

BOTTOM FISH AND SHELLFISH EXPLORATIONS IN THE PRINCE WILLIAM SOUND AREA, ALASKA, 1954

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SUMMARY

Explorations in the Prince William Sound Area of Alaska for bottom fish and shellfish were conducted by the Service's exploratory fishing vessel John N. Cobb

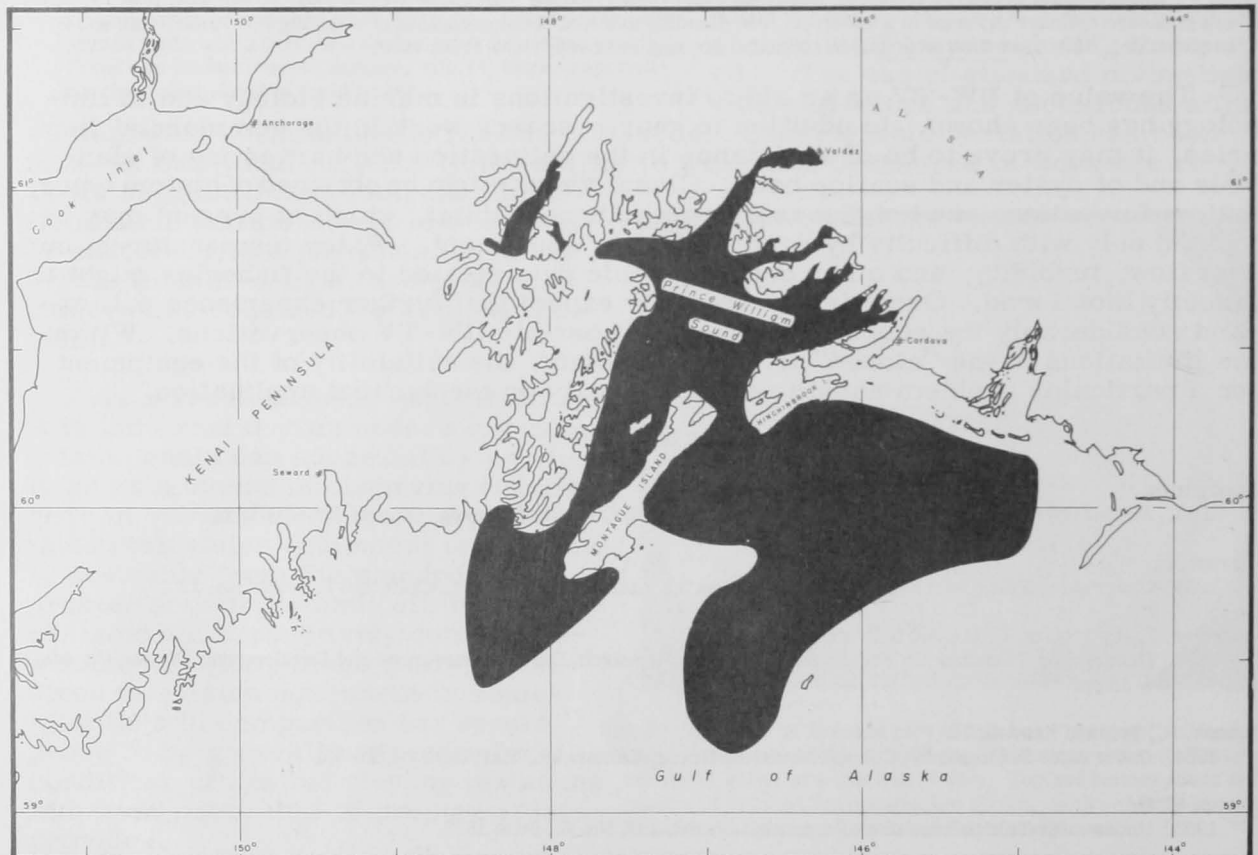


Fig. 1 - Northern Gulf of Alaska. Shaded portion indicates area of fishing operations.

during two periods in 1954. Gear used during the first period (February 26 to April 6) included otter trawls and beam trawls. Gear used during the second period (July 13 to September 8) included otter trawls, beam trawls, king-crab pots, and shrimp traps.

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Commercial quantities of Pacific ocean perch and sablefish were taken in otter-trawl drags in the offshore waters adjacent to Prince William Sound during the second period. The best catches of Pacific ocean perch were made in the vicinity of Middleton Island and south of Point Elrington. The best catches of sablefish were also made south of Point Elrington. Starry flounder were taken in amounts up to 1,800 pounds per drag from near Cape Hinchinbrook to off Cottonwood Point. Otter-trawl drags in Prince William Sound proper during both periods caught only small amounts of commercially-desirable species of bottom fish. King-crab catches were also small.

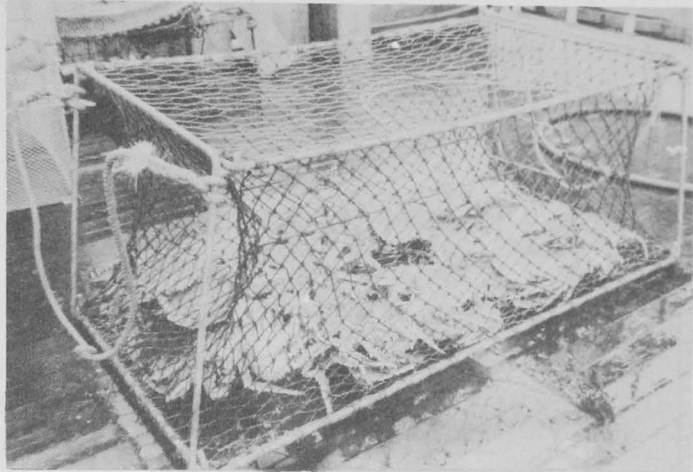


Fig. 2 - Collapsible king-crab pot with catch of crabs.

Favorable shrimp catches were made by beam trawl in Orca Bay, Port Gravina, and Montague Strait during the second period. Only a few shrimp were taken by traps.

The best results with king-crab pots were obtained in College Fiord and Esther Passage.

Inclement weather interfered with operations during the initial two weeks of the first period. During the second period, weather conditions were generally favorable.

BACKGROUND INFORMATION

Explorations for bottom fish and shellfish in the Prince William Sound area (fig. 1), Alaska, were undertaken by the U. S. Fish and Wildlife Service's exploratory fishing vessel John N. Cobb during 1954. Fishing operations were carried out from February 26 to April 6 and from July 13 to September 8.



Fig. 3 - Removing king crab from pot. Four collapsed pots are stacked near stern.

The Prince William Sound explorations were part of the Service's long-range plan to explore the untapped fishery resources of waters in and near Alaska. The explorations were scheduled at this time in an attempt to locate commercial quantities of bottom fish, shrimp, and king crab, the utilization of which would help to replace the revenue lost as the result of the depletion of pink salmon in this area.

During the first period of the explorations (February 26 to April 6), 102 otter-trawl drags were made for bottom fish and king crab, and 18 beam-trawl drags were made for shrimp. During the second period of the explorations (July 13 to September 8), 88 otter-trawl drags and 90 beam-trawl drags were made, and, in addition, 93 king-crab pots and 69 shrimp traps were set.

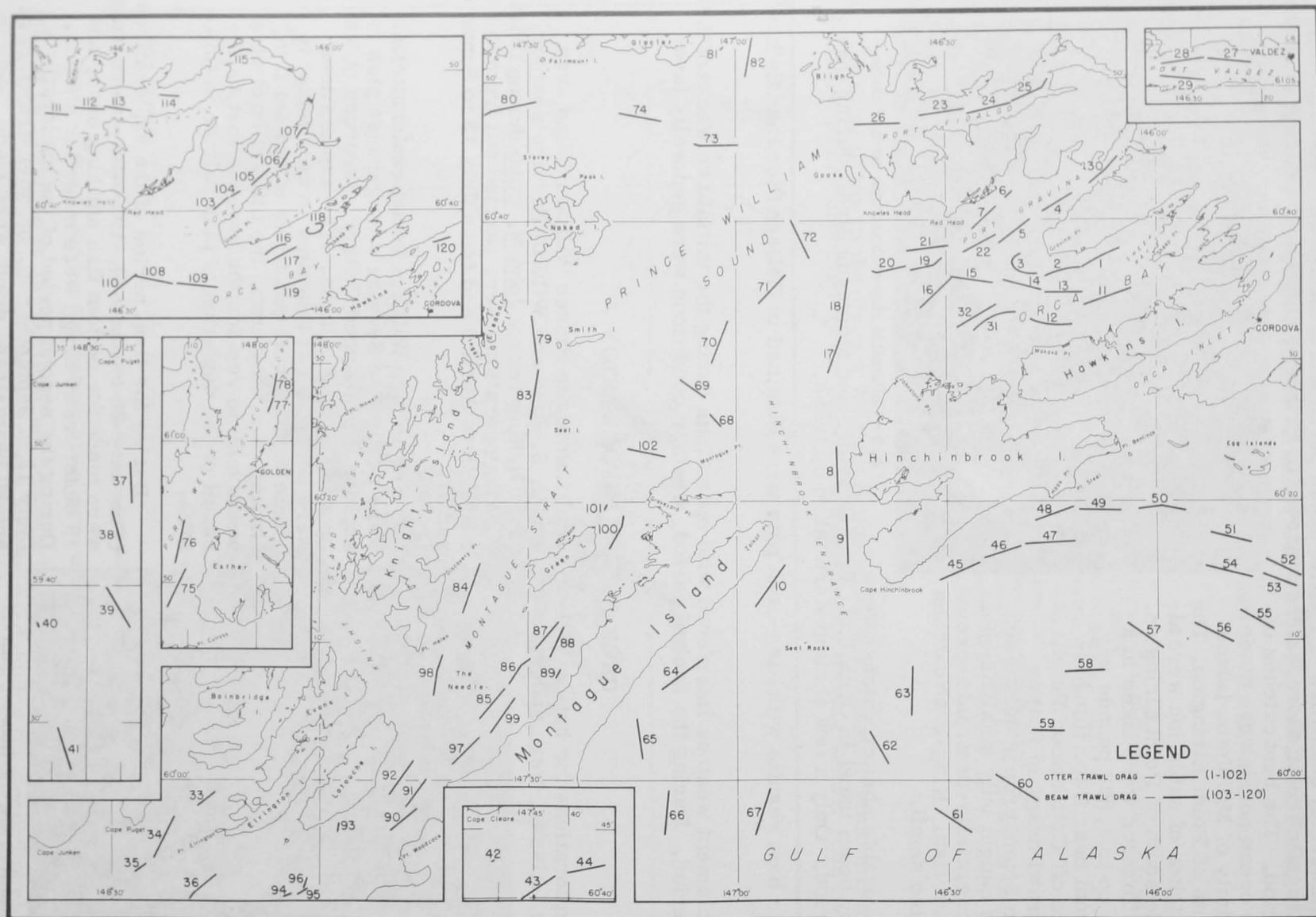


Fig. 4 - Location of otter-trawl drags and beam-trawl drags, first period (February 26 to April 6, 1954).

In 1931, small quantities of shrimp were processed experimentally at Cordova, but no statistics on the amounts are available (Bower 1932). During most of the succeeding years from 1931 to 1940, limited quantities of shrimp were processed in connection with the canning of dungeness crab. Fishing boats outfitted with beam trawls have landed limited amounts of shrimp at Cordova in recent years, but no consistent shrimp fishery has been established there (Wigutoff 1953).

During the spring of 1941, otter trawls were experimentally fished in certain parts of Prince William Sound by the Alaska King Crab Investigation of the Fish and Wildlife Service (Anonymous 1942). At that time, catches of bottom fish, which were taken incidental to the king-crab fishing, were usually small. Except for two drags in Simpson Bay, each of which caught approximately 1,500 pounds, not more than 660 pounds of bottom fish were taken per drag. Because only small numbers of king crab were caught in the experimental fishing, the area was not thoroughly explored.

GEAR USED

OTTER TRAWL: All drags for bottom fish and king crab were made with a standard 400-mesh western trawl. (Details of the trawl are described by Alverson 1951.) The wings, body, and intermediate of the trawl were $4\frac{1}{4}$ -inch mesh. ¹/ A 5-inch-mesh cod end was used exclusively during the first period. During the second period, a 5-inch-mesh cod end was used for all drags made in Prince William Sound proper, and a $3\frac{1}{2}$ -inch-mesh cod end was used for most drags made in offshore areas likely to be inhabited by Pacific ocean perch (*Sebastes alutus*). The smaller-mesh cod end was used to prevent excessive gilling and possible loss of marketable-size individuals of this species.

As it was desired to sample the bottom-fish and king-crab populations simultaneously, the use of standard commercial king-crab trawls, which have a 12-inch-mesh cod end, was not feasible.

BEAM TRAWL: All drags for shrimp were made with a 20-foot beam trawl. The net was constructed with 36-thread $1\frac{1}{2}$ -inch-mesh cotton webbing, 150 meshes deep. (Details of the beam trawl are described by Ellson and Livingstone 1952.)

KING-CRAB POTS: A patented box-shaped collapsible-type king-crab pot was used (figs. 2 and 3). The bottom frame was 36 inches wide and 72 inches long, and the top frame was 36 inches wide and 60 inches long. Each end frame was shaped like an inverted "U" and had 30-inch sides and a 34-inch top. Eyes were bent in the tips of the end frames to secure them to the bottom frame. These eyes hinged the end frames to the bottom frame to provide for setting up or collapsing the pot. Hooks welded to the sides of the end frames, near the corners, supported the top frame when the pot was set up for fishing. All of the frames were made of $\frac{5}{8}$ -inch-diameter galvanized mild-steel rods.

The sides and ends of the pot were covered with 96-thread $4\frac{1}{2}$ -inch-mesh tarred cotton webbing lashed to the top and bottom frames, which were covered with 2-inch by 4-inch (open mesh) 15-gauge galvanized wire netting. A rectangular-shaped tunnel-entrance frame at each end was 7 by 14 inches and was made of $\frac{1}{4}$ -inch-diameter galvanized mild steel. The tunnel indentations were formed by pulling the tun-

¹/All mesh sizes in this report refer to stretched measure.

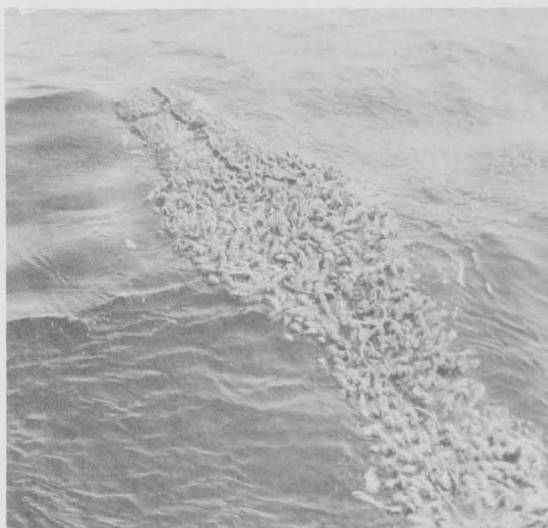


Fig. 5 - A "floater" (full cod end) of Pacific ocean perch being brought alongside the exploratory fishing vessel John N. Cobb.

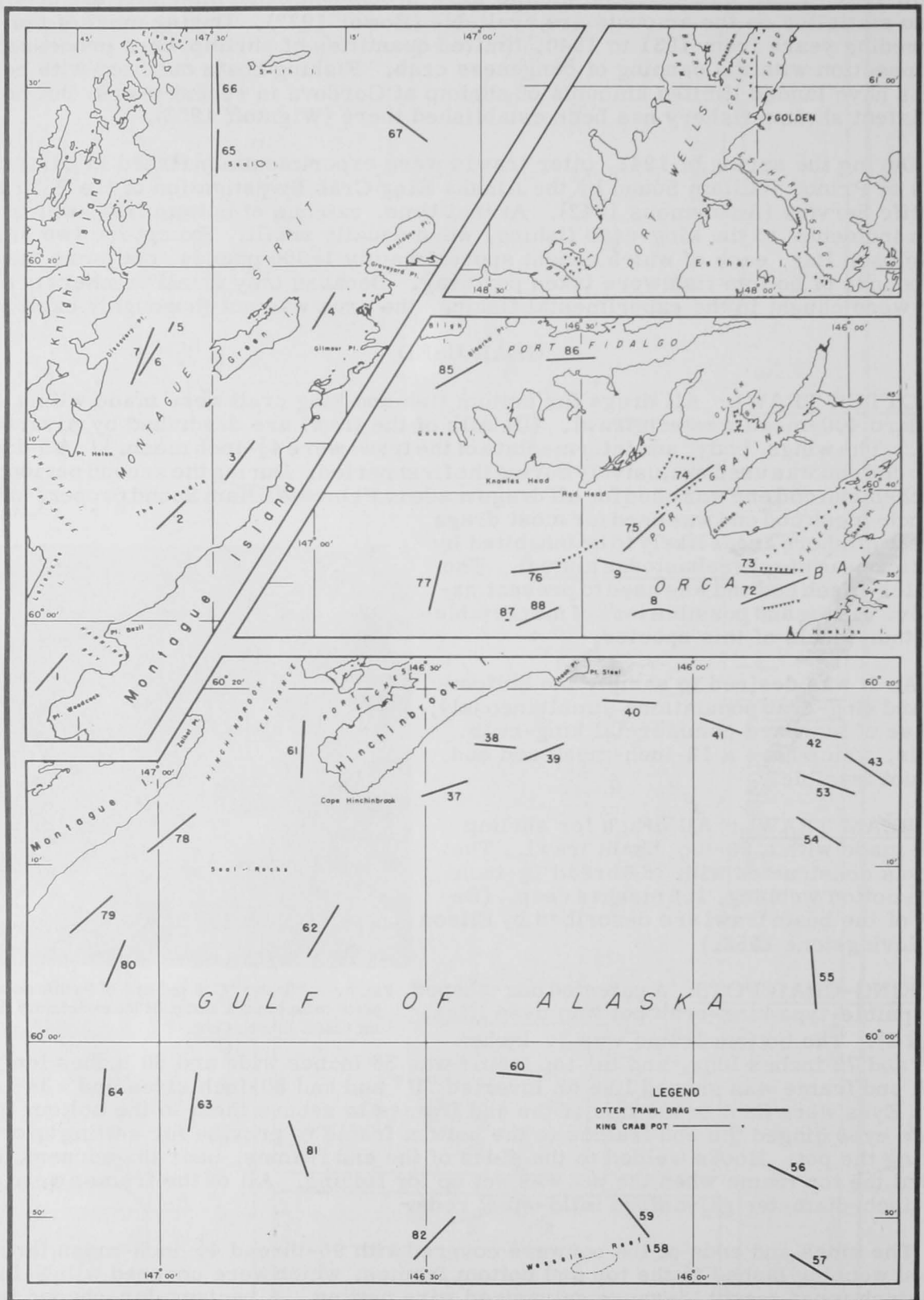


Fig. 6 - Location of otter-trawl drags and king-crab pots in Prince William Sound proper and otter-trawl drags in offshore waters from off Montague Island to off the Egg Islands, second period (July 13 to September 8, 1954).

nel entrance frames toward each other and then tying them in place with tarred lines. Triggers were made of 16-gauge wire.

Access to the inside of the pot for baiting and removing the catch was through a semicircular opening in the top. A lid of galvanized wire netting framed with 8-gauge galvanized wire covered this opening.

Bait was cut into small pieces and placed in a net bait bag that was then suspended between the tunnel entrance frames. Except for the first few sets in which only frozen herring was used, frozen herring and fresh scrap fish were always used simultaneously in the same pot.

SHRIMP TRAPS: Both two-tunnel galvanized-iron shrimp traps were fished. These traps were of the same types as those used during the 1952 (Schaefers 1953) and 1953 (Schaefers and Smith 1954) shellfish explorations of the John N. Cobb.

FISHING RESULTS

Detailed results of otter-trawl and beam-trawl drags for the first period are tabulated in tables 1 and 3, respectively; and the location of each drag is diagrammatically illustrated in figure 4. Detailed results of otter-trawl and beam-trawl drags for the second period are tabulated in tables 2 and 4, respectively; and the location of each otter-trawl drag is diagrammatically illustrated in figures 6 and 8, and of each beam-trawl drag in figure 10. Results of the king-crab-pot sets and the shrimp-trap sets are tabulated in tables 5 and 6, respectively. The location of each king-crab pot is diagrammatically illustrated in figure 6.



Fig. 7 - Emptying the beam trawl on the deck of the John N. Cobb. Mostly trash and few shrimp were caught in this drag.

FISHING RESULTS OBTAINED IN PRINCE WILLIAM SOUND PROPER

ORCA BAY AREA: First Period: Fifteen otter-trawl drags at depths of 28 to 84 fathoms yielded small catches. Starry flounder (Platichthys stellatus), flathead "sole" (Hippoglossoides elassodon), and lemon "sole" (Pleuronectes quadrituberculatus) were taken in amounts up to 75 pounds, 50 pounds, and 30 pounds per drag, respectively. English "sole" (Parophrys vetulus), rock "sole" (Lepidopsetta bilineata), and true cod (Gadus macrocephalus) were taken in trace^{2/} amounts. Halibut (Hippoglossus stenolepis)^{3/} were taken in amounts ranging from 0 to 58 individuals per drag. Six king crab (Paralithodes camtschatica),^{4/} the majority of which were in the soft-shell state, were also taken.

Shrimp operations were of a preliminary nature, and only a limited number of drags were made with the beam trawl. The best drag caught 109 pounds^{5/} of pink shrimp (Pandalus borealis) and 27 pounds of side-stripe shrimp (Pandalopsis dispar) per hour.^{6/}

^{2/} A trace is less than 20 pounds of fish.

^{3/} Halibut were measured and released at the request of the International Pacific Halibut Commission.

^{4/} Unless otherwise noted, only legal-size king crab (hard-shell males not less than 6½ inches in greatest width of shell) are referred to in the text. Complete tabulations of all male and female king crab caught during these explorations are given in tables 1 to 5.

^{5/} Complete details of number of whole (heads on) shrimp per pound for all beam-trawl drags are given in tables 3 and 4.

^{6/} Shrimp-catch results have been converted to a rate-per-hour basis to permit catch comparison of shrimp drags made for different lengths of time.

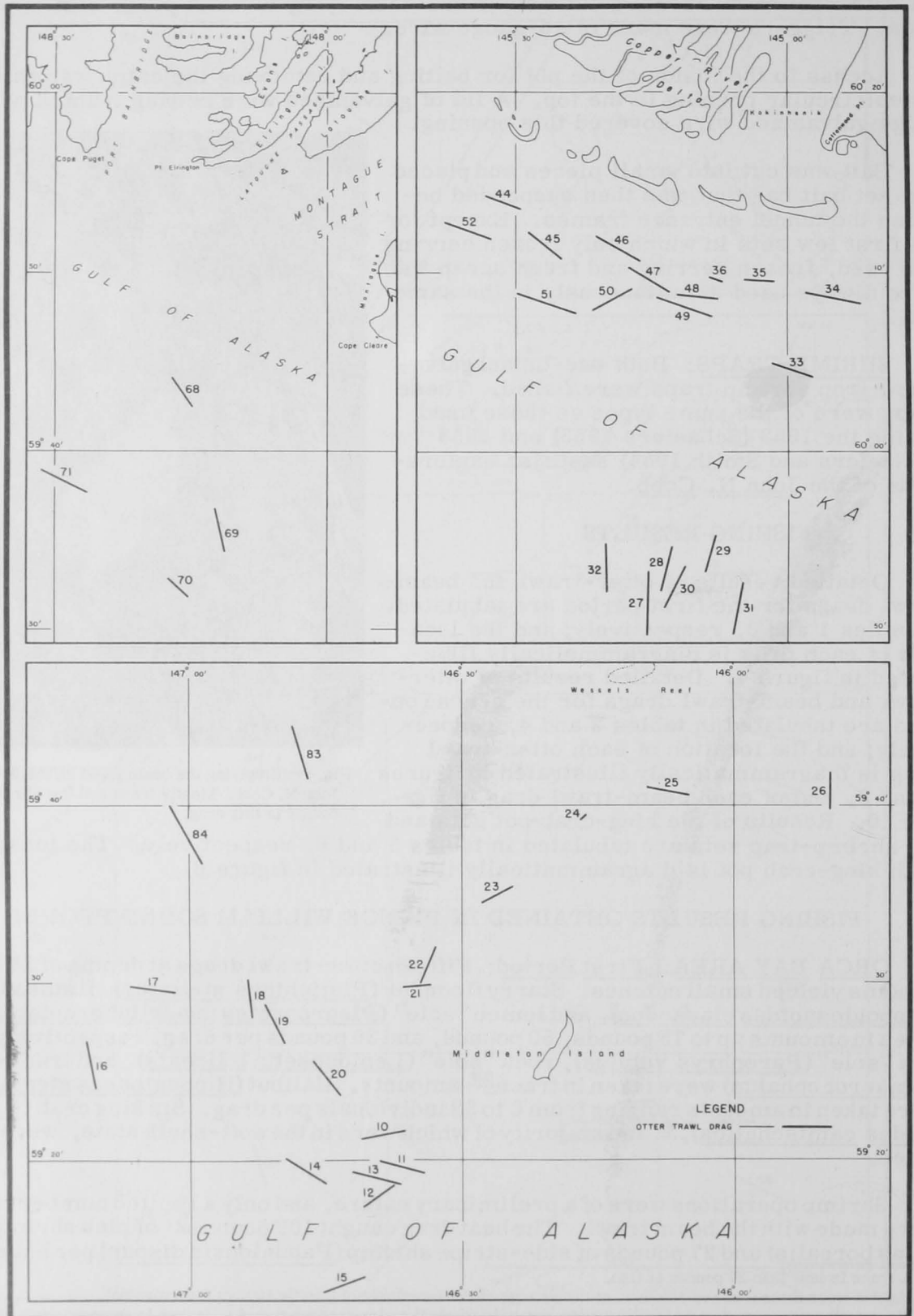


Fig. 8 - Location of otter-trawl drags off Point Elrington, off the Copper River Delta, and in the vicinity of Middleton Island, second period (July 13 to September 8, 1954).

Second Period: Seven otter-trawl drags^{7/} were made at depths of 52 to 88 fathoms. Catches per drag ranged from 35 to 500 pounds for true cod, from 50 to 250 pounds for flathead "sole," and from 0 to 8 individuals for halibut, and from 1 to 12 individuals for king crab.

The best catches of pink shrimp were obtained from off Canoe Passage to off Makaka Point, where 10 drags at depths of 58 to 86 fathoms caught from 96 to 262 pounds and averaged 154 pounds per hour. Catches of side-stripe shrimp in these drags were insignificant. The largest catch of side-stripe shrimp was taken off Windy Bay, where a single drag at 116 to 122 fathoms caught 84 pounds of small side-stripe shrimp and 120 pounds of pink shrimp per hour. In outer Orca Bay, pink shrimp were taken at the rate of 194 pounds per hour in a drag at 69 to 75 fathoms. Small numbers of king crab (up to 5 per drag) were taken in the beam trawl. Dragging bottom that was free of obstructions and suitable for drags of several hours' duration was prevalent. Side-slope drags yielded poor results, and the best shrimp catches occurred on relatively flat bottom or in slight depressions.

King-crab pot sets in Orca Bay and Sheep Bay averaged from less than 1 to 2.6 king crab per pot. The best catch was taken in a set of 9 pots off Canoe Passage at depths of 82 to 85 fathoms.

PORT GRAVINA AREA: First Period: Five otter-trawl drags in Port Gravina resulted in poor catches.

Shrimp catches in 5 beam-trawl drags were less than 70 pounds of shrimp per hour.

Second Period: Only one otter-trawl drag was made. It resulted in a poor catch.

The best shrimp catches were made from near the entrance to off Olsen Bay, where 4 drags at depths of 70 to 83 fathoms averaged 199 pounds of predominately pink shrimp per hour, with the best catch yielding 310 pounds of pink shrimp and 20 pounds of side-stripe shrimp. The dragging bottom was good in this vicinity, and catches were quite clean. A single drag near the head of Port Gravina at 54 to 71 fathoms caught 114 pounds of pink shrimp, 16 pounds of side-stripe shrimp, and 16 pounds of coon-stripe shrimp (*Pandalus hypsinotus*) per hour. Considerable amounts of small fish, kelp, and bottom debris were present in this drag.

A set of 9 king-crab pots in 68 to 78 fathoms near the entrance of Port Gravina yielded catches ranging from 0 to 6 individual king crab per pot, with an average catch of 2.6. King-crab pots set east of Red Head and in Olsen Bay at shallower depths were much less productive. Shrimp traps set in Olsen Bay at 11 to 34 fathoms caught only a few pink shrimp.

PORT FIDALGO: First Period: With the exception of small areas near the entrance and near the head, favorable dragging bottom was limited to depths of slightly over 100 fathoms. Four otter-trawl drags at 84 to 116 fathoms resulted in negligible catches of bottom fish and king crab.

Beam-trawl drags produced shrimp, but even the best drag yielded only 65 pounds of pink shrimp per hour.

Second Period: In two drags made during this time, the best catch of bottom fish and king crab was taken in a drag at 83 to 98 fathoms near the entrance. This drag caught 225 pounds of true cod, 50 pounds of flathead "sole," 1,200 pounds of pollock (*Theragra chalcogramma*), and 14 king crab. Drags for shrimp yielded less than 90 pounds per hour. Although no snags were encountered, beam-trawl catches

^{7/} Drag No. 87, which was made near the entrance of Orca Bay, hung up and therefore is not included.

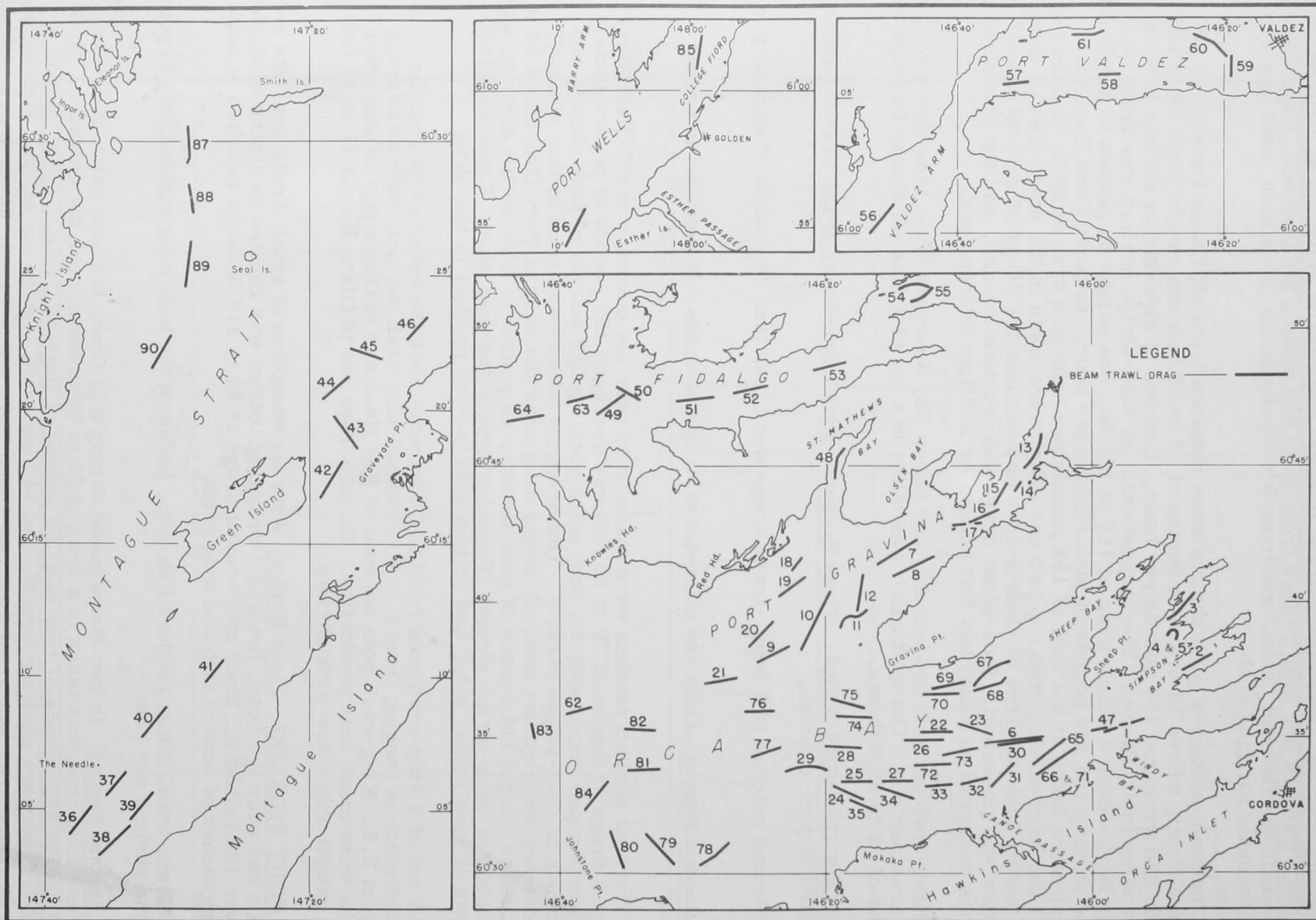


Fig. 10 - Location of beam-trawl drags, second period (July 13 to September 8, 1954).

(except those near the head) contained considerable amounts of trash--mainly shells, pieces of wood, kelp, and basket stars. With the exception of pieces of wood and kelp, otter-trawl catches were cleaner because of the larger mesh size.

PORT VALDEZ AND VALDEZ ARM: First Period: Three otter-trawl drags in Port Valdez at depths of 120 to 138 fathoms resulted in negligible catches. The bottom was strewn with debris and trash. Two drags were made near the entrance of Valdez Arm at depths of 200 to 206 fathoms with negligible results. In Valdez Arm, the bottom was more uneven and the depths were greater than in Port Valdez.

Second Period: Five beam-trawl drags in Port Valdez and one beam-trawl drag in Valdez Arm produced negligible shrimp catches. These drags were made at depths of 97 to 209 fathoms.



Fig. 9 - A good catch of Pacific ocean perch (right) and sablefish (left) in deck bins aboard the John N. Cobb.

ESTHER PASSAGE: First Period: The bottom in Esther Passage was too irregular for trawling.

Second Period: Nine king-crab pots set at depths of 52 to 90 fathoms for 20 hours caught a total of 30 king crab. The number of king crab in each pot ranged from 0 to 8.

COLLEGE FIORD: First Period: Two otter-trawl drags made in this area encountered snags, and catches were negligible.

Second Period: A single beam-trawl drag resulted in a broken beam. Despite this difficulty, 212 pounds of shrimp per hour were taken. The catch consisted of 62 percent pink, 36 percent coon-stripe, and 2 percent spot shrimp (Pandalus platyceros). The spot shrimp were large, averaging 7 whole (heads-on) shrimp per pound.

The best results from king-crab-pot sets were obtained here. A set of 9 pots at 43 to 68 fathoms for $23\frac{1}{2}$ hours caught 41 king crab.^{8/} The number of individuals per pot ranged from 0 to 14.

PORT WELLS AREA: First Period: Two otter-trawl drags at depths of 220 to 228 fathoms yielded poor results.

Second Period: A single beam-trawl drag at depths of 209 to 215 fathoms resulted in a torn net. In Pigot Bay, a set of 9 king-crab pots caught 22 king crab of which 20 were Paralithodes camtschatica and 2 were Paralithodes platypus.

MONTAGUE STRAIT AREA: First Period: Twenty-one otter-trawl drags were made from near the entrance of Montague Strait to off Montague Point and Eleanor Island at depths of 18 to 150 fathoms. The largest catch of king crab taken in any one drag during either period was made in drag number 85 at 68 to 74 fathoms near The Needle. Thirty-two legal-size male king crab, all in the soft-shell state, were caught.

^{8/} This catch consisted of 23 Paralithodes camtschatica, averaging 9.4 pounds each, and 18 Paralithodes platypus, averaging 6.4 pounds each.

The other drags at this time caught a total of only 8 legal-size male king crab, all in the soft-shell state. The average catch of halibut was 11.0 individuals per drag. Usually only trace catches of other desirable species of bottom fish were made. Dragging bottom was generally favorable, except near the entrance, where 4 drags hung up.

Second Period: Nine otter-trawl drags were made at depths of 40 to 155 fathoms. Catches of true cod and flathead "sole" ranged up to 300 pounds per drag, and halibut averaged 4.4 individuals per drag. Catches of arrow-toothed flounder (Atheresthes stomias) ranged up to 1,600 pounds per drag. King-crab catches were insignificant.

The best shrimp catches were obtained in 3 drags from off the northeast end of Green Island to off Graveyard Point at 67 to 85 fathoms. These drags caught up to 310 pounds of shrimp per hour and averaged 207 pounds of predominately pink shrimp per hour.

MIDDLE PRINCE WILLIAM SOUND: First Period: Otter-trawl drags from off Montague Point to off Storey Island at depths of 90 to 274 fathoms produced negligible results.

Second Period: Results of two widely-separated drags also yielded negligible results.

FISHING RESULTS OBTAINED IN OFFSHORE WATERS ADJACENT TO PRINCE WILLIAM SOUND

FIRST PERIOD: In the area off Cape Puget, otter-trawl drags were made at depths of 43 to 110 fathoms. The best drag caught only 125 pounds of true cod. Between Cape Cleare and the Egg Islands, 27 drags were made at depths of 10 to 152 fathoms, with poor results. Starry flounder (up to 50 pounds per drag) were present in all drags at 10 to 32 fathoms, and halibut (up to 21 individuals per drag) were present in nearly all drags at these depths. The rest of the drags were made at 34 to 152 fathoms and usually caught only trace amounts of true cod and arrow-toothed flounder, along with small numbers of halibut.

SECOND PERIOD: Good quantities of Pacific ocean perch (Sebastes alutus) and sablefish (Anoplopoma fimbria) were taken in the offshore waters adjacent to Prince William Sound.

In the area 12 to 24 miles south of Point Elrington, 4 drags produced catches of 2,300 to 3,800 pounds of Pacific ocean perch and up to 1,000 pounds of sablefish. These drags were made at depths of 90 to 122 fathoms. The bottom dragged was predominately gray mud and sand and was generally good, although the drag that caught the most Pacific ocean perch snagged after 30 minutes. From 700 to 1,700 pounds of arrow-toothed flounder were also taken in these drags. Pacific ocean perch from this area averaged 15.6 inches in length. Sablefish averaged 25.7 inches in length and 6.7 pounds in weight.

Pacific ocean perch grounds were also located in the area southwest to west of Middleton Island. The best drag (number 15) at 108 to 112 fathoms yielded 6,000 pounds of Pacific ocean perch. A slight tear was noted in the net after this drag. Several other drags in this area encountered snags and resulted in badly torn nets. However, the bottom dragged was generally favorable, and in no instance did the gear hang up. Pacific ocean perch averaged 15.5 inches in length. Most of the sablefish taken in this area were small and only 15 percent of the best catch (625 pounds) were of marketable size.

Approximately 10 miles east of Wessels Reef, 2 drags at 52 to 59 fathoms yielded 200 pounds and 1,000 pounds of Pacific ocean perch.

Two of a series of drags at 53 to 95 fathoms that were made approximately 30 miles off the Copper River Delta yielded catches of 600 pounds and 1,500 pounds of Pacific ocean perch. The dragging bottom in this area was generally clear.

Drags off the east side of Montague Island at depths of 81 to 154 fathoms usually yielded poor results, although drag number 63, which was made at 81 to 84 fathoms, caught 1,000 pounds of Pacific ocean perch.

Other drags in the offshore waters were generally made at depths of less than 50 fathoms. In the region between Cape Hinchinbrook and the Egg Islands, starry flounder was the dominant commercially-desirable species taken. The two best catches (1,300 and 1,800 pounds per drag) of this species were made between Cape Hinchinbrook and Hook Point at 20 to 28 fathoms. These starry flounder averaged 19.8 inches in length. Other catches were dominated by trash fish, mostly skates (Rajidae).

Catches from drags at 10 to 55 fathoms between the Egg Islands and Cottonwood Point consisted mostly of skates and of dogfish (*Squalus suckleyi*), although the catch of drag number 47 at 24 to 26 fathoms caught 900 pounds of starry flounder and only a few trash fish.

WEATHER CONDITIONS

During the initial two weeks of the first period gale-force winds occurred frequently, hampering operations in Prince William Sound proper and preventing operations in adjacent offshore waters. After this time, weather conditions were generally favorable in all areas.

During the second period, weather conditions were generally favorable.

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Note: The fishing logs of otter-trawl drags, beam-trawl drags, king-crab-pot catches, and shrimp-trap catches are shown in tables 1, 2, 3, 4, 5, and 6 (pp. 18-28).

Table 1 - Fishing Log of Otter-Trawl Drags Made During the First Period (February 26 to April 6, 1954)

Drag No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	2/26/54	2/26/54	2/26/54	2/27/54	2/27/54	2/27/54	2/27/54	2/28/54	2/28/54	2/28/54	3/3/54	3/3/54	3/3/54
Latitude N.	60°37.9'	60°36.6'	60°36.2'	60°31.6'	60°30.1'	60°28.1'	60°28.0'	60°28.0'	60°10.1'	60°12.1'	60°35.1'	60°30.6'	60°36.0'
Longitude W.	116°05.5'	116°11.0'	116°07.1'	116°12.2'	116°18.1'	116°20.6'	116°22.9'	116°25.9'	116°41.1'	116°57.1'	116°03.8'	116°16.1'	116°17.5'
Course, magnetic $\frac{1}{2}$	211°	228°	291°	205°	205°	194°	198°	151°	119°	009°	221°	218°	291°
Tide	Flood	High	Ebb	Ebb	Ebb	Low	Flood	Ebb	Low	100-112	118-152	76-84	71-78
Depth range in fathoms	14-56	16-56	18-52	76-80	70-71	25-28	24-28	118-164	bu. M.	gr. M.	bu. M.	14-50	71-78
Type of bottom	bu. M.	bu. M.	bu.-gy. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.	Clear	Clear	Clear	bu. M.	Clear
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Drag	Muddied down	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	57	60	14	55	60	60	60	60	60	60
Estimated total catch in pounds	225	100	125	100	50	---	70	100	60	400	100	190	100
Catch in pounds (\$ marketable):													
Flat fish													
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---
English	---	Trace	Trace	Trace	Trace	---	---	Trace	---	---	Trace	---	Trace
Flathead	50(60)	30(60)	25(50)	25(50)	20(50)	---	Trace	---	---	---	50(60)	25(50)	40(20)
Halibut	(4)	(1)	(3)	---	---	---	---	(7)	---	(4)	---	(5)	---
Lemon	25(85)	---	---	Trace	---	---	---	---	---	---	---	30(75)	---
Rox	Trace $\frac{1}{2}$	---	---	---	---	---	---	---	---	---	---	---	---
Rock	Trace	Trace	---	---	Trace	---	Trace	---	---	---	Trace	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	75(50)	20(65)	---	Trace	Trace	---	Trace	---	---	---	Trace	20(40)	Trace
Arrow-toothed flounder (turbot)	---	---	---	Trace	---	---	---	---	---	---	30(100)	---	---
Round fish													
Follock	---	---	Trace	---	---	---	---	---	---	---	---	---	---
Sablefish	Trace	---	Trace	---	---	---	---	---	---	---	Trace	---	---
True cod	---	---	---	---	---	---	---	50(80)	Trace	100(100)	---	---	---
Rockfish													
Pacific ocean perch	---	---	---	---	---	---	---	---	---	---	---	---	---
Red	Trace	---	---	Trace	---	---	---	Trace	---	Trace	Trace	---	---
King crab $\frac{1}{2}$													
Legal-size males	---	(2)	---	---	---	---	(1)	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	(1)
Females	---	(1)	---	---	---	---	(2)	---	---	---	---	---	(1)

Drag No.	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	3/4/54	3/4/54	3/4/54	3/4/54	3/4/54	3/6/54	3/6/54	3/6/54	3/6/54	3/7/54	3/7/54	3/7/54	3/6/54
Latitude N.	60°35.0'	60°35.5'	60°35.8'	60°29.2'	60°32.2'	60°37.3'	60°36.7'	60°37.8'	60°37.7'	60°47.5'	60°47.6'	60°48.4'	60°46.9'
Longitude W.	116°16.5'	116°23.3'	116°29.4'	116°17.0'	116°15.2'	116°30.7'	116°35.8'	116°35.8'	116°27.8'	116°33.8'	116°26.9'	116°20.6'	116°36.5'
Course, magnetic $\frac{1}{2}$	258°	249°	198°	353°	340°	222°	237°	055°	032°	054°	049°	029°	240°
Tide	Flood	Flood	High	Ebb	Ebb	Flood	High	Ebb	Ebb	Flood	Flood	High	Low
Depth range in fathoms	64-76	64-72	72-76	200-204	200-206	148-52	50-54	28-34	44-50	106-110	112-116	98-114	84-96
Type of bottom	bu. M.	bu. M.	bu. M.	gy. M.	gy. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	40	60	50	120	40	60	90	30	65	50	60	80	55
Catch in pounds (\$ marketable):													
Flat fish													
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---
English	---	---	---	---	---	---	---	---	---	---	---	---	Trace
Flathead	20(25)	Trace	Trace	Trace	Trace	---	Trace	Trace	---	Trace	Trace	Trace	Trace
Halibut	---	(1) $\frac{1}{2}$	---	(1)	(1)	(3)	(2)	---	(2)	---	(2)	(1)	---
Lemon	---	---	---	---	---	---	---	---	---	---	---	---	---
Rox	Trace $\frac{1}{2}$	---	---	---	---	---	---	---	---	---	---	---	---
Rock	---	---	---	---	---	---	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	Trace	---	---	---	Trace	---	Trace	Trace	---	---	---	Trace	Trace
Arrow-toothed flounder (turbot)	---	---	---	30(80)	Trace	---	---	---	---	Trace	Trace	Trace	Trace
Round fish													
Follock	Trace	Trace	Trace	60(70)	Trace	Trace	---	---	---	30(90)	20(50)	50(60)	20(80)
Sablefish	Trace	Trace	Trace	---	---	---	---	---	---	---	---	---	---
True cod	---	---	---	---	---	---	Trace	---	---	Trace	Trace	Trace	Trace
Rockfish													
Pacific ocean perch	---	---	---	---	---	---	---	---	---	Trace	---	---	---
Red	Trace	---	---	Trace	---	---	Trace	---	---	Trace	Trace	Trace	Trace
King crab $\frac{1}{2}$													
Legal-size males	---	---	---	---	---	---	(1)	---	(1)	(2)	---	(1)	(1)
Small males	---	---	---	---	---	---	---	---	---	---	---	---	(1)
Females	---	---	---	---	---	---	(1)	---	(1)	(1)	---	(1)	(1)

Note: For explanation of footnotes, see p. 21.

Table 1 - Fishing Log of Otter-Trawl Drags Made During the First Period (February 26 to April 6, 1954) (Continued)

Drag No.	27	28	29	30	31	32	33	34	35	36	37	38	39
Date	3/9/54	3/9/54	3/9/54	3/10/54	3/10/54	3/10/54	3/13/54	3/13/54	3/13/54	3/13/54	3/11/54	3/11/54	3/11/54
Latitude N.	61°06.7'	61°07.0'	61°05.8'	60°14.5'	60°32.1'	60°32.3'	59°59.1'	59°57.3'	59°53.9'	59°53.2'	59°19.0'	59°15.5'	59°39.9'
Longitude W.	116°21.5'	116°28.1'	116°34.4'	116°05.6'	116°26.2'	116°28.5'	118°15.1'	118°20.9'	118°25.1'	118°11.8'	118°23.8'	118°26.5'	118°27.4'
Course, magnetic 1/	247°	235°	067°	203°	040°	031°	206°	181°	207°	201°	152°	139°	124°
Tide	Low	Flood	Flood	Ebb	Flood	Flood	Ebb	Ebb	Low	Flood	High	Ebb	Ebb
Depth range in fathoms	120-136	136-138	138-138	80-104	44-56	64-68	92-104	88-92	70-92	43-68	72-76	78-84	106-110
Type of bottom	bu. M.	bu. M.	bu. M.	bu. M.	hrd.	hrd.	hrd.	hrd.	hrd.	M.	M.	M.	M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	60	60	27	60	15	60	60	60	61
Estimated total catch in pounds	25	45	10	220	170	285	100	65	25	25	30	150	50
Catch in pounds (% marketable):													
Flat fish													
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---
English	---	---	---	Trace	Trace	Trace	---	---	---	---	---	---	---
Flathead	---	---	---	Trace	Trace	Trace	---	---	---	---	Trace	Trace	---
Halibut	---	(2) 2/	---	(5)	(58)	(3)	(9)	(2)	(1)	(7)	(2)	---	---
Lemon	---	---	---	Trace	---	Trace	---	---	---	---	---	---	---
Rex	---	Trace	---	---	---	Trace	---	---	---	---	---	---	---
Rock	---	---	---	---	Trace	Trace	---	---	Trace	---	---	Trace	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	Trace	Trace	Trace	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	---	Trace	---	Trace	---	---	---	20(80)	Trace	---	Trace	Trace	Trace
Round fish													
Pollock	Trace 3/	Trace	Trace	Trace	---	---	25(50)	---	Trace	---	---	---	Trace
Sablefish	Trace	Trace	Trace	Trace	---	---	---	---	---	---	---	---	---
True cod	---	Trace	Trace	Trace	---	---	40(75)	20(100)	Trace	---	---	125(100)	20(100)
Rockfish													
Pacific ocean perch	---	---	---	---	---	---	---	---	---	---	---	---	---
Red	---	Trace	---	140(100)	---	---	Trace	Trace	---	---	---	---	Trace
King crab 1/													
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---

Drag No.	40	41	42	43	44	45	46	47	48	49	50	51	52
Date	3/11/54	3/11/54	3/15/54	3/15/54	3/15/54	3/17/54	3/17/54	3/17/54	3/18/54	3/18/54	3/18/54	3/18/54	3/18/54
Latitude N.	59°37.3'	59°29.6'	59°12.6'	59°39.9'	59°11.7'	60°11.3'	60°15.9'	60°16.9'	60°18.6'	60°19.4'	60°19.3'	60°17.7'	60°15.8'
Longitude W.	118°37.4'	118°34.3'	117°51.0'	117°16.9'	117°40.3'	116°31.4'	116°24.6'	116°18.9'	116°17.5'	116°11.3'	116°02.6'	115°52.3'	115°44.5'
Course, magnetic 1/	128°	136°	034°	029°	052°	038°	046°	060°	044°	064°	064°	072°	089°
Tide	Ebb	Flood	High	High	Ebb	Ebb	Ebb	Low	Flood	Flood	Flood	High	Ebb
Depth range in fathoms	48-49	56-64	44-44	63-66	64-66	24-28	20-24	22-27	11-11	12-12	10-10	20-22	28-32
Type of bottom	ky. co.	ky. M. & G.	hrd.	M. & G.	M. & G.	bu. M. & S.	bu. M. & S.	bu. M. & S.	S.	S.	S.	M.	M.
Trawling bottom	Snag	Clear	Snag	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	5	60	2	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	0	80	0	50	50	250	60	55	150	110	40	75	45
Catch in pounds (% marketable):													
Flat fish													
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---
English	---	---	---	---	---	Trace	---	---	---	---	---	---	---
Flathead	---	Trace 3/	---	---	Trace	---	---	---	---	---	---	Trace	---
Halibut	---	(1) 2/	---	---	(2)	(21)	(1)	---	(4)	(7)	(10)	(16)	(9)
Lemon	---	---	---	---	---	Trace	---	---	---	---	---	---	---
Rex	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock	---	---	---	---	---	Trace	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	50(65)	40(50)	30(10)	Trace	Trace	Trace	25(30)	Trace
Arrow-toothed flounder (turbot)	---	Trace	---	Trace	Trace	---	---	---	---	---	---	---	Trace
Round fish													
Pollock	---	---	---	---	Trace	Trace	---	---	---	---	---	---	---
Sablefish	---	---	---	---	---	---	---	---	---	---	---	---	---
True cod	---	Trace	---	---	---	Trace	---	---	Trace	---	---	---	---
Rockfish													
Pacific ocean perch	---	---	---	---	---	---	---	---	---	---	---	---	---
Red	---	---	---	---	---	---	---	---	---	---	---	---	---
King crab 1/													
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	(1)	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---

Note: For explanation of footnotes, see p. 21.

Table 1 - Fishing Log of Otter-Trawl Drags Made During the First Period (February 26 to April 6, 1954) (Continued)

Drag No.	53	54	55	56	57	58	59	60	61	62	63	64	65
Date	3/18/54	3/18/54	3/19/54	3/19/54	3/19/54	3/19/54	3/19/54	3/20/54	3/20/54	3/20/54	3/20/54	3/21/54	3/21/54
Latitude N.	60°13.7'	60°11.5'	60°10.8'	60°09.8'	60°09.5'	60°07.8'	60°03.5'	59°58.5'	59°56.2'	60°01.2'	60°01.7'	60°08.7'	60°01.5'
Longitude W.	115°40.4'	115°46.7'	115°43.7'	115°49.4'	115°59.6'	116°07.7'	116°13.4'	116°17.3'	116°26.6'	116°38.5'	116°35.2'	117°05.3'	117°11.8'
Course, magnetic ^{1/}	261°	257°	272°	269°	277°	240°	241°	275°	275°	302°	331°	207°	115°
Tide	Ebb	Ebb	Flood	Ebb	Flood	Ebb	Ebb	Flood	Flood	High	Ebb	Flood	Flood
Depth range in fathoms	38-40	50-50	62-63	64-66	52-56	44-48	34-36	36-36	36-36	66-66	64-64	120-120	102-108
Type of bottom	bu. M.	bu. M.	bu. M.	bu. M. & hrd.	bu. M.	blk. G. & M.	G. & M.	G.	G. & Sh.	gy. M.	gy. M.	gy. M.	gy. M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	120	30	100	275	225	90	15	50	70	35	120	50	300
Catch in pounds (% marketable):													
Flat fish													
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---
English	---	---	---	---	---	---	---	---	---	---	---	---	---
Flathend	---	Trace ^{2/}	---	Trace	Trace	Trace	Trace	---	---	Trace	---	Trace	---
Halibut	(16) ^{2/}	(12)	(6)	(20)	(6)	(6)	---	(4)	(12)	(5)	(5)	(3)	(5)
Lemon	---	---	---	---	---	---	---	---	---	---	---	---	---
Rex	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock	---	Trace	---	---	---	---	---	---	---	---	---	Trace	---
Sard	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	---	Trace	Trace	Trace	Trace	Trace	---	---	Trace	---	20(40)	Trace	---
Round fish													
Pollock	---	---	---	---	---	---	---	---	---	---	---	---	---
Sablefish	---	---	---	---	---	---	---	---	---	---	---	---	---
True cod	---	---	---	---	Trace	Trace	Trace	---	---	Trace	Trace	Trace	Trace
Rockfish													
Pacific ocean perch	---	---	---	---	---	---	---	---	---	---	---	---	---
Red	---	---	---	---	---	---	---	---	---	Trace	---	---	Trace
King crab ^{4/}	---	---	---	---	---	---	---	---	---	---	---	---	---
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---
Drag No.	66	67	68	69	70	71	72	73	74	75	76	77	78
Date	3/21/54	3/21/54	3/22/54	3/22/54	3/22/54	3/22/54	3/24/54	3/24/54	3/24/54	3/25/54	3/25/54	3/26/54	3/26/54
Latitude N.	59°59.3'	59°56.0'	60°25.3'	60°27.3'	60°29.9'	60°31.2'	60°37.3'	60°45.1'	60°47.2'	60°51.0'	60°51.1'	61°03.3'	61°01.8'
Longitude W.	117°10.2'	116°57.6'	117°02.2'	117°01.4'	117°03.6'	116°56.8'	116°49.6'	116°59.7'	117°10.9'	118°10.2'	118°10.1'	117°57.8'	117°57.2'
Course, magnetic ^{1/}	158°	350°	291°	279°	354°	015°	308°	241°	253°	178°	165°	166°	159°
Tide	High	Ebb	Flood	Flood	Flood	High	Flood	Flood	High	Flood	Flood	Flood	Ebb
Depth range in fathoms	112-114	80-82	90-106	104-106	156-162	232-240	210-214	248-248	200-208	224-228	220-228	122-126	30-46
Type of bottom	gy. M.	gy. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.	bu. M.	M.	Cl.	Cl. & blds.	rky.	rky.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Snag	Snag
Time on bottom in minutes	60	60	28	60	60	60	60	60	60	60	60	10	45
Estimated total catch in pounds	400	65	30	75	0	800	350	375	300	250	200	50	0
Catch in pounds (% marketable):													
Flat fish													
Dover	---	---	---	---	---	---	---	Trace	---	Trace	Trace	---	---
English	---	---	---	---	---	---	---	---	---	---	---	---	---
Flathend	Trace ^{3/}	---	Trace	---	---	---	---	---	---	Trace	---	---	---
Halibut	(3) ^{2/}	(5)	(1)	(2)	---	30(60)	25(70)	Trace	(3)	Trace	(2)	---	---
Lemon	---	---	---	---	---	---	(5)	(11)	---	---	---	---	---
Rex	---	---	---	---	---	---	---	---	---	Trace	Trace	---	---
Rock	---	---	---	---	---	---	---	---	---	---	---	---	---
Sard	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	Trace	Trace	Trace	Trace	---	150(75)	60(80)	20(80)	Trace	Trace	Trace	---	---
Round fish													
Pollock	---	---	---	Trace	---	50(75)	40(60)	30(40)	50(60)	200(95)	100(75)	---	---
Sablefish	---	---	---	Trace	---	---	---	Trace	Trace	Trace	Trace	---	---
True cod	Trace	Trace	Trace	Trace	---	---	---	---	---	---	Trace	---	---
Rockfish													
Pacific ocean perch	---	---	Trace	Trace	---	---	---	---	---	Trace	---	---	---
Red	---	Trace	---	---	---	Trace	Trace	---	---	---	---	---	---
King crab ^{4/}	---	---	---	---	---	---	---	---	---	---	---	(2)	---
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	(1)	---	---	---

Note: For explanation of footnotes, see p. 21.

Table 1 - Fishing Log of Otter-Trawl Drags Made During the First Period (February 26 to April 6, 1954) (Continued)

Drag No.	79	80	81	82	83	84	85	86	87	88	89	90
Date	3/26/54	3/27/54	3/27/54	3/27/54	3/28/54	3/28/54	3/29/54	3/29/54	3/29/54	3/29/54	3/29/54	3/30/54
Latitude N.	60°29.9'	60°18.7'	60°52.2'	60°50.3'	60°29.1'	60°12.0'	60°01.4'	60°06.9'	60°09.5'	60°11.1'	60°08.0'	59°56.4'
Longitude W.	147°28.6'	147°28.8'	147°02.3'	146°58.7'	147°28.4'	147°39.3'	147°37.2'	147°32.8'	147°29.1'	147°25.0'	147°25.4'	147°50.0'
Course, magnetic ^{1/}	326°	226°	007°	342°	161°	352°	015°	011°	012°	356°	185°	023°
Tide	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
Depth range in fathoms	104-112	272-274	206-206	200-202	80-94	142-148	68-74	60-68	48-60	32-44	18-24	90-118
Type of bottom	bu. M. & G.	bu. M. & G.	bu. M.	M.	gy. M.	bu. Cl.	bu. Cl.	bu. M.	gy. M.	gy. M.	bu. M.	bu. Cl.
Trawling bottom	Clear	Clear	Mud	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	5	60	60	60	60	60	47	44	11	60
Estimated total catch in pounds	90	425	0	200	40	200	350	250	200	35	20	150
Catch in pounds (% marketable):												
Flat fish												
Dover	---	Trace	---	---	---	---	---	---	---	---	---	---
English	---	---	---	---	---	---	---	---	---	---	---	Trace
Flathead	---	---	---	---	---	---	---	---	---	---	---	---
Halibut	---	(3) ^{2/}	---	(11)	(1)	(11)	(17)	(46)	(56)	(2)	(1)	(50)
Lemon	---	---	---	---	---	---	---	---	Trace	Trace	---	---
Rex	---	---	---	---	---	---	---	---	---	---	---	---
Rock	---	---	---	---	---	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	Trace	---	---	---
Arrow-toothed flounder (turbot)	Trace ^{3/}	---	---	25(60)	---	---	---	---	---	---	---	Trace
Round fish												
Pollock	50(85)	150(85)	---	60(80)	Trace	150(0)	Trace	Trace	---	---	---	---
Sablefish	---	---	---	Trace	---	---	---	---	---	---	---	---
True cod	---	---	---	---	Trace	---	---	---	---	---	---	Trace
Rockfish												
Pacific ocean perch	Trace	---	---	---	Trace	---	---	---	---	---	---	Trace
Red	Trace	---	---	---	---	---	---	Trace	---	---	---	---
King crab ^{4/}												
Legal-size males	---	---	---	---	---	---	(32)	---	---	(3)	---	---
Small males	---	---	---	---	---	---	(6)	---	---	(1)	---	---
Females	---	---	---	---	---	---	(3)	---	(1)	(2)	---	---
Drag No.	91	92	93	94	95	96	97	98	99	100	101	102
Date	3/30/54	3/30/54	3/30/54	3/31/54	3/31/54	3/31/54	3/31/54	3/31/54	4/1/54	4/1/54	4/1/54	4/1/54
Latitude N.	59°58.2'	60°01.4'	59°56.9'	59°51.6'	59°51.7'	59°52.2'	60°01.1'	60°09.0'	60°03.4'	60°16.6'	60°19.4'	60°23.1'
Longitude W.	147°47.5'	147°46.5'	147°57.2'	148°05.2'	148°03.2'	148°02.3'	147°40.9'	147°42.3'	147°35.5'	147°18.5'	147°18.8'	147°10.1'
Course, magnetic ^{1/}	011°	008°	163°	016°	031°	353°	016°	168°	010°	355°	357°	255°
Tide	High	Ebb	Ebb	Flood	Flood	Flood	Ebb	Ebb	Flood	High	Ebb	Ebb
Depth range in fathoms	120-126	140-150	76-80	62-62	66-66	76-76	64-78	134-150	60-72	62-76	68-70	60-66
Type of bottom	bu. Cl.	bu. Cl.	hrd.	hrd.	G. & Sh.	G. & Sh.	bu. Cl.	bu. Cl.	bu. M. & G.	gy. M.	gy. M. & Co.	gy. M.
Trawling bottom	Clear	Clear	Clear	Snag	Snag	Snag	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	06	07	03	07	60	55	55	57	03	60
Estimated total catch in pounds	25	100	0	0	0	0	45	120	60	150	0	40
Catch in pounds (% marketable):												
Flat fish												
Dover	---	---	---	---	---	---	---	---	---	---	---	---
English	Trace ^{2/}	---	---	---	---	---	---	---	---	Trace	---	---
Flathead	---	Trace	---	---	---	---	Trace	Trace	Trace	Trace	---	Trace
Halibut	(3) ^{2/}	(6)	---	---	---	---	(3)	(7)	(12)	(15)	---	---
Lemon	---	---	---	---	---	---	---	---	---	20(100)	---	---
Rex	---	---	---	---	---	---	---	---	---	---	---	---
Rock	---	---	---	---	---	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	---	Trace	---	---
Arrow-toothed flounder (turbot)	---	---	---	---	---	---	---	Trace	---	---	---	---
Round fish												
Pollock	Trace	Trace	---	---	---	---	---	Trace	---	---	---	---
Sablefish	---	---	---	---	---	---	---	---	---	---	---	---
True cod	Trace	Trace	---	---	---	---	Trace	---	---	---	---	---
Rockfish												
Pacific ocean perch	---	---	---	---	---	---	---	---	---	Trace	---	---
Red	---	---	---	---	---	---	Trace	Trace	Trace	---	---	---
King crab ^{4/}												
Legal-size males	---	---	---	---	---	---	---	---	(4)	(1)	---	---
Small males	---	---	---	---	---	---	---	---	---	(10)	---	---
Females	---	---	---	---	---	---	---	---	(1)	(5)	---	---

1/ Course given is between starting point and end point.

2/ Bracketed figures indicate number of individuals instead of pounds.

3/ "Trace" - less than 20 pounds of fish.

4/ Most king crab taken during the first period were soft-shelled.

Symbols for Types of Bottom

bk. G. = black gravel | gy. M. = gray mud | Cl. = clay | hrd. = hard | S. = sand | Sh. = shell
bu. M. = blue mud | blds. = boulders | Co. = coral | rky. = rocky | aft. = soft

Table 2 - Fishing of Otter-Trawl Drags Made During the Second Period (July 13 to September 8, 1954)

Drag No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Date	7/13/54	7/13/54	7/14/54	7/14/54	7/14/54	7/14/54	7/15/54	7/16/54	7/16/54	7/17/54	7/17/54	7/18/54	7/18/54	7/18/54	7/18/54
Latitude N.	59°56.1'	60°06.8'	60°07.9'	60°16.4'	60°16.9'	60°15.7'	60°13.3'	60°33.3'	60°35.6'	59°21.7'	59°19.3'	59°18.7'	59°18.6'	59°18.7'	59°13.4'
Longitude W.	147°19.8'	147°33.0'	147°28.7'	147°18.7'	147°34.4'	147°36.0'	147°39.2'	146°19.7'	146°22.9'	146°36.3'	146°34.1'	146°37.2'	146°36.7'	146°35.0'	146°40.8'
Course, magnetic ^{1/}	013°	200°	011°	005°	180°	187°	354°	237°	255°	232°	258°	207°	257°	275°	223°
Tide	Ebb	Low	Flood	High	Ebb	Low	Flood	Ebb	Ebb	Ebb	Ebb	Flood	Flood	Flood	Flood
Depth range in fathoms	81-114	60-72	40-50	60-75	148-155	133-155	141-152	89-62	64-67	69-74	81-83	89-94	89-92	99-101	108-112
Type of bottom	bu. M.	bu. M.	bu. M.	gy. M.	bu. M.	bu. M.	bu. M.	gy. M.	bu. M.	bu. M.	bu. M. & hrd.	bu. M. & hrd.	bu. M. & hrd.	bu. M.	bu. M. S. & G.
Trawling bottom	Clear	Clear	Snag	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	15	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	2200	1500	400	500	Gear fouled	I doors	500	600	1100	120	350	1200	2600	300	6600
Catch in pounds (% marketable)															
Flat fish															
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Trace
English	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Flathead	200(95)	300(50)	75(85)	80(50)	---	---	23(100)	20(100)	50(95)	---	---	25(50)	40(75)	20(50)	Trace
Halibut	(2) ^{2/}	(3)	(23)	(3)	---	---	(2)	(4)	(6)	---	---	(2)	(3)	---	(3)
Lemon	---	---	---	---	---	---	---	40(100)	---	---	---	---	---	---	---
Rex	Trace ^{2/}	---	---	---	---	---	---	---	---	Trace	Trace	---	---	---	20(50)
Rock	---	---	---	Trace	---	---	---	Trace	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	Trace	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	1600(90)	450(85)	20(100)	20(100)	---	---	350(65)	100(60)	60(75)	Trace	75(90)	125(80)	100(90)	160(75)	50(50)
Round fish															
Pollock	---	50(100)	Trace	40(90)	---	---	Trace	100(70)	150(70)	---	---	Trace	Trace	---	150(20)
Sablefish	---	---	---	---	---	---	---	---	---	---	25(75)	300(10)	625(15)	Trace	60(65)
True cod	250(90)	300(90)	50(75)	220(100)	---	---	35(100)	150(90)	500(85)	---	Trace	---	---	---	20(100)
Rockfish															
Pacific ocean perch	Trace	180(100)	---	Trace	---	---	---	Trace	25(100)	100(100)	190(100)	600(95)	1500(95)	125(95)	6000(95)
Red	---	Trace	---	Trace	---	---	---	---	---	---	Trace	25(0)	50(10)	Trace	95(65)
King crab															
Legal-size males	(5)	(1)	---	---	---	---	(1)	(1)	(3)	---	---	---	---	---	---
Small males	(1)	---	(6)	---	---	---	---	---	---	---	---	---	---	---	---
Females	(11)	---	(1)	---	---	---	---	---	(14)	---	---	---	---	---	---

Drag No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Date	7/19/54	7/19/54	7/19/54	7/19/54	7/20/54	7/20/54	7/20/54	7/20/54	7/20/54	7/21/54	7/21/54	7/21/54	7/21/54	7/21/54	7/22/54
Latitude N.	59°24.1'	59°29.4'	59°28.0'	59°26.6'	59°23.7'	59°29.9'	59°30.0'	59°34.5'	59°39.2'	59°11.0'	59°39.8'	59°19.8'	59°52.2'	59°55.4'	59°51.4'
Longitude W.	147°10.4'	147°01.6'	146°53.1'	146°04.5'	146°13.5'	146°03.5'	146°04.6'	146°27.8'	146°16.9'	146°09.5'	146°19.4'	146°15.6'	145°14.1'	145°08.1'	145°13.7'
Course, magnetic ^{1/}	321°	251°	328°	308°	295°	238°	356°	035°	019°	074°	334°	333°	346°	167°	359°
Tide	Flood	Flood	High	Ebb	Flood	Flood	Flood	Ebb	Ebb	Ebb	Flood	Flood	Flood	Ebb	Ebb
Depth range in fathoms	110-117	120-122	99-108	79-95	56-61	61-64	61-64	52-55	45-45	44-46	60-64	78-75	82-84	78-80	78-80
Type of bottom	gy. M. & S.	bu.-gy. M.	bu.-gy. M.	gy. M. & S.	gy. M. & S.	gy. M.	gy. M.	gy. M.	gy. M.	bu. M. & G.	bu. M. & S.	gy. M.	bu. M.	gy. M.	gy. M.
Trawling bottom	Clear	Clear	Clear	Snag	Clear	Snag	Clear	Snag	Snag	di.	Snag	Clear	Clear	Snag	Clear
Time on bottom in minutes	60	60	60	60	60	58	60	35	60	60	29	60	60	60	60
Estimated total catch in pounds	1300	1000	2100	1700	250	150	450	20	0	150	100	1900	950	90	700
Catch in pounds (% marketable)															
Flat fish															
Dover	Trace ^{3/}	---	---	---	---	---	---	---	---	---	---	---	---	---	Trace
English	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Flathead	Trace ^{2/}	Trace	300(95)	75(95)	50(50)	Trace	Trace	Trace	---	Trace	Trace	---	---	---	Trace
Halibut	(1)	(1)	(2)	---	(1)	(1)	(2)	---	---	(20)	(4)	(1)	(1)	---	---
Lemon	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rex	Trace	Trace	Trace	---	---	---	---	---	---	---	---	---	---	---	---
Rock	---	---	25(90)	---	---	---	---	---	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	175(85)	40(85)	500(80)	150(80)	25(85)	Trace	200(75)	Trace	---	20(75)	Trace	100(75)	100(85)	20(75)	200(90)
Round fish															
Pollock	---	---	---	---	---	---	---	---	---	---	---	---	200(0)	60(50)	50(25)
Sablefish	150(80)	25(80)	20(50)	Trace	Trace	Trace	Trace	Trace	---	---	Trace	20(100)	35(100)	---	Trace
True cod	75(100)	Trace	Trace	90(100)	Trace	Trace	Trace	Trace	---	---	---	---	---	---	---
Rockfish															
Pacific ocean perch	450(95)	700(95)	800(95)	1100(100)	50(100)	Trace	40(100)	Trace	---	---	Trace	1500(95)	600(95)	---	20(100)
Red	50(95)	40(90)	20(75)	50(85)	---	---	---	---	---	---	---	25(90)	---	Trace	30(95)
King crab															
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Note: For explanation of footnotes, see p. 24.

Table 2 - Fishing of Otter-Trawl Drags Made During the Second Period (July 13 to September 8, 1954) (Continued)

Drag No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Date	7/22/54	7/22/54	7/22/54	7/23/54	7/23/54	7/23/54	7/25/54	7/25/54	7/25/54	7/25/54	7/26/54	7/26/54	7/26/54	7/26/54	7/26/54
Latitude N.	59°49.9'	59°52.2'	60°04.2'	60°08.3'	60°09.6'	60°09.5'	60°11.2'	60°17.1'	60°16.5'	60°19.3'	60°18.3'	60°17.8'	60°16.3'	60°14.3'	60°12.3'
Longitude W.	145°06.1'	145°20.1'	144°57.2'	144°51.9'	145°01.5'	145°07.1'	146°30.5'	146°24.6'	146°19.1'	146°10.0'	145°59.1'	145°49.6'	145°43.1'	145°33.3'	145°28.7'
Course, magnetic ^{1/}	341°	330°	260°	252°	244°	261°	050°	059°	039°	066°	082°	073°	097°	083°	102°
Tide	Low	Flood	High	Ebb	Ebb	Low	Ebb	Low	Flood	Flood	Flood	Flood	Ebb	Ebb	Flood
Depth range in fathoms	93-95	53-55	53-55	20-24	11-12	14-15	26-28	11-14	20-22	11-12	21-21	12-13	25-27	12-14	23-27
Type of bottom	gy. M.	gy. M.	gy. M.	bu. M. & S.	bu. M.	bk. M.	bu. M. & S.	S. & hrd.	bu. M. & S.	S.	gy. M. & S.	gy. M.	gy. M. & S.	gy. M. & S.	gy. M.
Trawling bottom	Clear	Clear	Clear	Clear	Mud	Snag	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	33	11	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	300	300	300	650	650	100	2000	700	2300	1000	2000	1600	1100	1950	1800
Catch in pounds (% marketable):															
Flat fish															
Dover	Trace ^{3/}	---	---	---	---	---	---	---	Trace	---	---	---	---	---	---
English	---	---	---	Trace	---	---	50(90)	40(90)	---	---	Trace	---	Trace	---	---
Flathead	Trace	25(50)	Trace	25(75)	---	---	50(50)	---	Trace	---	25(90)	---	Trace	Trace	25(90)
Halibut	---	4(2)	---	5(3)	(1)	(1)	(56)	(5)	(15)	(1)	(2)	---	(18)	---	(3)
Lemon	---	---	---	Trace	Trace	---	Trace	Trace	---	---	---	---	---	---	---
Rex	---	---	---	---	---	---	Trace	---	---	---	---	---	---	---	---
Rock	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	35(90)	Trace	Trace	30(95)	40(90)	---	20(80)	---	Trace	---	Trace	Trace
Arrow-toothed flounder (turbot)	75(90)	100(90)	50(90)	---	100(95)	50(95)	40(90)	50(90)	1800(90)	400(90)	600(90)	50(95)	100(95)	100(95)	800(95)
Round fish															
Pollock	Trace	---	Trace	---	---	---	25(0)	---	---	---	Trace	---	75(50)	---	Trace
Sablefish	60(65)	Trace	Trace	30(5)	---	---	---	---	---	---	---	---	---	---	---
True ood	50(75)	Trace	Trace	---	---	---	50(50)	---	---	---	Trace	---	50(85)	---	Trace
Rockfish															
Pacific ocean perch	Trace	50(100)	Trace	---	---	---	---	---	---	---	---	---	---	---	---
Red	Trace	---	---	---	---	---	---	---	---	---	---	---	---	---	---
King crab															
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Drag No.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Date	7/26/54	7/27/54	7/27/54	7/27/54	7/27/54	7/27/54	7/27/54	7/28/54	7/28/54	7/28/54	7/28/54	7/29/54	7/29/54	7/29/54	7/29/54
Latitude N.	60°12.1'	60°10.3'	60°08.8'	60°07.6'	60°09.1'	60°07.8'	60°11.8'	60°14.1'	60°11.2'	60°01.9'	59°51.7'	59°46.5'	59°48.0'	59°48.9'	59°58.0'
Longitude W.	145°21.1'	145°17.5'	145°12.3'	145°08.3'	145°12.2'	145°23.3'	145°32.8'	145°42.1'	145°43.5'	145°46.1'	145°45.9'	145°44.4'	146°04.8'	146°04.9'	146°16.9'
Course, magnetic ^{1/}	093°	094°	070°	261°	205°	261°	263°	263°	276°	328°	269°	274°	320°	295°	247°
Tide	Flood	Flood	Flood	Ebb	Ebb	Ebb	Flood	Flood	Flood	Ebb	Ebb	Flood	Flood	Ebb	Ebb
Depth range in fathoms	10-12	24-26	25-25	34-36	41-43	51-54	36-40	40-42	62-65	51-54	52-54	59-59	46-48	49-52	36-38
Type of bottom	gy. M. & S.	gy. M. & S.	gy. M. & S.	gy. M. & S.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	G. & Sh.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	1900	2000	1500	650	450	600	425	325	1000	450	500	2100	75	900	200
Catch in pounds (% marketable):															
Flat fish															
Dover	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
English	---	125(95)	35(95)	Trace	Trace	---	---	---	---	---	---	Trace	---	---	---
Flathead	Trace ^{2/}	Trace	Trace	Trace	Trace	Trace	25(85)	20(90)	Trace	20(75)	Trace	100(75)	Trace	50(75)	---
Halibut	---	25(2)	5(1)	5(2)	(12)	(17)	(7)	(9)	(5)	(4)	(7)	(5)	(2)	(23)	(18)
Lemon	---	---	---	Trace	---	---	---	---	---	---	---	---	---	---	---
Rex	---	---	---	Trace	---	---	---	---	---	---	---	---	---	---	---
Rock	---	---	---	Trace	---	---	---	---	---	---	---	---	Trace	---	25(95)
Sand	Trace	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	50(75)	900(85)	500(80)	Trace	---	---	---	---	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	---	50(95)	25(95)	Trace	35(90)	30(90)	35(95)	40(95)	100(95)	40(95)	100(95)	300(95)	Trace	150(95)	50(95)
Round fish															
Pollock	---	Trace	---	---	---	40(25)	30(75)	30(75)	120(90)	Trace	25(0)	175(100)	---	100(75)	---
Sablefish	---	---	Trace	---	---	---	---	---	---	---	---	25(50)	---	75(0)	---
True ood	---	75(90)	---	20(0)	Trace	150(70)	Trace	75(100)	65(75)	50(90)	Trace	60(90)	---	25(75)	---
Rockfish															
Pacific ocean perch	---	---	---	---	---	Trace	---	---	30(100)	20(100)	200(100)	1100(100)	---	---	---
Red	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
King crab															
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Note: For explanation of footnotes, see p. 24.

Table 2 - Fishing of Otter-Trawl Drags Made During the Second Period (July 13 to September 8, 1954) (Continued)

Drag No.	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date	8/22/54	8/22/54	8/22/54	8/22/54	8/24/54	8/24/54	8/24/54	8/25/54	8/25/54	8/25/54	8/25/54	8/29/54	8/29/54	8/30/54
Latitude N.	60°18.3'	60°07.8'	59°54.9'	59°56.0'	60°25.2'	60°31.4'	60°28.6'	59°44.1'	59°34.4'	59°31.8'	59°37.7'	60°33.7'	60°25.4'	60°29.7'
Longitude W.	146°43.4'	146°39.7'	146°56.7'	146°06.5'	147°29.5'	147°29.5'	147°10.3'	148°17.1'	148°11.2'	148°15.2'	148°26.5'	148°12.1'	146°06.4'	146°20.0'
Course, magnetic ^{1/}	156°	183°	342°	330°	335°	152°	100°	118°	322°	287°	272°	041°	245°	027°
Tide	Ebb	Ebb	Flood	Flood	Ebb	Ebb	Flood	Flood	Ebb	Ebb	Flood	Flood	Flood	Flood
Depth range in fathoms	96-104	62-66	81-84	108-115	82-95	96-106	104-111	90-94	110-122	106-117	113-118	79-80	69-83	66-77
Type of bottom	gy. M. & S.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M. & S.	gy. M. & S.	gy. M. & S.	gy. M. & S.	gy. M.
Trawling bottom	Clear	Clear	Clear	Catchy	Clear	Clear	Clear	Clear	Clear	Snag	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	600	300	1800	1100	450	400	400	4500	5000	5000	6800	1200	750	900
Catch in pounds (% marketable):														
Flat fish														
Dover	---	---	---	Trace	---	---	---	---	---	Trace	Trace	---	---	---
English	Trace ^{3/}	---	---	---	---	---	---	Trace	---	---	---	Trace	---	---
Flathead	40(100)	50(85)	50(60)	150(90)	60(50)	35(50)	20(50)	100(70)	75(50)	50(50)	50(60)	50(80)	75(65)	100(75)
Halibut	(4) ^{2/}	(5)	---	(1)	(3)	(4)	(1)	(4)	(1)	---	---	(2)	(4)	---
Lemon	---	---	---	---	---	---	---	---	---	---	---	Trace	---	---
Rex	---	---	---	---	---	---	---	---	---	---	Trace	---	---	---
Rock	---	---	---	---	---	---	---	---	---	---	---	---	---	Trace
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	60(70)	150(75)	400(80)	500(70)	25(30)	125(65)	100(95)	700(85)	1100(90)	700(85)	1700(90)	300(85)	100(70)	100(70)
Round fish														
Pollock	75(60)	trace	30(25)	50(60)	Trace	25(25)	75(50)	225(25)	100(50)	90(60)	150(65)	450(70)	150(75)	350(75)
Sablefish	---	trace	---	---	---	---	---	---	---	---	---	---	---	---
True cod	65(100)	50(100)	50(85)	75(100)	60(95)	Trace	50(95)	55(100)	100(95)	90(100)	200(100)	100(95)	35(95)	40(90)
Rockfish														
Pacific ocean perch	Trace	70(100)	1000(100)	60(100)	70(100)	Trace	Trace	3100(100)	2300(100)	3800(100)	3200(100)	Trace	Trace	Trace
Red	---	---	Trace	Trace	Trace	Trace	Trace	---	Trace	22(100)	---	---	---	---
King crab														
Legal-size males	---	---	---	---	---	---	---	---	---	---	---	(12)	(4)	(6)
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	(1)	---	---	---	---	(3)	---	---
Drag No.	75	76	77	78	79	80	81	82	83	84	85	86	87	88
Date	8/30/54	8/30/54	8/30/54	8/31/54	8/31/54	8/31/54	8/31/54	9/1/54	9/1/54	9/1/54	9/2/54	9/2/54	9/2/54	9/2/54
Latitude N.	60°36.7'	60°35.5'	60°36.2'	60°10.7'	60°06.2'	60°05.8'	59°55.5'	59°50.1'	59°44.4'	59°36.7'	60°45.7'	60°47.3'	60°32.9'	60°32.6'
Longitude W.	146°25.3'	146°37.9'	146°45.7'	147°01.2'	147°10.0'	147°03.8'	146°45.4'	146°26.8'	146°47.0'	146°58.5'	146°46.3'	146°33.9'	146°38.5'	146°37.4'
Course, magnetic ^{1/}	019°	058°	167°	023°	020°	176°	133°	196°	318°	304°	034°	062°	063°	042°
Tide	Flood	High	Ebb	Flood	Flood	High	Ebb	Ebb	Flood	Flood	Flood	Flood	High	Ebb
Depth range in fathoms	72-73	69-73	219-233	146-150	118-121	137-154	36-37	36-40	50-52	116-118	83-98	101-108	55-62	64-75
Type of bottom	gy. M.	bu. M.	gy. M.	gy. M.	gy. M. & S.	gy. M. & S.	gy. M. & G.	gy. M. & G.	gy. M. & S.	gy. M. & S.	gy. M.	gy. M. & S.	bu. M.	bu. M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Catchy	Snag	Snag	Snag	Clear	Clear	Clear	Snag	Clear
Time on bottom in minutes	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Estimated total catch in pounds	2000	1600	900	1000	1500	1700	225	150	50	1600	2200	400	---	500
Catch in pounds (% marketable):														
Flat fish														
Dover	---	---	Trace	---	---	Trace	---	---	---	---	---	---	---	---
English	Trace ^{2/}	---	---	---	---	---	---	---	---	---	Trace	---	---	---
Flathead	125(80)	250(95)	50(95)	75(90)	50(85)	75(95)	---	---	Trace	Trace	50(85)	Trace	---	50(80)
Halibut	---	(2)	---	---	---	---	(34)	(20)	(1)	(1)	(5)	---	---	(8)
Lemon	---	Trace	---	---	---	---	---	---	---	---	---	---	---	Trace
Rex	---	---	---	---	---	Trace	Trace	Trace	Trace	---	---	---	---	Trace
Rock	---	---	---	---	---	---	Trace	---	---	---	---	---	---	Trace
Sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Starry flounder	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arrow-toothed flounder (turbot)	150(65)	300(75)	250(95)	200(85)	900(90)	1200(90)	---	Trace	Trace	700(85)	75(95)	70(95)	---	50(75)
Round fish														
Pollock	900(60)	600(75)	50(65)	50(85)	75(85)	50(85)	---	---	---	20(80)	1200(90)	140(75)	---	300(50)
Sablefish	---	---	25(25)	60(85)	45(100)	85(100)	---	---	---	80(90)	---	---	---	---
True cod	250(85)	75(95)	---	225(95)	200(75)	85(100)	---	---	Trace	---	225(95)	100(90)	---	35(95)
Rockfish														
Pacific ocean perch	Trace	Trace	Trace	Trace	20(90)	Trace	---	Trace	---	225(95)	50(95)	---	---	---
Red	---	Trace	Trace	Trace	Trace	Trace	---	---	---	175(75)	Trace	---	---	Trace
King crab														
Legal-size males	(10) ^{2/}	(1)	(1)	---	---	---	---	---	---	---	(11)	(3)	---	(3)
Small males	(8)	---	---	---	---	---	---	---	---	---	(5)	(1)	---	(3)
Females	(30)	(2)	---	---	---	---	---	---	---	---	(26)	---	---	---

^{1/} Course given is between starting point and end point.
^{2/} Bracketed figures indicate number of individuals instead of pounds.
^{3/} "Trace" - less than 30 pounds of fish.

Symbols For Types of Bottom
 bk. M. = black mud | gy. M. = gray mud | hrd. = hard | Sh. = shell
 bu. M. = blue mud | G. = gravel | S. = sand

Table 3 - Fishing Log of Beam-Trawl Drags Made During the First Period (February 26 to April 6, 1954)

Drag No.	103	104	105	106	107	108	109	110	111
Date	4/3/54	4/3/54	4/3/54	4/3/54	4/3/54	4/4/54	4/4/54	4/4/54	4/5/54
Latitude N.	60°40.1'	60°41.0'	60°41.8'	60°43.1'	60°45.2'	60°35.3'	60°34.8'	60°35.3'	60°47.1'
Longitude W.	146°17.4'	146°14.7'	146°11.7'	146°08.6'	146°05.2'	146°28.5'	146°22.3'	146°28.5'	146°41.6'
Course, magnetic ^{1/}	022°	032°	021°	018°	021°	075°	069°	205°	068°
Tide	Flood	Flood	High	Ebb	Ebb	Flood	Flood	Ebb	Flood
Depth range in fathoms	74-80	80-88	91-104	88-104	48-66	68-72	68-76	70-74	85-101
Type of bottom	bu. M.	bu. M.	M.	M.	M.	hrd.	stk.	sft.	stk.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	30	30	60	60	30	60	68	60	60
Shrimp catch in pounds:									
Pink	4(102) ^{2/}	18(123)	36(120)	20(123)	8(118)	36(87)	123(94)	42(95)	25(105)
Side-stripe	3(48)	16(41)	28(31)	13(35)	3(39)	Trace	31(41)	13(40)	5(31)
Coon-stripe	---	Trace ^{3/}	Trace	4(44)	1(47)	Trace	---	---	---
Total shrimp catch in pounds	7	34	64	37	12	36	154	55	30
Total shrimp catch hourly basis	14	68	64	37	24	36	136	55	30
King crab ^{4/}									
Legal-size males	---	---	---	(1) ^{5/}	---	---	---	---	---
Small males	---	---	---	---	---	---	(4)	---	---
Females	---	---	---	---	---	---	(1)	---	---
Remarks	---	---	---	---	Curved	---	---	---	---
Drag No.	112	113	114	115	116	117	118	119	120
Date	4/5/54	4/5/54	4/5/54	4/5/54	4/6/54	4/6/54	4/6/54	4/6/54	4/6/54
Latitude N.	60°47.4'	60°47.5'	60°48.3'	60°51.0'	60°37.6'	60°37.4'	60°39.0'	60°35.1'	60°37.7'
Longitude W.	146°37.3'	146°33.0'	146°25.0'	146°14.7'	146°06.5'	146°05.0'	146°02.0'	146°03.5'	145°45.0'
Course, magnetic ^{1/}	066°	072°	068°	048°	216°	221°	Circular	225°	047°
Tide	Flood	Flood	Flood	Ebb	Flood	Flood	Ebb	High	Ebb
Depth range in fathoms	94-106	104-108	112-113	54-88	44-52	42-60	22-48	80-88	30-40
Type of bottom	stk.	stk.	M.	M.	sft. M.	sft.	stk.	sft. M.	M. & G.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	60	60	60	60	60	60	30	60	31
Shrimp catch in pounds:									
Pink	4(85) ^{2/}	7(83)	---	65(74)	76(69)	---	---	18(88)	---
Side-stripe	6(37)	5(36)	---	Trace ^{3/}	---	---	---	7(34)	---
Coon-stripe	---	---	---	---	Trace	---	---	---	---
Total shrimp catch in pounds	10	12	---	65	76	---	---	25	---
Total shrimp catch hourly basis	10	12	---	65	76	---	---	25	---
King crab ^{4/}									
Legal-size males	---	---	---	---	---	---	---	---	---
Small males	---	(2) ^{5/}	---	---	(1)	---	---	---	---
Females	---	(2)	---	---	---	---	---	---	---
Remarks	---	---	Curved	---	Curved	---	---	---	---
^{1/} Course given is between starting point and end point.	^{2/} Figures in parentheses indicate number of whole shrimp per pound.		^{4/} Most king crab taken during the first period were soft-shelled.		^{5/} Bracketed figures indicate number of individuals instead of pounds.				
^{3/} "Trace" - less than one pound of shrimp.					Symbols for Types of Bottom bu. M. = blue mud M. & G. = mud and gravel stk. = sticky M. = mud hrd. = hard sft. = soft				

Table 4 - Fishing Log of Beam-Trawl Drags Made During the Second Period (July 13 to September 8, 1954)

Drag No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Date	8/1/54	8/1/54	8/1/54	8/1/54	8/1/54	8/2/54	8/2/54	8/2/54	8/3/54	8/3/54	8/3/54	8/3/54	8/4/54	8/4/54	8/4/54	
Latitude N. Longitude W.	60°35.2' 115°59.1'	60°38.1' 115°51.0'	60°40.3' 115°52.2'	60°38.7' 115°54.3'	60°38.7' 115°54.3'	60°35.0' 116°03.6'	60°42.3' 116°13.2'	60°41.7' 116°11.9'	60°37.8' 116°25.2'	60°38.2' 116°21.8'	60°39.0' 116°18.7'	60°39.7' 116°17.6'	60°46.2' 116°03.7'	60°44.4' 116°05.4'	60°44.4' 116°06.4'	
Course, magnetic Tide Depth range in fathoms Type of bottom Trawling bottom Time on bottom in minutes	043° Flood 11=121 gy. M. --- 30	216° Flood 37-44 bu. M. Clear 30	198° High 32-45 gy. M. Clear 30	Circular Ebb 22-27 gy. M. Clear 30	Circular Ebb 22-27 gy. M. Clear 30	235° Low 81-85 gy.-bu. M. --- 30	210° Ebb 76-81 gy. M. Clear 30	215° Ebb 78-83 gy. M. Clear 30	037° Low 59-71 gy. M. & S. Clear 30	000° Flood 70-72 gy. M. & S. Clear 60	024° Flood 50-58 gy. M. Clear 30	342° High 69-77 bu. M. Clear 30	179° Flood 54-71 bu. M. Clear 30	184° Flood 90-93 gy.-bu. M. Clear 6	184° Flood 90-101 gy.-bu. M. Clear 30	
Shrimp catch in pounds: Pink Side-stripe Coon-stripe Total shrimp catch in pounds Total shrimp catch hourly basis	--- --- --- --- ---	58(67) 2/ --- 4(31) 98 19	55(91) Trace 1/ 55 110	--- --- --- ---	Trace --- --- ---	--- --- --- ---	63(90) 12(40) Trace 75 150	59(74) 11(35) 21(40) 72 144	72(84) 4(43) Trace 76 152	166(76) 7(35) Trace 173 173	Trace Trace --- 165 ---	155(80) 10(58) Trace 165 330	57(54) 8(44) 8(22) 73 116	16(59) 9(55) --- 25 250	28(88) 7(74) --- 35 70	
King crab Legal-size males Small males Females	--- --- --- ---	(1) 2/ (6) (3)	--- --- (1)	--- --- (7)	--- --- ---	--- --- ---	--- --- ---	(1) (4) ---	(2) (4) (1)	(1) ---	---	(1) ---	(1) ---	---	(1) ---	
Remarks	Net off bottom	---	---	Net off bottom	---	Net off bottom	---	---	---	---	---	---	Curved	Abrupt rise	---	
Drag No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Date	8/1/54	8/1/54	8/5/54	8/5/54	8/5/54	8/5/54	8/5/54	8/5/54	8/6/54	8/6/54	8/6/54	8/6/54	8/6/54	8/6/54	8/8/54	
Latitude N. Longitude W.	60°43.4' 116°27.0'	60°42.8' 116°18.8'	60°41.7' 116°21.8'	60°41.0' 116°21.5'	60°39.3' 116°24.0'	60°37.3' 116°26.7'	60°35.3' 116°13.8'	60°35.5' 116°10.0'	60°32.8' 116°17.2'	60°33.4' 116°16.5'	60°34.9' 116°11.2'	60°34.4' 116°13.5'	60°34.7' 116°20.0'	60°33.8' 116°23.0'	60°35.0' 116°03.8'	
Course, magnetic Tide Depth range in fathoms Type of bottom Trawling bottom Time on bottom in minutes	220° High 99-107 gy.-bu. M. Clear 30	057° Ebb 77-106 gy.-bu. M. Clear 30	185° Ebb 22-25 bu. M. & Sst. Clear 22	207° Ebb 32-38 gy. M. Clear 30	196° Low 41-48 gy.-bu. M. Clear 30	235° Flood 52-56 gy.-bu. M. Clear 30	062° High 78-80 gy. M. Clear 30	081° Ebb 79-81 gy.-gy. M. Clear 30	067° Ebb 4-54 bu. M. Clear 30	242° Ebb 58-60 gy. M. Clear 30	242° Ebb 76-77 gy.-bu. M. Clear 30	241° Low 74-75 gy. M. Clear 30	066° Flood 73-76 gy.-bu. M. Clear 30	062° Flood 59-65 gy.-bu. M. Clear 30	235° Ebb 81-86 gy.-bu. M. Clear 30	
Shrimp catch in pounds: Pink Side-stripe Coon-stripe Total shrimp catch in pounds Total shrimp catch hourly basis	--- --- --- --- ---	18(78) 2/ 18(66) Trace 1/ 66 132	Trace Trace Trace --- ---	--- --- --- ---	Trace --- --- ---	Trace --- --- ---	14(66) Trace 2(104) 14 28	73(89) --- --- 75 150	84(86) 4(91) --- 88 176	9(68) Trace --- 9 18	89(74) Trace --- 89 178	54(90) 4(75) --- 59 116	57(86) 2(72) Trace 58 118	53(84) 5(38) Trace 28 116	28(83) --- Trace 28 56	78(84) 3(44) --- 81 162
King crab Legal-size males Small males Females	--- --- --- ---	---	---	---	---	---	---	(1) (2) 1/	---	(1) ---	---	(1) ---	---	---	(2) ---	
Remarks	Net off bottom	---	Net bogged down	---	---	---	---	---	---	---	---	---	---	Curved	---	
Drag No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Date	8/8/54	8/8/54	8/8/54	8/8/54	8/8/54	8/9/54	8/9/54	8/10/54	8/10/54	8/10/54	8/10/54	8/10/54	8/10/54	8/10/54	8/10/54	
Latitude N. Longitude W.	60°34.1' 116°05.9'	60°33.6' 116°07.9'	60°33.3' 116°10.5'	60°33.2' 116°16.2'	60°32.7' 116°18.2'	60°04.1' 117°38.1'	60°05.5' 117°35.4'	60°03.3' 117°36.0'	60°04.6' 117°33.5'	60°07.7' 117°32.6'	60°09.8' 117°27.8'	60°16.8' 117°19.1'	60°18.6' 117°16.3'	60°20.5' 117°19.0'	60°22.4' 117°16.9'	
Course, magnetic Tide Depth range in fathoms Type of bottom Trawling bottom Time on bottom in minutes	199° Ebb 81-85 gy.-bu. M. Clear 30	228° Low 60-83 bu.-gy. M. Clear 30	079° Flood 78-80 gy. M. Clear 30	079° Flood 60-63 bu.-gy. M. Clear 30	087° Flood 40-44 gy. M. Clear 30	018° Flood 68-71 bu. M. Clear 30	018° Flood 68-71 bu. M. Clear 30	018° Flood 68-71 gy. M. Clear 30	011° Flood 61-63 gy. M. Clear 30	013° Flood 61-63 gy. M. Clear 30	012° High 60-64 gy. M. Clear 30	028° Ebb 67-73 gy. M. Clear 30	028° Ebb 77-85 gy. M. Clear 26	028° Ebb 78-82 gy. M. Clear 30	028° Low 63-67 gy. M. Clear 30	
Shrimp catch in pounds: Pink Side-stripe Coon-stripe Total shrimp catch in pounds Total shrimp catch hourly basis	27(79) 2/ 4(69) --- 31 62	45(86) 8(73) --- 53 106	48(91) 6(48) --- 54 108	19(82) --- Trace 1/ 19 38	Trace --- Trace --- ---	47(82) Trace Trace 47 94	33(84) 2(42) Trace 35 70	18(72) Trace Trace 18 36	11(75) Trace Trace 11 22	9(73) 3(19) Trace 12 24	9(74) --- Trace 9 18	53(62) 9(32) Trace 62 124	75(75) 4(36) 2(44) 81 187	141(76) 14(55) --- 155 310	Trace Trace Trace --- ---	
King crab Legal-size males Small males Females	--- (1) 2/ ---	(2) ---	---	---	---	---	---	(1) ---	---	---	---	---	---	(3) (3)	(3) (3)	
Remarks	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

Note: For explanation of footnotes, see p. 27.

Table 4 - Fishing Log of Beam-Trawl Drags Made During the Second Period (July 13 to September 8, 1954) (Continued)

Drag No.	46	47	48	49	51	52	53	54	56	57	58	59	60
Date	8/10/54	8/11/54	8/11/54	8/12/54	8/12/54	8/12/54	8/12/54	8/12/54	8/12/54	8/13/54	8/13/54	8/13/54	8/14/54
Latitude, N.	60°22.7'	60°35.3'	60°45.8'	60°46.9'	60°48.0'	60°47.4'	60°47.7'	60°48.5'	60°51.5'	61°01.0'	61°05.1'	61°05.8'	61°05.7'
Longitude, W.	117°12.6'	116°00.0'	116°18.6'	116°37.2'	116°35.7'	116°31.2'	116°26.9'	116°20.9'	116°14.4'	116°11.9'	116°04.8'	116°03.7'	116°19.8'
Course, magnetic ^{1/}	016°	052°	170°	026°	094°	056°	051°	049°	058°	211°	191°	055°	065°
Tide	Flood	Ebb	Ebb	Ebb	Ebb	Ebb	Ebb	Low	Flood	Flood	Ebb	Ebb	333°
Depth range in fathoms	60-64	116-122	20-24	96-100	95-108	106-107	111-117	108-112	60-76	54-76	197-209	140-141	138-139
Type of bottom	gy. M.	gy. M.	bu. M.	bu.-gy. M.	gy. M.	bu.-gy. M.	bu.-gy. M.	gy. M.	gy. M.	bu.-gy. M.	gy. M.	bu. M.	gy. M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	30	30	30	30	30	30	30	30	30	30	30	30	30
Shrimp catch in pounds:													
Pink	Trace ^{4/}	60(90) ^{2/}	---	32(58)	33(70)	24(88)	15(55)	13(61)	8(58)	17(61)	4(74)	Trace	3(73)
Side-stripe	Trace	42(57)	---	8(39)	11(40)	17(45)	14(50)	6(35)	Trace	---	4(48)	Trace	1(29)
Coon-stripe	Trace	---	---	Trace	---	---	1(71)	Trace	Trace	Trace	---	---	Trace
Total shrimp catch in pounds	---	102	---	40	44	41	30	19	8	17	8	---	4
Total shrimp catch hourly basis	---	204	---	80	88	82	60	38	16	34	16	---	15
King crab													
Legal-size males	---	(1)	---	(1)	---	---	(1)	---	---	---	---	---	---
Small males	(1) ^{3/}	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	(2)	---	---	---	---	---	---	---	---	---	---	---
Remarks	---	---	Curved	---	---	---	---	---	Curved	Curved	---	---	Curved
Drag No.	61	62	63	64	65	66	67	68	69	70	71	72	73
Date	8/14/54	8/14/54	8/15/54	8/15/54	8/17/54	8/17/54	8/17/54	8/17/54	8/17/54	8/17/54	8/18/54	8/18/54	8/18/54
Latitude, N.	61°07.4'	60°36.0'	60°47.6'	60°46.9'	60°34.1'	60°33.6'	60°36.9'	60°36.7'	60°37.1'	60°36.7'	60°33.7'	60°34.0'	60°34.4'
Longitude, W.	116°29.0'	116°39.5'	116°37.4'	116°41.1'	116°04.5'	116°04.2'	116°08.8'	116°06.9'	116°09.6'	116°10.1'	116°04.0'	116°13.4'	116°11.3'
Course, magnetic ^{1/}	236°	048°	228°	235°	025°	027°	040°	040°	230°	240°	032°	061°	052°
Tide	Flood	Ebb	Ebb	Ebb	Flood	Flood	Flood	Flood	High	Ebb	Flood	Flood	Flood
Depth range in fathoms	138-139	58-64	85-87	85-93	87-105	94-110	50-56	56-66	40-45	50-51	94-110	75-78	77-80
Type of bottom	bu. M.	bu.-gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	gy. M.	bu.-gy. M.	bu.-gy. M.	bu.-gy. M.	gy. M.	gy.-bu. M.	by.-bu. M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	30	30	30	30	30	30	30	30	30	30	30	30	30
Shrimp catch in pounds:													
Pink	6(74) ^{2/}	2(63)	39(83)	---	11(54)	4(67)	33(62)	22(62)	31(64)	44(63)	41(67)	131(96)	103(99)
Side-stripe	5(68)	Trace	1(47)	---	2(50)	1(72)	---	---	---	---	7(52)	Trace	4(84)
Coon-stripe	Trace ^{4/}	---	---	---	Trace	Trace	Trace	Trace	Trace	Trace	---	---	---
Total shrimp catch in pounds	11	2	40	---	13	5	33	22	31	44	48	131	107
Total shrimp catch hourly basis	22	4	80	---	26	10	66	44	62	88	96	262	214
King crab													
Legal-size male	---	(5) ^{3/}	---	---	(5)	(1)	---	---	---	---	(3)	(1)	---
Small males	---	---	---	---	(1)	---	---	---	---	---	---	(1)	---
Females	---	(3)	---	---	(1)	---	---	---	(1)	---	---	(1)	---
Remarks	Curved	---	---	Net off bottom	---	Gear fouled	Curved	Curved	---	---	---	(3)	(1)
Drag No.	76	77	78	79	80	81	82	83	84	85	86	87	88
Date	8/18/54	8/18/54	8/18/54	8/19/54	8/19/54	8/19/54	8/19/54	8/19/54	8/19/54	9/6/54	9/7/54	9/8/54	9/8/54
Latitude, N.	60°36.0'	60°34.7'	60°31.2'	60°30.4'	60°30.2'	60°33.9'	60°35.4'	60°35.5'	60°32.4'	61°02.1'	60°55.7'	60°30.6'	60°28.4'
Longitude, W.	116°23.9'	116°23.4'	116°27.4'	116°31.3'	116°35.1'	116°34.9'	116°35.2'	116°42.1'	116°38.1'	117°59.2'	118°07.9'	117°29.3'	117°29.2'
Course, magnetic ^{1/}	243°	226°	204°	286°	312°	065°	113°	113°	012°	181°	154°	154°	183°
Tide	Ebb	Ebb	Ebb	Ebb	Low	Flood	Flood	Flood	Flood	High	High	High	Ebb
Depth range in fathoms	69-75	72-73	47-52	63-66	73-78	74-76	68-72	109-120	64-70	54-59	209-215	105-108	76-81
Type of bottom	gy. M.	gy. M.	gy. M. & S.	bu.-gy. M.	gy. M.	gy. M.	gy. M.	bu. M.	gy.-bu. M.	bu. M. & blds.	gy. M. & blds.	gy. M. & Sh.	gy. M.
Trawling bottom	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Mud	Clear	Clear	Clear	Clear	Clear
Time on bottom in minutes	30	30	30	30	30	30	30	26	30	30	30	30	30
Shrimp catch in pounds:													
Pink	97(69) ^{2/}	44(77)	Trace ^{4/}	47(80)	32(68)	43(66)	11(56)	5(57)	28(89)	66(83)	8(66)	34(103)	38(105)
Side-stripe	3(39)	2(32)	Trace	Trace	13(31)	4(32)	Trace	Trace	Trace	---	1(22)	12(52)	13(58)
Coon-stripe	---	---	---	---	---	---	---	---	---	---	---	---	---
Total shrimp catch in pounds	100	46	---	47	45	47	11	19	28	38(40)	9	46	51
Total shrimp catch hourly basis	200	92	---	94	90	94	22	44	56	212	18	92	102
King crab													
Legal-size male	(2) ^{3/}	---	---	---	---	---	---	---	---	---	(1)	---	---
Small males	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	---
Remarks	---	---	Curved	---	---	---	---	---	---	Beam broke	Net torn	Curved	---

^{1/} Course given is between starting point and end point. ^{4/} "Trace" - less than one pound of shrimp.
^{2/} Figures in parentheses indicate number of whole shrimp per pound. ^{5/} Includes two pounds of spot shrimp.
^{3/} Bracketed figures indicate number of individuals instead of pounds.

Symbols for Types of Bottom
 bu. M. = blue mud | blds. = boulders | Sh. = shell
 gy. M. = gray mud | S. = sand | St. = stones

Table 5 - King-Crab-Pot Catches--Second Period (July 13 to September 8, 1954)

Vicinity	Set Number	Date Out	Date In	Tide	Depth in Fathoms	Number of Pots	Total Hours Out	Bait	King Crab Catch				Tanner Crab Catch
									Legal Males		Small Males	Females	
									No.	Avg. Wt. Lbs.			
Olsen Bay	1	8/2/54	8/4/54	Ebb	11-38	10	45½	Herring	1	7.00	---	28	23
Port Gravina, east of Red Head	2	8/4/54	8/5/54	Flood	32-45	10	27	Herring	6	9.75	8	8	42
Sheep Bay	3	8/5/54	8/6/54	Flood	22-61	10	26½	Herring	3	8.75	33	46	88
Oroa Bay, off Cance Passage	4	8/8/54	8/11/54	Flood	82-85	9	65	Herring and scrap fish	23	10.47	3	17	30
Port Gravina, near entrance	5	8/11/54	8/14/54	Ebb	68-78	9	75	Herring and scrap fish	23	11.72	2	26	40
Oroa Bay, off Red Head	6	8/14/54	8/15/54	High	54-70	9	24	Herring and scrap fish	13	9.91	2	38	104
Oroa Bay, off entrance of Sheep Bay	7	8/15/54	8/17/54	Flood	56-78	9	46½	Herring and scrap fish	5	11.66	4	10	96
Esther Passage	8	9/4/54	9/5/54	Ebb	52-90	9	20	Herring and scrap fish	30	7.88	8	28	17
College Fiord, near Golden	9	9/5/54	9/6/54	High	43-68	9	23½	Herring and scrap fish	41	8.10	15	34	6
Pigot Bay	10	9/6/54	9/7/54	Flood	16-72	9	20	Herring and scrap fish	22	7.10	16	5	68

Table 6 - Shrimp-Trap Catches--Second Period (July 13 to September 8, 1954)

Vicinity	Set Number	Date Out	Date In	Tide	Depth in Fathoms	Number of Traps	Total Hours Out	Bait	Shrimp Catch				Total Shrimp Catch in Pounds	Remarks
									Spot		Cook-Stripe			
									Pounds	No. of Whole Shrimp Per Pound	Pounds	No. of Whole Shrimp Per Pound		
Olsen Bay	1	8/2/54	8/4/54	Ebb	11-34	17	42	Herring	---	---	---	---	---	Few pink shrimp
Landlocked Bay	2	8/12/54	8/15/54	Flood	9-60	40	77	Herring	---	---	1	49	1	Few pink shrimp
College Fiord, near Golden	3	9/5/54	9/6/54	Ebb	30-56	12	22½	Herring and scrap fish	4½	5½	42½	29	46-3/4	Few pink shrimp