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STATE OF ALASKA
Jay S. Hammond, Governor

BRISTOL BAY SOCKEYE SALMON (*Oncorhynchus nerka*) 1975

A Compilation of Catch and Escapement Data

Compiled and Edited by:
Richard Randall and Henry Yuen

1978

ALASKA DEPARTMENT OF FISH AND GAME
Subport Building, Juneau, Alaska 99801

Ronald O. Skoog
Commissioner

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

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TABLE OF CONTENTS

	Page
LIST OF TABLES	i
LIST OF FIGURES	iv
INTRODUCTION	1
METHODS AND MATERIALS	1
BRISTOL BAY FISHERY - 1975	3
SUMMARY OF BRISTOL BAY CATCH AND ESCAPEMENT	5
BRISTOL BAY EMERGENCY ORDER FISHING PERIODS	9
SUMMARY OF THE 1975 SEASON FOR THE NAKNEK-KVICHAK DISTRICT	10
SUMMARY OF THE 1975 SEASON FOR THE EGEGIK DISTRICT	26
SUMMARY OF THE 1975 SEASON FOR THE UGASHIK DISTRICT	34
SUMMARY OF THE 1975 SEASON FOR THE NUSHAGAK DISTRICT	40
SUMMARY OF THE 1975 SEASON FOR THE TOGIAK DISTRICT	61
LITERATURE CITED	68
APPENDIX	69

LIST OF TABLES

		Page
Table 1.	Bristol Bay sockeye salmon inshore return, by river, 1975	5
Table 2.	Bristol Bay sockeye salmon return, age group by river system, 1975	6
Table 3.	Bristol Bay sockeye salmon return, age group by river system, percent, 1975	7
Table 4.	Bristol Bay sockeye salmon return, ocean age by river, number and percent, 1975	8
Table 5.	Bristol Bay emergency order fishing periods by district, 1975	9
Table 6.	Naknek-Kvichak District inshore run of sockeye salmon, age group by sex, number and total percent, 1975	12
Table 7.	Kvichak River apportioned catch and escapement of sockeye salmon, age group by sex, number and percent, 1975	13
Table 8.	Branch River apportioned catch and escapement of sockeye salmon, age group by sex, number and percent, 1975	14
Table 9.	Naknek River apportioned catch and escapement of sockeye salmon, age group by sex, number and percent, 1975	15
Table 10.	Naknek-Kvichak District commercial catch of sockeye salmon, sex composition by sample period, 1975	16
Table 11.	Naknek-Kvichak District commercial catch of sockeye salmon, age group by sample period and sex, number and percent, 1975	17
Table 12.	Kvichak River daily sockeye salmon escapement counts, 1975	18
Table 13.	Kvichak River escapement of sockeye salmon, sex composition by sample period, 1975	19

LIST OF TABLES (Continued)

Page

Table 14. Kvichak River escapement of sockeye salmon, age group by sample period and sex, number and percent, 1975 20

Table 15. Branch River daily sockeye salmon escapement counts, 1975 21

Table 16. Branch River escapement of sockeye salmon, sex composition by sample period, 1975 22

Table 17. Naknek River daily sockeye salmon escapement counts, 1975 23

Table 18. Naknek River escapement of sockeye salmon, sex composition by sample period, 1975 24

Table 19. Naknek River escapement of sockeye salmon, age group by sample period and sex, number and percent, 1975 25

Table 20. Egegik River catch and escapement of sockeye salmon, age group by sex, number and percent, 1975 28

Table 21. Egegik District commercial catch of sockeye salmon, sex composition by sample period, 1975 29

Table 22. Egegik District commercial catch of sockeye salmon, age group by sample period and sex, number and percent, 1975 30

Table 23. Egegik River daily sockeye salmon escapement counts, 1975 31

Table 24. Egegik River escapement of sockeye salmon, sex composition by sample period, 1975 32

Table 25. Egegik River escapement of sockeye salmon, age group by sample period and sex, number and percent, 1975 33

Table 26. Ugashik River catch and escapement of sockeye salmon, age group by sex, number and percent, 1975 36

LIST OF TABLES (Continued)

Page

Table 27. Ugashik District commercial catch of sockeye salmon, sex composition by sample period, 1975 37

Table 28. Ugashik River daily sockeye salmon escapement counts, 1975 38

Table 29. Ugashik River escapement of sockeye salmon, sex composition by sample period, 1975 39

Table 30. Ugashik River escapement of sockeye salmon, age group by sample period and sex, number and percent, 1975 42

Table 31. Nushagak-Igushik District inshore run of sockeye salmon, age group by sex, number and total percent, 1975 . . 43

Table 32. Igushik River apportioned catch and escapement of sockeye salmon, age group by sex, number and percent, 1975 44

Table 33. Snake River apportioned catch and escapement of sockeye salmon, age group by sex, number and percent, 1975 45

Table 34. Wood River apportioned catch and escapement of sockeye salmon, age group by sex, number and percent, 1975 46

Table 35. Nuyakuk River apportioned catch and escapement of sockeye salmon, age agroup by sex, number and percent, 1975 47

Table 36. Nushagak-Igushik District commercial catch of sockeye salmon, sex composition by sample period, 1975 . . 48

Table 37. Nushagak-Igushik District commercial catch of sockeye salmon, age group by sample period and sex, number and percent, 1975 49

Table 38. Igushik Beach Sub-district commercial catch of sockeye salmon, sex composition by sample period, 1975 . . 50

LIST OF TABLES (Continued)

		Page
Table 39.	Igushik Beach Sub-district commercial catch of sockeye salmon, age group by sample period and sex, number and percent, 1975	51
Table 40.	Igushik River daily sockeye salmon escapement counts, 1975	52
Table 41.	Igushik River escapement of sockeye salmon, sex composition by sample period, 1975	53
Table 42.	Snake River daily sockeye salmon escapement counts, 1975	54
Table 43.	Snake River escapement of sockeye salmon, sex composition by sample period, 1975	55
Table 44.	Wood River daily sockeye salmon escapement counts, 1975	56
Table 45.	Wood River escapement of sockeye salmon, sex composition by sample period, 1975	57
Table 46.	Nuyakuk River daily sockeye salmon, escapement counts, 1975	58
Table 47.	Nuyakuk River escapement of sockeye salmon, sex composition by sample period, 1975	59
Table 48.	Nuyakuk River escapement of sockeye salmon, age group by sample period and sex, number and percent, 1975	60
Table 49.	Togiak River catch and escapement of sockeye salmon, age group by sex, number and percent, 1975	63
Table 50.	Togiak District commercial catch of sockeye salmon, sex composition by sample period, 1975	64
Table 51.	Togiak District commercial catch of sockeye salmon, age group by sample period and sex, number and percent, 1975	65

LIST OF TABLES (Continued)

Page

Table 52. Togiak River daily sockeye salmon escapement counts, 1975 66

Table 53. Togiak River escapement of sockeye salmon, sex composition by sample period, 1975 67

Appendix Table A-1. Nushagak-Mulchatna tower escapement of sockeye salmon, age group by sample period and sex, number and percent, 1975 70

Appendix Table A-2. Nushagak-Mulchatna River system estimated escapement of sockeye salmon, age group by sex, number and percent, 1975 71

LIST OF FIGURES

Page

Figure 1. Bristol Bay area map 4

Figure 2. Naknek-Kvichak District commercial fishing boundaries, 1975 11

Figure 3. Egegik District commercial fishing boundaries, 1975 . . 27

Figure 4. Ugashik District commercial fishing boundaries, 1975 . . 35

Figure 5. Nushagak-Igushik District commercial fishing boundaries, 1975 41

Figure 6. Togiak District commercial fishing boundaries, 1975 . . 62

INTRODUCTION

This publication is the thirteenth in a series of annual catch and escapement statistics for the Bristol Bay sockeye salmon fishery.

Personnel of the Alaska Department of Fish and Game, Division of Commercial Fisheries collected all data and aged all scales for both the catch and escapement. Final harvest data was compiled from fish tickets by the statistics section. Age-weight-length (AWL) data, collected by field crews was keypunched by the Division of Data Processing, Alaska Department of Administration. Final compilation and tabulation of catch, escapement and AWL data was accomplished by Jerry Hautamaki of the University of Washington Computer Center in Seattle under contract to the Alaska Department of Fish and Game.

METHODS AND MATERIALS

Much of the data used in this report were collected by field crews and catch samplers stationed at counting towers and selected canneries throughout Bristol Bay. Figure 1 shows the approximate location of these projects.

Tower crews collected daily samples using beach seines. Cannery samplers obtained their samples as fish were unloaded from scows. Catch sample sizes were based on statistical analysis of past sampling efforts which indicated that a 600-fish sample per fishing period provided data sufficiently precise for estimation of age and sex composition. Cannery catch samplers attempted to spread their samples as much as possible among delivering scows.

Escapement enumeration of sockeye salmon was conducted on eleven river systems in Bristol Bay in 1975. These were: Kvichak, Branch, Naknek, Egegik, Ugashik, Wood, Igushik, Nuyakuk, Nushagak-Mulchatna, Snake and Togiak. Escapement counts are made from towers located on the banks of each of the rivers except at Snake River where a weir has been constructed just below the lake outlet. Tower counts are conducted for ten minutes on each bank, each hour. The counts are expanded to estimate hourly escapements and the expanded counts are summed to determine the daily escapement total.

Extreme turbidity in the Nushagak River hindered the tower crew in their attempts to estimate the escapement. Post-season aerial estimates of

the escapement into the Nushagak and Mulchatna systems were utilized instead of the tower counts. The AWL samples collected by the Nushagak tower crew were utilized to estimate the sex and age composition of the run past this tower.

Age designation in this report follows the Gilbert-Rich notation.

BRISTOL BAY FISHERY - 1975

The inshore return of more than 24.2 million sockeye to the Bristol Bay watershed amounted to almost double the pre-season forecast of 12.4 million. Although the commercial harvest was also twice the pre-season projections it was only two-thirds of the previous 20-year average. Escapement goals were achieved or exceeded in all major river systems.

Because of the low forecasted sockeye harvest (2.4 million), many processors decided against active participation or else operated on a limited basis or consolidated with other companies.

The registered fishing effort approached historic averages despite unfavorable predictions and the likelihood of extended closures in several districts. Effective July 1 the "sliding gear schedule" (which limited fishermen to 25 fathoms of drift gear or 12.5 fathoms of set net gear) was repealed by emergency regulation. Larger limits for each type of gear were established: 75 fathoms per drift gillnet and 25 fathoms per set gillnet with no provision for pooling of gear as was previously allowed. The 48-hour waiting period required of fishermen when transferring from one fishing district to another was also waived by emergency regulation.

Allowable fishing time was lost in the Naknek-Kvichak, Nushagak, and Togiak districts as a result of lengthy and unusually intense fish price negotiations between the industry and fisherman unions. A price settlement eventually came on July 8 and, fortunately for all concerned, an unusual delay in the passage of fish through the district provided several days of excellent fishing.

Total Japanese high seas interception of the 1975 Bristol Bay sockeye run amounted to 573,000 fish taken as immatures in 1974 and 639,000 adult fish harvested in 1975. The combined Japanese catch of 1.2 million sockeye from the return was 5% of the total run and was well below the average interception rate of the previous 20 years.

The South Unimak-Shumagin Island fishery which also intercepts sockeye salmon bound for Bristol Bay was managed under a quota system to minimize catches. Both area quotas were slightly exceeded with 191,000 sockeyes being taken at Unimak and 49,000 in the Shumagin Islands.

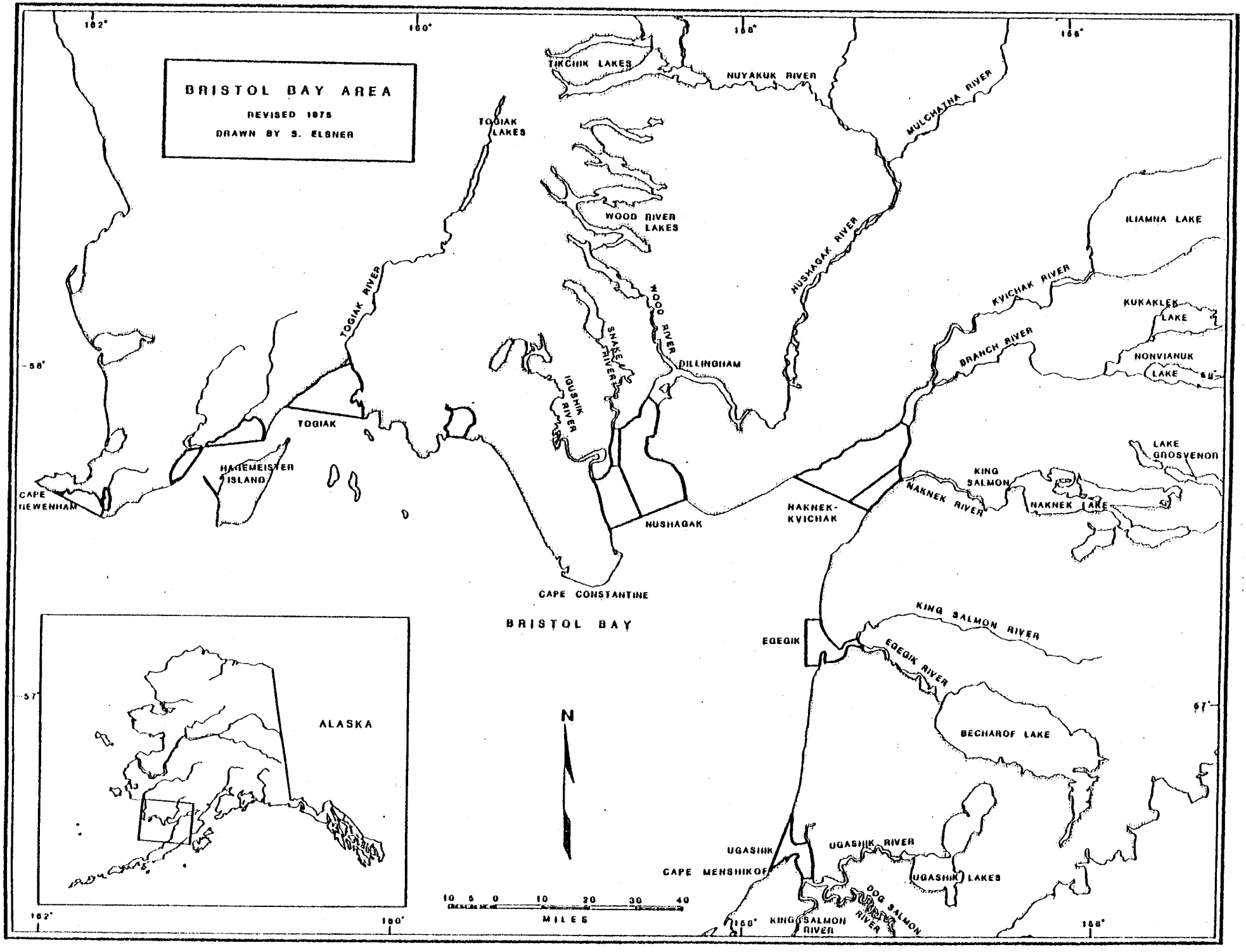
BRISTOL BAY AREA
REVISED 1975
DRAWN BY S. ELSNER
162°
160°
158°
156°
58°
57°
TIKCHIK LAKES
NUYAKUK RIVER
MULCHATNA RIVER
TOGIAK LAKES
WOOD RIVER LAKES
NUSHAGAK RIVER
ILIAMNA LAKE
KVICHAK RIVER
KUKAKLEK LAKE
BRANCH RIVER
NONVIANUK LAKE
TOGIAK RIVER
WOOD RIVER
SNAKE RIVER
IGUSHIK RIVER
DILLINGHAM
TOGIAK
HAGEMEISTER ISLAND
CAPE NEWENHAM
NUSHAGAK
NAKNEK-KVICHAK
KING SALMON
NAKNEK RIVER
NAKNEK LAKE
LAKE GROSVENOR
CAPE CONSTANTINE
BRISTOL BAY
KING SALMON RIVER
EGEGIK
EGEGIK RIVER
BECHAROF LAKE
ALASKA
N
UGASHIK
UGASHIK RIVER
CAPE MENSHIKOF
UGASHIK LAKES
DOG SALMON RIVER
KING SALMON RIVER
10 5 0 10 20 30 40
MILES

TABLE 1 BRISTOL BAY SOCKEYE SALMON INSHORE RETURN, BY RIVER, 1975

SYSTEM	CATCH	ESCAPEMENT	TOTAL RETURN
KVICHAK RIVER	1,605,407	13,140,450	14,745,857
BRANCH RIVER	13,279	100,480	113,759
NAKNEK RIVER	1,466,730	2,026,686	3,493,416
SUB-TOTAL NAKNEK-KVICHAK DISTRICT	3,085,416	15,267,616	18,353,032
EGEGIK RIVER	964,024	1,173,840	2,137,864
UGASHIK RIVER	14,558	429,336	443,894
IGUSHIK RIVER	145,987	241,086	387,073
WOOD RIVER	223,058	1,270,116	1,493,174
NUYAKUK RIVER	219,231	669,918	889,149
NUSHAGAK-MULCHATNA RIVER	50,474	82,400	132,874
SNAKE RIVER	7,153	9,518	16,671
SUB-TOTAL NUSHAGAK-IGUSHIK DISTRICT	645,903	2,273,038	2,918,941
TOGIAK RIVER	188,914	160,962	349,876
TOTAL BAY	4,898,815	19,304,792	24,203,607

TABLE 2 BRISTOL BAY SOCKEYE SALMON RETURN, AGE GROUP BY RIVER SYSTEM, NUMBER, 1975

RIVER	AGE GROUP 31	32	41	42	43	52	53	54	62	63	64	73	74	TOTAL
KVICHAK	--	--	--	235,609	18,010	10,653	13,951,120	5,565	--	505,359	17,955	--	1,586	14,745,857
BRANCH	--	693	--	25,457	--	60,461	5,815	--	--	21,316	5	--	12	113,759
NAKNEK	--	2,530	--	383,380	23,739	269,864	1,779,509	--	--	1,028,406	4,512	--	1,476	3,493,416
SUB-TOTAL NAKNEK-KVICHAK	--	3,223	--	644,446	41,749	340,978	15,736,444	5,565	--	1,555,081	22,472	--	3,074	18,353,032
EGEGIK	--	--	--	43,017	1,774	75,540	767,714	--	--	968,732	269,360	4,428	7,299	2,137,864
UGASHIK	--	--	--	171,442	--	1,908	246,932	--	--	21,887	1,725	--	--	443,894
IGUSHIK	264	--	916	52,619	--	171,057	62,237	--	1,322	98,658	--	--	--	387,073
WOOD	1,640	1,304	13,494	415,899	--	775,995	192,036	--	7,595	85,211	--	--	--	1,493,174
NUYAKUK	402	--	13,697	86,895	--	622,476	158,141	--	3,071	4,467	--	--	--	889,149
NUSHAGAK-MULCHATNA	56	--	7,198	32,406	--	80,524	6,373	--	2,959	3,358	--	--	--	132,874
SNAKE	7	--	--	4,891	--	8,737	1,253	--	141	1,642	--	--	--	16,671
SUB-TOTAL NUSHAGAK-IGUSHIK	2,369	1,304	35,305	592,710	--	1,658,789	420,040	--	15,088	193,336	--	--	--	2,918,941
TOGIAK	392	346	3,463	99,899	--	181,403	51,443	--	2,666	10,264	--	--	--	349,876
TOTAL BAY	2,761	4,873	38,768	1,551,514	43,523	2,258,618	17,222,573	5,565	17,754	2,749,300	293,557	4,428	10,373	24,203,607

TABLE 3 BRISTOL BAY SOCKEYE SALMON RETURN, AGE GROUP BY RIVER SYSTEM, PERCENT, 1975

RIVER	AGE GROUP 31	32	41	42	43	52	53	54	62	63	64	73	74	TOTAL
KVICHAK	.00	.00	.00	1.60	.12	.07	94.61	.04	.00	3.43	.12	.00	.01	60.93
BRANCH	.00	.61	.00	22.38	.00	53.15	5.11	.00	.00	18.74	.00	.00	.01	.47
NAKNEK	.00	.07	.00	10.97	.68	7.73	50.94	.00	.00	29.44	.13	.00	.04	14.43
SUB-TOTAL NAKNEK-KVICHAK	.00	.02	.00	3.51	.23	1.86	85.74	.03	.00	8.47	.12	.00	.02	75.83
EGEGIK	.00	.00	.00	2.01	.08	3.54	35.91	.00	.00	45.31	12.60	.21	.34	8.83
UGASHIK	.00	.00	.00	38.62	.00	.43	55.63	.00	.00	4.93	.39	.00	.00	1.83
IGUSHIK	.07	.00	.24	13.59	.00	44.19	16.08	.00	.34	25.49	.00	.00	.00	1.60
WOOD	.11	.09	.90	27.85	.00	51.97	12.86	.00	.51	5.71	.00	.00	.00	6.17
NUYAKUK	.04	.00	1.54	9.77	.00	70.01	17.79	.00	.35	.50	.00	.00	.00	3.67
NUSHAGAK-MULCHATNA	.04	.00	5.42	24.39	.00	60.60	4.79	.00	2.23	2.53	.00	.00	.00	.55
SNAKE	.04	.00	.00	29.34	.00	52.41	7.52	.00	.84	9.85	.00	.00	.00	.07
SUB-TOTAL NUSHAGAK-IGUSHIK	.08	.04	1.21	20.31	.00	56.83	14.39	.00	.52	6.62	.00	.00	.00	12.06
TOGIAK	.11	.10	.99	28.55	.00	51.85	14.70	.00	.76	2.94	.00	.00	.00	1.45
TOTAL BAY	.01	.02	.16	6.41	.18	9.33	71.16	.02	.08	11.36	1.21	.02	.04	100.00

TABLE 4 BRISTOL BAY SOCKEYE SALMON RETURN, OCEAN AGE GROUP BY RIVER, NUMBER AND PERCENT, 1975

SYSTEM	OCEAN AGE GROUP 1	2	3	4	TOTAL
KVICHAK					
NUMBER	23,575	14,204,684	517,598	--	14,745,857
PERCENT	.16	96.33	3.51	.00	60.93
BRANCH					
NUMBER	693	31,277	81,789	--	113,759
PERCENT	.61	27.49	71.90	.00	.47
NAKNEK					
NUMBER	26,269	2,167,401	1,299,746	--	3,493,416
PERCENT	.75	62.04	37.21	.00	14.43
SUB-TOTAL NAKNEK-KVICHAK					
NUMBER	50,537	16,403,362	1,899,133	--	18,353,032
PERCENT	.27	89.38	10.35	.00	75.83
EGEGIK					
NUMBER	1,774	1,080,091	1,051,571	4,428	2,137,864
PERCENT	.08	50.52	49.19	.21	8.83
UGASHIK					
NUMBER	--	420,099	23,795	--	443,894
PERCENT	.00	94.64	5.36	.00	1.83
IGUSHIK					
NUMBER	--	115,120	270,631	1,322	387,073
PERCENT	.00	29.74	69.92	.34	1.60
WOOD					
NUMBER	1,304	609,575	874,700	7,595	1,493,174
PERCENT	.09	40.82	58.58	.51	6.17
NUYAKUK					
NUMBER	--	245,438	640,640	3,071	889,149
PERCENT	.00	27.60	72.05	.35	3.67
NUSHAGAK-MULCHATNA					
NUMBER	--	38,835	91,080	2,959	132,874
PERCENT	.00	29.23	68.54	2.23	.55
SNAKE					
NUMBER	--	6,151	10,379	141	16,671
PERCENT	.00	36.90	62.26	.84	.07
SUB-TOTAL NUSHAGAK-IGUSHIK					
NUMBER	1,304	1,015,119	1,887,430	15,088	2,918,941
PERCENT	.04	34.78	64.66	.52	12.06
TOGIAK					
NUMBER	346	151,734	195,130	2,666	349,876
PERCENT	.10	43.37	55.77	.76	1.45
TOTAL BAY					
NUMBER	53,961	19,070,405	5,057,059	22,182	24,203,607
PERCENT	.22	78.79	20.90	.09	100.00

TABLE 5. Bristol Bay emergency order fishing periods, emergency regulations, and general announcements by district, 1975.[1]

Emergency Order Number	Date and Time	Hours Open
NAKNEK-KVICHAK DISTRICT		
19A	July 14 9 pm - July 17, MN the 48 -hour waiting period for district re-registration waived for all fishermen wishing to transfer out of the Naknek-Kvichak district.	
Naknek Section only		
6	July 5 9 pm - July 6 9 am	12
8	July 6 9 am - July 6 9 pm	12
9	July 6 9 pm - July 7 9 pm	24
10	July 7 9 pm - Until further notice	228[2]
Kvichak Section only		
13	July 9 10 am - July 9 10 pm	12
15	July 10 11 am - July 10 11 pm	12
17	July 12 2 pm - July 13 2 am	12
18	July 14 2 am - July 14 6 pm	16
20	July 17 9 am - July 21 9 am	96[3]
EGEGIK DISTRICT		
3	June 26 10 am - June 26 10 pm	12
4	July 2 4 am - July 2 4 pm	12
7	July 6 7 am - July 6 7 pm	12
9	July 7 8 am - July 7 8 pm	12
10	July 7 8 pm - Until further notice	229[2]
UGASHIK DISTRICT		
10	July 9 11 am - July 9 11 pm	12
16A	July 11, 9 am until July 12, MN the 48-hour waiting period for district re-registration waived for all fishermen wishing to transfer out of the Ugashik district.	
19	July 18 9 am - July 21 9 am	72[3]
21	July 18 9 am - July 19 9 am	24
NUSHAGAK DISTRICT		
1	June 16 9 am - June 18 9 am	48
2	June 20 9 am - June 21 9 am	24
14	July 9 4 pm - July 10 4 pm	24
16	July 10 4 pm - Until further notice	161[2]
Igushik Section only		
4	July 1 6 pm - July 2 6 pm	24
5	July 4 8 am - July 4 8 pm	12
9	July 7 9 am - July 7 9 pm	12
11	July 8 10 pm - July 9 2 pm	16
Nushagak Section only		
12	July 8 10 pm - July 9 2 pm	16
TOGIAK DISTRICT		
Togiak R. Section only		
21	July 18 9 am - July 19 9 pm	36
22	July 25 9 am - July 26 9 pm	36

1/ Emergency order period: Naknek-Kvichak, Egegik, and Ugashik districts from 9 am, June 23 until 9 am, July 17; Nushagak district from 9 am, June 16 until 9 am, July 17.
2/ Fishing remained open until the end of the emergency order period when regular 5-day per week periods resumed.
3/ Closed to fishing.

NAKNEK-KVICHAK DISTRICT

The pre-season management outlook for this district called for little if any fishing time in view of the forecast. The small anticipated harvest (467,000) was projected to come from the Branch and Naknek Rivers only. District fishing boundaries remained unchanged from the previous year.

Pre-season gear registration amounted to over 1,000 units of gear and was comparable with historic levels. A shift in fishing effort into the Naknek-Kvichak district began in early July as the run developed, and by the end of the season, over 180 boats had transferred in from other districts.

Price disputes between the industry and fishermen disrupted fishing in this district until July 8. Minimal fishing occurred until July 5 when a 12-hour period was allowed in the Naknek section only. On the same day the 800,000 fish escapement goal was exceeded in the Naknek River and eventually led to an extension of fishing time in the Naknek section until further notice. Concern over interception of Kvichak River stocks within the Naknek section delayed an announcement of continuous fishing in the Naknek section. After an analysis of scale samples from the commercial harvest it was determined that interception of Kvichak River fish were minimal.

The Kvichak River run continued a steady buildup through the first week in July and a 12-hour opening was announced for July 9. The sockeye catch during this period quickly exceeded the canneries ability to process these fish. Due to continuing good catches in the Naknek section several major companies either suspended operations or imposed limits on their fleets when a second 12-hour opening was announced for the Kvichak section on July 10. Only half of the drift fleet fished this period. Two additional 12-hour periods were permitted between July 12 and 14 in the Kvichak section before it was closed for the remainder of the emergency order period (July 17). The final escapement into the Kvichak River was 13.1 million, slightly under the 14.0 million goal.

The Naknek River escapement of over 2.0 million exceeded the goal of 800,000. The district catch of 3.1 million accounted for 63% of the total bay sockeye catch of 4.9 million. This is considerably below the long term peak average for this district. Age composition of the sockeye run was 5% 4-year fish, and 7% 6-year fish.

Sockeye salmon harvested in the Naknek-Kvichak district are caught as mixed stocks. The fish in the catch are apportioned to the individual river systems by comparing the age and sex composition of the catch samples with that of the escapement samples in the three contributing river systems. The details of this method are described by McCurdy and Schroeder (1968).

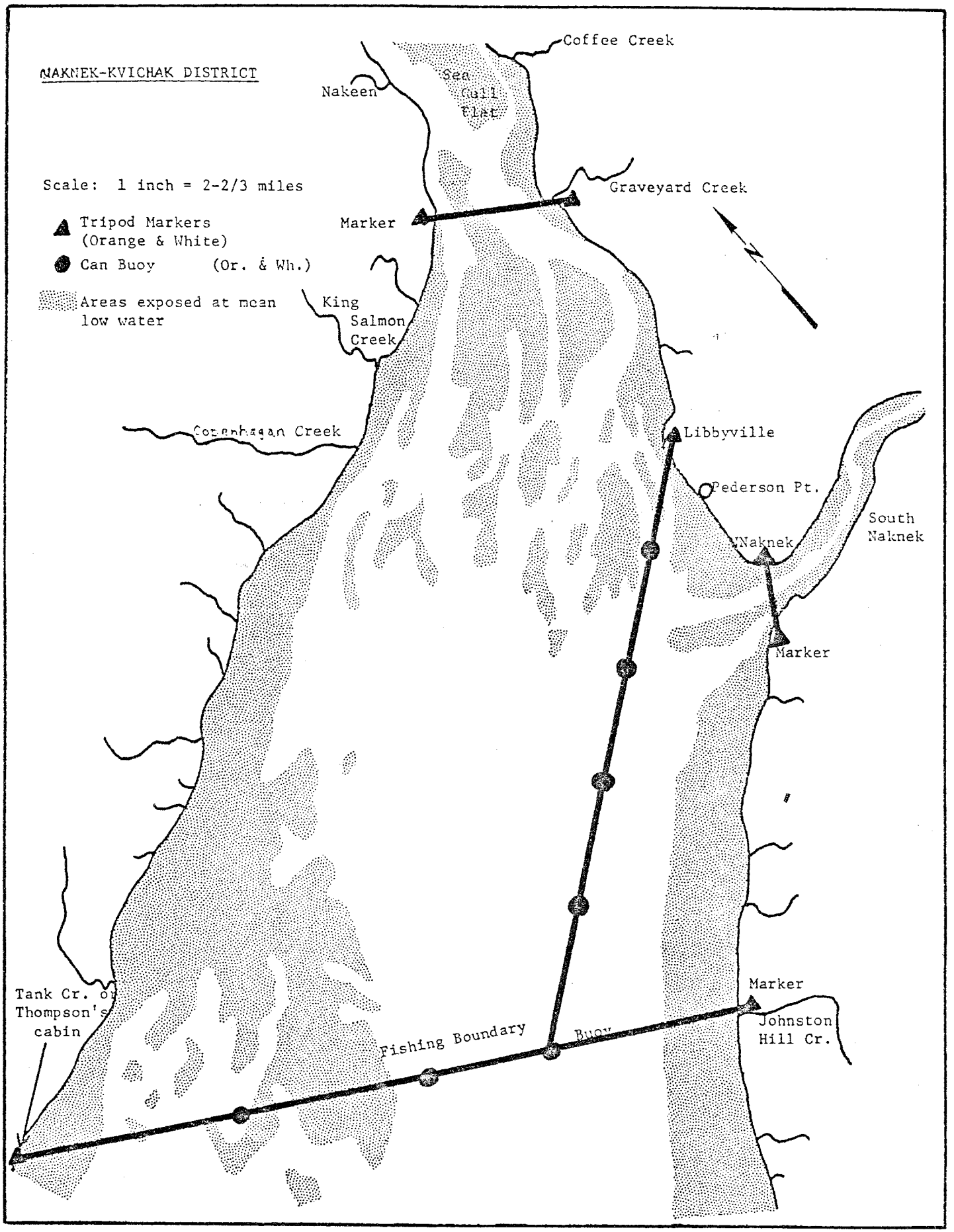

Figure 2. Naknek-Kvichak District commercial fishing boundaries, 1975.

TABLE 6 NAKNEK-KVICHAK DISTRICT INSHORE RUN OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND TOTAL PERCENT, 1975

	AGE GROUP									
	32	42	43	52	53	54	63	64	74	TOTAL
MALES										
ESCAPEMENT	2,066	256,744	23,228	95,413	7,175,215	5,565	474,803	15,167	--	8,048,201
CATCH	1,157	152,606	--	27,303	1,188,850	--	171,845	6,148	3,074	1,551,023
TOTAL	3,223	409,350	23,228	122,716	8,364,105	5,565	646,648	21,315	3,074	9,599,224
PERCENT	.03	4.27	.24	1.28	87.13	.06	6.74	.22	.03	100.00
FEMALES										
ESCAPEMENT	--	193,942	18,521	121,419	6,283,108	--	602,425	--	--	7,219,415
CATCH	--	41,154	--	96,843	1,089,231	--	306,008	1,157	--	1,534,393
TOTAL	--	235,096	18,521	218,262	7,372,339	--	908,433	1,157	--	8,753,808
PERCENT	.00	2.69	.21	2.49	84.22	.00	10.38	.01	.00	100.00
SEXES COMBINED										
ESCAPEMENT	2,066	450,686	41,749	216,832	13,458,323	5,565	1,077,228	15,167	--	15,267,616
CATCH	1,157	193,760	--	124,146	2,278,121	--	477,853	7,305	3,074	3,085,416
TOTAL	3,223	644,446	41,749	340,978	15,736,444	5,565	1,555,081	22,472	3,074	18,353,032
PERCENT	.02	3.51	.23	1.86	85.74	.03	8.47	.12	.02	100.00

TABLE 7 KVICHAK RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP								
	42	43	52	53	54	63	64	74	TOTAL
CATCH									
MALES									
NUMBER	17,243	--	346	754,228	--	24,871	3,632	1,586	801,906
PERCENT	2.15	.00	.04	94.06	.00	3.10	.45	.20	49.95
FEMALES									
NUMBER	6,703	--	477	768,739	--	26,976	606	--	803,501
PERCENT	.83	.00	.06	95.67	.00	3.36	.08	.00	50.05
SEXES COMBINED									
NUMBER	23,946	--	823	1,522,967	--	51,847	4,238	1,586	1,605,407
PERCENT	1.49	.00	.05	94.87	.00	3.23	.26	.10	100.00
ESCAPEMENT									
MALES									
NUMBER	114,703	11,788	5,943	6,603,568	5,565	248,403	13,717	--	7,003,687
PERCENT	1.64	.17	.08	94.29	.08	3.55	.19	.00	53.30
FEMALES									
NUMBER	96,960	6,222	3,887	5,824,585	--	205,109	--	--	6,136,763
PERCENT	1.58	.10	.07	94.91	.00	3.34	.00	.00	46.70
SEXES COMBINED									
NUMBER	211,663	18,010	9,830	12,428,153	5,565	453,512	13,717	--	13,140,450
PERCENT	1.61	.14	.08	94.58	.04	3.45	.10	.00	100.00
CATCH AND ESCAPEMENT									
MALES									
NUMBER	131,946	11,788	6,289	7,357,796	5,565	273,274	17,349	1,586	7,805,593
PERCENT	1.69	.15	.08	94.27	.07	3.50	.22	.02	52.93
FEMALES									
NUMBER	103,663	6,222	4,364	6,593,324	--	232,085	606	--	6,940,264
PERCENT	1.49	.09	.06	95.00	.00	3.35	.01	.00	47.07
SEXES COMBINED									
NUMBER	235,609	18,010	10,653	13,951,120	5,565	505,359	17,955	1,586	14,745,857
PERCENT	1.60	.12	.07	94.61	.04	3.43	.12	.01	100.00

TABLE 8 BRANCH RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP							
	32	42	52	53	63	64	74	TOTAL
CATCH								
MALES								
NUMBER	77	2,271	2,256	173	1,290	--	12	6,079
PERCENT	1.27	37.36	37.11	2.84	21.22	.00	.20	45.78
FEMALES								
NUMBER	--	994	3,958	711	1,532	5	--	7,200
PERCENT	.00	13.81	54.97	9.87	21.28	.07	.00	54.22
SEXES COMBINED								
NUMBER	77	3,265	6,214	884	2,822	5	12	13,279
PERCENT	.58	24.59	46.79	6.66	21.25	.04	.09	100.00
ESCAPEMENT								
MALES								
NUMBER	616	12,329	33,288	1,233	10,480	--	--	57,946
PERCENT	1.06	21.28	57.45	2.13	18.08	.00	.00	57.67
FEMALES								
NUMBER	--	9,863	20,959	3,698	8,014	--	--	42,534
PERCENT	.00	23.19	49.28	8.69	18.84	.00	.00	42.33
SEXES COMBINED								
NUMBER	616	22,192	54,247	4,931	18,494	--	--	100,480
PERCENT	.61	22.09	53.99	4.91	18.40	.00	.00	100.00
CATCH AND ESCAPEMENT								
MALES								
NUMBER	693	14,600	35,544	1,406	11,770	--	12	64,025
PERCENT	1.08	22.80	55.52	2.20	18.38	.00	.02	56.28
FEMALES								
NUMBER	--	10,857	24,917	4,409	9,546	5	--	49,734
PERCENT	.00	21.83	50.10	8.87	19.19	.01	.00	43.72
SEXES COMBINED								
NUMBER	693	25,457	60,461	5,815	21,316	5	12	113,759
PERCENT	.61	22.38	53.15	5.11	18.74	.00	.01	100.00

TABLE 9 NAKNEK RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP								
	32	42	43	52	53	63	64	74	TOTAL
CATCH									
MALES									
NUMBER	1,080	133,092	--	24,701	434,489	145,684	2,516	1,476	743,038
PERCENT	.15	17.91	.00	3.32	58.47	19.61	.34	.20	50.66
FEMALES									
NUMBER	--	33,457	--	92,408	319,781	277,500	546	--	723,692
PERCENT	.00	4.62	.00	12.77	44.19	38.34	.08	.00	49.34
SEXES COMBINED									
NUMBER	1,080	166,549	--	117,109	754,270	423,184	3,062	1,476	1,466,730
PERCENT	.07	11.36	.00	7.98	51.43	28.85	.21	.10	100.00
ESCAPEMENT									
MALES									
NUMBER	1,450	129,712	11,440	56,182	570,414	215,920	1,450	--	986,568
PERCENT	.15	13.15	1.16	5.69	57.82	21.88	.15	.00	48.68
FEMALES									
NUMBER	--	87,119	12,299	96,573	454,825	389,302	--	--	1,040,118
PERCENT	.00	8.38	1.18	9.28	43.73	37.43	.00	.00	51.32
SEXES COMBINED									
NUMBER	1,450	216,831	23,739	152,755	1,025,239	605,222	1,450	--	2,026,686
PERCENT	.07	10.70	1.17	7.54	50.59	29.86	.07	.00	100.00
CATCH AND ESCAPEMENT									
MALES									
NUMBER	2,530	262,804	11,440	80,883	1,004,903	361,604	3,966	1,476	1,729,606
PERCENT	.15	15.19	.66	4.68	58.10	20.91	.23	.08	49.51
FEMALES									
NUMBER	--	120,576	12,299	188,981	774,606	666,802	546	--	1,763,810
PERCENT	.00	6.84	.70	10.71	43.92	37.80	.03	.00	50.49
SEXES COMBINED									
NUMBER	2,530	383,380	23,739	269,864	1,779,509	1,028,406	4,512	1,476	3,493,416
PERCENT	.07	10.97	.68	7.73	50.94	29.44	.13	.04	100.00

TABLE 10 NAKNEK-KVICHAK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	CATCH	NUMBER IN CATCH MALES	NUMBER IN CATCH FEMALES
1	07/07-07/11	808	418	390	51.73	48.27	2,483,627	1,284,847	1,198,780
2	07/12-08/16	520	230	290	44.23	55.77	601,789	266,176	335,613
TOTAL		1,328	648	680	50.27	49.73	3,085,416	1,551,023	1,534,393

TABLE 11 NAKNEK-KVICHAK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 32	42	52	53	63	64	74	TOTAL
MALES										
1	07/07-	COUNT	--	135,247	21,516	971,320	147,542	6,148	3,074	1,284,847
	07/11	PERCENT	.00	10.53	1.67	75.60	11.48	.48	.24	82.84
2	07/12-	COUNT	1,157	17,359	5,787	217,570	24,303	--	--	266,176
	08/16	PERCENT	.43	6.52	2.17	81.74	9.13	.00	.00	17.16
COLUMN TOTALS		COUNT	1,157	152,606	27,303	1,188,890	171,845	6,148	3,074	1,551,023
		PERCENT	.07	9.84	1.76	76.65	11.08	.40	.20	100.00
FEMALES										
1	07/07-	COUNT	--	30,738	92,214	811,482	264,346	--	--	1,198,780
	07/11	PERCENT	.00	2.56	7.69	67.69	22.05	.00	.00	78.13
2	07/12-	COUNT	--	10,416	4,629	277,749	41,662	1,157	--	335,613
	08/16	PERCENT	.00	3.10	1.38	82.76	12.41	.34	.00	21.87
COLUMN TOTALS		COUNT	--	41,154	96,843	1,089,231	306,008	1,157	--	1,534,393
		PERCENT	.00	2.68	6.31	70.99	19.94	.08	.00	100.00
SEXES COMBINED										
1	07/07-	COUNT	--	165,985	113,730	1,782,802	411,888	6,148	3,074	2,483,627
	07/11	PERCENT	.00	6.68	4.58	71.78	16.59	.25	.12	80.50
2	07/12-	COUNT	1,157	27,775	10,416	495,319	65,965	1,157	--	601,789
	08/16	PERCENT	.19	4.62	1.73	82.31	10.96	.19	.00	19.50
COLUMN TOTALS		COUNT	1,157	193,760	124,146	2,278,121	477,853	7,305	3,074	3,085,416
		PERCENT	.04	6.28	4.02	73.83	15.49	.24	.10	100.00

TABLE 12 KVICHAK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE		DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE	21	0	0	.00	.00
	22	96	96	.00	.00
	23	126	222	.00	.00
	24	192	414	.00	.00
	25	1,212	1,626	.01	.01
	26	1,500	3,126	.01	.02
	27	960	4,086	.01	.03
	28	312	4,398	.00	.03
	29	216	4,614	.00	.03
	30	31,362	35,976	.24	.27
JULY	1	438,648	474,624	3.34	3.61
	2	439,140	913,764	3.34	6.95
	3	367,950	1,281,714	2.80	9.75
	4	566,172	1,847,886	4.31	14.06
	5	639,804	2,487,690	4.87	18.93
	6	755,232	3,242,922	5.75	24.68
	7	849,882	4,092,804	6.47	31.15
	8	882,666	4,975,470	6.72	37.87
	9	889,614	5,865,084	6.77	44.64
	10	961,260	6,826,344	7.32	51.96
	11	850,440	7,676,784	6.47	58.43
	12	782,352	8,459,136	5.95	64.38
	13	661,164	9,120,300	5.03	69.41
	14	610,632	9,730,932	4.65	74.06
	15	640,572	10,371,504	4.87	78.93
	16	627,066	10,998,570	4.77	83.70
	17	527,058	11,525,628	4.01	87.71
	18	322,578	11,848,206	2.45	90.16
	19	304,776	12,152,982	2.32	92.48
	20	254,664	12,407,646	1.94	94.42
	21	214,392	12,622,038	1.63	96.05
	22	171,144	12,793,182	1.30	97.35
	23	179,670	12,972,852	1.37	98.72
	24	77,568	13,050,420	.59	99.31
	25	46,788	13,097,208	.36	99.67
	26	23,196	13,120,404	.18	99.85
	27	11,184	13,131,588	.08	99.93
	28	6,450	13,138,038	.05	99.98
	29	2,412	13,140,450	.02	100.00

TABLE 13 KVICHAK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	06/21-07/05	640	361	279	56.41	43.59	2,487,690	1,403,213	1,084,477
2	07/06-07/10	730	413	317	56.58	43.42	4,338,654	2,454,608	1,884,046
3	07/11-07/15	637	345	292	54.16	45.84	3,545,160	1,920,063	1,625,097
4	07/16-07/29	445	197	248	44.27	55.73	2,768,946	1,225,803	1,543,143
TOTAL		2,452	1,316	1,136	53.30	46.70	13,140,450	7,003,687	6,136,763

TABLE 14 KVICHAK RIVER ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 42	43	52	53	54	63	64	TOTAL
MALES										
1	06/21-	COUNT	38,870	--	--	1,294,377	--	62,192	7,774	1,403,213
	07/05	PERCENT	2.77	.00	.00	92.24	.00	4.43	.55	20.04
2	07/06-	COUNT	23,774	--	5,943	2,311,967	--	106,981	5,943	2,454,608
	07/10	PERCENT	.97	.00	.24	94.19	.00	4.36	.24	35.05
3	07/11-	COUNT	33,392	5,566	--	1,808,755	5,565	66,785	--	1,920,063
	07/15	PERCENT	1.74	.29	.00	94.20	.29	3.48	.00	27.41
4	07/16-	COUNT	18,667	6,222	--	1,188,469	--	12,445	--	1,225,803
	07/29	PERCENT	1.52	.51	.00	96.95	.00	1.02	.00	17.50
COLUMN TOTALS		COUNT	114,703	11,788	5,943	6,603,568	5,565	248,403	13,717	7,003,687
		PERCENT	1.64	.17	.08	94.29	.08	3.55	.19	100.00
FEMALES										
1	06/21-	COUNT	19,435	--	3,887	1,014,511	--	46,644	--	1,084,477
	07/05	PERCENT	1.79	.00	.36	93.55	.00	4.30	.00	17.67
2	07/06-	COUNT	29,717	--	--	1,777,065	--	77,264	--	1,884,046
	07/10	PERCENT	1.58	.00	.00	94.32	.00	4.10	.00	30.70
3	07/11-	COUNT	16,696	--	--	1,558,312	--	50,089	--	1,625,097
	07/15	PERCENT	1.03	.00	.00	95.89	.00	3.08	.00	26.48
4	07/16-	COUNT	31,112	6,222	--	1,474,697	--	31,112	--	1,543,143
	07/29	PERCENT	2.02	.40	.00	95.56	.00	2.02	.00	25.15
COLUMN TOTALS		COUNT	96,960	6,222	3,887	5,824,585	--	205,109	--	6,136,763
		PERCENT	1.58	.10	.07	94.91	.00	3.34	.00	100.00
SEXES COMBINED										
1	06/21-	COUNT	58,305	--	3,887	2,308,888	--	108,836	7,774	2,487,690
	07/05	PERCENT	2.34	.00	.16	92.81	.00	4.38	.31	18.93
2	07/06-	COUNT	53,491	--	5,943	4,089,032	--	184,245	5,943	4,338,654
	07/10	PERCENT	1.23	.00	.14	94.24	.00	4.25	.14	33.02
3	07/11-	COUNT	50,088	5,566	--	3,367,067	5,565	116,874	--	3,545,160
	07/15	PERCENT	1.41	.16	.00	94.97	.16	3.30	.00	26.98
4	07/16-	COUNT	49,779	12,444	--	2,663,166	--	43,557	--	2,768,946
	07/29	PERCENT	1.80	.45	.00	96.18	.00	1.57	.00	21.07
COLUMN TOTALS		COUNT	211,663	18,010	9,830	12,428,153	5,565	453,512	13,717	13,140,450
		PERCENT	1.61	.14	.08	94.58	.04	3.45	.10	100.00

TABLE 15 BRANCH RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE 24	0	0	.00	.00
25	0	0	.00	.00
26	6	6	.01	.01
27	12	18	.01	.02
28	12	30	.01	.03
29	12	42	.01	.04
30	0	42	.00	.04
JULY 1	0	42	.00	.04
2	18	60	.02	.06
3	540	600	.54	.60
4	1,912	2,512	1.90	2.50
5	3,282	5,794	3.27	5.77
6	11,904	17,698	11.85	17.62
7	15,042	32,740	14.97	32.59
8	17,016	49,756	16.93	49.52
9	22,980	72,736	22.87	72.39
10	12,882	85,618	12.82	85.21
11	4,902	90,520	4.88	90.09
12	5,352	95,872	5.33	95.42
13	2,202	98,074	2.19	97.61
14	1,476	99,550	1.47	99.08
15	684	100,234	.68	99.76
16	156	100,390	.15	99.91
17	90	100,480	.09	100.00

TABLE 16 BRANCH RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	06/24-07/17	163	94	69	57.67	42.33	100,480	57,946	42,534

TABLE 17 NAKNEK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE 22	0	0	.00	.00
23	36	36	.00	.00
24	48	84	.00	.00
25	12	96	.00	.00
26	78	174	.00	.00
27	36	210	.00	.00
28	6	216	.00	.00
29	3,132	3,348	.15	.15
30	150,402	153,750	7.42	7.57
JULY 1	133,494	287,244	6.59	14.16
2	48,462	335,706	2.39	16.55
3	41,268	376,974	2.04	18.59
4	119,634	496,608	5.90	24.49
5	473,598	970,206	23.37	47.86
6	471,306	1,441,512	23.26	71.12
7	168,624	1,610,136	8.32	79.44
8	127,542	1,737,678	6.29	85.73
9	28,386	1,766,064	1.40	87.13
10	15,060	1,781,124	.74	87.87
11	98,124	1,879,248	4.84	92.71
12	76,026	1,955,274	3.75	96.46
13	18,870	1,974,144	.93	97.39
14	11,244	1,985,388	.56	97.95
15	5,496	1,990,884	.27	98.22
16	12,936	2,003,820	.64	98.86
17	7,080	2,010,900	.35	99.21
18	6,366	2,017,266	.31	99.52
19	1,740	2,019,006	.09	99.61
20	2,736	2,021,742	.14	99.75
21	2,730	2,024,472	.14	99.89
22	1,452	2,025,924	.07	99.96
23	624	2,026,548	.03	99.99
24	138	2,026,686	.01	100.00

TABLE 18 NAKNEK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	06/22-07/05	669	329	340	49.18	50.82	970,206	477,127	493,079
2	07/06-07/24	562	271	291	48.22	51.78	1,056,480	509,441	547,039
TOTAL		1,231	600	631	48.68	51.32	2,026,686	986,568	1,040,118

TABLE 19 NAKNEK RIVER ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 32	42	43	52	53	63	64	TOTAL
MALES										
1	06/22-	COUNT	1,450	50,758	5,801	26,104	282,796	108,768	1,450	477,127
	07/05	PERCENT	.30	10.64	1.22	5.47	59.27	22.80	.30	48.36
2	07/06-	COUNT	--	78,954	5,639	30,078	287,618	107,152	--	509,441
	07/24	PERCENT	.00	15.50	1.11	5.90	56.46	21.03	.00	51.64
COLUMN TOTALS		COUNT	1,450	129,712	11,440	56,182	570,414	215,920	1,450	986,568
		PERCENT	.15	13.15	1.16	5.69	57.82	21.88	.15	100.00
FEMALES										
1	06/22-	COUNT	--	23,204	2,900	42,057	165,326	259,592	--	493,079
	07/05	PERCENT	.00	4.71	.59	8.53	33.53	52.65	.00	47.41
2	07/06-	COUNT	--	63,915	9,399	54,516	289,499	129,710	--	547,039
	07/24	PERCENT	.00	11.68	1.72	9.97	52.92	23.71	.00	52.59
COLUMN TOTALS		COUNT	--	87,119	12,299	96,573	454,825	389,302	--	1,040,118
		PERCENT	.00	8.38	1.18	9.28	43.73	37.43	.00	100.00
SEXES COMBINED										
1	06/22-	COUNT	1,450	73,962	8,701	68,161	448,122	368,360	1,450	970,206
	07/05	PERCENT	.15	7.62	.90	7.02	46.19	37.97	.15	47.87
2	07/06-	COUNT	--	142,869	15,038	84,594	577,117	236,862	--	1,056,480
	07/24	PERCENT	.00	13.52	1.42	8.01	54.63	22.42	.00	52.13
COLUMN TOTALS		COUNT	1,450	216,831	23,739	152,755	1,025,239	605,222	1,450	2,026,686
		PERCENT	.07	10.70	1.17	7.54	50.59	29.86	.07	100.00

EGEGIK DISTRICT

An inshore return of 1.4 million sockeye salmon was expected to produce a harvestable surplus of 800,000 fish after attainment of the escapement goal of 600,000. This compares to a long term average commercial harvest of 1.1 million sockeye for this district.

Gear registration for the district was double that of the previous year with a total of 241 units of drift gear and 108 units of set gear. Due to the low forecasted return to adjacent districts, between 30 and 40 units of gear transferred to Egegik in anticipation of early fishing time. Actual peak effort was 276 units during a 12-hour period on July 2.

The price dispute between the industry and the fishermen that disrupted early fishing in other districts had only a minor impact in Egegik.

Because of limited processing capacity in the district this season a majority of the catch was transported out and canned at plants in Naknek and in the Nushagak district or hauled aboard briners to canneries outside of Bristol Bay.

Less than 3,000 sockeye were harvested by the beginning of the emergency order period on June 23. Late run timing and a gradual buildup of the run was evident after a 12-hour fishing period on June 26. This opening produced only 12,000 additional sockeye. Almost six days elapsed before a second 12-hour period was allowed on July 2. A rapid buildup of the run had begun within the fishing district by this date. Peak catches occurred during a third opening on July 6 with a harvest of 175,000 sockeye. By July 7 the escapement goal was assured and fishing was opened on that date and subsequently extended until further notice. The 12 days of continuous fishing that ensued produced an additional 615,000 fish. The districts' cumulative sockeye catch of 964,000 was 20% of the total bay catch for this season.

The first sockeye escapement past the counting tower came on July 1. By July 5 cumulative tower counts along with an aerial assessment of the river below the tower indicated 50% (300,000) of the escapement goal was assured. The final sockeye escapement to the watershed amounted to 1.2 million fish which surpassed the goal of 574,000. This compares with a 20-year average escapement of 865,000.

Age composition of the sockeye run was 2% 4-year fish, 39% 5-year fish, 58% 6-year fish and a minor percentage of 7-year fish.

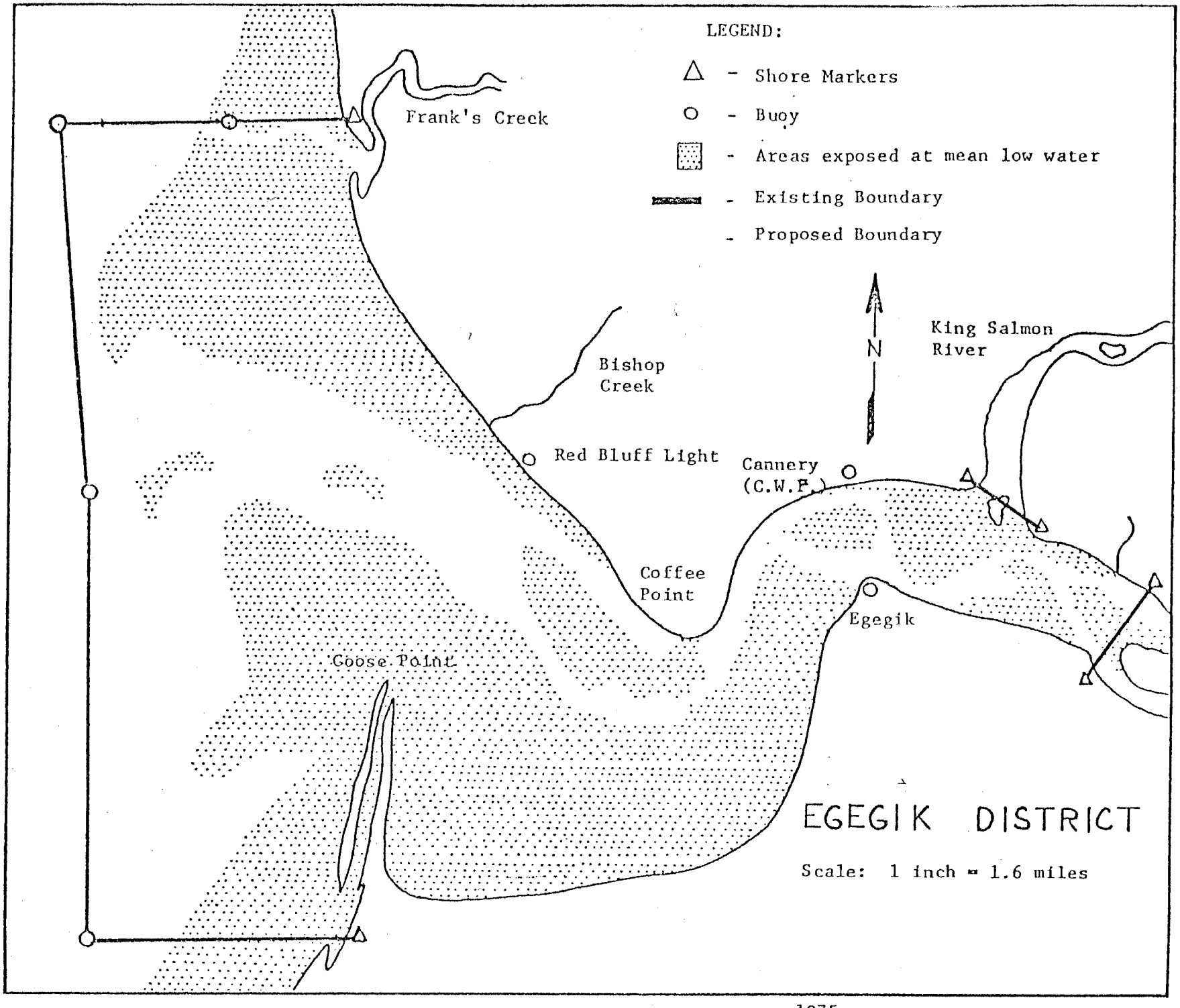

Figure 3. Egegik District commercial fishing boundaries, 1975.

TABLE 20 EGEGIK RIVER CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP								
	42	43	52	53	63	64	73	74	TOTAL
CATCH									
MALES									
NUMBER	16,781	--	11,393	252,653	133,950	82,086	--	1,437	498,300
PERCENT	3.37	.00	2.29	50.70	26.88	16.47	.00	.29	51.69
FEMALES									
NUMBER	10,382	--	29,087	145,381	244,012	33,761	882	2,219	465,724
PERCENT	2.23	.00	6.24	31.22	52.39	7.25	.19	.48	48.31
SEXES COMBINED									
NUMBER	27,163	--	40,480	398,034	377,962	115,847	882	3,656	964,024
PERCENT	2.82	.00	4.20	41.29	39.20	12.02	.09	.38	100.00
ESCAPEMENT									
MALES									
NUMBER	9,454	887	15,757	176,564	260,267	64,005	--	1,378	528,312
PERCENT	1.79	.17	2.98	33.42	49.26	12.12	.00	.26	45.01
FEMALES									
NUMBER	6,400	887	19,303	193,116	330,503	89,508	3,546	2,265	645,528
PERCENT	.99	.14	2.99	29.92	51.20	13.86	.55	.35	54.99
SEXES COMBINED									
NUMBER	15,854	1,774	35,060	369,680	590,770	153,513	3,546	3,643	1,173,840
PERCENT	1.35	.15	2.99	31.49	50.33	13.08	.30	.31	100.00
CATCH AND ESCAPEMENT									
MALES									
NUMBER	26,235	887	27,150	429,217	394,217	146,091	--	2,815	1,026,612
PERCENT	2.56	.09	2.64	41.81	38.40	14.23	.00	.27	48.02
FEMALES									
NUMBER	16,782	887	48,390	338,497	574,515	123,269	4,428	4,484	1,111,252
PERCENT	1.51	.08	4.36	30.46	51.70	11.09	.40	.40	51.98
SEXES COMBINED									
NUMBER	43,017	1,774	75,540	767,714	968,732	269,360	4,428	7,299	2,137,864
PERCENT	2.01	.08	3.54	35.91	45.31	12.60	.21	.34	100.00

TABLE 21 EGEGIK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	CATCH	NUMBER IN CATCH MALES	NUMBER IN CATCH FEMALES
1	06/28-07/06	622	334	288	53.70	46.30	345,096	185,309	159,787
2	07/07-08/16	702	355	347	50.57	49.43	618,928	312,991	305,937
TOTAL		1,324	689	635	51.69	48.31	964,024	498,300	465,724

TABLE 22 EGEGIK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 42	52	53	63	64	73	74	TOTAL
MALES										
1	06/28-	COUNT	4,438	6,103	105,415	55,482	13,316	--	555	185,309
	07/06	PERCENT	2.40	3.29	56.89	29.94	7.19	.00	.30	37.19
2	07/07-	COUNT	12,343	5,290	147,238	78,468	68,770	--	882	312,991
	08/16	PERCENT	3.94	1.69	47.04	25.07	21.97	.00	.28	62.81
COLUMN TOTALS		COUNT	16,781	11,393	252,653	133,950	82,086	--	1,437	498,300
		PERCENT	3.37	2.29	50.70	26.88	16.47	.00	.29	100.00
FEMALES										
1	06/28-	COUNT	3,329	14,980	51,043	82,668	5,548	--	2,219	159,787
	07/06	PERCENT	2.08	9.37	31.94	51.74	3.47	.00	1.39	34.31
2	07/07-	COUNT	7,053	14,107	94,338	161,344	28,213	882	--	305,937
	08/16	PERCENT	2.31	4.61	30.84	52.74	9.22	.29	.00	65.69
COLUMN TOTALS		COUNT	10,382	29,087	145,381	244,012	33,761	882	2,219	465,724
		PERCENT	2.23	6.24	31.22	52.39	7.25	.19	.48	100.00
SEXES COMBINED										
1	06/28-	COUNT	7,767	21,083	156,458	138,150	18,864	--	2,774	345,096
	07/06	PERCENT	2.25	6.11	45.34	40.03	5.47	.00	.80	35.80
2	07/07-	COUNT	19,396	19,397	241,576	239,812	96,983	882	882	618,928
	08/16	PERCENT	3.13	3.14	39.03	38.75	15.67	.14	.14	64.20
COLUMN TOTALS		COUNT	27,163	40,480	398,034	377,962	115,847	882	3,656	964,024
		PERCENT	2.82	4.20	41.29	39.20	12.02	.09	.38	100.00

TABLE 23 EGEGIK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE 24	0	0	.00	.00
25	0	0	.00	.00
26	0	0	.00	.00
27	0	0	.00	.00
28	0	0	.00	.00
29	0	0	.00	.00
30	0	0	.00	.00
JULY 1	876	876	.07	.07
2	3,750	4,626	.32	.39
3	7,482	12,108	.64	1.03
4	44,154	56,262	3.76	4.79
5	78,834	135,096	6.72	11.51
6	115,596	250,692	9.85	21.36
7	21,954	272,646	1.87	23.23
8	90,678	363,324	7.72	30.95
9	179,226	542,550	15.27	46.22
10	225,348	767,898	19.20	65.42
11	47,472	815,370	4.04	69.46
12	59,028	874,398	5.03	74.49
13	119,244	993,642	10.16	84.65
14	72,126	1,065,768	6.14	90.79
15	27,300	1,093,068	2.33	93.12
16	34,026	1,127,094	2.90	96.02
17	5,004	1,132,098	.43	96.45
18	3,450	1,135,548	.29	96.74
19	10,092	1,145,640	.86	97.60
20	15,900	1,161,540	1.35	98.95
21	6,036	1,167,576	.51	99.46
22	4,656	1,172,232	.40	99.86
23	1,512	1,173,744	.13	99.99
24	96	1,173,840	.01	100.00

TABLE 24 EGEGIK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	06/24-07/09	612	243	369	39.71	60.29	542,550	215,424	327,126
2	07/10-07/24	458	227	231	49.56	50.44	631,290	312,888	318,402
TOTAL		1,070	470	600	45.01	54.99	1,173,840	528,312	645,528

TABLE 25 EGEGIK RIVER ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 42	43	52	53	63	64	73	74	TOTAL
MALES											
1	06/24-	COUNT	5,319	887	8,865	71,808	107,269	21,276	--	--	215,424
	07/09	PERCENT	2.47	.41	4.12	33.33	49.79	9.88	.00	.00	40.78
2	07/10-	COUNT	4,135	--	6,892	104,756	152,998	42,729	--	1,378	312,888
	07/24	PERCENT	1.32	.00	2.20	33.48	48.90	13.66	.00	.44	59.22
COLUMN TOTALS		COUNT	9,454	887	15,757	176,564	260,267	64,005	--	1,378	528,312
		PERCENT	1.79	.17	2.98	33.42	49.26	12.12	.00	.26	100.00
FEMALES											
1	06/24-	COUNT	886	887	12,411	96,631	184,396	27,482	3,546	887	327,126
	07/09	PERCENT	.27	.27	3.79	29.54	56.37	8.40	1.08	.27	50.68
2	07/10-	COUNT	5,514	--	6,892	96,485	146,107	62,026	--	1,378	318,402
	07/24	PERCENT	1.73	.00	2.16	30.30	45.89	19.48	.00	.43	49.32
COLUMN TOTALS		COUNT	6,400	887	19,303	193,116	330,503	89,508	3,546	2,265	645,528
		PERCENT	.99	.14	2.99	29.92	51.20	13.86	.55	.35	100.00
SEXES COMBINED											
1	06/24-	COUNT	6,205	1,774	21,276	168,439	291,665	48,758	3,546	887	542,550
	07/09	PERCENT	1.14	.33	3.92	31.05	53.76	8.99	.65	.16	46.22
2	07/10-	COUNT	9,649	--	13,784	201,241	299,105	104,755	--	2,756	631,290
	07/24	PERCENT	1.53	.00	2.18	31.88	47.38	16.59	.00	.44	53.78
COLUMN TOTALS		COUNT	15,854	1,774	35,060	369,680	590,770	153,513	3,546	3,643	1,173,840
		PERCENT	1.35	.15	2.99	31.49	50.33	13.08	.30	.31	100.00

UGASHIK DISTRICT

The pre-season fishery outlook indicated an inshore return of 259,000 sockeye salmon to this district. The return was expected to fall far short of the escapment goal of 500,000 and no harvestable surplus would be available to fishermen except for incidental catches early and late in the season. A total of 26 units of drift gear and 24 units of set gear were registered to fish in Ugashik this season.

As runs began to materialize considerably above forecasted levels in adjacent districts, concern developed over the developing strength in the Ugashik River. In order to assess the run strength a 12-hour test opening was permitted on July 9. The resulting catches were minimal and the district was subsequently closed for the duration of the emergency order period on July 17. Catches were less than 8,000 for the July 17-19 period with about 50 units of gear participating.

The total sockeye run to the Ugashik River this season amounted to 444,000 and was considerably over the pre-season forecast of 259,000, although well under the long terms average of 784,000.

Although the final escapement of 429,000 sockeye was less than the optimum goal of 500,000, it was the largest escapement into the system since 1971.

Age composition of the sockeye run to Ugashik this year was composed primarily of 5-year fish (56%) from the 1970 brood year and 4-year fish (39%) from the 1971 escapement. Only a small segment of the run were 6-year fish (5%) from 1969.

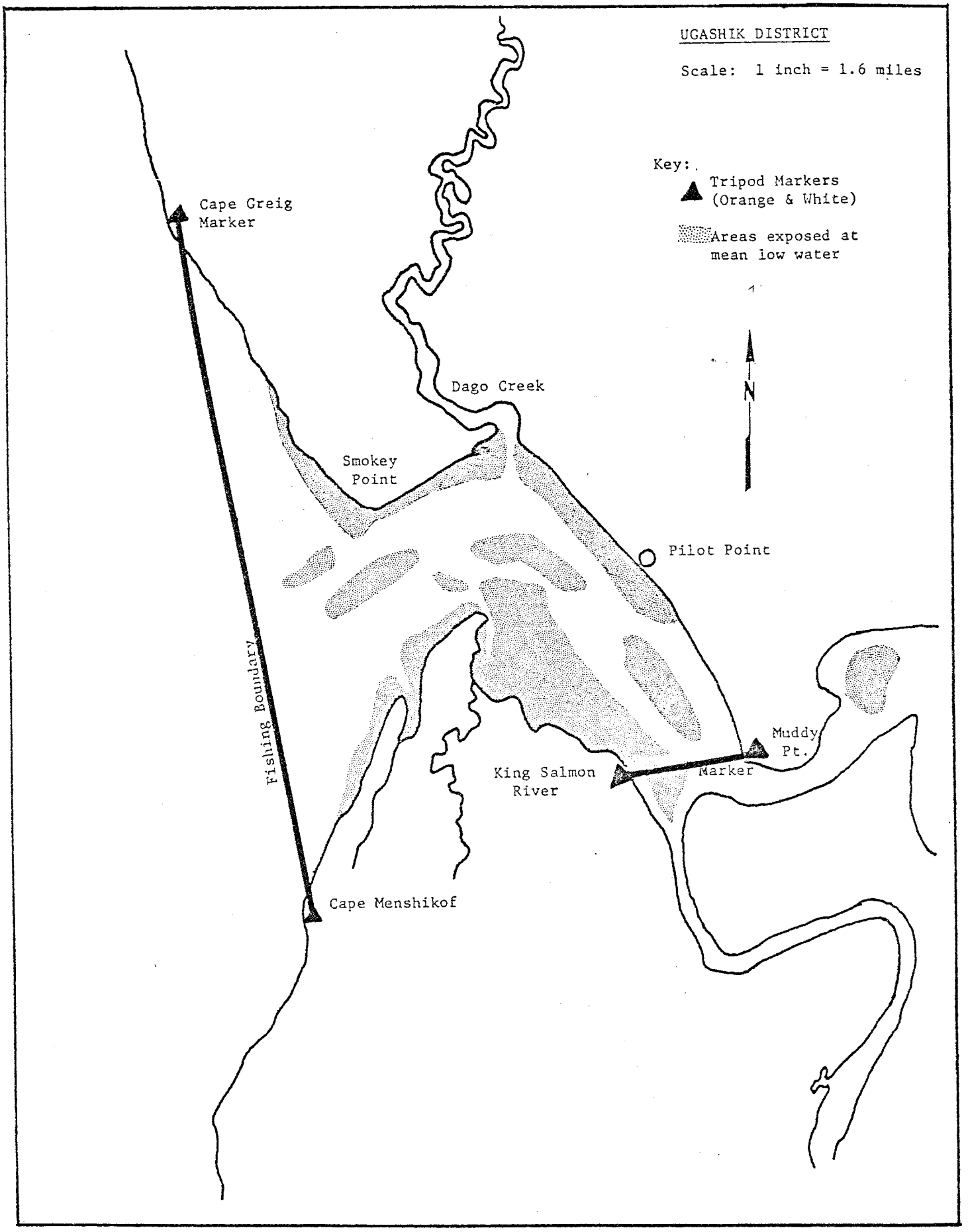

Figure 4. Ugashik District commercial fishing boundaries, 1975.

TABLE 26 UGASHIK RIVER CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP 42	52	53	63	64	TOTAL
CATCH						
MALES						
NUMBER	2,290	54	4,962	654	382	8,342
PERCENT	27.45	.65	59.48	7.84	4.58	57.30
FEMALES						
NUMBER	1,309	382	3,217	1,145	163	6,216
PERCENT	21.06	6.15	51.75	18.42	2.62	42.70
SEXES COMBINED						
NUMBER	3,599	436	8,179	1,799	545	14,558
PERCENT	24.72	3.00	56.18	12.36	3.74	100.00
ESCAPEMENT						
MALES						
NUMBER	108,333	491	116,676	7,710	245	233,455
PERCENT	46.40	.21	49.98	3.30	.11	54.38
FEMALES						
NUMBER	59,510	981	122,077	12,378	935	195,881
PERCENT	30.38	.50	62.32	6.32	.48	45.62
SEXES COMBINED						
NUMBER	167,843	1,472	238,753	20,088	1,180	429,336
PERCENT	39.09	.34	55.61	4.68	.28	100.00
CATCH AND ESCAPEMENT						
MALES						
NUMBER	110,623	545	121,638	8,364	627	241,797
PERCENT	45.75	.22	50.31	3.46	.26	54.47
FEMALES						
NUMBER	60,819	1,363	125,294	13,523	1,098	202,097
PERCENT	30.09	.68	62.00	6.69	.54	45.53
SEXES COMBINED						
NUMBER	171,442	1,908	246,932	21,887	1,725	443,894
PERCENT	38.62	.43	55.63	4.93	.39	100.00

TABLE 27 UGASHIK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT		PERCENT		CATCH	NUMBER IN CATCH	
			MALES	FEMALES	MALES	FEMALES		MALES	FEMALES
1	06/16-08/30	267	153	114	57.30	42.70	14,558	8,342	6,216

TABLE 28 UGASHIK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JULY 5	0	0	.00	.00
6	0	0	.00	.00
7	0	0	.00	.00
8	0	0	.00	.00
9	12	12	.00	.00
10	66	78	.02	.02
11	72	150	.02	.04
12	30	180	.01	.05
13	21,354	21,534	4.97	5.02
14	57,522	79,056	13.40	18.42
15	40,704	119,760	9.48	27.90
16	26,370	146,130	6.14	34.04
17	12,678	158,808	2.95	36.99
18	3,012	161,820	.70	37.69
19	11,814	173,634	2.75	40.44
20	46,902	220,536	10.92	51.36
21	99,246	319,782	23.12	74.48
22	64,518	384,300	15.03	89.51
23	18,390	402,690	4.28	93.79
24	13,596	416,286	3.17	96.96
25	9,474	425,760	2.21	99.17
26	3,144	428,904	.73	99.90
27	-354	428,550	-.08	99.82
28	528	429,078	.12	99.94
29	258	429,336	.06	100.00

TABLE 29 UGASHIK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	07/05-07/18	660	313	347	47.42	52.58	161,820	76,742	85,078
2	07/19-07/29	775	454	321	58.58	41.42	267,516	156,713	110,803
TOTAL		1,435	767	668	54.38	45.62	429,336	233,455	195,881

NUSHAGAK DISTRICT

The pre-season forecast indicated an inshore return of 2.3 million sockeye salmon to this district with a probable harvest of 1.1 million after escapement requirements.

Gear registration totaled over 700 units, about the same as in previous years. Fishing effort was curtailed in this district as a result of unresolved price disputes between industry and fishermen. Most fishermen missed all or portions of four fishing periods allowed prior to July 9.

Late in the first week of July there was a sudden buildup of the sockeye run within the district and a 16-hour opening of the fishery was announced for July 8-9. There was only a two-hour closure on July 9 before the district was re-opened for an additional 24 hours. Escapement goals were assured by July 10 for all major river systems in the Nushagak district and this prompted an extension of fishing until further notice.

Canneries were repeatedly overloaded with fish throughout the season and fishing time was suspended by local processors for varying periods on several occasions.

Final sockeye escapements in the Wood, Igushik, Nuyakuk and Nushagak-Mulchatna River systems exceeded the pre-season goals. The Snake River escapement, nevertheless, was well under the long term average. The total sockeye run to the Nushagak district totaled 2.9 million compared to a 20-year average run of 2.3 million.

Age composition of the inshore sockeye returns to this district was 22% 4-year fish, 71% 5-year fish and 7% 6-year fish.

The Nushagak district sockeye catch was apportioned in a multi-step process. First the age composition data of the Igushik section fish were compared with Igushik beach sample data and deducted from the drift catch. The remainder were apportioned to the various rivers in the Nushagak section by comparing the age and sex composition of the remaining catch sample with that of the river escapement samples.

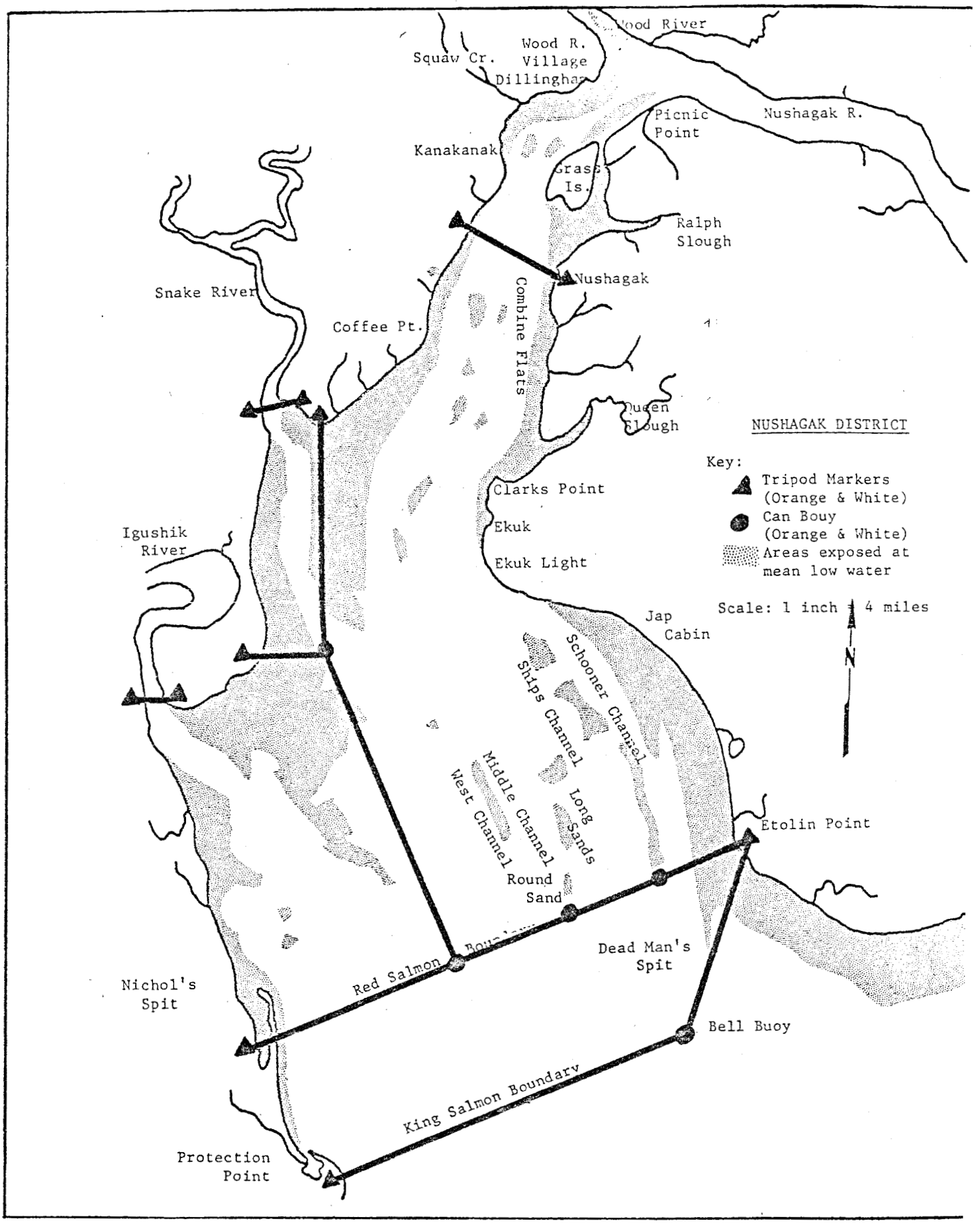

Figure 5. Nushagak-Igushik District commercial fishing boundaries, 1975.

TABLE 30 UGASHIK RIVER ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 42	52	53	63	64	TOTAL
MALES								
1	07/05-	COUNT	27,215	491	43,152	5,639	245	76,742
	07/18	PERCENT	35.46	.64	56.23	7.35	.32	32.87
2	07/19-	COUNT	81,118	--	73,524	2,071	--	156,713
	07/29	PERCENT	51.76	.00	46.92	1.32	.00	67.13
COLUMN TOTALS		COUNT	108,333	491	116,676	7,710	245	233,455
		PERCENT	46.40	.21	49.98	3.30	.11	100.00
FEMALES								
1	07/05-	COUNT	19,124	981	56,147	8,581	245	85,078
	07/18	PERCENT	22.48	1.15	65.99	10.09	.29	43.43
2	07/19-	COUNT	40,386	--	65,930	3,797	690	110,803
	07/29	PERCENT	36.45	.00	59.50	3.43	.62	56.57
COLUMN TOTALS		COUNT	59,510	981	122,077	12,378	935	195,881
		PERCENT	30.38	.50	62.32	6.32	.48	100.00
SEXES COMBINED								
1	07/05-	COUNT	46,339	1,472	99,299	14,220	490	161,820
	07/18	PERCENT	28.64	.91	61.36	8.79	.30	37.69
2	07/19-	COUNT	121,504	--	139,454	5,868	690	267,516
	07/29	PERCENT	45.42	.00	52.13	2.19	.26	62.31
COLUMN TOTALS		COUNT	167,843	1,472	238,753	20,088	1,180	429,336
		PERCENT	39.09	.34	55.61	4.68	.28	100.00

TABLE 31 NUSHAGAK-IGUSHIK DISTRICT INSHORE RUN OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND TOTAL PERCENT, 1975

	AGE GROUP								
	31	32	41	42	52	53	62	63	TOTAL
MALES									
ESCAPEMENT	1,304	1,304	10,547	221,509	554,357	121,869	5,313	58,913	975,116
CATCH	--	--	2,539	65,115	149,270	68,504	1,711	24,313	311,452
TOTAL	1,304	1,304	13,086	286,624	703,627	190,373	7,024	83,226	1,286,568
PERCENT	.10	.10	1.02	22.28	54.69	14.80	.54	6.47	100.00
FEMALES									
ESCAPEMENT	--	--	17,417	262,521	763,868	169,657	6,761	77,698	1,297,922
CATCH	1,065	--	4,802	43,565	191,294	60,010	1,303	32,412	334,451
TOTAL	1,065	--	22,219	306,086	955,162	229,667	8,064	110,110	1,632,373
PERCENT	.07	.00	1.36	18.75	58.51	14.07	.49	6.75	100.00
SEXES COMBINED									
ESCAPEMENT	1,304	1,304	27,964	484,030	1,318,225	291,526	12,074	136,611	2,273,038
CATCH	1,065	--	7,341	108,680	340,564	128,514	3,014	56,725	645,903
TOTAL	2,369	1,304	35,305	592,710	1,658,789	420,040	15,088	193,336	2,918,941
PERCENT	.08	.04	1.21	20.31	56.83	14.39	.52	6.62	100.00

TABLE 32 IGUSHIK RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP							
	31	41	42	52	53	62	63	TOTAL
CATCH								
MALES								
NUMBER	--	320	8,110	18,603	14,286	328	12,959	54,606
PERCENT	.00	.59	14.85	34.07	26.16	.60	23.73	37.40
FEMALES								
NUMBER	264	265	7,088	38,534	20,796	--	24,434	91,381
PERCENT	.29	.29	7.75	42.17	22.76	.00	26.74	62.60
SEXES COMBINED								
NUMBER	264	585	15,198	57,137	35,082	328	37,393	145,987
PERCENT	.18	.40	10.41	39.14	24.03	.23	25.61	100.00
ESCAPEMENT								
MALES								
NUMBER	--	331	18,214	41,064	5,961	994	21,194	87,758
PERCENT	.00	.38	20.76	46.79	6.79	1.13	24.15	36.40
FEMALES								
NUMBER	--	--	19,207	72,856	21,194	--	40,071	153,328
PERCENT	.00	.00	12.53	47.52	13.82	.00	26.13	63.60
SEXES COMBINED								
NUMBER	--	331	37,421	113,920	27,155	994	61,265	241,086
PERCENT	.00	.14	15.52	47.25	11.27	.41	25.41	100.00
CATCH AND ESCAPEMENT								
MALES								
NUMBER	--	651	26,324	59,667	20,247	1,322	34,153	142,364
PERCENT	.00	.46	18.49	41.91	14.22	.93	23.99	36.78
FEMALES								
NUMBER	264	265	26,295	111,390	41,990	--	64,505	244,709
PERCENT	.11	.11	10.74	45.52	17.16	.00	26.36	63.22
SEXES COMBINED								
NUMBER	264	916	52,619	171,057	62,237	1,322	98,658	387,073
PERCENT	.07	.24	13.59	44.19	16.08	.34	25.49	100.00

TABLE 33 SNAKE RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP						
	31	42	52	53	62	63	TOTAL
CATCH							
MALES							
NUMBER	--	1,558	2,329	505	--	477	4,869
PERCENT	.00	32.00	47.83	10.37	.00	9.80	68.07
FEMALES							
NUMBER	7	468	1,347	175	46	241	2,284
PERCENT	.31	20.49	58.98	7.66	2.01	10.55	31.93
SEXES COMBINED							
NUMBER	7	2,026	3,676	680	46	718	7,153
PERCENT	.10	28.32	51.39	9.51	.64	10.04	100.00
ESCAPEMENT							
MALES							
NUMBER	--	1,655	2,706	318	--	478	5,157
PERCENT	.00	32.09	52.47	6.17	.00	9.27	54.18
FEMALES							
NUMBER	--	1,210	2,355	255	95	446	4,361
PERCENT	.00	27.74	54.00	5.85	2.18	10.23	45.82
SEXES COMBINED							
NUMBER	--	2,865	5,061	573	95	924	9,518
PERCENT	.00	30.10	53.17	6.02	1.00	9.71	100.00
CATCH AND ESCAPEMENT							
MALES							
NUMBER	--	3,213	5,035	823	--	955	10,026
PERCENT	.00	32.05	50.22	8.21	.00	9.52	60.14
FEMALES							
NUMBER	7	1,678	3,702	430	141	687	6,645
PERCENT	.11	25.25	55.71	6.47	2.12	10.34	39.86
SEXES COMBINED							
NUMBER	7	4,891	8,737	1,253	141	1,642	16,671
PERCENT	.04	29.34	52.41	7.52	.84	9.85	100.00

TABLE 34 WOOD RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP								
	31	32	41	42	52	53	62	63	TOTAL
CATCH									
MALES									
NUMBER	--	--	674	35,929	50,802	23,737	540	9,563	121,245
PERCENT	.00	.00	.56	29.63	41.90	19.58	.44	7.89	54.36
FEMALES									
NUMBER	336	--	1,084	23,973	54,926	14,425	535	6,534	101,813
PERCENT	.33	.00	1.06	23.55	53.95	14.17	.52	6.42	45.64
SEXES COMBINED									
NUMBER	336	--	1,758	59,902	105,728	38,162	1,075	16,097	223,058
PERCENT	.15	.00	.79	26.85	47.40	17.11	.48	7.22	100.00
ESCAPEMENT									
MALES									
NUMBER	1,304	1,304	5,216	164,306	311,661	75,633	2,608	35,209	597,241
PERCENT	.22	.22	.87	27.51	52.18	12.66	.44	5.90	47.02
FEMALES									
NUMBER	--	--	6,520	191,691	358,606	78,241	3,912	33,905	672,875
PERCENT	.00	.00	.97	28.49	53.29	11.63	.58	5.04	52.98
SEXES COMBINED									
NUMBER	1,304	1,304	11,736	355,997	670,267	153,874	6,520	69,114	1,270,116
PERCENT	.10	.10	.93	28.03	52.77	12.12	.51	5.44	100.00
CATCH AND ESCAPEMENT									
MALES									
NUMBER	1,304	1,304	5,890	200,235	362,463	99,370	3,148	44,772	718,486
PERCENT	.18	.18	.82	27.87	50.45	13.83	.44	6.23	48.12
FEMALES									
NUMBER	336	--	7,604	215,664	413,532	92,666	4,447	40,439	774,688
PERCENT	.04	.00	.98	27.84	53.38	11.96	.58	5.22	51.88
SEXES COMBINED									
NUMBER	1,640	1,304	13,494	415,899	775,995	192,036	7,595	85,211	1,493,174
PERCENT	.11	.09	.90	27.85	51.97	12.86	.51	5.71	100.00

TABLE 35 NUYAKUK RIVER APPORTIONED CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP							
	31	41	42	52	53	62	63	TOTAL
CATCH								
MALES								
NUMBER	--	465	10,564	58,179	27,470	199	414	97,291
PERCENT	.00	.48	10.86	59.80	28.23	.20	.43	44.38
FEMALES								
NUMBER	402	2,361	8,690	85,584	23,795	385	723	121,940
PERCENT	.33	1.94	7.13	70.18	19.51	.32	.59	55.62
SEXES COMBINED								
NUMBER	402	2,826	19,254	143,763	51,265	584	1,137	219,231
PERCENT	.18	1.29	8.78	65.58	23.38	.27	.52	100.00
ESCAPEMENT								
MALES								
NUMBER	--	2,487	27,281	173,794	38,433	722	1,043	243,760
PERCENT	.00	1.02	11.19	71.30	15.77	.29	.43	36.39
FEMALES								
NUMBER	--	8,384	40,360	304,919	68,443	1,765	2,287	426,158
PERCENT	.00	1.97	9.47	71.55	16.06	.41	.54	63.61
SEXES COMBINED								
NUMBER	--	10,871	67,641	478,713	106,876	2,487	3,330	669,918
PERCENT	.00	1.62	10.10	71.46	15.95	.37	.50	100.00
CATCH AND ESCAPEMENT								
MALES								
NUMBER	--	2,952	37,845	231,973	65,903	921	1,457	341,051
PERCENT	.00	.86	11.10	68.02	19.32	.27	.43	38.36
FEMALES								
NUMBER	402	10,745	49,050	390,503	92,238	2,150	3,010	548,098
PERCENT	.07	1.96	8.95	71.25	16.83	.39	.55	61.64
SEXES COMBINED								
NUMBER	402	13,697	86,895	622,476	158,141	3,071	4,467	889,149
PERCENT	.04	1.54	9.77	70.01	17.79	.35	.50	100.00

TABLE 36 NUSHAGAK-IGUSHIK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	CATCH	NUMBER IN CATCH MALES	NUMBER IN CATCH FEMALES
1	06/02-07/12	1,215	575	640	47.33	52.67	395,689	187,260	208,429
2	07/13-08/16	552	277	275	50.18	49.82	176,662	88,651	88,011
TOTAL		1,767	852	915	48.21	51.79	572,351	275,911	296,440

TABLE 37 NUSHAGAK-IGUSHIK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 31	41	42	52	53	62	63	TOTAL
MALES										
1	06/02-	COUNT	--	1,954	41,360	93,793	37,452	1,303	11,398	187,260
	07/12	PERCENT	.00	1.04	22.09	50.09	20.00	.70	6.09	67.87
2	07/13-	COUNT	--	320	19,522	44,806	18,882	320	4,801	88,651
	08/16	PERCENT	.00	.36	22.02	50.54	21.30	.36	5.42	32.13
COLUMN		COUNT	--	2,274	60,882	138,599	56,334	1,623	16,199	275,911
TOTALS		PERCENT	.00	.82	22.07	50.23	20.42	.59	5.87	100.00
FEMALES										
1	06/02-	COUNT	977	3,257	26,054	130,268	29,310	1,303	17,260	208,429
	07/12	PERCENT	.47	1.56	12.50	62.50	14.06	.63	8.28	70.31
2	07/13-	COUNT	--	1,280	15,042	48,326	18,882	--	4,481	88,011
	08/16	PERCENT	.00	1.45	17.09	54.91	21.45	.00	5.09	29.69
COLUMN		COUNT	977	4,537	41,096	178,594	48,192	1,303	21,741	296,440
TOTALS		PERCENT	.33	1.53	13.86	60.25	16.26	.44	7.33	100.00
SEXES COMBINED										
1	06/02-	COUNT	977	5,211	67,414	224,061	66,762	2,606	28,658	395,689
	07/12	PERCENT	.25	1.32	17.04	56.62	16.87	.66	7.24	69.13
2	07/13-	COUNT	--	1,600	34,564	93,132	37,764	320	9,282	176,662
	08/16	PERCENT	.00	.91	19.56	52.72	21.38	.18	5.25	30.87
COLUMN		COUNT	977	6,811	101,978	317,193	104,526	2,926	37,940	572,351
TOTALS		PERCENT	.17	1.19	17.82	55.42	18.26	.51	6.63	100.00

TABLE 38 IGUSHIK BEACH SUB-DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT		PERCENT		CATCH	NUMBER IN CATCH	
			MALES	FEMALES	MALES	FEMALES		MALES	FEMALES
1	07/08-07/19	834	403	431	48.32	51.68	73,552	35,541	38,011

TABLE 39 IGUSHIK BEACH SUB-DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 31	41	42	52	53	62	63	TOTAL
MALES										
1	07/08-	COUNT	--	265	4,233	10,671	12,170	88	8,114	35,541
	07/19	PERCENT	.00	.74	11.91	30.02	34.24	.25	22.83	100.00
FEMALES										
1	07/08-	COUNT	88	265	2,469	12,700	11,818	--	10,671	38,011
	07/19	PERCENT	.23	.70	6.50	33.41	31.09	.00	28.07	100.00
SEXES COMBINED										
1	07/08-	COUNT	88	530	6,702	23,371	23,988	88	18,785	73,552
	07/19	PERCENT	.12	.72	9.11	31.78	32.61	.12	25.54	100.00

TABLE 40 IGUSHIK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE 22	0	0	.00	.00
23	0	0	.00	.00
24	0	0	.00	.00
25	0	0	.00	.00
26	0	0	.00	.00
27	0	0	.00	.00
28	0	0	.00	.00
29	0	0	.00	.00
30	0	0	.00	.00
JULY 1	0	0	.00	.00
2	0	0	.00	.00
3	0	0	.00	.00
4	0	0	.00	.00
5	1,032	1,032	.43	.43
6	1,710	2,742	.71	1.14
7	5,478	8,220	2.27	3.41
8	22,308	30,528	9.25	12.66
9	36,084	66,612	14.97	27.63
10	25,692	92,304	10.66	38.29
11	32,616	124,920	13.53	51.82
12	37,662	162,582	15.62	67.44
13	20,724	183,306	8.59	76.03
14	12,054	195,360	5.00	81.03
15	9,270	204,630	3.84	84.87
16	6,792	211,422	2.82	87.69
17	4,524	215,946	1.88	89.57
18	6,930	222,876	2.87	92.44
19	4,698	227,574	1.95	94.39
20	4,488	232,062	1.86	96.25
21	3,468	235,530	1.44	97.69
22	2,886	238,416	1.20	98.89
23	1,224	239,640	.51	99.40
24	1,446	241,086	.60	100.00
25	0	241,086	.00	100.00

TABLE 41 IGUSHIK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT		PERCENT		ESCAPEMENT	NUMBER IN ESCAPEMENT	
			MALES	FEMALES	MALES	FEMALES		MALES	FEMALES
1	06/22-07/25	728	265	463	36.40	63.60	241,086	87,758	153,328

TABLE 42 SNAKE RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JULY 5	3	3	.03	.03
6	0	3	.00	.03
7	14	17	.15	.18
8	27	44	.28	.46
9	35	79	.37	.83
10	4	83	.04	.87
11	145	228	1.52	2.39
12	2,214	2,442	23.26	25.65
13	1,512	3,954	15.89	41.54
14	981	4,935	10.31	51.85
15	1,430	6,365	15.02	66.87
16	961	7,326	10.10	76.97
17	579	7,905	6.08	83.05
18	55	7,960	.58	83.63
19	194	8,154	2.04	85.67
20	0	8,154	.00	85.67
21	48	8,202	.50	86.17
22	722	8,924	7.59	93.76
23	234	9,158	2.46	96.22
24	56	9,214	.59	96.81
25	0	9,214	.00	96.81
26	84	9,298	.88	97.69
27	22	9,320	.23	97.92
28	66	9,386	.69	98.61
29	0	9,386	.00	98.61
30	3	9,389	.03	98.64
31	22	9,411	.23	98.87
AUG. 1	1	9,412	.01	98.88
2	11	9,423	.12	99.00
3	12	9,435	.13	99.13
4	83 *	9,518	.87	100.00

FOOTNOTES

* AUGUST 4 DAILY AND ACCUMULATIVE COUNTS SHOW ACCUMULATIVE OF COUNTS THROUGH AUGUST 25.

TABLE 43 SNAKE RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT		PERCENT		ESCAPEMENT	NUMBER IN ESCAPEMENT	
			MALES	FEMALES	MALES	FEMALES		MALES	FEMALES
1	07/05-08/04	299	162	137	54.18	45.82	9,518	5,157	4,361

TABLE 44 WOOD RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE 21	0	0	.00	.00
22	0	0	.00	.00
23	192	192	.01	.01
24	192	384	.01	.02
25	354	738	.03	.05
26	246	984	.02	.07
27	198	1,182	.02	.09
28	450	1,632	.04	.13
29	3,402	5,034	.27	.40
30	6,684	11,718	.53	.93
JULY 1	2,850	14,568	.22	1.15
2	14,442	29,010	1.14	2.29
3	11,976	40,986	.94	3.23
4	2,556	43,542	.20	3.43
5	2,004	45,546	.16	3.59
6	516	46,062	.04	3.63
7	34,470	80,532	2.71	6.34
8	213,438	293,970	16.80	23.14
9	307,632	601,602	24.22	47.36
10	228,132	829,734	17.96	65.32
11	150,246	979,980	11.83	77.15
12	126,348	1,106,328	9.95	87.10
13	65,136	1,171,464	5.13	92.23
14	20,802	1,192,266	1.64	93.87
15	19,002	1,211,268	1.50	95.37
16	19,500	1,230,768	1.54	96.91
17	13,440	1,244,208	1.06	97.97
18	9,960	1,254,168	.78	98.75
19	4,320	1,258,488	.34	99.09
20	3,264	1,261,752	.26	99.35
21	3,168	1,264,920	.25	99.60
22	2,178	1,267,098	.17	99.77
23	1,806	1,268,904	.14	99.91
24	894	1,269,798	.07	99.98
25	318	1,270,116	.02	100.00

TABLE 45 WOOD RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT		PERCENT		ESCAPEMENT	NUMBER IN ESCAPEMENT	
			MALES	FEMALES	MALES	FEMALES		MALES	FEMALES
1	06/19-07/25	974	458	516	47.02	52.98	1,270,116	597,241	672,875

TABLE 46 NUYAKUK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE	DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JUNE 28	0	0	.00	.00
29	0	0	.00	.00
30	0	0	.00	.00
JULY 1	0	0	.00	.00
2	0	0	.00	.00
3	0	0	.00	.00
4	0	0	.00	.00
5	0	0	.00	.00
6	0	0	.00	.00
7	0	0	.00	.00
8	288	288	.04	.04
9	1,608	1,896	.24	.28
10	2,736	4,632	.41	.69
11	2,016	6,648	.30	.99
12	73,860	80,508	11.03	12.02
13	153,084	233,592	22.85	34.87
14	129,468	363,060	19.33	54.20
15	36,666	399,726	5.47	59.67
16	35,310	435,036	5.27	64.94
17	64,650	499,686	9.65	74.59
18	43,722	543,408	6.53	81.12
19	71,694	615,102	10.70	91.82
20	25,800	640,902	3.85	95.67
21	10,176	651,078	1.52	97.19
22	6,156	657,234	.92	98.11
23	5,634	662,868	.84	98.95
24	4,410	667,278	.66	99.61
25	1,632	668,910	.24	99.85
26	822	669,732	.12	99.97
27	186	669,918	.03	100.00

TABLE 47 NUYAKUK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	06/28-07/14	696	214	482	30.75	69.25	363,060	111,631	251,429
2	07/15-07/27	425	183	242	43.06	56.94	306,858	132,129	174,729
TOTAL		1,121	397	724	36.39	63.61	669,918	243,760	426,158

TABLE 48 NUYAKUK RIVER ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 41	42	52	53	62	63	TOTAL
MALES									
1	06/28-	COUNT	1,043	13,563	81,376	14,606	--	1,043	111,631
	07/14	PERCENT	.93	12.15	72.90	13.08	.00	.93	45.80
2	07/15-	COUNT	1,444	13,718	92,418	23,827	722	--	132,129
	07/27	PERCENT	1.09	10.38	69.95	18.03	.55	.00	54.20
COLUMN		COUNT	2,487	27,281	173,794	38,433	722	1,043	243,760
TOTALS		PERCENT	1.02	11.19	71.30	15.77	.29	.43	100.00
FEMALES									
1	06/28-	COUNT	2,608	20,865	193,006	32,342	1,043	1,565	251,429
	07/14	PERCENT	1.04	8.30	76.76	12.86	.41	.62	59.00
2	07/15-	COUNT	5,776	19,495	111,913	36,101	722	722	174,729
	07/27	PERCENT	3.31	11.16	64.05	20.66	.41	.41	41.00
COLUMN		COUNT	8,384	40,360	304,919	68,443	1,765	2,287	426,158
TOTALS		PERCENT	1.97	9.47	71.55	16.06	.41	.54	100.00
SEXES COMBINED									
1	06/28-	COUNT	3,651	34,428	274,382	46,948	1,043	2,608	363,060
	07/14	PERCENT	1.01	9.48	75.57	12.93	.29	.72	54.19
2	07/15-	COUNT	7,220	33,213	204,331	59,928	1,444	722	306,858
	07/27	PERCENT	2.35	10.82	66.59	19.53	.47	.24	45.81
COLUMN		COUNT	10,871	67,641	478,713	106,876	2,487	3,330	669,918
TOTALS		PERCENT	1.62	10.10	71.46	15.95	.37	.50	100.00

TOGIAK DISTRICT

The Togiak district salmon fishery is the only one in Bristol Bay where fishing periods are set before the fishing season and adjusted as required during the courses of the salmon run. Since the total inshore return of sockeye salmon to the Togiak district was more than double the pre-season forecast, additional fishing time was permitted this year.

Pre-season gear registration in this district amounted to just over 100 units. Fishing effort for sockeye salmon was reduced prior to July 7, when the fishermen and local processors finally agreed on a price for fish caught. Canning capacity at Togiak was limited and large catches during the second week of July forced a suspension of fishing time to permit processors to handle fish already delivered.

Good sockeye catches continued through the last week of July and a further extension of fishing time was allowed. As the salmon runs tapered off in adjacent districts, over 40 fishermen transferred into this district to take advantage of the exceptional run.

The total sockeye harvest of 189,000 was well above the 20-year average of 137,000. The total inshore run of 350,000 was also above the long term average.

Final sockeye salmon escapement to the Togiak River was 161,000, and is above the escapement goal. An additional 28,200 sockeye salmon were counted during aerial surveys of numerous tributary streams, but in the absence of age and sex composition samples from these stocks they are not included in the summary tables that follow.

Age composition of the sockeye run was 29% 4-year fish, 67% 5-year fish and 4% 6-year fish.

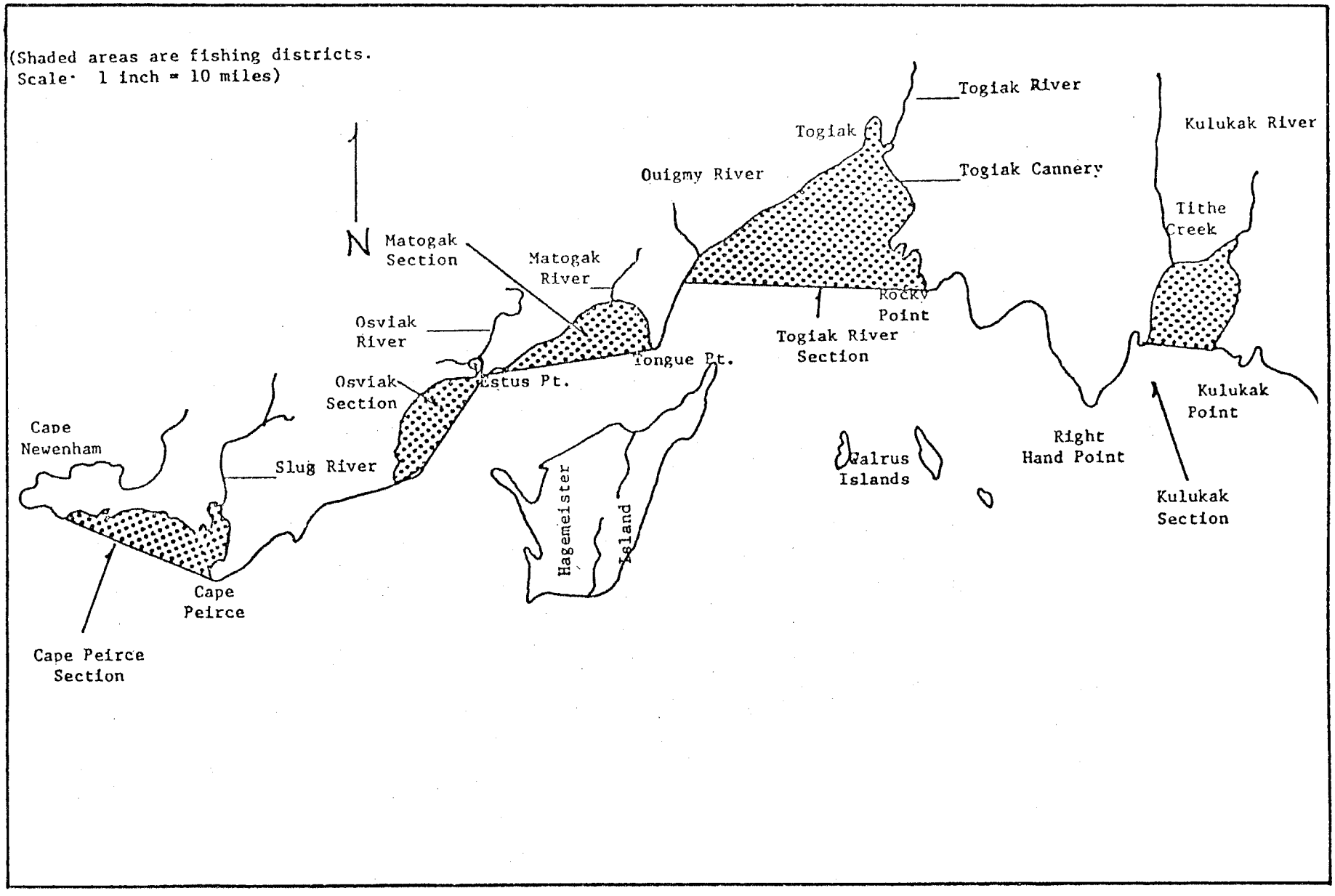

Figure 6. Togiak District commercial fishing boundaries, 1975.

TABLE 49 TOGIAK RIVER CATCH AND ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP								
	31	32	41	42	52	53	62	63	TOTAL
CATCH									
MALES									
NUMBER	257	--	1,108	33,072	39,517	15,732	907	3,394	93,987
PERCENT	.27	.00	1.18	35.19	42.05	16.74	.96	3.61	49.75
FEMALES									
NUMBER	135	--	621	34,565	40,938	14,896	892	2,880	94,927
PERCENT	.14	.00	.66	36.41	43.13	15.69	.94	3.03	50.25
SEXES COMBINED									
NUMBER	392	--	1,729	67,637	80,455	30,628	1,799	6,274	188,914
PERCENT	.21	.00	.92	35.80	42.59	16.21	.95	3.32	100.00
ESCAPEMENT									
MALES									
NUMBER	--	173	867	18,386	48,913	10,581	867	1,388	81,175
PERCENT	.00	.21	1.07	22.65	60.26	13.03	1.07	1.71	50.43
FEMALES									
NUMBER	--	173	867	13,876	52,035	10,234	--	2,602	79,787
PERCENT	.00	.22	1.08	17.39	65.22	12.83	.00	3.26	49.57
SEXES COMBINED									
NUMBER	--	346	1,734	32,262	100,948	20,815	867	3,990	160,962
PERCENT	.00	.21	1.08	20.04	62.72	12.93	.54	2.48	100.00
CATCH AND ESCAPEMENT									
MALES									
NUMBER	257	173	1,975	51,458	88,430	26,313	1,774	4,782	175,162
PERCENT	.15	.10	1.13	29.38	50.48	15.02	1.01	2.73	50.06
FEMALES									
NUMBER	135	173	1,488	48,441	92,973	25,130	892	5,482	174,714
PERCENT	.08	.10	.85	27.73	53.21	14.38	.51	3.14	49.94
SEXES COMBINED									
NUMBER	392	346	3,463	99,899	181,403	51,443	2,666	10,264	349,876
PERCENT	.11	.10	.99	28.55	51.85	14.70	.76	2.94	100.00

TABLE 50 TOGIAK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	CATCH	NUMBER IN CATCH MALES	NUMBER IN CATCH FEMALES
1	06/16-07/19	883	451	432	51.08	48.92	107,375	54,843	52,532
2	07/20-09/06	602	289	313	48.01	51.99	81,539	39,144	42,395
TOTAL		1,485	740	745	49.75	50.25	188,914	93,987	94,927

TABLE 51 TOGIAK DISTRICT COMMERCIAL CATCH OF SOCKEYE SALMON, AGE GROUP BY SAMPLE PERIOD AND SEX, NUMBER AND PERCENT, 1975

SAMPLE PERIOD	DATE		AGE GROUP 31	41	42	52	53	62	63	TOTAL
MALES										
1	06/16-	COUNT	122	973	12,890	30,036	8,147	365	2,310	54,843
	07/19	PERCENT	.22	1.77	23.50	54.77	14.86	.67	4.21	58.35
2	07/20-	COUNT	135	135	20,182	9,481	7,585	542	1,084	39,144
	09/06	PERCENT	.35	.35	51.56	24.22	19.38	1.38	2.77	41.65
COLUMN TOTALS		COUNT	257	1,108	33,072	39,517	15,732	907	3,394	93,987
		PERCENT	.27	1.18	35.19	42.05	16.74	.96	3.61	100.00
FEMALES										
1	06/16-	COUNT	--	486	11,674	30,644	7,175	486	2,067	52,532
	07/19	PERCENT	.00	.93	22.22	58.33	13.66	.93	3.94	55.34
2	07/20-	COUNT	135	135	22,891	10,294	7,721	406	813	42,395
	09/06	PERCENT	.32	.32	53.99	24.28	18.21	.96	1.92	44.66
COLUMN TOTALS		COUNT	135	621	34,565	40,938	14,896	892	2,880	94,927
		PERCENT	.14	.66	36.41	43.13	15.69	.94	3.03	100.00
SEXES COMBINED										
1	06/16-	COUNT	122	1,459	24,564	60,680	15,322	851	4,377	107,375
	07/19	PERCENT	.11	1.36	22.88	56.51	14.27	.79	4.08	56.84
2	07/20-	COUNT	270	270	43,073	19,775	15,306	948	1,897	81,539
	09/06	PERCENT	.33	.33	52.83	24.25	18.77	1.16	2.33	43.16
COLUMN TOTALS		COUNT	392	1,729	67,637	80,455	30,628	1,799	6,274	188,914
		PERCENT	.21	.92	35.80	42.59	16.21	.95	3.32	100.00

TABLE 52 TOGIAK RIVER DAILY SOCKEYE SALMON ESCAPEMENT COUNTS, 1975

DATE		DAILY COUNT	ACCUMULATIVE COUNT	DAILY PERCENT OF TOTAL	ACCUMULATIVE PERCENT
JULY	1	0	0	.00	.00
	2	0	0	.00	.00
	3	0	0	.00	.00
	4	0	0	.00	.00
	5	0	0	.00	.00
	6	0	0	.00	.00
	7	0	0	.00	.00
	8	18	18	.01	.01
	9	330	348	.20	.21
	10	792	1,140	.49	.70
	11	5,886	7,026	3.66	4.36
	12	12,420	19,446	7.72	12.08
	13	6,768	26,214	4.20	16.28
	14	9,948	36,162	6.18	22.46
	15	12,618	48,780	7.84	30.30
	16	20,670	69,450	12.84	43.14
	17	11,790	81,240	7.32	50.46
	18	17,988	99,228	11.18	61.64
	19	6,684	105,912	4.15	65.79
	20	10,128	116,040	6.29	72.08
	21	7,500	123,540	4.66	76.74
	22	5,376	128,916	3.34	80.08
	23	6,126	135,042	3.81	83.89
	24	5,364	140,406	3.33	87.22
	25	6,030	146,436	3.75	90.97
	26	2,712	149,148	1.68	92.65
	27	3,096	152,244	1.92	94.57
	28	1,704	153,948	1.06	95.63
	29	2,292	156,240	1.42	97.05
	30	1,410	157,650	.88	97.93
	31	1,362	159,012	.85	98.78
AUG.	1	462	159,474	.29	99.07
	2	744	160,218	.46	99.53
	3	396	160,614	.25	99.78
	4	348	160,962	.22	100.00

TABLE 53 TOGIAK RIVER ESCAPEMENT OF SOCKEYE SALMON, SEX COMPOSITION BY SAMPLE PERIOD, 1975

PERIOD NUMBER	DATE	NO. OF FISH SAMPLED	COUNT MALES	COUNT FEMALES	PERCENT MALES	PERCENT FEMALES	ESCAPEMENT	NUMBER IN ESCAPEMENT MALES	NUMBER IN ESCAPEMENT FEMALES
1	07/01-08/04	928	468	460	50.43	49.57	160,962	81,175	79,787

LITERATURE CITED

McCurdy, M.L. and T.R. Schroeder, 1972. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1971. A compilation of catch and escapement data. Alaska Department of Fish and Game. Technical Data Report No. 7, 102 p.

APPENDIX

TABLE A-1 NUSHAGAK-MULCHATNA RIVER ESTIMATED ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

		AGE GROUP						
		41	42	52	53	62	63	TOTAL
MALES								
	COUNT	2,513	10,053	25,132	1,524	989	989	41,200
	PERCENT	6.1	24.4	61.0	3.7	2.4	2.4	100.0
FEMALES								
	COUNT	2,513	10,053	25,132	1,524	989	989	41,200
	PERCENT	6.1	24.4	61.0	3.7	2.4	2.4	100.0
SEXES COMBINED								
	COUNT	5,026	20,106	50,264	3,048	1,978	1,978	82,400
	PERCENT	6.1	24.4	61.0	3.7	2.4	2.4	100.0

NOTE: TOTAL NUMBER ESTIMATED FROM AERIAL SURVEY. SEX RATIO ARBITRARILY SET AT 1:1. AGE COMPOSITION ESTIMATED FROM PAST DATA.

TABLE A-2 NUSHAGAK-MULCHATNA RIVER APPORTIONED CATCH AND ESTIMATED ESCAPEMENT OF SOCKEYE SALMON, AGE GROUP BY SEX, NUMBER AND PERCENT, 1975

	AGE GROUP							
	31	41	42	52	53	62	63	TOTAL
CATCH								
MALES								
NUMBER	--	1,080	8,954	19,357	2,506	644	900	33,441
PERCENT	.00	3.23	26.78	57.88	7.49	1.93	2.69	66.25
FEMALES								
NUMBER	56	1,092	3,346	10,903	819	337	480	17,033
PERCENT	.33	6.41	19.64	64.01	4.81	1.98	2.82	33.75
SEXES COMBINED								
NUMBER	56	2,172	12,300	30,260	3,325	981	1,380	50,474
PERCENT	.11	4.30	24.37	59.95	6.59	1.94	2.74	100.00
ESCAPEMENT								
MALES								
NUMBER	--	2,513	10,053	25,132	1,524	989	989	41,200
PERCENT	.00	6.10	24.40	61.00	3.70	2.40	2.40	50.00
FEMALES								
NUMBER	--	2,513	10,053	25,132	1,524	989	989	41,200
PERCENT	.00	6.10	24.40	61.00	3.70	2.40	2.40	50.00
SEXES COMBINED								
NUMBER	--	5,026	20,106	50,264	3,048	1,978	1,978	82,400
PERCENT	.00	6.10	24.40	61.00	3.70	2.40	2.40	100.00
CATCH AND ESCAPEMENT								
MALES								
NUMBER	--	3,593	19,007	44,489	4,030	1,633	1,889	74,641
PERCENT	.00	4.81	25.47	59.60	5.40	2.19	2.53	56.17
FEMALES								
NUMBER	56	3,605	13,399	36,035	2,343	1,326	1,469	58,233
PERCENT	.10	6.19	23.01	61.88	4.02	2.28	2.52	43.83
SEXES COMBINED								
NUMBER	56	7,198	32,406	80,524	6,373	2,959	3,358	132,874
PERCENT	.04	5.42	24.39	60.60	4.79	2.23	2.53	100.00

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