
205	4.5	1.8	87
298	4.4	1.6	269
11	4.4	1.8	70
268	3.9	1.5	84
66	3.8	1.8	70
59	3.8	0.8	43
13	3.6	3.0	60
214	3.5	1.7	167
196	3.3	1.3	85
150	2.7	1.2	140
92	2.6	1.8	72

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
299	2.3	1.8	91
279	2.3	2.0	90
99	2.3	3.5	95
203	2.3	1.0	159
15	2.0	1.0	137
18	2.0	1.5	128
278	1.9	1.5	112
247	1.9	1.2	61
191	1.7	0.9	66
190	1.7	0.3	42
200	1.7	1.3	88
266	1.4	2.5	104
215	1.2	1.1	150
8	1.2	1.8	57
17	1.1	1.5	86
96	1.1	1.0	140
219	1.0	1.8	87
250	0.9	1.8	65
91	0.9	1.2	45
153	0.8	1.1	192
333	0.7	0.3	51
14	0.7	1.0	75
302	0.5	0.8	90
137	0.4	0.6	77
163	0.3	0.5	39
206	0.2	0.3	42
269	0.1	0.2	79

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
209	538.8	11.2	198
7	426.1	15.1	202
207	361.7	9.3	191
97	291.8	8.2	173
213	109.8	7.2	196
208	58.8	10.0	267
73	37.1	7.4	184
153	29.4	6.7	192
16	23.0	5.2	169
214	13.2	9.5	167
78	11.6	6.5	161
129	10.8	15.5	94
203	9.8	13.0	159

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SIDESTRIPE SHRIMP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
315	20.0	0.0	113
314	14.8	0.0	118
270	6.5	0.0	120
280	4.7	0.0	112
127	3.8	0.0	102
87	3.7	0.0	107
128	3.7	0.0	131
254	3.6	0.0	112
278	3.5	0.0	112
274	3.3	0.0	108
171	3.3	0.0	157
169	3.3	0.0	141
170	3.2	0.0	148
258	3.0	0.0	128
144	2.9	0.0	138
334	2.7	0.0	89
279	2.6	0.0	90
313	2.6	0.0	95
160	2.5	0.0	157
159	2.4	0.0	155
257	2.4	0.0	132
135	2.3	0.0	135
307	2.2	0.0	105
311	2.1	0.0	105
234	2.0	0.1	91
105	2.0	0.0	105
310	1.8	0.0	111
312	1.6	0.0	102
231	1.6	0.0	76
324	1.6	0.0	80
203	1.5	0.0	159
172	1.5	0.0	130
259	1.4	0.0	109
232	1.2	0.0	91
266	1.1	0.0	104
224	1.1	0.0	94
176	1.1	0.0	129
158	0.9	0.0	147
143	0.8	0.0	111
268	0.8	0.0	84
106	0.7	0.0	98
161	0.7	0.0	142
104	0.7	0.0	109
322	0.6	0.0	85
291	0.6	0.0	129
145	0.6	0.0	159
78	0.6	0.1	161
273	0.6	0.0	118

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES SIDESTRIPE SHRIMP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
306	0.6	0.0	102
89	0.6	0.0	108
175	0.5	0.0	103
174	0.5	0.0	149
142	0.4	0.0	101
207	0.4	0.0	191
73	0.4	0.0	184
281	0.4	0.0	87
213	0.3	0.1	196
320	0.3	0.0	80
275	0.3	0.0	129
215	0.3	0.0	150
141	0.3	0.0	105
332	0.2	0.0	57
328	0.2	0.0	64
329	0.2	0.0	65
227	0.2	0.0	101
153	0.1	0.0	192
202	0.1	0.0	137
97	0.1	0.0	173
88	0.1	0.0	107
210	0.1	0.0	95
209	0.1	0.1	198
93	0.1	0.1	141
129	0.1	0.0	94
214	0.1	0.0	167
230	0.1	0.0	96
271	0.1	0.1	85
301	0.1	0.0	111
325	0.1	0.0	118
114	0.1	0.0	98
125	0.1	0.0	70
249	0.1	0.1	93
252	0.1	0.1	93
138	0.1	0.0	94

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES BROAD SNOW CRAB (=TANNER CRAB)

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
48	290.7	0.8	61
162	27.6	1.6	84
127	13.0	0.5	102
128	11.5	0.5	131
87	5.7	0.9	107
176	5.5	0.6	129
334	5.3	0.3	89
186	4.6	0.4	67
161	3.9	0.6	142
171	3.3	1.3	157
89	3.3	0.2	108
159	3.2	0.6	155
163	2.9	1.5	39
158	2.7	2.3	147
170	2.5	1.2	148
160	2.5	0.6	157
88	2.3	0.2	107
169	2.1	0.4	141
106	2.1	0.7	98
50	2.1	0.2	31
83	2.1	0.3	101
135	1.6	1.3	135
175	1.2	0.7	103
211	1.2	0.1	43
166	1.0	0.0	91
114	1.0	0.8	98
129	0.9	0.1	94
333	0.7	0.1	51
144	0.6	0.2	138
84	0.5	0.6	59
210	0.5	0.1	95
143	0.5	0.3	111
62	0.5	0.0	79
125	0.5	0.7	70
332	0.3	0.0	57
187	0.3	0.5	40
167	0.2	0.1	67
52	0.2	0.3	36
51	0.2	0.1	15
278	0.2	0.1	112
280	0.2	0.3	112
281	0.1	0.2	87
232	0.1	0.2	91
111	0.1	0.1	80
133	0.1	0.1	82
233	0.1	0.1	96
68	0.1	0.1	60
138	0.1	0.1	94

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES BROAD SNOW CRAB (=TANNER CRAB)

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
150	0.1	0.0	140
177	0.1	0.1	63
73	0.1	0.1	184
131	0.1	0.0	71
112	0.1	0.1	56
200	0.1	0.1	88
230	0.1	0.0	96
327	0.1	0.1	51
134	0.1	0.0	88
231	0.1	0.1	76
309	0.1	0.1	64
254	0.1	0.1	112
71	0.1	0.1	62
104	0.1	0.1	109
201	0.1	0.1	67
137	0.1	0.0	77
145	0.1	0.0	159
126	0.1	0.1	19

1993 GULF OF ALASKA TRIENNIAL SURVEY
F/V ALSEA/PROGRESS

SPECIES WEATHERVANE SCALLOP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
324	2.2	0.4	80
50	1.6	0.8	31
328	1.0	0.3	64
323	0.6	0.5	70
327	0.2	0.1	51
330	0.2	0.3	39
322	0.1	0.2	85
329	0.1	0.2	65

Framing lines 89'1"/120'7"

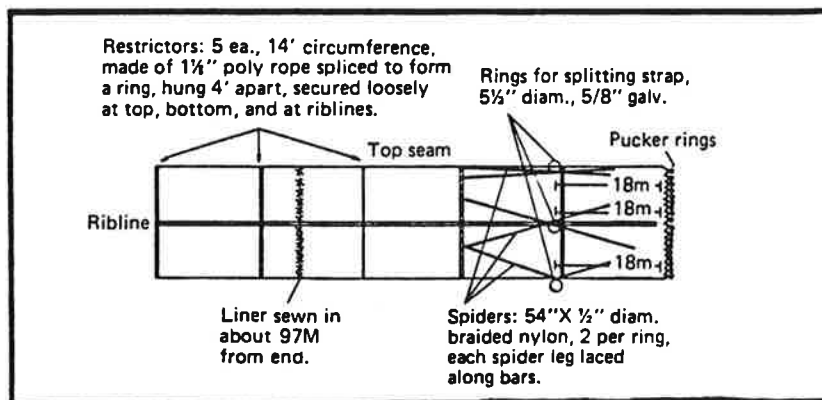
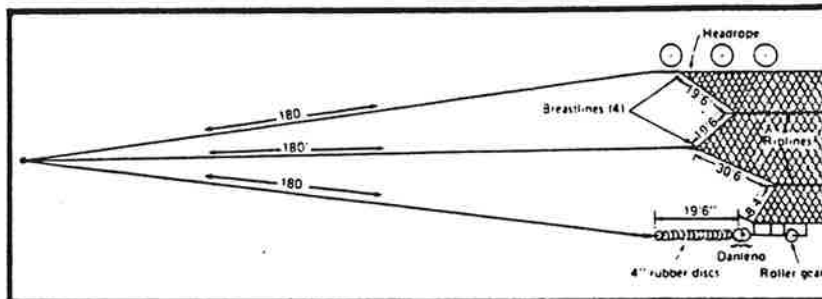
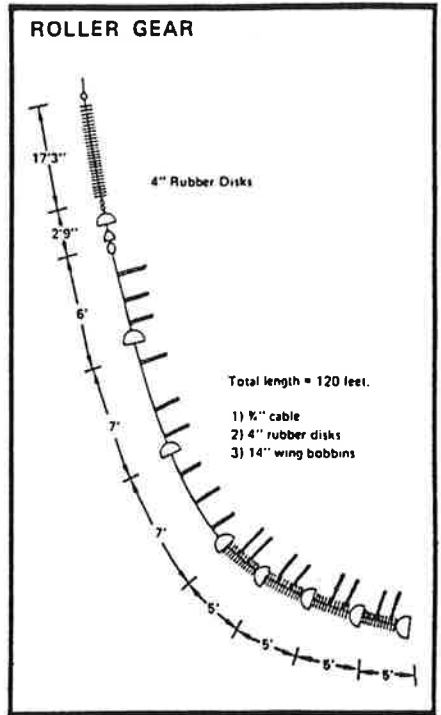
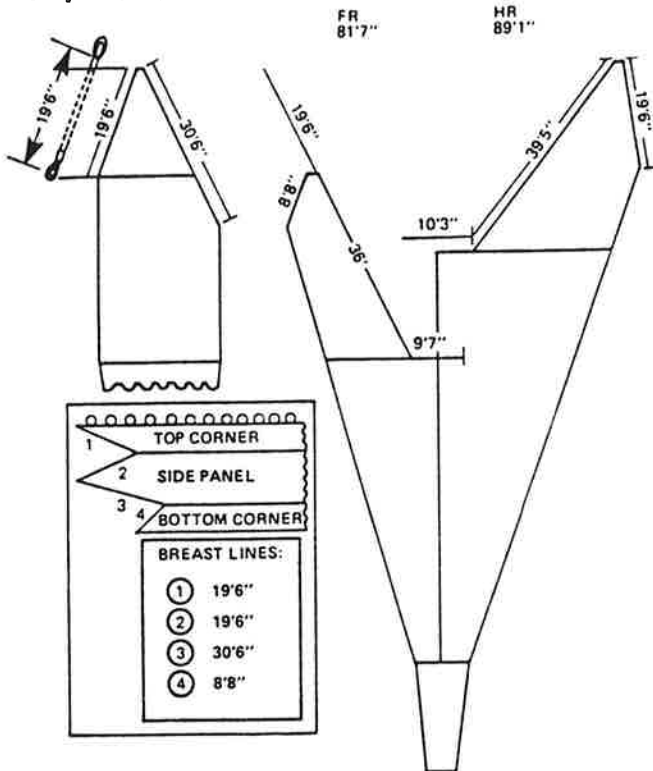


Figure A-1.--Schematic diagram of the bottom trawl, roller gear and accessory gear used by the chartered trawlers *Alsea* and *Argosy* during the 1993 triennial bottom trawl survey of the central and western Gulf of Alaska.