



**Northwest and  
Alaska Fisheries  
Center**

National Marine  
Fisheries Service

U.S. DEPARTMENT OF COMMERCE

**NWAFRC PROCESSED REPORT 88-20**

Fishing Log: 1987  
Triennial Bottom Trawl Survey  
of the Eastern Gulf of Alaska  
July-September 1987

August 1988

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Fishing Log: 1987 Triennial  
Bottom Trawl Survey of the Eastern Gulf of Alaska  
July - September 1987

FV Let's Go  
FV Nore-Dick

by

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and

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August 1988



## Table of Contents

	Page
Introduction.....	3
Section I: Geographical Locations of Trawl Stations.....	5
Section II: Station Data and Trawl Specifications.....	9
Section III: Catch Rates, Average Individual Weights, and Depth of Capture by Species.....	26



## INTRODUCTION

This report gives results of the second triennial groundfish survey conducted in the eastern Gulf of Alaska. The National Marine Fisheries Service, Northwest and Alaska Fisheries Center (NWAFC) Auke Bay Laboratory (ABL) conducted a bottom-trawl survey of the eastern Gulf of Alaska from 12 July to 11 September 1987. The 1987 survey was a continuation of triennial surveys conducted in 1981 and 1984 in the eastern Gulf of Alaska in cooperation with the NWAFC Resource Assessment and Conservation Engineering Division (RACE).

Objectives of the survey were to 1) determine distribution, abundance, and size composition of major groundfish species inhabiting the continental shelf and upper slope of the eastern Gulf of Alaska, 2) collect biological data for age determination and food habits of selected species, and 3) trawl selected stations on the continental shelf to detect sablefish nursery areas and upcoming strong year classes of sablefish.

Two trawlers, the FV Let's Go and the FV Nore-Dick, were used in the eastern area for the survey. Section I shows geographical location of trawl stations. Section II gives station data and trawl specifications. Section III lists in alphabetical order summaries of catch data of commercially important species. Within each species summary, catches are listed in descending order of quantities captured.



The area surveyed extended from 144°30'W near Cape St. Elias south to the U.S./Canada border in Dixon Entrance, and included depths from 50 to 700 m. During the survey, 137 trawl hauls were made, 51 by the Let's Go and 86 by the Nore-Dick. Except for 11 hauls, all hauls were considered valid for survey analysis. Hauls were considered unsuccessful if the net was severely torn or hung on bottom before being dragged for 10 min. The Let's Go did not fish any waters deeper than 300 m and only surveyed the area west of 139°00'W (Fig. 1). The Nore-Dick surveyed stations throughout the entire survey area and depths from 50-700 m (Figs. 2, 3). Both trawlers, the 25.9 m (85 ft) Let's Go and the 23.5 m (77 ft) Nore-Dick are house-forward style trawlers equipped with modern trawling systems and a full complement of navigation and fishing electronic systems.

A high-opening, polyethylene Nor'eastern trawl was used on each vessel. This net was chosen as the most appropriate standard for a multi-species bottom trawl survey in the Gulf of Alaska based on results from the 1984 triennial survey (see Fig. 4 for diagram and specifications of net).

This report is intended for use by the commercial fishing industry and does not contain data analysis. More detailed treatment of these data will be forthcoming in a technical report to industry and management agencies. To receive other reports or information pertaining to this survey contact:

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SECTION I

Geographical Locations of Trawl Stations



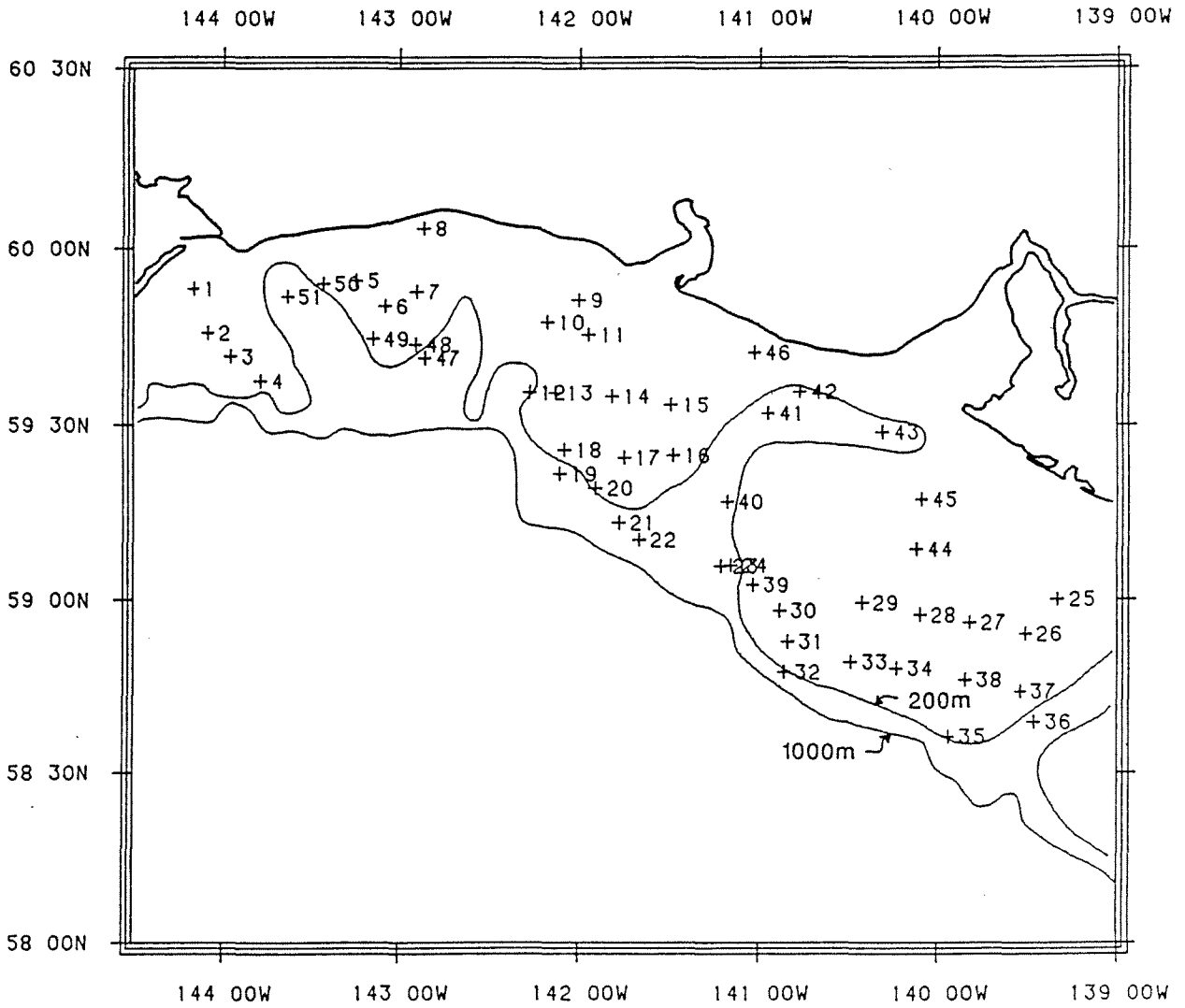


Figure 1. Trawl stations fished in the Yakutat area by the FV Let's Go, 1987 triennial bottom trawl survey of the eastern Gulf of Alaska.

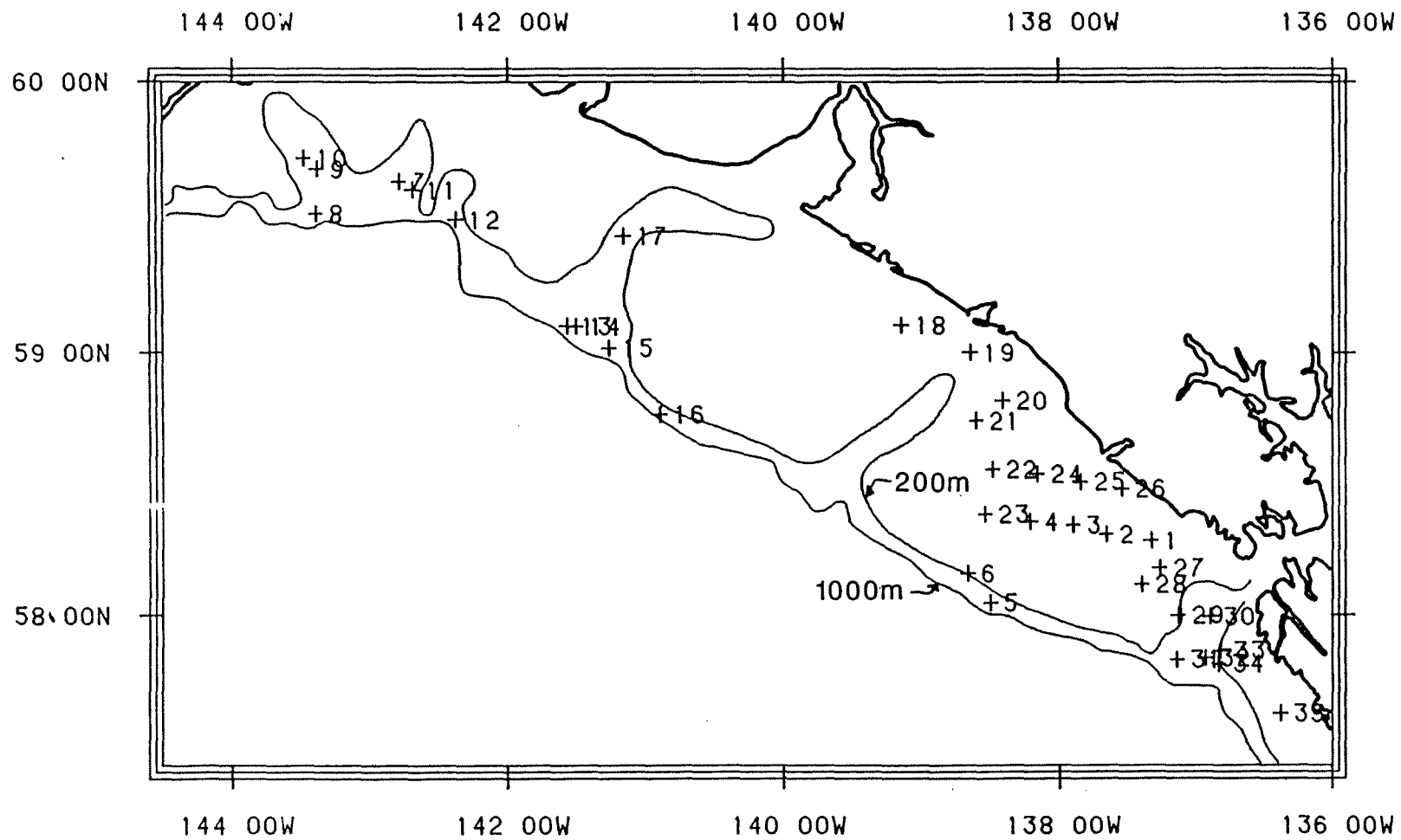


Figure 2. Trawl stations fished in the Yakutat and Southeastern areas by the FV Nore Dick, 1987 triennial bottom trawl survey of the eastern Gulf of Alaska.

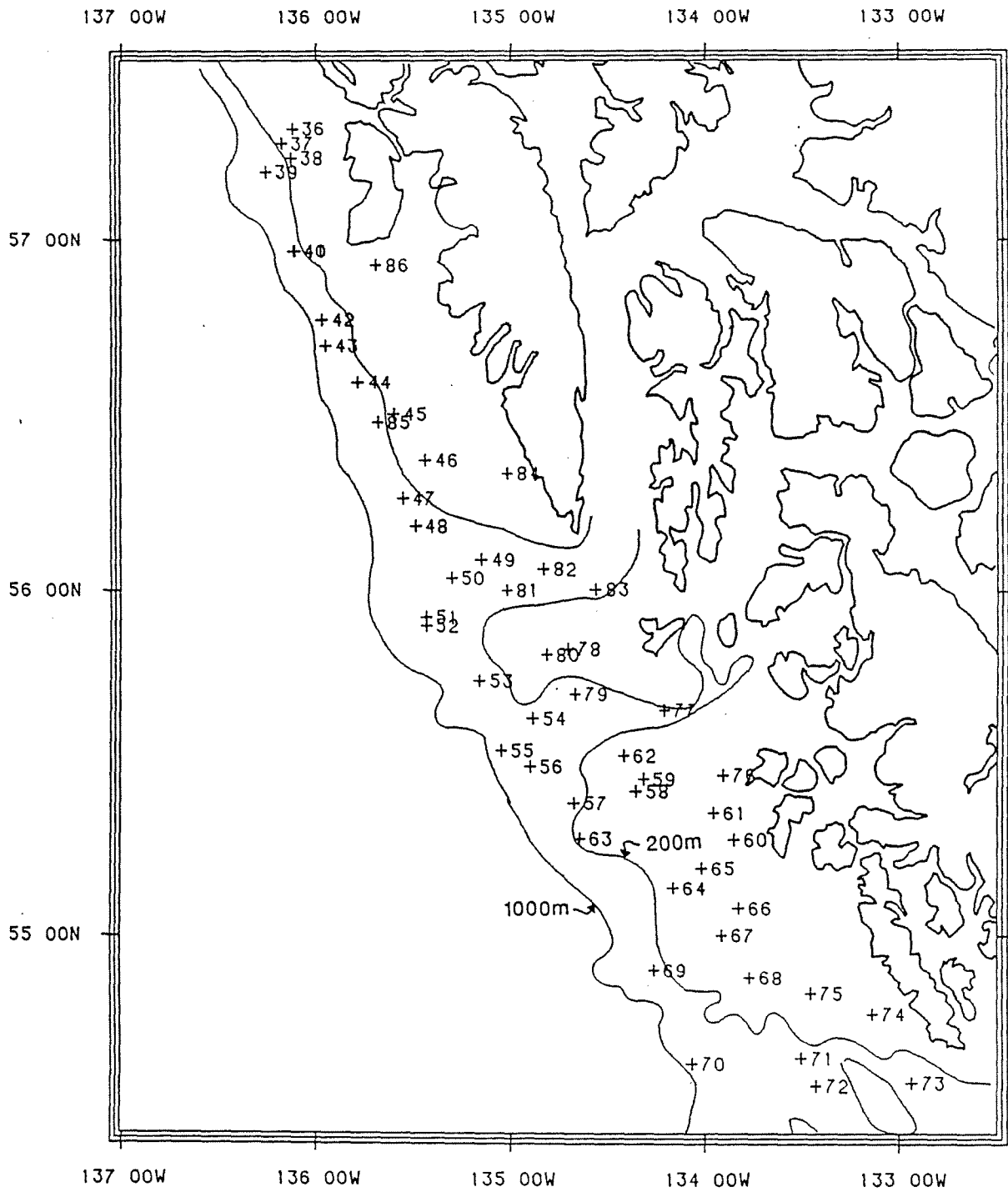
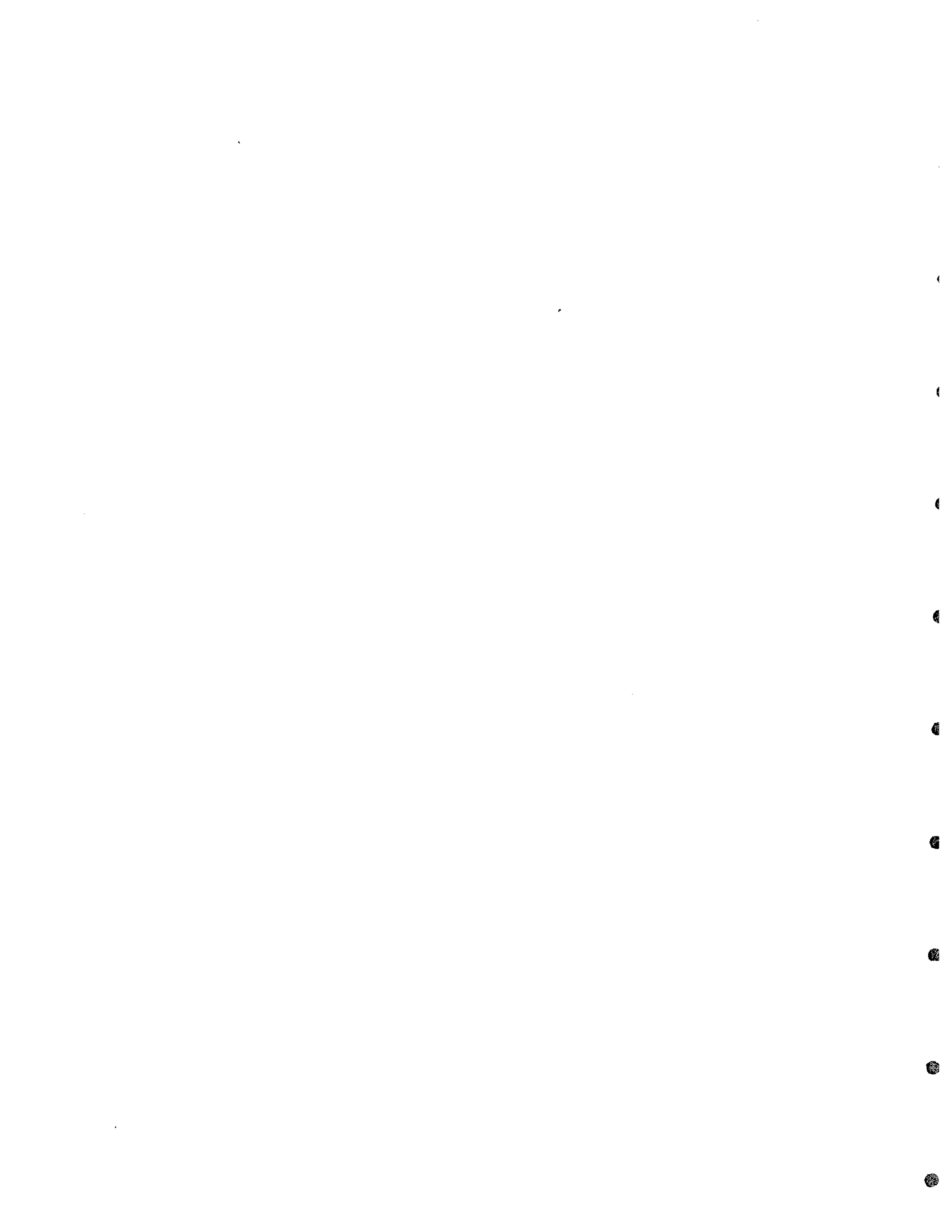


Figure 3. Trawl stations fished in the Southeastern area by the FV Nore Dick, 1987 triennial bottom trawl survey of the eastern Gulf of Alaska.



SECTION II

Station Data and Trawl Specifications





Codes used in Tables

Gear depth	fathoms
Duration	tenths of an hour (1/2 h was standard on-bottom towing time)
Distance fished	nautical miles
Performance	0 = satisfactory 1 = satisfactory although the net hung up or tore (trawl was hauled early, but the damage to net and fish loss was determined to be minimal) 5 = unsatisfactory 6 = unsatisfactory, hung up 7 = unsatisfactory, torn net
Gear	170 = 87/116.7' polyethylene Nor'eastern net with roller gear
Catch	pounds per hour



LET'S GO CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/13/87	7/13/87	7/14/87	7/14/87	7/15/87	7/15/87	7/15/87	7/15/87	7/16/87	7/16/87	7/16/87
LATITUDE START	59 53.1	59 45.6	59 41.6	59 37.4	59 54.5	59 50.2	59 52.6	60 3.4	59 51.3	59 47.5	59 45.4
LONGITUDE START	144 10.0	144 5.1	143 57.3	143 47.2	143 14.4	143 4.4	142 53.8	142 51.7	141 59.8	142 10.7	141 56.7
LATITUDE END	59 52.1	59 46.9	59 41.6	59 36.7	59 54.5	59 49.0	59 53.6	60 3.3	59 50.7	59 46.6	59 46.0
LONGITUDE END	144 12.9	144 7.0	143 54.3	143 45.8	143 11.3	143 2.5	142 51.3	142 48.5	142 2.7	142 13.1	141 53.7
LORAN START	14330.40	14280.90	14272.30	14269.60	14520.00	14512.80	14565.20	14663.80	14703.20	14643.40	14663.30
LORAN START	31398.00	31320.40	31266.50	31205.00	31278.60	31213.20	31208.00	31303.10	31043.60	31040.00	30979.00
LORAN END	14311.70	14285.70	14281.60	14267.70	14529.30	14518.60	14581.00	14671.80	14690.60	14629.20	14676.00
LORAN END	31395.50	31336.10	31258.90	31194.80	31270.70	31196.80	31210.60	31293.90	31046.80	31038.30	30975.70
GEAR DEPTH	30	57	69	83	78	91	82	28	35	66	52
DURATION IN HOURS	0.50	0.50	0.50	0.33	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.79	1.60	1.51	1.04	1.56	1.56	1.61	1.57	1.61	1.54	1.63
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	1 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170
POLLOCK	2.8	1.0	0.0	0.0	2.6	12.0	8.0	160.0	49.0	5.0	3.0
PACIFIC COD	0.0	0.0	0.0	193.9	0.0	0.0	0.0	68.0	44.0	0.0	0.0
SABLEFISH	0.0	5.0	5.0	45.5	12.0	8.0	3.0	12.0	20.2	7.2	10.0
LINGCOD	0.0	22.0	6.0	3.0	7.0	8.0	0.0	6.0	68.0	12.0	21.0
PACIFIC OCN PERCH	0.0	0.0	0.0	0.0	0.0	12.0	24.0	0.0	0.0	0.0	0.0
SHARPCHIN ROCKFISH	0.0	0.0	0.0	397.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	1.0	12.0	7.6	1.6	5.0	6.0	0.0	0.0	2.0	0.0
SHORTRAKER ROCKFISH	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	1571.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE THORNY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	318.2	0.0	3.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUND FISH	11603.2	2.2	3.2	0.0	27.8	38.6	13.4	159.4	3000.8	162.2	37.2
TOTAL ROUND FISH	11606.0	31.2	26.2	2536.4	52.0	86.6	54.4	405.4	3182.0	188.4	71.2
ARROWTOOTH FL	0.0	136.0	589.0	200.0	268.0	190.0	516.0	6.0	136.0	329.2	250.0
FLATHEAD SOLE	0.0	94.0	5.0	0.0	666.0	18.0	24.0	6.0	52.0	287.0	75.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	2.8	4.0	17.0	30.3	2.0	1.0	1.0	102.0	13.0	2.4	0.0
DOVER SOLE	0.6	0.0	6.0	0.0	2.6	32.0	24.0	3.0	1.2	8.0	0.0
PACIFIC HALIBUT	358.8	184.2	176.6	318.8	18.4	14.4	0.0	36.8	27.4	8.4	264.4
OTHER FLATFISH	3.8	0.0	0.0	0.0	0.2	0.0	0.0	74.0	60.0	2.0	0.0
TOTAL FLATFISH	366.0	418.2	793.6	549.1	957.2	255.4	565.0	227.8	289.6	637.0	589.4
SKATES	0.0	0.0	45.0	0.0	0.0	75.0	80.0	0.0	0.8	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	28.0	42.0	12.0	0.0	6.0	0.0	33.0
OTHER ELASMOBRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	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	0.2	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	1.0	9.0	3.0	0.0	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	13.6	4.0	0.0	569.7	0.0	5.4	6.0	0.0	10.8	0.0	12.6
TOTAL INVERTS	13.6	4.0	0.0	572.7	1.2	14.6	9.2	0.0	10.8	0.0	12.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	11985.6	453.4	864.8	3658.2	1038.4	473.6	720.6	633.2	3489.2	825.4	706.2

## LET'S GO CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/17/87	7/17/87	7/17/87	7/17/87	7/18/87	7/18/87	7/18/87	7/18/87	7/19/87	7/19/87	7/19/87
LATITUDE START	59 35.6	59 35.5	59 34.9	59 33.4	59 24.8	59 24.4	59 25.8	59 21.6	59 19.2	59 13.3	59 10.3
LONGITUDE START	142 16.6	142 7.8	141 48.8	141 29.1	141 28.7	141 45.1	142 4.9	142 6.4	141 54.3	141 46.6	141 40.0
LATITUDE END	59 36.8	59 36.0	59 34.6	59 33.4	59 23.3	59 24.7	59 25.9	59 20.1	59 19.4	59 12.0	59 10.7
LONGITUDE END	142 15.0	142 4.9	141 45.8	141 26.1	141 29.2	141 48.0	142 7.9	142 5.4	141 51.2	141 45.5	141 41.4
LORAN START	14530.00	14553.50	14600.00	14639.20	14573.30	14527.00	14483.70	14447.20	14462.00	14437.90	14433.50
LORAN END	14544.00	14565.60	14605.30	14646.60	14560.80	14521.80	14477.00	14438.30	14471.90	14431.30	14433.10
GEAR DEPTH	127	101	83	72	102	101	107	129	111	136	124
DURATION IN HOURS	0.49	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.25
DISTANCE FISHED	1.44	1.56	1.55	1.55	1.51	1.53	1.54	1.63	1.61	1.41	0.80
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170
POLLOCK	716.3	51.6	3.0	0.0	30.0	13.6	17.0	43.0	18.0	47.8	64.0
PACIFIC COD	0.0	37.4	0.0	0.0	0.0	0.0	16.0	98.4	43.0	0.0	64.0
SABLEFISH	50.0	94.0	27.4	12.0	4.6	0.0	84.0	227.8	287.0	530.6	372.0
LINGCOD	0.0	36.6	0.0	33.0	32.0	0.0	8.0	0.0	14.0	0.0	0.0
PACIFIC OCN PERCH	4.5	8.0	0.0	0.0	261.0	21.2	42.0	3343.6	67.0	10894.9	7900.0
SHARPCHIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.0	35.0	388.0	2.4
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	51.0	2.0	22.0	0.0	0.0
ROUGHEYE ROCKFISH	8.2	2.4	10.0	6.0	31.0	26.0	6.0	1.6	11.6	0.0	10.0
SHORTTRAKER ROCKFSH	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	192.0	5.6	36.0	8.0	148.0	116.9	180.0
SHORTSPINE THORNY	84.7	0.0	0.0	0.0	1.6	0.0	3.2	66.0	0.0	95.7	64.0
OTHER ROCKFISH	2.7	0.0	0.0	0.0	0.0	0.0	11.0	4.0	5.8	31.8	46.0
OTHER ROUND FISH	46.1	21.4	42.8	18.0	0.8	25.2	6.4	6.0	2.4	42.4	1.6
TOTAL ROUND FISH	912.4	251.4	83.2	69.0	553.0	91.6	282.0	3808.4	653.8	12148.2	8704.0
ARROWTOOTH FL	156.1	396.8	800.0	1058.0	686.6	169.0	131.6	200.0	150.0	202.0	212.0
FLATHEAD SOLE	0.0	5428.6	191.0	148.0	0.4	1.0	0.0	0.0	0.0	0.0	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
REX SOLE	26.5	0.0	2.0	0.0	4.0	7.0	52.0	75.0	173.0	21.2	28.0
DOVER SOLE	115.3	801.6	108.0	118.0	46.0	29.2	15.0	172.0	46.0	53.1	20.0
PACIFIC HALIBUT	428.6	16.8	1068.8	123.0	0.0	0.0	341.2	0.0	160.0	0.0	294.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	726.5	6643.8	2169.8	1447.0	737.0	206.2	539.8	447.0	529.0	276.3	554.0
SKATES	3.1	0.0	74.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	9.8	0.0	5.6	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.2	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	0.2	4.0	0.6	0.0	0.2	0.0	0.0
SIDESTRIPE SHRIMP	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
OTHER INVERTS	4.9	0.0	4.2	2.0	0.0	9.4	14.2	4.2	1.6	0.0	24.0
TOTAL INVERTS	6.1	0.0	4.2	2.0	0.2	13.4	15.2	4.2	1.8	0.0	24.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1658.0	6895.2	2336.8	1544.0	1337.2	311.2	837.0	4259.6	1184.6	12424.5	9282.0

LET'S GO CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	7/20/87	7/20/87	7/22/87	7/22/87	7/22/87	7/22/87	7/22/87	7/23/87	7/23/87	7/23/87	7/23/87
LATITUDE START	59 5.7	59 5.9	58 60.0	58 54.1	58 56.0	58 57.3	58 59.4	58 58.0	58 52.7	58 47.4	58 49.2
LONGITUDE START	141 12.4	141 9.4	139 19.7	139 30.3	139 49.1	140 5.8	140 25.5	140 52.9	140 50.2	140 51.4	140 29.0
LATITUDE END	59 6.4	59 6.8	58 58.7	58 55.0	58 55.9	58 57.4	58 59.4	58 57.0	58 51.3	58 46.5	58 48.8
LONGITUDE END	141 15.1	141 11.8	139 18.1	139 27.9	139 47.9	140 7.4	140 25.6	140 55.2	140 48.8	140 50.2	140 31.0
LORAN START	14473.00	14481.80	14696.80	14635.00	14606.30	14577.00	14545.10	14467.70	14437.20	14397.50	14466.20
LORAN END	30468.70	30460.20	30020.30	30003.70	30090.30	30162.30	30251.00	30332.80	30274.50	30231.00	30169.50
LORAN END	14470.80	14482.70	14691.60	14646.30	14608.40	14574.20	14544.70	14454.80	14443.09	14394.50	14458.40
LORAN END	30483.70	30477.20	30002.30	30003.40	30085.30	30169.30	30251.00	30331.10	30256.70	30219.10	30172.60
GEAR DEPTH	151	127	60	72	76	84	91	106	107	118	105
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.20	0.28	0.05	0.50	0.50	0.33	0.37
DISTANCE FISHED	1.54	1.59	1.53	1.56	0.61	0.85	0.05	1.55	1.62	1.06	1.12
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	1 /170	1 /170	6 /170	0 /170	0 /170	0 /170	1 /170
POLLOCK	318.0	36.0	18.0	4.0	1.0	5.4	0.0	4.0	16.4	90.9	18.9
PACIFIC COD	0.0	514.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	88.0	338.0	0.0	0.0	0.0	7.1	0.0	8.0	42.0	224.2	10.8
LINGCOD	0.0	34.0	0.0	0.0	0.0	10.7	0.0	78.0	58.0	24.2	8.1
PACIFIC OCN PERCH	326.0	1526.0	0.0	0.2	0.0	2.5	0.0	58.0	170.0	4036.4	102.7
SHARPCIN ROCKFISH	1.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	106.0	3.0	89.2
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.7	160.0	0.0	44.0	0.0	6.8
ROUGHEYE ROCKFISH	20.0	0.0	0.0	0.4	0.0	0.0	0.0	1.0	0.2	0.0	24.3
SHORTRAKER ROCKFSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	5.0	4.0	0.0	65.0	25.0	16.1	1850.0	420.0	424.0	36.4	567.6
SHORTSPINE THORNY	58.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0	89.0	12.1	18.9
OTHER ROUND FISH	18.0	25.4	39.8	8.2	9.5	7.9	0.0	16.0	15.2	0.3	0.0
TOTAL ROUND FISH	834.0	2501.4	57.8	77.8	35.5	50.4	2010.0	684.0	964.8	4427.9	847.3
ARROWTOOTH FL	208.0	312.0	146.0	6.0	11.0	71.4	0.0	247.0	368.0	333.3	173.0
FLATHEAD SOLE	3.0	0.0	0.2	2.4	6.0	17.1	10.0	0.0	0.0	0.0	5.4
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	20.0	44.0	0.0	0.0	0.0	21.4	0.0	54.0	16.0	30.3	48.6
DOVER SOLE	68.0	42.0	0.0	0.0	59.0	6.4	0.0	2.0	5.0	42.4	8.1
PACIFIC HALIBUT	0.0	325.8	98.0	0.0	0.0	101.1	0.0	79.6	563.2	328.8	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	0.0
TOTAL FLATFISH	299.0	723.8	244.2	8.4	76.0	217.5	10.0	382.6	952.4	736.4	235.1
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.5	0.0
SPINY DOGFISH	0.0	0.0	48.4	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	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	0.4	0.4	0.5	0.0	2.0	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	0.2	0.5	0.4	0.0	0.2	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	2.0	0.0	0.0
OTHER INVERTS	14.6	3.6	1.4	0.8	16.0	27.9	102.0	1.4	27.0	5.8	0.5
TOTAL INVERTS	14.6	3.6	2.0	1.4	17.0	28.2	106.0	2.6	29.0	5.8	0.5
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1147.6	3228.8	352.4	100.6	128.5	296.1	2126.0	1069.2	1946.2	5321.5	1083.0

LET'S GO CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	7/23/87	7/24/87	7/24/87	7/24/87	7/24/87	7/25/87	7/25/87	7/25/87	7/25/87	7/25/87	7/26/87
LATITUDE START	58 48.0	58 36.2	58 38.7	58 44.0	58 46.0	59 2.5	59 16.9	59 31.9	59 35.6	59 28.7	59 8.6
LONGITUDE START	140 13.7	139 55.8	139 27.2	139 32.0	139 50.4	141 2.0	141 10.8	140 56.8	140 46.2	140 18.5	140 6.9
LATITUDE END	58 47.9	58 35.7	58 38.4	58 42.7	58 45.5	59 3.5	59 18.4	59 31.3	59 35.2	59 29.2	59 8.4
LONGITUDE END	140 10.9	139 58.6	139 24.2	139 30.1	139 45.6	141 4.3	141 11.6	140 57.7	140 47.2	140 17.6	140 4.9
LORAN START	14495.70	14460.20	14542.30	14565.30	14636.60	14476.40	14559.20	14707.00	14759.80	14770.10	14652.80
LORAN START	30104.60	29932.30	29849.70	29916.20	30001.80	30404.10	30566.60	30662.60	30663.00	30502.50	30271.90
LORAN END	14501.60	14449.90	14546.70	14561.40	14539.90	14477.60	14568.50	14699.60	14753.80	14776.00	14655.40
LORAN END	30093.70	29937.30	29835.50	29897.60	29987.30	30421.10	30583.30	30659.50	30662.00	30504.60	30262.60
GEAR DEPTH	102	109	142	95	98	103	158	145	119	129	67
DURATION IN HOURS	0.45	0.50	0.50	0.50	0.50	0.50	0.50	0.25	0.25	0.25	0.33
DISTANCE FISHED	1.45	1.56	1.58	1.60	1.70	1.57	1.57	0.84	0.72	0.70	1.04
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170
POLLOCK	26.7	0.2	58.0	5.0	0.2	25.4	108.0	348.0	696.0	220.0	3.0
PACIFIC COD	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	22.2	0.0	158.0	0.0	26.0	26.0	2503.0	358.0	172.0	112.0	10.6
LINGCOD	28.9	0.0	0.0	57.0	34.0	21.6	0.0	0.0	0.0	0.0	0.0
PACIFIC OCN PERCH	31.1	13.2	110.0	116.0	13.0	617.8	30.0	0.0	12.0	0.0	0.0
SHARPCHIN ROCKFISH	0.0	0.0	0.0	2.0	0.0	189.8	4.0	0.0	0.0	0.0	0.0
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.2	0.8	27.6	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	11.1	0.0	428.0	0.0	0.0	0.0	0.0	16.0	58.0	34.0	0.0
SHORTRAKER ROCKFSH	0.0	0.0	28.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0
DUSKY ROCKFISH	128.9	0.0	0.0	56.0	393.0	4019.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE THORNY	0.0	0.0	100.0	0.0	2.0	0.0	172.0	226.0	280.0	44.0	0.0
OTHER ROCKFISH	7.8	8.6	0.0	1.0	0.0	328.4	0.0	0.0	28.0	0.0	0.0
OTHER ROUND FISH	1.8	0.2	44.4	31.4	30.6	29.6	3.2	4.0	52.0	24.0	0.0
TOTAL ROUND FISH	258.4	39.2	926.4	268.6	499.6	5285.2	2820.2	976.0	1298.0	434.0	13.6
ARROWTOOTH FL	337.8	10.0	468.0	372.0	222.0	92.2	74.0	368.0	1066.0	492.0	133.3
FLATHEAD SOLE	4.4	0.0	46.0	1.6	8.0	0.0	6.0	84.0	96.0	196.0	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
REX SOLE	53.3	3.0	68.0	14.0	38.0	27.2	63.0	140.0	124.0	40.0	0.0
DOVER SOLE	22.2	0.0	76.0	53.0	52.0	2.8	125.0	168.0	480.0	60.0	0.0
PACIFIC HALIBUT	145.8	0.0	0.0	18.4	16.8	196.4	0.0	346.4	0.0	0.0	78.2
OTHER FLATFISH	0.0	0.0	0.2	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	563.6	13.0	658.2	459.0	336.8	318.6	272.0	1106.4	1766.0	788.0	211.5
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	42.0	40.0	0.0	0.0	0.0
SPINY DOGFISH	7.8	0.0	0.0	12.0	0.0	0.0	0.0	0.0	32.0	0.0	0.0
OTHER ELASMOBRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	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	8.9	0.2	6.8	0.0	8.0	0.0	0.0	0.0	2.0	0.4	0.0
SIDESTRIPE SHRIMP	0.0	0.0	1.6	0.0	0.0	0.0	0.2	14.0	10.0	12.8	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	2.8	0.2	0.0	0.0	0.0	0.0
OTHER INVERTS	3.1	4.2	1.2	11.2	30.2	305.4	12.2	2.4	0.4	1.2	2.1
TOTAL INVERTS	12.0	4.4	9.6	11.2	38.2	308.2	12.6	16.4	12.4	14.4	2.1
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	841.8	56.6	1594.2	750.8	874.6	5912.0	3146.8	2138.8	3108.4	1236.4	227.3

LET'S GO CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	45	46	47	48	49	50	51
MONTH/DAY/YEAR	7/26/87	7/27/87	7/27/87	7/27/87	7/27/87	7/28/87	7/28/87
LATITUDE START	59 17.2	59 42.3	59 41.4	59 43.7	59 44.6	59 53.9	59 51.7
LONGITUDE START	140 5.4	141 1.7	142 51.7	142 54.7	143 9.0	143 25.8	143 38.1
LATITUDE END	59 17.2	59 42.1	59 41.3	59 43.6	59 44.6	59 53.7	59 51.1
LONGITUDE END	140 2.2	141 4.9	142 48.5	142 51.6	143 12.2	143 28.5	143 41.0
LORAN START	14716.30	14775.00	14476.10	14486.60	14451.60	14480.00	14422.00
LORAN START	30347.70	30777.90	31097.50	31127.00	31173.90	31301.70	31311.20
LORAN END	14723.40	14766.20	14485.10	14495.20	14441.50	14470.00	14407.70
LORAN END	30336.70	30786.50	31088.60	31118.30	31181.90	31306.70	31313.30
GEAR DEPTH	80	20	130	111	115	138	146
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.43	0.50
DISTANCE FISHED	1.63	1.62	1.60	1.55	1.62	1.38	1.60
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170
POLLOCK	43.0	155.0	8.0	31.0	38.0	404.7	134.0
PACIFIC COD	0.0	10.0	0.0	0.0	87.0	0.0	0.0
SABLEFISH	0.0	0.0	17.0	24.0	116.0	103.5	0.0
LINGCOD	0.0	8.0	0.0	0.0	31.0	0.0	0.0
PACIFIC OCN PERCH	0.0	0.0	160.0	10.6	562.0	0.0	2.0
SHARPCHIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	44.0	60.0	0.0	30.2	16.0
SHORTAKER ROCKFSH	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
SHORTSPINE THORNY	4.0	0.0	44.0	9.0	0.0	82.6	31.0
OTHER ROCKFISH	0.0	0.0	1.4	0.0	10.0	0.0	0.0
OTHER ROUND FISH	19.8	384.4	8.0	46.6	0.0	9.5	14.2
TOTAL ROUND FISH	66.8	557.4	282.4	181.2	844.0	630.5	197.2
ARROWTOOTH FL	203.0	100.0	81.0	193.0	246.0	416.3	40.0
FLATHEAD SOLE	7.0	0.0	0.0	0.2	0.0	22.1	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	1.6	2.0	6.0	0.0	46.0	37.2	30.0
DOVER SOLE	0.0	0.0	14.0	10.0	31.0	31.4	13.0
PACIFIC HALIBUT	0.0	12.6	0.0	47.0	10.6	0.0	0.0
OTHER FLATFISH	0.0	341.0	1.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	211.6	455.6	102.0	250.2	333.6	507.0	83.0
SKATES	0.0	190.0	0.0	0.0	0.0	52.3	0.0
SPINY DOGFISH	0.0	114.0	14.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.2	0.0	0.0	0.0	0.0	0.2	0.0
KING CRAB	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
PINK SHRIMP	3.4	0.0	0.0	0.2	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.2	0.0	5.0	0.4	0.0	16.3	1.2
SPOT SHRIMP	0.2	0.0	0.0	0.0	0.0	0.2	0.0
OTHER INVERTS	8.2	0.2	20.2	10.6	0.0	36.3	56.2
TOTAL INVERTS	12.2	0.2	25.2	11.2	0.0	53.0	57.4
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	290.6	1317.2	423.6	442.6	1177.6	1242.8	337.6



NORE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	8/ 5/87	8/ 5/87	8/ 5/87	8/ 5/87	8/ 6/87	8/ 6/87	8/ 7/87	8/ 7/87	8/ 7/87	8/ 7/87	8/ 8/87
LATITUDE START	58 17.4	58 18.8	58 20.9	58 21.6	58 2.9	58 9.7	59 38.1	59 30.9	59 40.8	59 43.2	59 36.2
LONGITUDE START	137 19.3	137 39.0	137 53.3	138 11.9	138 29.5	138 39.5	142 47.0	143 23.9	143 23.3	143 29.2	142 41.0
LATITUDE END	58 16.9	58 19.4	58 22.3	58 23.1	58 2.2	58 10.2	59 37.9	59 30.0	59 42.0	59 42.4	59 35.2
LONGITUDE END	137 17.0	137 41.3	137 53.2	138 12.4	138 28.0	138 40.8	142 49.1	143 22.6	143 22.4	143 27.2	142 41.9
LORAN START	14675.40	14646.40	14630.70	14598.00	14453.10	14470.80	14462.80	14290.30	14374.90	14377.10	14465.10
LORAN START	29156.10	29247.90	29324.50	29404.00	29303.20	29403.40	31054.30	31088.00	31175.80	31212.50	31020.50
LORAN END	14676.80	14645.40	14638.60	14605.50	14452.20	14470.60	14455.10	14287.10	14387.90	14376.50	14453.90
LORAN END	25142.30	29262.90	29336.40	29419.90	29290.20	29412.80	31058.80	31076.50	31184.30	31200.00	31013.90
GEAR DEPTH	70	99	91	71	117	98	241	355	173	174	307
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.45	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.30	1.38	1.34	1.51	1.13	0.85	1.11	1.13	1.28	1.31	1.13
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	0 /170	1 /170	0 /170	0 /170	0 /170	0 /170	0 /170
POLLOCK	5.0	86.0	52.0	3.0	0.0	0.0	0.0	0.0	32.0	232.0	0.0
PACIFIC COD	16.0	0.0	0.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	54.0	52.0	17.0	4.0	468.8	10.0	520.0	342.0	16.0	43.0	872.0
LINGCOD	0.0	0.0	0.0	0.0	468.8	27.8	0.0	0.0	0.0	0.0	0.0
PACIFIC OCN PERCH	0.0	28.0	19.0	0.0	0.0	48.9	0.0	0.0	0.0	5.0	0.0
SHARPCHIN ROCKFISH	0.0	1.2	0.0	0.0	9062.6	17.8	0.0	0.0	0.0	0.0	0.0
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	6500.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	92.0	18.0	0.0	0.0	0.0	0.0	0.0	32.0	3.0	0.0
SHORTRAKER ROCKFSH	0.0	0.0	0.0	0.0	0.0	0.0	602.0	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
SHORTSPINE THORNY	0.0	0.0	0.0	0.0	0.0	0.0	424.0	194.0	20.0	36.0	615.0
OTHER ROCKFISH	0.0	25.0	0.0	0.0	468.8	118.2	0.0	0.0	0.0	3.0	0.0
OTHER ROUND FISH	0.0	22.4	41.8	1.0	0.0	0.4	1091.0	473.6	4.0	2.2	431.0
TOTAL ROUND FISH	115.0	306.6	147.8	54.0	16969.0	223.1	2637.0	1009.6	104.0	324.2	1918.0
ARROWTOOTH FL	1086.0	248.0	332.0	665.0	0.0	48.9	86.0	0.0	5.0	30.0	26.0
FLATHEAD SOLE	156.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
REX SOLE	46.0	0.0	0.2	39.0	0.0	35.6	66.0	2.0	0.0	9.0	230.0
DOVER SOLE	200.0	42.0	120.0	2.4	0.0	17.8	206.0	122.0	0.0	0.0	136.0
PACIFIC HALIBUT	86.4	0.0	0.0	48.8	26.0	21.8	95.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
TOTAL FLATFISH	1574.4	295.0	455.2	755.2	26.0	124.0	453.0	126.0	5.0	39.0	392.0
SKATES	0.0	60.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	2.0
SPINY DOGFISH	136.0	0.0	88.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
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	20.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	6.0	10.2	44.0	6.4	0.0	5.6	51.8	50.0	67.0	39.0	20.6
TOTAL INVERTS	6.0	32.4	78.0	6.4	0.0	5.6	51.8	50.0	69.0	43.0	27.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1831.4	694.0	769.0	849.6	16995.0	352.7	3151.8	1185.6	178.0	406.2	2339.6

NDRE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	8/ 8/87	8/ 8/87	8/ 8/87	8/ 9/87	8/ 9/87	8/10/87	8/11/87	8/11/87	8/11/87	8/11/87	8/12/87
LATITUDE START	59 29.7	59 5.9	59 5.9	59 1.0	58 46.1	59 26.0	59 6.2	59 0.1	58 49.2	58 44.7	58 33.6
LONGITUDE START	142 22.5	141 33.7	141 29.9	141 15.7	140 53.2	141 9.3	139 8.3	138 38.3	138 24.0	138 35.7	138 28.3
LATITUDE END	59 29.1	59 5.4	59 5.7	59 1.1	58 46.0	59 24.8	59 5.2	58 59.0	58 49.5	58 44.6	58 32.6
LONGITUDE END	142 20.6	141 32.3	141 31.5	141 13.5	140 55.2	141 9.2	139 6.9	138 37.1	138 23.8	138 38.0	138 29.7
LORAN START	14465.20	14418.20	14427.80	14429.90	14383.60	14631.70	14761.30	14780.40	14739.40	14688.60	14636.10
LORAN START	30507.60	30540.00	30527.20	30436.00	30224.90	30647.30	30037.60	29867.20	29709.20	29710.90	29579.40
LORAN END	14465.50	14418.10	14422.10	14436.30	14377.80	14622.60	14757.20	14775.80	14742.10	14683.80	14626.60
LORAN END	30696.60	30530.80	30530.70	30429.50	30231.00	30635.70	30022.70	29852.50	29711.80	29719.30	29574.60
GEAR DEPTH	334	205	193	211	210	178	45	83	42	61	65
DURATION IN HOURS	0.50	0.40	0.50	0.50	0.50	0.50	0.50	0.50	0.07	0.50	0.50
DISTANCE FISHED	1.12	0.88	0.85	1.14	1.05	1.22	1.25	1.24	0.39	1.19	1.33
PERFORMANCE / GEAR	0 /170	1 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	6 /170	0 /170	0 /170
POLLOCK	0.0	0.0	0.0	0.0	0.0	88.0	104.8	171.0	0.0	0.2	0.6
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	9.0	79.0
SABLEFISH	82.0	33.8	0.0	0.0	39.0	526.0	2.0	12.0	0.0	0.0	0.0
LINGCOD	0.0	0.0	0.0	0.0	0.0	0.0	78.0	0.0	0.0	158.0	27.0
PACIFIC OCN PERCH	0.0	0.0	8.0	50.0	24.0	3.0	0.0	0.0	0.0	0.0	0.0
SHARPCIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	337.5	169.0	153.0	800.0	137.0	0.0	11.0	0.0	0.0	0.0
SHORTRAKER ROCKFSH	0.0	415.0	280.0	199.0	464.0	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
SHORTSPINE THORNY	116.0	192.5	323.0	114.0	120.0	273.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUND FISH	281.4	102.5	14.0	42.2	31.2	1.6	197.8	35.8	0.0	0.4	0.0
TOTAL ROUND FISH	479.4	1081.3	794.0	558.2	1478.2	1028.6	384.4	229.8	0.0	167.6	106.6
ARROWTOOTH FL	0.0	0.0	68.0	2.0	40.0	42.0	661.8	2774.0	0.0	911.0	52.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	10.0	40.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.0	12.0
REX SOLE	1.0	0.0	12.0	19.0	2.0	188.0	12.0	102.0	0.0	0.0	0.0
DOVER SOLE	74.0	7.5	47.0	78.0	106.0	102.0	129.0	222.0	0.0	0.0	0.0
PACIFIC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	45.4	0.0	0.0	2157.4	157.6
OTHER FLATFISH	0.2	0.0	0.0	0.0	0.0	0.0	0.0	31.0	0.0	2.0	0.0
TOTAL FLATFISH	75.2	7.5	127.0	99.0	148.0	244.0	857.4	3169.0	0.0	3148.4	221.6
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	72.0	74.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	180.0	36.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	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	6.3	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	2.0	2.0	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.0	0.0	0.0	0.2	0.0	4.8	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	36.6	0.0	0.4	2.6	18.0	12.6	1.0	6.0	0.0	0.0	22.0
TOTAL INVERTS	36.6	6.3	0.4	2.8	18.0	17.4	3.0	8.0	0.0	0.0	22.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	591.2	1095.0	921.4	660.0	1644.2	1290.0	1496.8	3516.8	0.0	3316.0	350.2

NORE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	8/12/87	8/12/87	8/12/87	8/12/87	8/14/87	8/14/87	8/15/87	8/15/87	8/16/87	8/16/87	8/16/87
LATITUDE START	58 23.4	58 32.6	58 30.8	58 29.2	58 11.0	58 7.3	58 0.0	57 59.6	57 49.6	57 50.0	57 51.6
LONGITUDE START	138 31.7	138 8.8	137 50.0	137 32.1	137 15.3	137 23.4	137 7.4	136 53.8	137 8.1	136 55.8	136 49.4
LATITUDE END	58 23.1	58 33.6	58 31.3	58 29.9	58 10.6	58 6.8	58 0.8	58 0.7	57 50.6	57 50.4	57 50.6
LONGITUDE END	138 33.9	138 7.7	137 47.6	137 33.8	137 14.6	137 22.8	137 6.0	136 52.8	137 6.7	136 55.0	136 48.9
LORAN START	14567.60	14668.40	14694.40	14718.50	14647.60	14612.00	14603.10	14626.40	14547.00	14572.30	14592.90
LORAN START	29497.60	29494.10	29404.20	29318.70	29080.50	29078.30	28946.20	28887.60	28853.90	28806.40	28795.40
LORAN END	14561.00	14677.00	14701.30	14719.00	14646.80	14610.70	14610.00	14633.90	14554.50	14576.00	14588.20
LORAN END	29503.10	29499.60	29399.00	29331.90	29073.80	29071.60	28947.90	28893.00	28856.90	28807.20	28783.50
GEAR DEPTH	67	74	83	80	71	73	193	224	223	250	95
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.33	0.25	0.50	0.50	0.50	0.28	0.50
DISTANCE FISHED	1.21	1.23	1.30	1.14	0.56	0.56	1.09	1.19	1.18	0.60	1.11
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	1 /170	6 /170	0 /170	0 /170	0 /170	1 /170	0 /170
POLLOCK	16.0	89.0	60.0	6.0	3.6	0.0	36.0	0.0	0.0	0.0	9.2
PACIFIC COD	140.0	0.0	0.0	0.0	15.2	0.0	0.0	0.0	0.0	0.0	26.0
SABLEFISH	0.0	19.0	3.0	0.0	0.0	0.0	460.0	998.0	1268.0	732.1	0.0
LINGCOD	36.0	24.0	36.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	88.0
PACIFIC OCN PERCH	0.0	0.0	2.0	0.6	0.6	0.0	80.0	0.0	0.0	0.0	4.0
SHARPCHIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
HARLEQUIN ROCKFISH	35.0	0.0	0.0	0.0	0.6	0.0	3.2	0.6	0.6	1.8	17.0
ROUGHEYE ROCKFISH	3.0	0.0	8.0	13.4	0.0	0.0	1211.0	67.0	41.0	0.0	0.0
SHORTRAKER ROCKFSH	0.0	0.0	0.0	0.0	0.0	0.0	89.0	627.0	182.0	0.0	0.0
DUSKY ROCKFISH	25.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE THORNY	0.0	0.0	0.0	0.0	0.0	0.0	166.0	120.0	142.0	173.2	20.4
OTHER ROCKFISH	429.4	0.0	2.0	4.6	0.0	0.0	0.6	0.0	0.0	0.7	25.6
OTHER ROUND FISH	0.8	59.4	23.6	64.0	0.9	0.0	1.0	643.6	40.0	76.1	5.2
TOTAL ROUND FISH	685.2	191.4	134.6	88.6	37.6	0.0	2047.4	2456.2	1673.6	983.9	195.4
ARROWTOOTH FL	423.0	238.0	204.0	262.0	0.0	0.0	244.0	60.0	168.0	244.6	31.0
FLATHEAD SOLE	0.0	3.2	3.6	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
ROCK SOLE	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.0
REX SOLE	8.0	2.0	0.4	2.4	1.8	0.0	0.0	1.0	19.0	17.9	5.0
DOVER SOLE	0.0	17.0	0.0	8.0	1.8	0.0	40.0	60.0	129.0	78.6	0.4
PACIFIC HALIBUT	82.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	1812.8
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	521.2	269.2	208.0	280.4	3.6	0.0	284.0	121.0	352.8	341.1	1953.0
SKATES	0.0	35.0	0.0	0.0	0.0	0.0	64.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	65.0	25.0	45.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HATFISH	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	2.0	40.0	52.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.0	0.0	0.0	1.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	14.2	28.0	8.0	6.2	7.3	0.0	69.0	24.0	58.2	46.4	0.0
TOTAL INVERTS	14.2	30.0	48.0	59.2	7.3	0.0	69.2	24.2	58.2	46.4	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1220.6	590.6	415.6	473.2	60.6	0.0	2464.6	2801.4	2084.6	1371.4	2148.4

NORE-DICK CRUISE #2-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	8/16/87	8/17/87	8/17/87	8/17/87	8/17/87	8/18/87	8/18/87	8/18/87	8/22/87	8/22/87	8/23/87
LATITUDE START	57 48.6	57 37.1	57 18.6	57 16.1	57 13.6	57 11.4	56 58.1	56 58.1	56 46.7	56 42.2	56 35.9
LONGITUDE START	136 50.2	136 23.1	136 7.2	136 10.6	136 7.8	136 15.5	136 6.9	136 6.7	135 58.1	135 57.2	135 46.9
LATITUDE END	0 0.0	57 37.9	57 19.9	57 16.8	57 14.6	57 10.4	56 59.1	56 58.7	56 46.3	56 43.4	56 36.9
LONGITUDE END	0 0.0	136 24.5	136 7.2	136 8.8	136 6.2	136 14.5	136 7.9	136 7.1	135 57.3	135 58.0	135 47.7
LORAN START	14575.50	14556.60	14507.30	14489.10	14483.00	14457.90	14412.60	14413.30	14361.10	14359.90	14352.30
LORAN END	28770.60	28545.00	28318.30	28310.50	28277.00	28291.00	28138.30	28138.30	27995.20	27963.10	27865.30
GEAR DEPTH	104	79	81	93	95	150	298	294	213	138	131
DURATION IN HOURS	0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.33	0.30	0.50	0.50
DISTANCE FISHED	0.00	1.16	1.31	1.21	1.26	1.15	1.22	0.57	0.70	1.27	1.14
PERFORMANCE / GEAR	6 /170	0 /170	0 /170	0 /170	0 /170	0 /170	5 /170	1 /170	7 /170	0 /170	0 /170
POLLOCK	0.0	22.0	0.0	10.0	16.0	102.0	0.0	0.0	0.0	7.0	93.0
PACIFIC COD	0.0	3.0	0.0	463.0	218.0	0.0	0.0	0.0	0.0	115.0	13.0
SABLEFISH	0.0	0.0	0.0	172.0	76.0	0.2	0.0	0.0	0.0	61.0	41.0
LINGCOD	0.0	0.0	16.0	28.0	34.0	0.0	0.0	0.0	0.0	0.0	12.0
PACIFIC COG PERCH	0.0	4.0	0.0	0.0	0.0	684.0	0.0	0.0	0.0	4189.0	174.0
SHARPCHEIN ROCKFISH	0.0	0.0	0.0	0.0	0.0	108.6	0.0	0.0	0.0	723.0	254.0
HARLEQUIN ROCKFISH	0.0	0.6	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.6
ROUGHEYE ROCKFISH	0.0	0.0	0.0	0.0	0.0	11.4	0.0	43.9	0.0	3.0	0.0
SHORTRAKER ROCKFSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.9	0.0	378.0	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
SHORTSPINE THORNY	0.0	0.0	0.0	0.0	0.0	584.0	0.0	100.0	0.0	169.0	216.0
OTHER ROCKFISH	0.0	11.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	24.0	47.0
OTHER ROUND FISH	0.0	9.0	110.0	3.0	22.0	16.2	0.0	216.4	0.0	2.2	4.0
TOTAL ROUND FISH	0.0	49.6	126.0	676.0	366.0	1529.6	0.0	398.2	0.0	5671.2	855.6
ARROWTOOTH FL	0.0	125.0	0.0	46.0	68.0	132.0	0.0	216.7	0.0	257.0	438.0
FLATHEAD SOLE	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	28.0	0.2	128.0	90.0	2.0	0.0	1.5	0.0	25.0	5.0
DOVER SOLE	0.0	0.4	0.0	0.0	0.0	20.0	0.0	128.8	0.0	13.0	123.0
PACIFIC HALIBUT	0.0	181.0	2216.2	578.2	302.2	181.2	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.8	0.0	10.6	0.0	0.6	0.0
TOTAL FLATFISH	0.0	340.4	2223.4	752.6	460.2	336.0	0.0	357.6	0.0	295.6	566.0
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	0.0
SPINY DOGFISH	0.0	10.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HATFISH	0.0	2.0	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
SIDESTRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	3.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	10.0	1.0
OTHER INVERTS	0.0	8.0	4.0	0.0	6.0	20.6	0.0	25.8	0.0	0.0	0.0
TOTAL INVERTS	0.0	11.0	4.0	0.0	6.0	22.8	0.0	25.8	0.0	10.0	1.0
OTHER	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	413.0	2353.4	1428.6	854.2	1888.4	0.0	781.5	0.0	6015.8	1422.6

NORE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	8/23/87	8/23/87	8/23/87	8/24/87	8/24/87	8/24/87	8/24/87	8/24/87	8/25/87	8/25/87	8/25/87
LATITUDE START	56 30.4	56 22.3	56 15.8	56 11.1	56 5.4	56 2.2	55 55.5	55 54.1	55 44.8	55 30.2	55 32.7
LONGITUDE START	135 35.8	135 26.3	135 33.5	135 29.5	135 9.0	135 18.3	135 26.3	135 26.2	135 9.6	134 53.1	135 3.0
LATITUDE END	56 31.0	56 22.2	56 16.6	0 0.0	56 5.4	56 2.8	55 56.5	55 54.9	0 0.0	55 38.5	55 31.2
LONGITUDE END	135 36.0	135 26.4	135 34.6	0 0.0	135 9.7	135 18.8	135 27.3	135 27.7	0 0.0	134 54.9	135 2.9
LORAN START	14349.80	14334.20	14293.50	14281.90	14298.00	14267.60	14225.70	14220.20	14216.00	14222.90	14227.50
LORAN START	27770.20	27663.20	27647.30	27594.10	27454.40	27476.70	27468.60	27459.10	27317.10	27195.40	27265.70
LORAN END	14352.10	14333.30	14294.50		14296.70	14269.10	14227.60	14220.30	14216.00	14218.60	14214.50
LORAN END	27775.70	27662.60	27658.10		27457.80	27482.80	27480.00	27471.50	27317.20	27203.30	27249.20
GEAR DEPTH	97	94	144	136	198	199	242	308	120	114	112
DURATION IN HOURS	0.33	0.12	0.50	0.50	0.18	0.33	0.50	0.50	0.07	0.50	0.43
DISTANCE FISHED	0.61	0.17	0.97	1.20	0.39	0.63	1.13	1.14	0.10	1.07	0.90
PERFORMANCE / GEAR	1 /170	6 /170	0 /170	0 /170	1 /170	1 /170	0 /170	0 /170	6 /170	1 /170	1 /170
POLLOCK	0.0	0.0	76.0	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC COD	53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	64.9
SABLEFISH	0.0	0.0	3.0	48.0	111.1	15.2	0.0	12.0	0.0	8.0	0.0
LINGCOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC GCM PERCH	0.0	0.0	2706.0	4842.0	551.7	97.0	58.0	0.0	0.0	50.0	125.1
SHARPCHIN ROCKFISH	51.5	0.0	99.0	132.0	0.0	0.0	0.0	0.0	0.0	846.2	4887.4
HARLEQUIN ROCKFISH	351.5	0.0	8.0	4.6	0.0	0.0	0.0	0.0	0.0	23.6	1556.5
ROUGHEYE ROCKFISH	0.0	0.0	9.0	0.0	0.0	20.0	1073.0	0.0	0.0	0.0	0.0
SHORTRAKER ROCKFSH	0.0	0.0	0.0	0.0	0.0	0.0	2.0	165.0	0.0	0.0	0.0
DUSKY ROCKFISH	83.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	177.0	0.0
SHORTSPINE THORNY	0.0	0.0	387.0	131.6	191.7	483.3	157.0	392.0	0.0	27.0	0.0
OTHER ROCKFISH	19.7	0.0	1.6	9.8	0.0	0.0	0.0	13.0	0.0	279.0	1205.6
OTHER ROUND FISH	0.0	0.0	28.4	10.0	0.6	4.5	0.2	118.6	0.0	2.0	0.0
TOTAL ROUND FISH	559.1	0.0	3318.0	5253.0	855.0	620.0	1290.2	700.6	0.0	1421.8	7839.5
ARROWTOOTH FL	962.1	0.0	167.0	53.0	63.9	83.3	11.0	7.0	0.0	7.0	50.9
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
REX SOLE	0.0	0.0	23.0	16.0	7.2	0.0	16.0	22.0	0.0	0.0	9.3
DOVER SOLE	0.0	0.0	57.0	23.0	55.6	6.1	192.0	191.4	0.0	10.0	9.3
PACIFIC HALIBUT	0.0	0.0	204.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.9
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	0.0	1.6	0.0
TOTAL FLATFISH	962.1	0.0	451.4	92.0	126.7	89.4	219.0	246.4	0.0	18.6	184.4
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3
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	0.2	0.0
SIDESTRIPE SHRIMP	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.2
OTHER INVERTS	206.4	0.0	0.0	0.0	5.0	6.4	0.0	0.6	0.0	86.0	0.0
TOTAL INVERTS	206.4	0.0	0.2	0.0	5.0	6.4	0.0	0.6	0.0	92.2	11.2
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1745.8	0.0	3769.6	5345.0	986.7	715.8	1509.2	947.6	0.0	1532.6	8058.4

MOORE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	8/26/87	8/26/87	8/26/87	8/26/87	8/27/87	8/27/87	8/28/87	8/28/87	8/28/87	8/29/87	8/30/87
LATITUDE START	55 30.0	55 23.6	55 25.7	55 27.8	55 17.2	55 21.8	55 31.8	55 17.4	55 8.6	55 12.2	55 4.9
LONGITUDE START	134 54.1	134 40.4	134 21.2	134 19.2	133 51.0	133 57.3	134 25.2	134 38.8	134 9.7	134 1.0	133 49.6
LATITUDE END	55 29.3	55 24.3	55 25.3	55 28.8	55 16.6	55 20.4	55 31.3	55 17.8	55 8.3	55 12.4	55 5.0
LONGITUDE END	134 55.8	134 38.6	134 20.1	134 19.7	133 50.1	133 56.6	134 23.1	134 40.6	134 11.7	134 3.3	133 49.6
LORAN START	14190.30	14183.50	14197.70	14247.60	11079.80	11068.10	11051.00	11088.80	11110.20	11097.20	11120.50
LORAN END	27152.00	27040.00	26945.60	26965.90	41714.90	41719.90	41718.20	41675.10	41678.70	41694.50	41687.50
LORAN END	14184.40	14199.10		14250.30	11081.30	11071.80	11051.70	11087.90	11111.50	11096.90	11120.30
LORAN END	27156.40	27043.80		26974.30	41714.40	41717.30	41718.70	41674.70	41676.30	41693.00	41687.60
GEAR DEPTH	152	112	101	95	60	56	60	138	98	78	60
DURATION IN HOURS	0.50	0.50	0.33	0.50	0.25	0.50	0.50	0.50	0.50	0.50	0.07
DISTANCE FISHED	1.21	1.26	0.78	1.07	0.76	1.47	1.32	1.14	1.19	1.35	0.06
PERFORMANCE / GEAR	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	7 /170
POLLOCK	0.0	11.6	0.0	140.0	124.4	0.0	6.6	0.0	62.0	47.0	0.0
PACIFIC COD	0.0	205.0	7.6	38.0	23.6	9.0	94.0	0.0	59.6	371.2	0.0
SABLEFISH	0.2	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0
LINGCOD	0.0	16.4	77.3	46.0	0.0	0.0	128.0	0.0	0.0	24.0	0.0
PACIFIC OCN PERCH	60.0	151.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARPCHIN ROCKFISH	60.0	703.0	1899.4	0.0	0.0	0.0	0.0	6821.2	579.4	0.0	0.0
HARLEQUIN ROCKFISH	0.0	9.0	1747.0	0.0	0.0	0.0	0.0	2501.2	1649.2	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	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	27.8	0.0	0.0
SHORTSPINE THORNY	54.0	29.0	0.0	0.0	0.0	0.0	0.0	31.2	0.0	0.0	0.0
OTHER ROCKFISH	29.6	442.0	2261.8	0.0	0.0	0.0	0.0	920.0	3185.0	0.0	0.0
OTHER ROUND FISH	32.4	0.6	0.0	0.4	32.0	57.6	0.8	3.4	0.0	0.0	0.0
TOTAL ROUND FISH	236.2	1567.6	5993.6	224.4	180.0	66.6	231.8	10277.0	5563.0	442.2	0.0
ARROWTOOTH FL	15.0	30.0	69.7	140.0	80.0	20.0	642.2	97.8	194.4	1496.6	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	4.4	0.0
REX SOLE	72.0	3.0	8.5	80.0	12.0	0.2	43.0	3.4	0.0	30.0	0.0
DOVER SOLE	175.0	7.0	3.6	7.5	0.0	0.4	16.0	0.0	0.0	0.0	0.0
PACIFIC HALIBUT	0.0	53.8	66.7	27.0	94.4	114.2	381.0	280.0	133.4	109.4	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	62.8	10.6	9.6	0.0	0.0	20.6	0.0
TOTAL FLATFISH	262.0	93.8	148.5	254.6	249.2	147.8	1091.8	381.2	327.8	1661.0	0.0
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	22.6	0.0	0.0	0.0	0.0
OTHER ELASMOBRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	6.4	7.6	2.4	158.0	51.0	24.4	0.0	0.0	26.0	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	0.2	0.6	0.0	0.2	0.0	0.0	1.0	0.0	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	12.0	3.0	0.0	0.0	0.0	0.0	5.6	0.4	0.0	0.0
OTHER INVERTS	11.6	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	12.0	12.6	12.1	0.2	0.0	0.0	1.0	5.6	0.4	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	510.2	1680.4	6161.8	481.6	587.2	265.4	1371.6	10663.8	5891.2	2129.2	0.0

NORE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/30/87	8/30/87	9/ 1/87	9/ 1/87	9/ 2/87	9/ 2/87	9/ 2/87	9/ 3/87	9/ 3/87	9/ 4/87	9/ 5/87
LATITUDE START	55 0.2	54 52.6	54 53.9	54 37.2	54 38.2	54 33.3	54 33.8	54 46.1	54 49.8	55 28.5	55 39.7
LONGITUDE START	133 54.8	133 46.2	134 15.6	134 3.7	133 30.2	133 25.8	132 56.5	133 8.6	133 27.6	133 54.5	134 12.7
LATITUDE END	55 0.6	54 52.8	54 55.1	54 38.3	54 37.8	54 34.2	54 34.1	54 46.8	54 48.8	55 25.4	55 40.6
LONGITUDE END	133 55.7	133 46.4	134 15.3	134 3.1	133 32.2	133 27.4	132 58.1	133 6.8	133 26.8	133 53.2	134 11.2
LORAN START	11138.80	11169.70	11163.20	11235.50	11242.20	11270.20	11286.40	11209.00	11185.00	14294.70	11032.80
LORAN START	41671.60	41661.00	41639.60	41609.30	41639.30	41630.80	41659.20	41679.10	41670.60	26845.40	41746.20
LORAN END	11137.40	11169.10	11158.40	11230.70	11243.50	11264.80	11283.30	11205.90	11190.20	14285.80	11030.90
LORAN END	41671.70	41661.10	41642.80	41612.40	41636.50	41631.60	41658.40	41682.60	41668.70	26821.70	41749.50
GEAR DEPTH	74	74	120	129	186	194	220	124	77	48	80
DURATION IN HOURS	0.25	0.10	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.65	0.20	1.27	1.14	1.25	1.24	1.00	1.25	1.14	1.30	1.24
PERFORMANCE / GEAR	0 /170	7 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170	0 /170
POLLOCK	2.0	0.0	85.0	0.0	0.0	0.0	12.0	148.0	8.0	0.2	0.0
PACIFIC COD	14.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0
SABLEFISH	0.0	0.0	53.0	0.0	87.0	261.6	424.0	16.6	7.0	0.0	0.0
LINGCOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0
PACIFIC GCN PERCH	4.0	0.0	446.6	7747.6	20.0	26.6	0.0	5.0	0.0	0.0	0.0
SHARPCHIN ROCKFISH	16.0	0.0	14.6	291.8	0.4	0.0	0.4	1.0	1.6	0.0	0.0
HARLEQUIN ROCKFISH	110.0	0.0	0.0	11.2	0.0	0.0	0.0	1.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	0.0	37.0	33.6	21.0	4.0	0.0	0.0	0.0
SHORTRAKER ROCKFSH	0.0	0.0	0.0	0.0	0.0	0.0	42.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE THORNY	0.0	0.0	44.0	32.0	195.6	142.0	205.0	28.0	0.0	0.0	0.0
OTHER ROCKFISH	351.2	0.0	28.4	264.2	55.0	66.6	0.0	16.4	0.0	0.0	0.0
OTHER ROUND FISH	0.0	0.0	0.4	0.0	13.4	6.0	1.6	37.6	0.0	5.0	0.0
TOTAL ROUND FISH	497.2	0.0	737.6	8346.8	408.4	536.4	706.0	257.6	16.6	5.2	50.0
ARROWTOOTH FL	2.0	0.0	91.0	0.0	16.0	7.0	18.0	39.0	2964.4	0.0	805.6
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
REX SOLE	0.0	0.0	29.8	0.0	26.0	11.0	13.0	0.0	11.0	0.0	5.0
DOVER SOLE	0.0	0.0	10.0	4.2	24.0	2.0	273.0	0.0	12.0	0.0	1.0
PACIFIC HALIBUT	42.0	0.0	0.0	87.4	0.0	0.0	0.0	0.0	41.0	101.0	38.2
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	15.2	0.0	5.6
TOTAL FLATFISH	44.0	0.0	130.8	91.6	66.0	20.0	304.0	39.2	3043.6	103.0	855.4
SKATES	0.0	0.0	0.0	0.0	79.0	0.0	22.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	27.6	0.0	34.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	45.2	0.0	18.0	0.0	23.0	6.0	34.4	136.6	41.0	62.0	67.0
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	9.0	0.0	0.0	0.0
SIDESTRIPE SHRIMP	0.0	0.0	0.0	0.0	0.2	0.0	0.2	2.0	0.0	0.0	0.0
SPOT SHRIMP	3.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	90.4	13.2	241.8	4.6	0.0	0.0	0.0
TOTAL INVERTS	3.2	0.0	0.6	0.0	90.6	13.2	242.0	15.6	0.0	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	589.6	0.0	887.0	8438.4	667.0	575.6	1308.4	463.0	3128.8	170.2	1006.4

NORE-DICK CRUISE 87-2, 1987 TRIENNIAL TRAWL SURVEY IN THE EASTERN GULF OF ALASKA

HAUL #	78	79	80	61	82	83	84	85	86
MONTH/DAY/YEAR	9/ 5/87	9/ 5/87	9/ 5/87	9/ 6/87	9/ 6/87	9/ 6/87	9/ 7/87	9/ 8/87	9/10/87
LATITUDE START	55 50.2	55 42.5	55 49.3	56 0.2	56 3.8	56 0.4	56 20.1	56 28.9	56 55.7
LONGITUDE START	134 42.5	134 40.3	134 49.1	135 1.4	134 49.8	134 33.8	135 1.3	135 41.0	135 41.4
LATITUDE END	55 49.1	55 41.5	55 49.0	56 0.4	56 3.3	56 0.3	56 19.5	56 28.2	56 55.4
LONGITUDE END	134 41.6	134 40.5	134 49.4	135 2.7	134 51.0	134 34.5	135 0.2	135 40.3	135 43.3
LORAN START	11023.90	14262.80	14272.10	14291.40	14327.50	14343.10	14371.70	14333.70	14450.00
LORAN START	41743.40	27158.30	27246.00	27380.60	27350.20	27247.40	27528.30	27782.30	28005.30
LORAN END	11025.20	14258.70	14270.50	14289.90	14323.30	14341.80	14371.00	14332.40	14433.80
LORAN END	41741.60	27153.60	27245.40	27388.00	27352.60	27250.60	27518.30	27774.10	28002.50
GEAR DEPTH	52	110	105	220	189	252	73	127	76
DURATION IN HOURS	0.40	0.40	0.17	0.38	0.47	0.22	0.35	0.33	0.50
DISTANCE FISHED	1.23	0.97	0.33	0.72	0.85	0.38	0.87	0.74	1.12
PERFORMANCE / GEAR	1 /170	1 /170	1 /170	1 /170	1 /170	6 /170	1 /170	0 /170	0 /170
POLLOCK	3.0	103.8	5.9	0.0	16.6	0.0	5.7	27.3	0.0
PACIFIC COD	0.0	48.8	97.1	0.0	0.0	0.0	31.4	23.6	262.6
SABLEFISH	4.5	37.5	0.0	123.7	44.7	0.0	108.6	328.2	152.0
LINGCOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0
PACIFIC OCN PERCH	0.0	83.8	367.6	8.9	319.8	0.0	0.0	4160.3	0.0
SHARPCHIN ROCKFISH	0.0	0.0	2.9	0.0	0.0	0.0	0.0	60.6	0.0
HARLEQUIN ROCKFISH	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	6.1	762.8	0.0	0.0	0.0	0.0
SHORTRAKER ROCKFISH	0.0	0.0	0.0	44.2	241.7	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
SHORTSPINE THORNY	0.0	0.0	0.0	239.5	120.2	0.0	0.0	10.6	0.0
OTHER ROCKFISH	0.0	0.0	10.6	0.0	3.2	0.0	0.0	11.5	0.0
OTHER ROUND FISH	1.3	0.0	2.9	9.5	1.1	0.0	0.0	0.3	0.0
TOTAL ROUND FISH	8.8	273.8	487.1	431.8	1511.5	0.0	145.7	4648.2	414.6
ARROWTOOTH FL	208.8	352.5	0.0	76.3	217.7	0.0	252.3	1027.3	1369.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
REX SOLE	8.8	56.3	0.0	57.4	16.6	0.0	197.1	18.2	164.0
DOVER SOLE	0.0	5.0	0.0	187.4	27.7	0.0	3.4	97.0	2.0
PACIFIC HALIBUT	0.0	13.3	0.0	0.0	0.0	0.0	220.9	114.8	303.8
OTHER FLATFISH	3.8	7.5	0.0	0.0	0.0	0.0	17.7	0.0	15.8
TOTAL FLATFISH	221.3	434.5	0.0	321.1	261.9	0.0	694.3	1257.3	1854.6
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	10.0	7.5	17.6	0.0	0.0	0.0	20.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	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
PINK SHRIMP	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
SIDESTRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPOT SHRIMP	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	1.3	0.0	31.8	8.1	0.0	0.0	0.0	0.0
TOTAL INVERTS	1.3	1.3	1.2	31.8	8.1	0.0	0.0	0.0	0.2
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	255.0	717.0	505.9	784.7	1781.5	0.0	860.0	5905.5	2269.4



## POLY-NOR'EASTERN SPECIFICATIONS

Netting -	Polyethylene
Headrope -	87 ft 1/2" galv wire rope (6 x 19), wrapped with 3/8" 3-strand polypropylene rope
Footrope -	116.7 ft 1/2" galv wire rope (6 x 19), wrapped with 3/8" 3-strand polypropylene rope
Roller gear -	80 ft 3/4" galv wire rope (6 x 19), with rollers
Breastlines -	3/8" galv wire rope (6 x 19), wrapped with 3/8" polypropylene rope; top corner, 20-1/2 ft; bottom side panel, 30 ft
Riblines -	3-strand, 7/8" diameter polydacron, hung slack; top (2 each), 110 ft; bottom (2 each), 101 ft
Flotation -	21 trawl floats, 12" diameter, buoyancy of 22 lb each and rated depth of 800 m
Codend liner -	Nylon, No. 18 1-1/4" stretched mesh, 315 meshes around and 300 meshes deep, laced to the inner bag 97 meshes up from the end; when stretched, the liner extends 2-3 ft beyond the codend
Chafing gear -	Polypropylene ropes, 3/8" diameter, hog-ringed or woven together forming 10" meshes, 46 meshes around and 21-1/2 meshes deep, laced to outer bag 68-1/2 meshes up from the end
Restrictors -	Polypropylene rope, 1" diameter, 14 ft circumference, 5 secured loosely to codend at each ribline, 4 ft apart
Splitting gear -	One splitting strap; construction varies, but usually is a 21 ft length of 1/2" wire rope passed through 5 galv steel rings secured to codend with 1/2" braided nylon "spiders"
Side seams -	Side panels laced to top and bottom panels by gathering 3 meshes (4 knots) from each panel
Rigging -	3 dandyines per side of 5/8" diameter galv wire rope, each 30 fathoms long
Doors -	6 x 9 ft steel V-doors, 1600 lb each

POLY-NOREASTERN

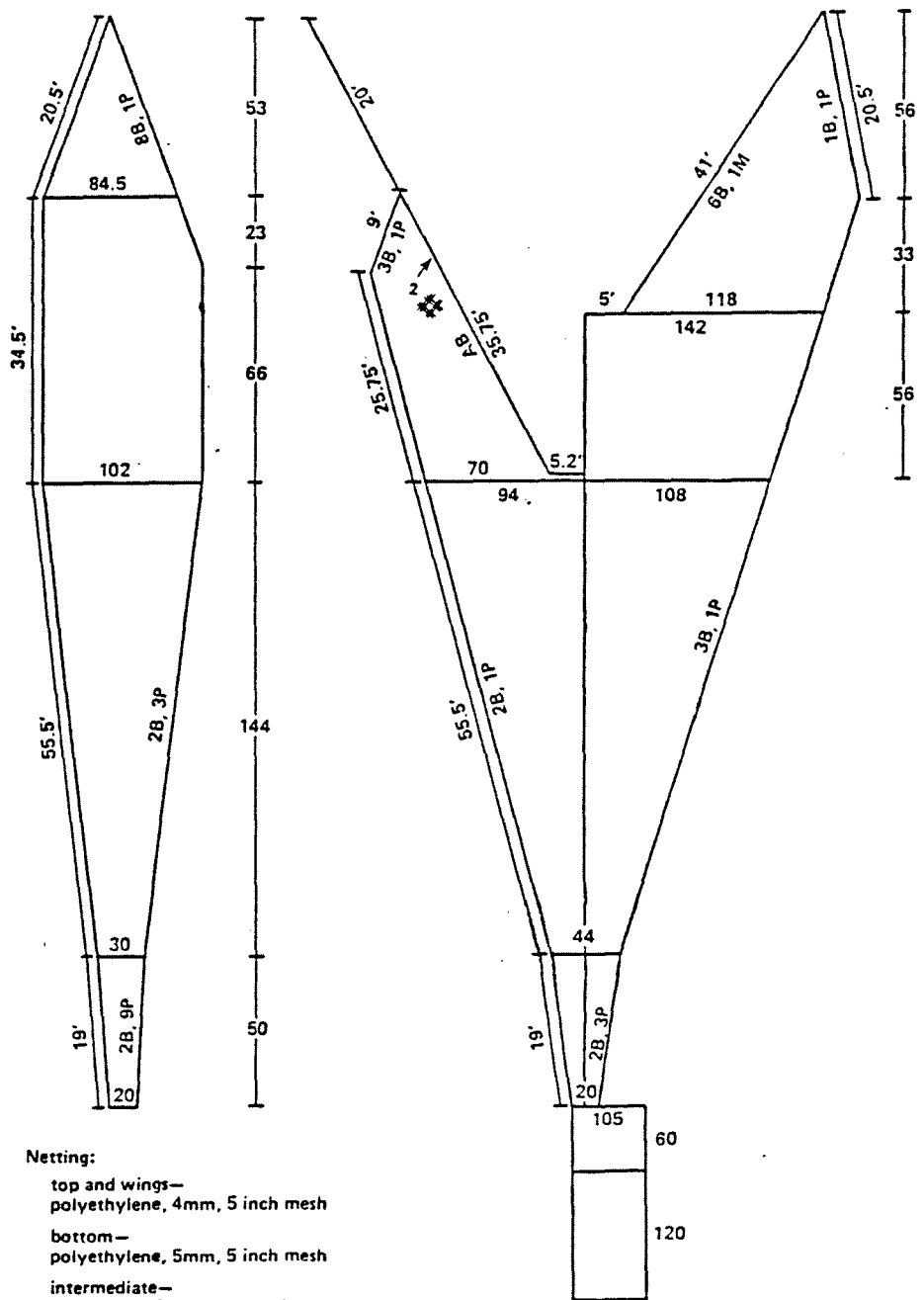
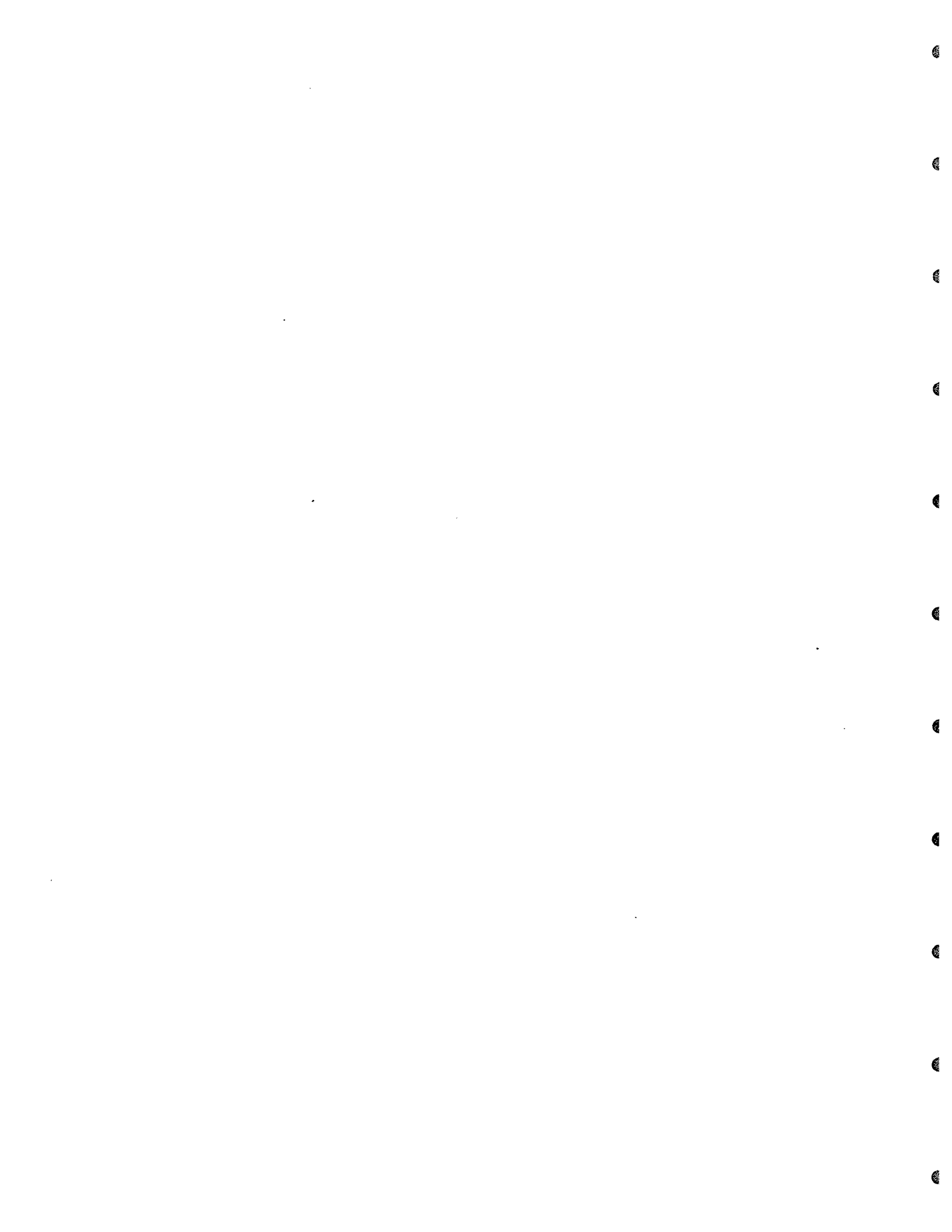


Figure 4. Diagram of the Poly-Noreastern trawl.



SECTION III

Catch Weights, Average Individual Weights,  
and Depth of Capture by Species



LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
42	1066.0	2.8	119
15	1058.0	1.9	72
14	800.0	1.4	83
16	686.6	1.5	102
3	589.0	0.9	69
7	516.0	1.3	82
43	492.0	2.8	129
36	468.0	1.6	142
50	416.3	4.0	138
13	396.8	1.2	101
37	372.0	0.7	95
31	368.0	1.8	107
41	368.0	4.6	145
34	337.8	1.0	102
32	333.3	3.5	118
10	329.2	1.1	66
24	312.0	2.3	127
5	268.0	1.1	78
11	250.0	1.3	52
30	247.0	1.2	106
49	246.0	2.6	115
38	222.0	0.7	98
22	212.0	2.3	124
23	208.0	2.5	151
45	203.0	1.1	80
21	202.0	2.8	136
4	200.0	0.8	83
19	200.0	2.8	129
48	193.0	2.1	111
6	190.0	0.7	91
33	173.0	1.0	105
17	169.0	1.3	101
12	156.1	2.6	127
20	150.0	1.1	111
25	146.0	1.5	60
2	136.0	0.8	57
9	136.0	1.7	35
44	133.3	1.5	67
18	131.6	0.5	107
46	100.0	2.2	20
39	92.2	1.4	103
47	81.0	2.3	130
40	74.0	2.8	158
28	71.4	1.1	84
51	40.0	4.0	146
27	11.0	0.4	76
35	10.0	2.5	109
8	6.0	1.5	28

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
26	6.0	0.4	72

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
75	2964.4	2.4	77
19	2774.0	2.7	83
65	1496.6	1.1	78
86	1369.0	2.5	76
1	1086.0	1.0	70
85	1027.3	2.6	127
45	962.1	2.7	97
21	911.0	2.1	61
77	805.6	1.0	80
4	665.0	1.1	71
18	661.0	1.7	45
62	642.2	1.1	80
44	438.0	2.9	131
23	423.0	2.1	67
79	352.5	2.3	110
3	332.0	0.9	91
26	262.0	1.2	80
43	257.0	3.6	138
84	252.3	1.4	73
2	248.0	1.0	99
32	244.6	2.4	250
29	244.0	2.3	193
24	238.0	0.9	74
82	217.7	3.9	189
41	216.7	2.5	294
78	208.8	1.3	92
25	204.0	1.3	83
64	194.4	1.5	98
31	168.0	2.8	223
47	167.0	4.2	144
59	140.0	2.0	95
39	132.0	4.4	150
35	125.0	2.2	79
63	97.8	8.2	138
69	91.0	0.9	120
7	86.0	3.6	241
50	83.3	3.9	199
60	80.0	1.1	60
81	76.3	2.6	220
58	69.7	2.9	101
14	68.0	2.8	193
38	68.0	0.6	95
49	63.9	2.9	198
30	60.0	2.3	224
48	53.0	3.3	136
22	52.0	1.4	65
55	50.9	2.7	112
6	48.9	1.7	98

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
37	46.0	0.3	93
17	42.0	2.3	178
16	40.0	2.9	210
74	39.0	1.0	124
33	31.0	0.3	95
10	30.0	5.0	174
57	30.0	0.9	112
11	26.0	6.5	307
61	20.0	1.3	56
73	18.0	4.5	220
71	16.0	2.7	186
56	15.0	2.5	152
51	11.0	2.8	242
52	7.0	3.5	308
54	7.0	0.4	114
72	7.0	3.5	194
9	5.0	2.5	173
15	2.0	1.0	211
67	2.0	0.5	74

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES DOVER SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
13	801.6	1.7	101
42	480.0	2.1	119
19	172.0	1.2	129
41	168.0	1.5	145
40	125.0	1.4	158
15	118.0	1.5	72
12	115.3	1.5	127
14	108.0	1.5	83
36	76.0	1.5	142
23	68.0	1.0	151
43	60.0	2.1	129
27	59.0	2.0	76
21	53.1	1.0	136
37	53.0	2.5	95
38	52.0	1.6	98
16	46.0	2.6	102
20	46.0	1.3	111
32	42.4	1.2	118
24	42.0	1.1	127
6	32.0	1.6	91
50	31.4	1.7	138
49	31.0	1.6	115
17	29.2	1.6	101
7	24.0	1.5	82
34	22.2	2.0	102
22	20.0	1.0	124
18	15.0	1.5	107
47	14.0	1.4	130
51	13.0	1.6	146
48	10.0	1.0	111
33	8.1	1.5	105
10	8.0	1.0	66
28	6.4	1.6	84
3	6.0	1.0	69
31	5.0	0.6	107
8	3.0	1.5	28
39	2.6	0.3	103
5	2.6	1.3	78
30	2.0	1.0	106
9	1.2	0.3	35
1	0.6	0.1	30



NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES DOVER SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
73	273.0	2.2	220
19	222.0	1.9	83
7	206.0	1.6	241
1	200.0	1.2	70
51	192.0	1.4	242
52	191.4	1.7	308
81	187.4	1.8	220
56	175.0	0.9	152
11	136.0	1.6	307
18	129.0	1.5	45
31	129.0	1.6	223
41	128.8	2.0	294
44	123.0	1.3	131
8	122.0	1.6	355
3	120.0	2.1	91
16	106.0	1.4	210
17	102.0	1.5	178
85	97.0	1.0	127
32	78.6	1.5	250
15	78.0	1.6	211
12	74.0	1.4	334
30	60.0	2.1	224
47	57.0	1.2	144
49	55.6	1.7	198
14	47.0	1.2	193
2	42.0	1.6	99
29	40.0	1.8	193
82	27.7	1.9	189
71	24.0	1.3	186
48	23.0	1.4	136
39	20.0	1.1	150
6	17.8	2.7	98
24	17.0	1.4	74
62	16.0	1.6	80
43	13.0	1.3	138
75	12.0	0.9	77
54	10.0	0.8	114
69	10.0	0.7	120
55	9.3	1.0	112
26	8.0	1.3	80
59	7.6	1.0	95
13	7.5	1.5	205
57	7.0	0.6	112
50	6.1	2.0	199
79	5.0	2.0	110
70	4.2	0.3	129
58	3.6	1.2	101
84	3.4	1.2	73

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES DOVER SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
4	2.4	0.6	71
72	2.0	1.0	194
86	2.0	1.0	76
27	1.8	0.6	71
77	1.0	0.5	80
33	0.4	0.2	95
35	0.4	0.2	79
61	0.4	0.2	56

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES DUSKY ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
39	4019.0	2.6	103
29	1850.0	2.6	91
4	1571.2	2.5	83
33	567.6	2.8	105
31	424.0	2.8	107
30	420.0	2.8	106
38	393.0	2.6	98
16	192.0	2.6	102
22	180.0	2.8	124
20	148.0	2.6	111
34	128.9	2.8	102
21	116.9	2.5	136
26	65.0	2.7	72
37	56.0	2.5	95
32	36.4	3.0	118
18	36.0	2.6	107
27	25.0	2.5	76
28	16.1	2.3	84
19	8.0	2.0	129
17	5.6	2.8	101
23	5.0	2.5	151
24	4.0	2.0	127

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES DUSKY ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
54	177.0	3.0	114
45	83.3	3.1	97
64	27.8	3.5	98
23	25.0	3.1	67
27	6.1	2.0	71
69	5.6	2.8	120

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES FLATHEAD SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FY)
13	5428.6	1.6	101
5	666.0	1.2	78
10	287.0	1.2	66
43	196.0	0.7	129
14	191.0	1.1	83
15	148.0	1.0	72
42	96.0	0.6	119
2	94.0	1.2	57
41	84.0	0.8	145
11	75.0	1.1	52
9	52.0	1.1	35
36	46.0	0.6	142
7	24.0	1.2	82
50	22.1	0.5	138
6	18.0	0.6	91
28	17.1	1.6	84
29	10.0	0.5	91
38	8.0	1.0	98
45	7.0	0.2	80
8	6.0	1.5	28
40	6.0	0.6	158
27	6.0	1.2	76
33	5.4	1.0	105
3	5.0	2.5	69
34	4.4	1.0	102
23	3.0	0.3	151
26	2.4	0.3	72
37	1.6	0.8	95
17	1.0	0.3	101
16	0.4	0.1	102
25	0.2	0.1	60
48	0.2	0.0	111

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES FLATHEAD SGLE

HAUL	CATCH LB/1.0 HR	AV NGT (LB)	GEAR DEPTH (FM)
1	156.0	1.0	70
19	40.0	0.2	83
18	10.0	0.4	45
26	8.0	0.2	80
2	4.0	0.2	99
25	3.6	0.1	83
24	3.2	0.2	74
3	3.0	0.0	91
33	0.8	0.2	95
37	0.4	0.2	93

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1527

SPECIES HARLEQUIN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LE)	GEAR DEPTH (FM)
29	160.0	0.5	91
18	51.0	0.5	107
31	44.0	0.7	107
39	27.6	0.7	103
20	22.0	0.6	111
33	6.8	0.5	105
19	2.0	0.3	129
38	0.8	0.4	98
28	0.7	0.2	84
37	0.2	0.1	95

NDRE-DICK CRUISE 27-2  
EASTERN GULF OF ALASKA 1987

SPECIES HARLEQUIN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
5	6500.0	0.6	117
63	2501.2	0.4	138
58	1747.0	0.4	101
64	1649.2	0.5	98
55	1556.5	0.5	112
45	351.5	0.4	97
67	110.0	0.3	74
23	35.0	0.2	67
54	23.6	0.4	114
33	17.0	0.3	95
70	11.2	0.8	129
57	9.0	0.3	112
47	8.0	0.6	144
48	4.6	0.6	136
29	3.2	0.4	193
32	1.6	0.3	250
44	1.6	0.4	131
82	1.5	0.7	189
39	1.2	0.6	150
74	1.0	0.3	124
27	0.6	0.2	71
30	0.6	0.3	224
31	0.6	0.3	223
35	0.6	0.3	79

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES LINGCOD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
30	78.0	5.6	106
9	68.0	5.7	35
31	58.0	2.5	107
37	57.0	14.3	95
13	36.6	4.6	101
24	34.0	5.7	127
38	34.0	8.5	98
15	33.0	5.5	72
16	32.0	5.3	102
49	31.0	7.8	115
34	28.9	3.3	102
32	24.2	4.0	118
2	22.0	3.7	57
39	21.6	2.2	103
11	21.0	3.5	52
20	14.0	3.5	111
10	12.0	6.0	66
28	10.7	3.0	84
33	8.1	3.0	105
6	8.0	4.0	91
18	8.0	2.0	107
46	8.0	4.0	20
5	7.0	3.5	78
3	6.0	3.0	69
8	6.0	3.0	28
4	3.0	1.0	83



NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES LINGCOD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
5	468.8	7.6	117
21	158.0	7.2	61
62	128.0	12.8	80
33	88.0	11.0	95
18	78.0	4.9	45
58	77.3	12.8	101
59	46.0	11.5	95
23	36.0	18.0	67
25	36.0	9.0	83
38	34.0	8.5	95
37	28.0	14.0	93
6	27.8	12.5	98
22	27.0	6.8	65
85	25.8	8.5	127
24	24.0	12.0	74
65	24.0	12.0	78
77	22.0	11.0	80
57	16.4	8.2	112
36	16.0	8.0	81
44	12.0	6.0	131
27	10.6	3.5	71

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
24	514.0	7.3	127
4	193.9	6.0	83
19	98.4	4.5	179
49	87.0	4.0	115
8	68.0	6.8	28
22	64.0	4.0	124
9	44.0	5.5	35
20	43.0	3.6	111
13	37.4	4.7	101
35	17.0	6.5	109
18	16.0	4.0	107
46	10.0	5.0	20

NORE-DICK CRUISE R7-2  
 EASTERN GULF OF ALASKA 1967

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
37	463.0	7.5	93
65	371.2	4.5	78
86	262.6	6.3	76
38	218.0	5.0	95
57	205.0	3.9	112
23	140.0	11.7	67
43	115.0	8.2	138
60	97.1	4.1	105
62	94.0	2.2	80
22	79.0	7.9	65
55	64.9	7.0	112
69	60.0	3.8	120
64	59.6	3.7	98
45	53.0	5.8	97
79	48.8	4.9	110
4	46.0	7.7	71
59	38.0	3.2	95
64	31.4	11.0	73
77	28.0	1.6	80
33	26.0	3.3	95
85	23.6	7.8	127
60	23.6	0.7	60
1	16.0	8.0	70
27	15.2	5.0	71
67	14.0	0.9	74
44	13.0	6.5	131
21	9.0	4.5	61
54	9.0	4.5	114
61	9.0	2.3	56
58	7.6	1.3	101
35	3.0	1.5	79
18	2.6	1.3	45

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
14	1068.8	19.1	83
31	563.2	46.9	107
12	428.6	19.1	127
1	358.8	9.4	30
41	346.4	86.6	145
18	341.2	85.3	107
32	328.8	5.7	118
24	325.8	10.9	127
4	318.8	52.6	83
22	294.0	73.5	124
11	264.4	5.5	52
39	196.4	32.7	103
2	184.2	5.2	57
3	176.6	17.7	69
20	160.0	26.7	111
34	145.8	32.8	102
15	123.0	4.4	72
28	101.1	5.4	84
25	98.0	24.5	60
30	79.6	19.9	106
44	78.2	8.6	67
48	47.0	11.8	111
8	36.8	9.2	28
9	27.4	6.9	35
5	18.4	5.2	78
37	18.4	9.2	95
13	16.8	8.4	101
38	16.8	8.4	98
6	14.4	7.2	91
46	12.6	3.2	20
49	10.6	5.3	115
10	8.4	4.2	66

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
36	2216.2	10.0	81
21	2157.4	11.7	61
33	1812.0	15.1	95
37	578.2	24.1	93
62	381.0	27.2	80
86	303.8	12.7	76
38	302.2	15.1	95
63	280.0	23.3	138
84	220.9	15.3	73
47	204.4	34.1	144
39	181.2	90.6	150
35	181.0	10.1	79
22	157.6	9.9	65
64	133.4	66.7	98
55	114.9	12.4	112
85	114.8	37.9	127
61	114.2	4.8	56
65	109.4	18.2	78
76	101.0	10.1	48
7	95.0	47.5	241
60	94.4	7.9	60
70	87.4	43.7	129
1	86.4	14.4	70
23	82.2	8.2	67
58	66.7	22.0	101
57	53.8	26.9	112
4	48.8	8.1	71
18	45.4	7.6	45
67	42.0	10.5	74
75	41.0	20.5	77
77	38.2	19.1	80
31	36.8	18.4	223
59	27.0	13.5	95
5	26.0	13.0	117
6	21.8	4.9	98
79	13.3	5.3	110
24	9.0	4.5	74

LET'S GO CRUISE 87-2  
 EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC HEFRING

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
1	11475.6	0.2	30
9	2374.0	0.2	35
46	262.0	0.2	20
10	135.0	0.2	66
8	87.0	0.2	28
5	1.0	0.3	78
51	0.2	0.1	146

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC HERRING

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
36	110.0	0.0	81
61	37.6	0.2	56
60	32.0	0.2	60
38	22.0	0.2	95
18	14.6	0.2	45
35	9.0	0.2	79
33	5.2	0.2	95
76	5.0	0.1	48
37	3.0	0.3	93
78	1.3	0.5	92
62	0.8	0.1	80
19	0.4	0.1	83

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
21	10894.9	1.4	136
22	7900.0	1.5	124
32	4036.4	0.6	118
19	3343.6	1.1	129
24	1526.0	0.8	127
39	617.8	0.8	103
49	562.0	0.6	115
23	326.0	0.8	151
16	261.0	2.3	102
31	170.0	0.3	107
47	160.0	1.3	130
37	116.0	0.7	95
36	110.0	1.0	142
33	102.7	0.4	105
20	67.0	0.4	111
30	58.0	0.2	106
18	42.0	0.4	107
34	31.1	0.3	102
40	30.0	1.5	158
7	24.0	1.0	82
17	21.2	1.6	101
35	13.2	0.5	109
38	13.0	0.3	96
6	12.0	0.5	91
42	12.0	1.5	119
48	10.6	0.3	111
13	8.0	0.3	101
12	4.5	1.1	127
28	2.5	0.2	84
51	2.0	1.0	146
26	0.2	0.1	72



NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
70	7747.6	2.2	129
48	4842.0	1.5	136
43	4189.0	1.6	138
85	4160.3	1.1	127
47	2706.0	1.5	144
39	684.0	1.8	150
49	551.7	1.8	198
69	446.6	0.4	120
80	367.6	0.8	105
82	319.8	2.4	189
44	174.0	1.0	131
57	151.0	0.5	112
55	125.1	1.7	112
50	97.0	1.7	199
79	83.8	0.4	110
29	80.0	1.7	193
56	60.0	0.9	152
51	58.0	1.7	242
15	50.0	2.1	211
54	50.0	1.8	114
6	48.9	0.3	98
2	28.0	0.4	99
72	26.6	2.2	194
16	24.0	2.0	210
71	20.0	2.0	186
3	19.0	0.5	91
81	8.9	1.7	220
14	8.0	2.0	193
10	5.0	2.5	174
74	5.0	0.4	124
33	4.0	0.1	95
35	4.0	0.1	79
67	4.0	0.3	74
17	3.0	1.5	178
25	2.0	0.5	83
27	0.6	0.1	71
58	0.6	0.2	101
26	0.6	0.3	80

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES REDSTRIPE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV MGT (LB)	GEAR DEPTH (FM)
64	2896.8	1.4	98
55	1051.6	1.0	112
58	610.6	0.8	101
57	367.0	1.2	112
23	349.0	0.6	67
63	300.0	1.4	138
67	300.0	0.4	74
54	151.0	1.2	114
6	36.0	4.0	98
69	8.4	1.4	120
56	7.6	1.3	152
45	7.6	0.6	97
44	4.0	2.0	131

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES REX SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
20	173.0	0.5	111
41	140.0	0.6	145
42	124.0	0.5	119
8	102.0	0.4	28
19	75.0	0.0	129
36	68.0	0.5	142
40	63.0	0.5	158
30	54.0	0.5	106
34	53.3	0.4	102
18	52.0	0.6	107
33	48.6	0.4	105
49	46.0	0.5	115
24	44.0	0.4	127
43	40.0	0.4	129
38	38.0	0.4	98
50	37.2	0.5	138
4	30.3	0.4	83
32	30.3	0.4	118
51	30.0	0.6	146
22	28.0	0.4	124
39	27.2	0.5	103
12	26.5	0.4	127
28	21.4	0.7	84
21	21.2	0.4	136
23	20.0	0.3	151
3	17.0	0.5	69
31	16.0	0.4	107
37	14.0	0.4	95
9	13.0	0.3	35
17	7.0	0.6	101
47	6.0	0.3	130
2	4.0	0.3	57
16	4.0	0.3	102
35	3.0	0.5	109
1	2.8	0.5	30
10	2.4	0.4	66
5	2.0	0.5	78
14	2.0	0.3	83
46	2.0	0.3	20
45	1.6	0.6	80
6	1.0	0.5	91
7	1.0	0.5	82

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES REX SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
11	230.0	1.8	307
84	197.1	0.6	73
86	164.0	0.5	76
37	126.0	0.5	93
19	102.0	0.4	83
17	100.0	1.6	178
38	90.0	0.5	95
59	80.0	0.5	95
56	72.0	0.5	152
7	66.0	0.6	241
81	57.4	0.7	220
79	56.3	0.6	110
1	46.0	0.5	70
62	43.0	0.5	80
4	39.0	0.4	71
6	35.6	0.5	98
65	30.0	0.4	78
69	29.8	0.5	120
35	26.0	0.3	79
71	26.0	0.5	186
43	25.0	0.5	138
47	23.0	0.4	144
52	22.0	0.6	308
15	19.0	0.6	211
31	19.0	0.6	223
85	18.2	0.5	127
32	17.9	0.5	250
82	16.6	0.7	189
48	16.0	0.5	136
51	16.0	0.5	242
73	13.0	0.6	220
14	12.0	0.5	193
18	12.0	0.7	45
60	12.0	0.3	60
72	11.0	0.6	194
75	11.0	0.4	77
55	9.3	0.5	112
10	9.0	0.6	174
78	6.8	0.5	92
58	6.5	0.5	101
23	6.0	0.6	67
49	7.2	0.7	198
33	5.0	0.4	95
44	5.0	0.6	131
77	5.0	0.4	80
63	3.4	0.3	138
57	3.0	0.3	112
26	2.4	0.2	80

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES REX SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
8	2.0	1.0	355
16	2.0	0.3	210
24	2.0	0.5	74
39	2.0	0.5	150
27	1.8	0.3	71
41	1.5	0.5	294
12	1.0	0.5	334
30	1.0	0.2	224
25	0.4	0.1	83
3	0.2	0.1	91
36	0.2	0.1	81
61	0.2	0.1	56

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
36	428.0	2.5	142
48	60.0	0.6	111
42	58.0	1.5	119
47	44.0	0.6	130
43	34.0	1.1	129
16	31.0	0.5	102
50	30.2	4.3	138
17	26.0	0.9	101
33	24.3	2.3	105
23	20.0	2.5	151
41	16.0	2.0	145
51	16.0	1.6	146
3	12.0	0.5	69
20	11.6	1.2	111
34	11.1	5.0	102
14	10.0	1.0	83
22	10.0	2.5	124
12	8.2	0.6	127
4	7.6	1.3	83
7	6.0	0.4	82
15	6.0	0.5	72
18	6.0	1.5	107
6	5.0	0.5	91
13	2.4	0.3	101
10	2.0	0.3	66
5	1.6	0.4	78
19	1.6	0.8	129
2	1.0	0.5	57
30	1.0	0.5	106
26	0.4	0.1	72
31	0.2	0.1	107

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
29	1211.0	3.3	193
51	1073.0	3.6	242
16	800.0	3.4	210
62	762.8	6.3	189
13	337.5	1.2	205
14	169.0	1.7	193
15	153.0	1.3	211
17	137.0	2.4	178
2	92.0	1.0	99
30	67.0	4.8	224
41	43.9	4.8	294
31	41.0	4.1	223
71	37.0	1.2	186
72	33.6	1.4	194
9	32.0	2.7	173
73	21.0	1.8	220
50	20.0	1.7	199
3	18.0	0.9	91
26	13.4	0.3	80
39	11.4	0.5	150
19	11.0	0.5	83
47	9.0	0.5	144
25	8.0	0.6	83
81	6.1	2.3	220
74	4.0	0.7	124
10	3.0	0.8	174
23	3.0	1.5	67
43	3.0	1.5	138

LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
40	2503.0	2.0	158
21	530.6	3.2	136
22	372.0	3.4	124
41	358.0	3.6	145
24	338.0	2.6	127
20	287.0	2.5	111
19	227.8	2.7	129
32	224.2	4.4	118
42	172.0	3.6	119
36	158.0	6.1	142
49	116.0	2.3	115
43	112.0	5.6	129
50	103.5	3.0	138
13	94.0	2.2	101
23	88.0	2.4	151
18	84.0	2.2	107
12	50.0	2.7	127
4	45.5	3.0	83
31	42.0	2.6	107
14	27.4	2.3	83
38	26.0	1.9	98
39	26.0	2.6	103
48	24.0	3.0	111
34	22.2	2.0	102
9	20.2	0.9	35
47	17.0	2.6	130
5	12.0	2.0	78
8	12.0	1.2	28
15	12.0	2.0	72
33	10.8	2.0	105
44	10.6	1.2	67
11	10.0	2.5	52
6	8.0	2.0	91
30	8.0	2.0	106
10	7.2	1.6	66
28	7.1	2.0	64
2	5.0	2.5	57
3	5.0	2.5	69
16	4.6	2.3	102
7	3.0	1.5	82

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
31	1268.0	6.0	223
30	998.0	6.0	224
11	872.0	6.1	307
32	732.1	5.5	250
17	526.0	4.9	178
7	520.0	4.9	241
5	468.8	7.6	117
29	460.0	4.9	193
73	424.0	4.7	220
8	342.0	7.1	355
85	328.2	5.2	127
72	261.6	3.8	194
37	172.0	2.5	93
86	152.0	2.9	76
81	123.7	5.2	220
49	111.1	4.0	198
84	108.6	3.2	73
1	94.0	1.4	70
71	87.0	4.8	186
12	82.0	5.5	334
38	76.0	2.2	95
43	61.0	7.6	138
69	53.0	6.6	120
2	52.0	3.7	99
48	48.0	8.0	136
82	44.7	5.3	189
10	43.0	5.4	174
44	41.0	2.6	131
16	39.0	2.8	210
79	37.5	2.1	110
13	33.8	4.5	205
24	19.0	9.5	74
3	17.0	2.8	91
74	16.6	4.2	124
9	16.0	4.0	173
50	15.2	5.0	199
19	12.0	2.0	83
52	12.0	6.0	308
6	10.0	4.5	98
54	8.0	4.0	114
75	7.0	1.8	77
78	4.5	1.8	92
4	4.0	1.0	71
25	3.0	0.8	83
47	3.0	1.5	144
62	2.4	1.2	80
18	2.0	1.0	45
39	0.2	0.1	150

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
56	0.2	0.1	152



LET'S GO CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES SHARPCHIN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
4	397.0	0.3	83
21	388.0	0.7	136
39	189.8	0.6	103
31	106.0	0.6	107
33	89.2	0.8	105
20	35.0	0.4	111
30	27.0	0.6	106
19	8.0	0.6	129
40	4.0	0.7	158
32	3.0	0.3	118
22	2.4	0.3	124
37	2.0	0.3	95
18	1.4	0.2	107
5	1.0	0.3	78
23	1.0	0.5	151

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES SHARPCHIN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
5	9062.6	0.8	117
63	6821.2	0.6	138
55	4887.4	0.8	112
58	1899.4	0.4	101
54	946.2	0.5	114
43	723.0	0.6	138
57	703.0	0.4	112
64	579.4	0.6	98
70	291.8	0.6	129
44	254.0	0.7	131
48	132.0	0.5	136
39	108.6	0.9	150
47	99.0	0.7	144
85	60.6	0.6	127
56	60.0	0.8	152
45	51.5	0.6	97
6	17.8	0.3	98
67	16.0	0.3	74
69	14.6	0.7	120
80	2.9	0.3	105
75	1.6	0.3	77
2	1.2	0.3	99
74	1.0	0.2	124
29	0.6	0.3	193
71	0.4	0.2	186
73	0.4	0.2	220

LET'S GO CRUISE 87-2  
 EASTERN GULF OF ALASKA 1987  
 SPECIES SHORTRAKER RECFNISH

HAUL	CATCH LB/1.0 HR	AV NGT (LB)	GEAR DEPTH (FM)
36	28.0	14.0	142
41	24.0	6.0	145

NORE-DICK CRUISE 87-2  
EASTERN GULF OF ALASKA 1987

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
30	627.0	8.3	224
7	602.0	10.8	241
16	464.0	8.0	210
13	415.0	4.2	205
43	378.0	18.9	138
14	280.0	8.8	193
82	241.7	16.2	189
15	199.0	11.1	211
31	182.0	11.4	223
52	165.0	6.5	308
29	89.0	11.1	193
81	44.2	5.6	220
73	42.0	21.0	220
41	37.9	6.3	294
51	2.0	1.0	242

LET'S GO CRUISE 67-2  
EASTERN GULF OF ALASKA 1987

SPECIES SHORTSPINE THORNHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
42	280.0	0.8	119
41	226.0	0.5	145
40	172.0	0.6	158
36	100.0	0.5	142
21	95.7	0.3	136
12	94.7	0.6	127
50	82.6	1.1	138
19	66.0	0.3	129
22	64.0	0.5	124
23	58.0	0.3	151
43	44.0	0.7	129
47	44.0	0.4	130
51	31.0	1.7	146
24	24.0	0.3	127
48	5.0	0.3	111
45	4.0	2.0	80
18	3.2	0.6	107
38	2.0	1.0	98
16	1.6	0.6	102
32	0.3	0.1	118

NORE-DICK CRUISE R7-2  
EASTERN GULF OF ALASKA 1987

SPECIES SHORTSPINE TPOGNYHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
11	615.0	1.7	307
39	584.0	0.5	150
50	483.3	0.5	199
7	424.0	1.2	241
52	392.0	0.5	308
47	387.0	0.5	144
14	323.0	0.3	193
17	273.0	0.8	178
81	239.5	0.7	220
44	216.0	0.3	131
73	205.0	1.5	220
71	195.6	0.8	186
8	194.0	1.0	355
13	192.5	0.4	205
49	191.7	0.6	198
32	173.2	0.4	250
43	169.0	0.4	138
29	166.0	0.6	193
51	157.0	0.3	242
31	142.0	0.9	223
72	142.0	0.8	194
48	131.6	0.4	136
82	120.2	1.3	189
16	120.0	0.3	210
30	120.0	0.8	224
12	116.0	0.7	334
15	114.0	0.3	211
41	100.0	0.4	294
56	54.0	0.4	152
69	44.0	0.4	120
10	36.0	0.9	174
70	32.0	0.3	129
63	31.2	0.3	138
57	29.0	0.4	112
74	28.0	2.3	124
54	27.0	0.4	114
33	20.4	0.5	95
9	20.0	0.6	173
85	10.6	0.3	127

LET'S GO CRUISE 07-2  
EASTERN GULF OF ALASKA 1987

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
12	716.3	1.1	127
42	696.0	1.0	119
50	404.7	1.3	130
41	348.0	1.1	145
23	318.0	1.4	151
43	220.0	0.6	129
8	160.0	0.3	20
46	155.0	1.4	20
51	134.0	1.1	146
40	108.0	2.3	158
32	90.9	0.9	118
22	64.0	0.9	124
36	58.0	1.0	142
13	51.6	1.1	101
9	49.0	0.3	35
21	47.8	1.0	136
19	43.0	1.2	129
45	43.0	2.2	80
49	38.0	1.1	115
24	36.0	0.6	127
48	31.0	1.0	111
16	30.0	1.3	102
34	26.7	0.2	102
39	25.4	0.5	103
33	18.9	0.3	105
20	18.0	0.3	111
25	18.0	0.4	60
18	17.0	0.9	107
31	16.4	0.4	107
17	13.6	1.7	101
6	12.0	1.2	91
7	8.0	1.0	82
47	8.0	1.0	130
28	5.4	0.2	84
10	5.0	0.4	66
37	5.0	0.6	95
26	4.0	0.3	72
30	4.0	0.3	106
44	3.0	0.1	67
11	3.0	0.1	52
14	3.0	1.5	83
1	2.6	0.5	30
5	2.6	0.4	78
2	1.0	0.1	57
27	1.0	0.2	76
35	0.2	0.1	109
38	0.2	0.1	98