



COMMERCIAL SALMON CATCH STATISTICS FOR THE
UPPER YUKON MANAGEMENT AREA, 1993

By:

Bonnie Borba

Regional Information Report¹ No. 3A93-16

Alaska Department of Fish and Game
Division of Commercial Fisheries, A-Y-K Region
333 Raspberry Road
Anchorage, Alaska 99518

November 1993

¹The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished divisional reports. These reports frequently serve diverse ad hoc informational purposes or archive basic uninterpreted data. To accommodate timely reporting of recently collected information, reports in this series undergo only limited internal review and may contain preliminary data; this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited without prior approval of the author or the Division of Commercial Fisheries.

AUTHOR

Bonnie Borba is an Upper Yukon Commercial Catch Monitor for the Alaska Department of Fish and Game, Division of Commercial Fisheries, Region III, Upper Yukon, 1300 College Road, Fairbanks, Alaska 99701

ACKNOWLEDGEMENTS

The Alaska Department of Fish and Game, Computer Services developed the Fish Ticket System (version 7.2 and version 8.0) used to generate the following reports. The system is written in Realia COBOL, except for the panels where SCREENIO was used. Programmers included Denny Johnson, Carmine DiCastanzo, Ann Graham and Terry Smith. Terry Smith modified the management reporting subsystem originally written by Ann Graham.

TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLESiv
LIST OF FIGURES	x
ABSTRACT	xi
INTRODUCTION	1
METHODS	1
RESULTS	2
Salmon Sold in the Round	2
Salmon Roe Production	2
Total Estimated Salmon Harvest	2
Value to the Fishermen	3
Salmon Not Sold	3
LITERATURE CITED	4

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1. Upper Yukon Management Area commercial salmon sales, all districts and gear combined, by day, 1993	5
2. Upper Yukon Management Area commercial set gillnet salmon sales, all districts, by day, 1993	5
3. Upper Yukon Management Area commercial fish wheel salmon sales, all districts, by day, 1993	6
4. Upper Yukon Management Area commercial set gillnet and fish wheel salmon sales, combined harvest in District 4, by day 1993	6
5. Upper Yukon Management Area commercial set gillnet salmon sales, District 4, by day, 1993	7
6. Upper Yukon Management Area commercial fish wheel salmon sales, District 4, by day, 1993	7
7. Subdistrict 4-A, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	8
8. Subdistrict 4-A, commercial set gillnet salmon harvest by period, 1993	8
9. Subdistrict 4-A, commercial fish wheel salmon harvest by period, 1993	8
10. Subdistrict 4-A, Statistical Area 033444, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	9
11. Subdistrict 4-A, Statistical Area 033444, commercial set gillnet salmon harvest by period, 1993	9
12. Subdistrict 4-A, Statistical Area 033444, commercial fish wheel salmon harvest by period, 1993	9
13. Subdistrict 4-A, Statistical Area 033445, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	10
14. Subdistrict 4-A, Statistical Area 033445, commercial set gillnet salmon harvest by period, 1993	10
15. Subdistrict 4-A, Statistical Area 033445, commercial fish wheel salmon harvest by period, 1993	10
16. Subdistrict 4-A, Statistical Area 033446, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	11

<u>Table</u>	<u>Page</u>
17. Subdistrict 4-A, Statistical Area 033446, commercial set gillnet salmon harvest by period, 1993	11
18. Subdistrict 4-A, Statistical Area 033446, commercial fish wheel salmon harvest by period, 1993	11
19. Subdistrict 4-B and 4-C combined, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	12
20. Subdistrict 4-B and 4-C combined, commercial set gillnet salmon harvest by period, 1993	12
21. Subdistrict 4-B and 4-C combined, commercial fish wheel salmon harvest by period, 1993	12
22. Subdistrict 4-B, Statistical Area 033442, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	13
23. Subdistrict 4-B, Statistical Area 033442, commercial set gillnet salmon harvest by period, 1993	13
24. Subdistrict 4-B, Statistical Area 033442, commercial fish wheel salmon harvest by period, 1993	13
25. Subdistrict 4-C, Statistical Area 033443, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	14
26. Subdistrict 4-C, Statistical Area 033443, commercial set gillnet salmon harvest by period 1993	14
27. Subdistrict 4-C, Statistical Area 033443, commercial fish wheel salmon harvest by period, 1993	14
28. Upper Yukon Management Area commercial set gillnet and fish wheel salmon sales, combined harvest in District 5, by day, 1993	15
29. Upper Yukon Management Area commercial set gillnet salmon sales, District 5, by day, 1993	15
30. Upper Yukon Management Area commercial fish wheel salmon sales, District 5, by day, 1993	15
31. Subdistrict 5-A, 5-B and 5-C combined, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	16
32. Subdistrict 5-A, 5-B and 5-C combined, commercial set gillnet salmon harvest by period, 1993	16

<u>Table</u>	<u>Page</u>
33. Subdistrict 5-A, 5-B and 5-C combined, commercial fish wheel salmon harvest by period, 1993	16
34. Subdistrict 5-A, Statistical Area 033451, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	17
35. Subdistrict 5-A, Statistical Area 033451, commercial set gillnet salmon harvest by period, 1993	17
36. Subdistrict 5-A, Statistical Area 033451, commercial fish wheel salmon harvest by period, 1993	17
37. Subdistrict 5-B, Statistical Area 033452, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	18
38. Subdistrict 5-B, Statistical Area 033452, commercial set gillnet salmon harvest by period, 1993	18
39. Subdistrict 5-B, Statistical Area 033452, commercial fish wheel salmon harvest by period, 1993	18
40. Subdistrict 5-C, Statistical Area 033453, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	19
41. Subdistrict 5-C, Statistical Area 033453, commercial set gillnet salmon harvest by period, 1993	19
42. Subdistrict 5-C, Statistical Area 033453, commercial fish wheel salmon harvest by period, 1993	19
43. Subdistrict 5-D, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	20
44. Subdistrict 5-D, commercial set gillnet salmon harvest by period, 1993	20
45. Subdistrict 5-D, commercial fish wheel salmon harvest by period, 1993	20
46. Subdistrict 5-D, Statistical Area 033454, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	21
47. Subdistrict 5-D, Statistical Area 033454, commercial set gillnet salmon harvest by period, 1993	21
48. Subdistrict 5-D, Statistical Area 033454, commercial fish wheel salmon harvest by period, 1993	21
49. Subdistrict 5-D, Statistical Area 033455, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	22

<u>Table</u>	<u>Page</u>
50. Subdistrict 5-D, Statistical Area 033455, commercial set gillnet salmon harvest by period, 1993	22
51. Subdistrict 5-D, Statistical Area 033455, commercial fish wheel salmon harvest by period, 1993	22
52. District 6, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	23
53. District 6, commercial set gillnet salmon harvest by period, 1993	23
54. District 6, commercial fish wheel salmon harvest by period, 1993	23
55. Subdistrict 6-A, Statistical Area 033461, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	24
56. Subdistrict 6-A, Statistical Area 033461, commercial set gillnet salmon harvest by period, 1993	24
57. Subdistrict 6-A, Statistical Area 033461, commercial fish wheel salmon harvest by period, 1993	24
58. Subdistrict 6-B, Statistical Area 033462, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	25
59. Subdistrict 6-B, Statistical Area 033462, commercial set gillnet salmon harvest by period, 1993	25
60. Subdistrict 6-B, Statistical Area 033462, commercial fish wheel salmon harvest by period, 1993	25
61. Subdistrict 6-C, Statistical Area 033463, commercial set gillnet and fish wheel combined salmon harvest by period, 1993	26
62. Subdistrict 6-C, Statistical Area 033463, commercial set gillnet salmon harvest by period, 1993	26
63. Subdistrict 6-C, Statistical Area 033463, commercial fish wheel salmon harvest by period, 1993	26
64. Preliminary salmon harvest, Upper Yukon Area, 1993	27
65. Preliminary commercial chinook salmon harvest, Subdistrict 4-A, Statistical Area 334-44, 334-45 and 334-46, Upper Yukon Area, 1993	28
66. Preliminary commercial summer chum salmon harvest, Subdistrict 4-A, Statistical Area 334-44, 334-45 and 334-46, Upper Yukon Area, 1993	29

<u>Table</u>	<u>Page</u>
67. Preliminary commercial chinook salmon harvest, early season, Subdistrict 4-B and 4-C, Statistical Area 334-42 and 334-43, Upper Yukon Area, 1993	30
68. Preliminary commercial summer chum salmon harvest, early season, Subdistrict 4-B and 4-C, Statistical Area 334-42 and 334-43, Upper Yukon Area, 1993	31
69. Preliminary commercial salmon harvest, late season, Subdistrict 4-B and 4-C, Statistical Area 334-42 and 334-43, Upper Yukon Area, 1993	32
70. Preliminary commercial salmon harvest, early season, Subdistrict 5-A, 5-B and 5-C, Upper Yukon Area, 1993	32
71. Preliminary commercial salmon harvest, late season, Subdistrict 5-A, 5-B and 5-C, Upper Yukon Area, 1993	32
72. Preliminary commercial salmon harvest, early season, Subdistrict 5-D, Upper Yukon Area, 1993	33
73. Preliminary commercial salmon harvest, late season, Subdistrict 5-D, Upper Yukon Area, 1993	33
74. Preliminary commercial salmon harvest, early season, District 6, Upper Yukon Area, 1993	33
75. Preliminary commercial salmon harvest, late season, District 6, Upper Yukon Area, 1993	33
76. Upper Yukon Management Area commercial whitefish sales, all districts, by day, 1993	34
77. District 4, commercial whitefish harvest by period, 1993	34
78. District 5, commercial whitefish harvest by period, 1993	34
79. District 6, commercial whitefish harvest by period, 1993	34
80. Upper Yukon Management Area, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993 Chinook salmon under 21 inches are those reported as "jacks" by fishermen and buyers	35
81. District 4, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21 inches are those reported as "jacks" by fishermen and buyers	35

<u>Table</u>	<u>Page</u>
82. District 5, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21 inches are those reported as "jacks" by fishermen and buyers	35
83. District 6, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21 inches are those reported as "jacks" by fishermen and buyers	35
84. Value paid to Upper Yukon Area commercial fishermen for salmon, salmon roe and whitefish delivered, 1993	36

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1. Yukon River Fisheries Management Area, 1993	37
2. District 4, Upper Yukon Management Area showing Statistical Areas, 1993	38
3. District 5, Upper Yukon Management Area showing Statistical Areas, 1993	39
4. District 6, Upper Yukon Management Area showing Statistical Areas, 1993	40

ABSTRACT

This report provides catch and effort statistics for the 1993 commercial salmon fisheries in the Upper Yukon Management Area. The data base is derived from fish ticket reports of salmon and salmon roe sales, and organized using a data base software package provided by the Computer Services section of the Division of Commercial Fisheries. The program's fish ticket reporting subsystem created the summary tables which were imported into Lotus 123W for final editing. A total of 123 fishermen participated in the Upper Yukon Area early season salmon fishery in 1993. There was no late season salmon fishery due to the poor return of fall chum salmon in 1993. Upper Yukon fishermen sold 8,538 salmon in 1993. Catch by species included 5,470 chinook and 3,068 chum salmon. Additionally, a total of 24,976 pounds of salmon roe were also sold by upper Yukon fishermen in 1993. Roe by species included 2,014 pounds of chinook salmon roe and 22,962 pounds of chum salmon roe. All fish caught in the Department's test fish wheel programs in 1993 were not sold and were kept as subsistence caught fish by the operator or released from live boxes. A total of 1,877 chinook and 14 chum salmon were taken during commercial openings but not sold. Processor and commercial fishermen's compliance for reporting salmon taken during commercial openings for subsistence use has been poor during the last two years that this requirement has been in effect.

KEY WORDS: Upper Yukon Management Area, salmon, roe, catch, landing, effort

INTRODUCTION

The Upper Yukon area is that portion of the Yukon River drainage upstream of Old Paradise Village to the United States and Canada border, including the Tanana River drainage (Figure 1). The Upper Yukon area consists of three management districts and 13 statistical areas which correspond to the local geography and distribution of the species of salmon harvested by the commercial fishery (Figures 2 through 4). The management objective for all districts is the achievement of desired escapement goals for major species while also allowing for the orderly harvest of all fish surplus to spawning requirements. Legal gear for the salmon fishery includes set gillnets and fish wheels.

METHODS

A fish ticket is generated each time a commercial fisherman sells his or her catch in the Upper Yukon Management Area. Fishermen are required to have a current Commercial Fisheries Entry Commission (CFEC) salmon permit to participate in the fishery. These limited entry permit cards are used to validate the sale on the fish ticket. These tickets are legal documents and are required by regulation. The Fairbanks office of the Alaska Department of Fish and Game receives the fish tickets from the buyers once a week where they are entered into the Fish Ticket System.

The Fish Ticket System designed by Commercial Fisheries Computer Services, is a system which includes programs for:

- (1) entry of commercial fisheries fish ticket data,
- (2) correction of fish tickets records,
- (3) transfer of fish tickets to central the state database,
- (4) providing reports on data to area office and regional staff,
- (5) various utilities to help accomplish the above and to maintain the database efficiently.

Computer Services provides an Operators Manual which describes the functions of the components of the system (ADF&G 1986).

There are two main goals to the Fish Ticket System, to provide access to the fish ticket data at the Fairbanks office, and to provide error-free transfer of data to Divisional Headquarters for inclusion in the Statewide database.

Once the fish ticket reaches the Fairbanks office, there is a logical flow of data. Department staff edits, batches, and keys into the computer the fish ticket. In support of these activities, edit tables and verification reports are maintained.

RESULTS

Salmon Sold in the Round

The Upper Yukon Management Area fishermen sold 5,470 chinook and 3,068 chum salmon in the round in 1993 (Table 1). Set gillnet fishermen sold 1,710 chinook and 409 chum salmon in the round (Table 2) while fish wheel fishermen sold 3,760 chinook and 2,659 chum salmon in the round (Table 3). Tables 7 through 27 and 31 through 63 break down the sale of salmon in the round by district or subdistrict, statistical area, and by period. Tables 4 through 6 provide the daily sales of salmon in District 4. Tables 28 through 30 provide the daily sales of salmon in District 5. District 4 fishermen sold 1,349 chinook and 27 chum salmon in the round in 1993 (Table 4). Set gillnet fishermen in District 4 sold 298 chinook and 0 chum salmon in the round (Table 5) while fish wheel fishermen in District 4 sold 1,051 chinook and 27 chum salmon in the round (Table 6). District 5 fishermen sold 3,008 chinook and 0 chum salmon in the round in 1993 (Table 28). Set gillnet fishermen in District 5 sold 1,388 chinook and 0 chum salmon in the round (Table 29) while fish wheel fishermen in District 5 sold 1,620 chinook and 0 chum salmon in the round (Table 30). The Alaska Department of Fish and Game test fish program in District 5 and 6 did not sell any salmon.

Salmon Roe Production

The Upper Yukon Management Area fishermen sold 2,014 pounds of chinook and 22,962 pounds of chum salmon roe in 1993 (Table 1). Set gillnet fishermen sold 76 pounds of chinook and 6,161 pounds of chum salmon roe (Table 2) while fish wheel fishermen sold 1,938 pounds of chinook and 16,801 pounds of chum salmon roe (Table 3). Tables 7 through 27 and Tables 31 through 63 break down the salmon roe production by district or subdistrict, statistical area, and by period. District 4 fishermen sold 701 pounds of chinook and 22,447 pounds of chum salmon roe in 1993 (Table 4). Set gillnet fishermen in District 4 sold 76 pounds of chinook and 6,161 pounds of chum salmon roe (Table 5) while fish wheel fishermen in District 4 sold 625 pounds of chinook and 16,286 pounds of chum salmon roe (Table 6). District 5 fishermen sold 0 pounds of chinook and 0 pounds of chum salmon roe in 1993 (Table 28).

Total Estimated Salmon Harvest

It is estimated that a total of 6,030 chinook, 46,662 summer (early) chum, and 0 fall (late) chum, and 0 coho salmon were harvested by 123 Upper Yukon area fishermen to account for both salmon in the round and roe sales in 1993 (Table 64). Tables 65 through 69 break down the estimate harvest in District 4 by subdistrict, by period, statistical area, and by gear. Tables 70 through 75 break down the estimated harvest in Districts 5 and 6 by district or subdistrict, and by period. Additionally, these tables also provide effort information.

A new feature of the 1991 Fish Ticket Program (version 7.2) and the 1993 (version 8.0) is that unlike prior versions it does separate salmon roe by species. Roe production was separated by species in Tables 1 through 63. Some Upper Yukon area fish tickets received in 1993 did not indicate roe production by species. When no species was indicated on the fish ticket during roe sales, chum salmon was assumed.

Whitefish sold in the Round

The commercial sale of whitefish occurred incidentally during Upper Yukon Area commercial salmon fishing periods. CFEC salmon permit holders are not required to have special permit authorization to sell freshwater species of fish if they are taken incidentally while commercial salmon fishing. The Upper Yukon Management Area fishermen sold an estimated 199 whitefish in the round in 1993 and are reported in Tables 76 through 79. District 4 fishermen sold 0 in the round (Table 77). District 5 fishermen sold 59 whitefish in the round at 48 pounds (Table 78). District 6 fishermen sold 140 whitefish in the round at 300 pounds (Table 79). In 1993 three Freshwater Commercial Fishery applications were reviewed and issued, but the harvest figures are not available to include in this report.

Value to the Fishermen

The 1993 Upper Yukon area commercial fishermen received \$317,147 for salmon, salmon roe, and whitefish delivered (Table 84). The average income per commercial fisherman was \$2,578 for salmon, salmon roe and whitefish delivered in 1993. These values indicate the prices paid at the time of sell and do not include any retroactive payments. Processors commonly pay their fishermen the highest price of their competitors at the end of a fishing period.

Salmon Not Sold

A new regulation in 1993 required buyers to put prices on the fish tickets in 1993. Buyers were also required to ask the commercial fishermen, at the time of purchasing each delivery's daily catch, how many fish out of the commercial catch were not sold and were retained for subsistence use in 1992 and 1993. A new delivery code was used to enter these fish not sold in the 1993 fish ticket program. Tables 80 through 83 summarize chinook salmon over 21 inches, chinook salmon under 21 inches, total chinook salmon, and chum salmon reported as not sold. Chinook salmon under 21 inches are those typically reported as "jacks" by fishermen and buyers. In the Upper Yukon Management Area, fishermen reported not selling a total of 1,877 chinook and 14 chum salmon (Table 80). District 4 fishermen reported not selling a total of 94 chinook and 0 chum salmon. Additionally, Subdistrict 4-A is required to report the numbers of fish killed to produce the roe sold, and this information is also presented in Table 81. A total of 24,033 summer chum salmon were reported to produce the roe sold (these salmon include females gutted for roe and males killed). District 5 fishermen reported not selling a total of 746 chinook salmon and 9 chum salmon (Table 82). District 6 fishermen reported not selling a total of 1,037 chinook salmon and 5 chum salmon (Table 83).

The department recognizes that there is poor processor and fishermen compliance in reporting subsistence fish on commercial fish tickets. The department will continue to educate and encourage both processors and fishermen to report salmon caught commercially but retained for subsistence use. When using the following tables, be aware there is an unknown degree of error associated with the location and catch as reported on fish tickets.

LITERATURE CITED

ADF&G (Alaska Department of Fish and Game). 1986. Fishticket System Operator Manual.
ADF&G, Computer Services, Juneau.

Table 1. Upper Yukon Management Area commercial salmon sales, all districts and gears combined, by day, 1993.

SET GILLNET AND FISH WHEEL COMBINED
UPPER YUKON AREA

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
06/28	14	272	3,782	62	0	0	80
07/01	19	520	7,296	176	0	0	199
07/02	13	127	2,222	11	0	0	150
07/03	25	970	20,125	9	0	0	0
07/04	9	295	6,436	0	0	0	0
07/05	18	285	5,026	245	0	0	609
07/06	14	178	2,653	92	27	189	517
07/07	24	1,310	26,470	0	0	0	0
07/10	3	138	4,163	0	0	0	0
07/11	26	9	192	0	0	0	5,300
07/12	31	12	133	0	0	0	3,642
07/13	10	368	5,135	464	424	2,544	73
07/14	38	520	8,356	416	504	3,024	4,864
07/15	55	19	318	106	0	0	7,232
07/19	2	150	666	0	0	0	0
07/20	12	197	2,322	285	1,165	9,406	200
07/21	13	100	1,214	148	948	6,872	96
TOTAL	123	5,470	96,509	2,014	3,068	22,035	22,962
AVERAGE WEIGHT			17.64			7.18	

Table 2. Upper Yukon Management Area commercial set gillnet salmon sales, all districts, by day, 1993.

SET GILLNET
UPPER YUKON AREA

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
06/28	3	57	1,204	11	0	0	9
07/01	2	110	2,143	0	0	0	12
07/02	2	41	649	0	0	0	0
07/03	15	576	12,573	0	0	0	0
07/04	6	159	3,414	0	0	0	0
07/05	3	34	850	51	0	0	0
07/06	2	32	645	0	0	0	6
07/07	13	640	13,690	0	0	0	0
07/10	1	3	63	0	0	0	0
07/11	9	9	192	0	0	0	2,311
07/12	4	0	0	0	0	0	326
07/13	1	8	152	0	89	534	0
07/14	9	18	385	0	113	678	1,757
07/15	9	11	218	14	0	0	1,740
07/20	2	10	152	0	104	624	0
07/21	2	2	20	0	103	618	0
TOTAL	35	1,710	36,350	76	409	2,454	6,161
AVERAGE WEIGHT			21.26			6.00	

Table 3. Upper Yukon Management Area commercial fish wheel salmon sales, all districts by day, 1993.

FISH WHEEL
UPPER YUKON AREA

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
06/28	11	215	2,578	51	0	0	71
07/01	17	410	5,153	176	0	0	187
07/02	11	86	1,573	11	0	0	150
07/03	10	394	7,552	9	0	0	0
07/04	3	136	3,022	0	0	0	0
07/05	15	251	4,176	194	0	0	609
07/06	12	146	2,008	92	27	189	511
07/07	11	670	12,780	0	0	0	0
07/10	2	135	4,100	0	0	0	0
07/11	17	0	0	0	0	0	2,989
07/12	27	12	133	0	0	0	3,316
07/13	9	360	4,983	464	335	2,010	73
07/14	29	502	7,971	416	391	2,346	3,107
07/15	46	8	100	92	0	0	5,492
07/19	2	150	666	0	0	0	0
07/20	10	187	2,170	285	1,061	8,782	200
07/21	11	98	1,194	148	845	6,254	96
TOTAL	88	3,760	60,159	1,938	2,659	19,581	16,801
<i>AVERAGE WEIGHT</i>			<i>16.00</i>			<i>7.36</i>	

Table 4. Upper Yukon Management Area commercial set gillnet and fish wheel salmon sales, combined harvest in District 4, by day, 1993.

SET GILLNET AND FISH WHEEL COMBINED
DISTRICT 4

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
06/28	14	272	3,782	62	0	0	80
07/01	19	520	7,296	176	0	0	199
07/02	12	70	1,230	11	0	0	150
07/03	1	0	0	9	0	0	0
07/04	1	24	380	0	0	0	0
07/05	18	285	5,026	245	0	0	609
07/06	14	178	2,653	92	27	189	517
07/11	25	0	0	0	0	0	5,300
07/12	30	0	0	0	0	0	3,642
07/14	24	0	0	0	0	0	4,718
07/15	53	0	0	106	0	0	7,232
TOTAL	75	1,349	20,367	701	27	189	22,447
<i>AVERAGE WEIGHT</i>			<i>15.10</i>			<i>7.00</i>	

Table 5. Upper Yukon Management Area commercial set gillnet salmon sales, District 4, by day, 1993.

SET GILLNET
DISTRICT 4

DATE	CHINOOK SALMON				CHUM SALMON		
	PERMITS	NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
06/28	3	57	1,204	11	0	0	9
07/01	2	110	2,143	0	0	0	12
07/02	2	41	649	0	0	0	0
07/04	1	24	380	0	0	0	0
07/05	3	34	850	51	0	0	0
07/06	2	32	645	0	0	0	6
07/11	8	0	0	0	0	0	2,311
07/12	4	0	0	0	0	0	326
07/14	7	0	0	0	0	0	1,757
07/15	8	0	0	14	0	0	1,740
TOTAL	15	298	5,871	76	0	0	6,161
AVERAGE WEIGHT			19.7				

Table 6. Upper Yukon Management Area commercial fish wheel salmon sales, District 4, by day, 1993.

FISH WHEEL
DISTRICT 4

DATE	CHINOOK SALMON				CHUM SALMON		
	PERMITS	NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
06/28	11	215	2,578	51	0	0	71
07/01	17	410	5,153	176	0	0	187
07/02	10	29	581	11	0	0	150
07/03	1	0	0	9	0	0	0
07/05	15	251	4,176	194	0	0	609
07/06	12	146	2,008	92	27	189	511
07/11	17	0	0	0	0	0	2,989
07/12	26	0	0	0	0	0	3,316
07/14	17	0	0	0	0	0	2,961
07/15	45	0	0	92	0	0	5,492
TOTAL	60	1,051	14,496	625	27	189	16,286
AVERAGE WEIGHT			13.79			7.00	

Table 7. Subdistrict 4-A, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 4-A

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	51	0	0	0	0	0	0	0	8,942
2	52	0	0	0	0	0	0	0	11,543
TOTAL	53	0	0	0	0	0	0	0	20,485

Table 8. Subdistrict 4-A, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 4-A

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	11	0	0	0	0	0	0	0	2,637
2	11	0	0	0	0	0	0	0	3,480
TOTAL	12	0	0	0	0	0	0	0	6,117

Table 9. Subdistrict 4-A, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 4-A

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	40	0	0	0	0	0	0	0	6,305
2	41	0	0	0	0	0	0	0	8,063
TOTAL	41	0	0	0	0	0	0	0	14,368

Table 10. Subdistrict 4-A, Statistical Area 033444, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 4-A
 STATISTICAL AREA 033444

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	9	0	0	0	0	0	0	0	2,543
2	9	0	0	0	0	0	0	0	3,691
TOTAL	9	0	0	0	0	0	0	0	6,234

Table 11. Subdistrict 4-A, Statistical Area 033444, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 4-A
 STATISTICAL AREA 033444

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	6	0	0	0	0	0	0	0	1,798
2	6	0	0	0	0	0	0	0	2,467
TOTAL	6	0	0	0	0	0	0	0	4,265

Table 12. Subdistrict 4-A, Statistical Area 033444, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 4-A
 STATISTICAL AREA 033444

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	3	0	0	0	0	0	0	0	745
2	3	0	0	0	0	0	0	0	1,224
TOTAL	3	0	0	0	0	0	0	0	1,969

Table 13. Subdistrict 4-A, Statistical Area 033445, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 4-A
 STATISTICAL AREA 033445

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	12	0	0	0	0	0	0	0	2,508
1	13	0	0	0	0	0	0	0	3,573
TOTAL	14	0	0	0	0	0	0	0	6,081

Table 14. Subdistrict 4-A, Statistical Area 033445, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 4-A
 STATISTICAL AREA 033445

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	3	0	0	0	0	0	0	0	806
2	3	0	0	0	0	0	0	0	900
TOTAL	4	0	0	0	0	0	0	0	1,706

Table 15. Subdistrict 4-A, Statistical Area 033445, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 4-A
 STATISTICAL AREA 033445

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	9	0	0	0	0	0	0	0	1,702
2	10	0	0	0	0	0	0	0	2,673
TOTAL	10	0	0	0	0	0	0	0	4,375

Table 16. Subdistrict 4-A, Statistical Area 033446, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 4-A
 STATISTICAL AREA 033446

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	30	0	0	0	0	0	0	0	3,891
2	30	0	0	0	0	0	0	0	4,279
TOTAL	30	0	0	0	0	0	0	0	8,170

Table 17. Subdistrict 4-A, Statistical Area 033446, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 4-A
 STATISTICAL AREA 033446

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	2	0	0	0	0	0	0	0	33
2	2	0	0	0	0	0	0	0	113
TOTAL	2	0	0	0	0	0	0	0	146

Table 18. Subdistrict 4-A, Statistical Area 033446, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 4-A
 STATISTICAL AREA 033446

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	28	0	0	0	0	0	0	0	3,858
2	28	0	0	0	0	0	0	0	4,166
TOTAL	28	0	0	0	0	0	0	0	8,024

Table 19. Subdistrict 4-B and 4-C combined, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 4-B AND 4-C COMBINED

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	14	272	3,782	13.90	62	0	0	0	80
2	20	590	8,526	14.45	196	0	0	0	349
3	20	487	8,059	16.54	337	27	189	7.00	1,126
4	15	0	0	0.00	106	0	0	0	407
TOTAL	23	1,349	20,367	15.09	701	27	189	7.00	1,962

Table 20. Subdistrict 4-B and 4-C combined, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 4-B AND 4-C COMBINED

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	3	57	1,204	21.12	11	0	0	0	9
2	2	151	2,792	18.49	0	0	0	0	12
3	3	90	1,875	20.83	51	0	0	0	6
4	1	0	0	0.00	14	0	0	0	17
TOTAL	3	298	5,871	19.70	76	0	0	0	44

Table 21. Subdistrict 4-B and 4-C combined, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 4-B AND 4-C COMBINED

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	11	215	2,578	11.99	51	0	0	0	71
2	18	439	5,734	13.13	196	0	0	0	337
3	17	397	6,184	15.35	286	27	189	7.00	1,120
4	14	0	0	0.00	92	0	0	0	390
TOTAL	20	1,051	14,496	13.79	625	27	189	7.00	1,918

Table 22. Subdistrict 4-B, Statistical Area 033442, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 4-B
 STATISTICAL AREA 033442

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	7	23	464	20.17	0	0	0	0	80
2	12	88	1,336	15.18	87	0	0	0	335
3	11	79	1,580	20.00	150	0	0	0	1,091
4	11	0	0	0.00	42	0	0	0	345
TOTAL	14	190	3,380	17.78	279	0	0	0	1,851

Table 23. Subdistrict 4-B, Statistical Area 033442, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 4-B
 STATISTICAL AREA 033442

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	2	23	464	20.17	0	0	0	0	9
2	1	46	560	12.17	0	0	0	0	0
3	2	36	603	16.75	51	0	0	0	6
4	1	0	0	0.00	14	0	0	0	17
TOTAL	2	105	1,627	15.49	65	0	0	0	32

Table 24. Subdistrict 4-B, Statistical Area 033442, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 4-B
 STATISTICAL AREA 033442

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	5	0	0	0.00	0	0	0	0	71
2	11	42	776	18.47	87	0	0	0	335
3	9	43	977	22.72	99	0	0	0	1,085
4	10	0	0	0.00	28	0	0	0	328
TOTAL	12	85	1,753	20.62	214	0	0	0	1,819

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 4-C
 STATISTICAL AREA 033443

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	7	249	3,318	13.32	62	0	0	0	0
2	8	502	7,190	14.32	109	0	0	0	14
3	9	408	6,479	15.87	187	27	189	7.00	35
4	4	0	0	0.00	64	0	0	0	62
TOTAL	9	1,159	16,987	14.65	422	27	189	7.00	111

Table 26. Subdistrict 4-C, Statistical Area 033443, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 4-C
 STATISTICAL AREA 033443

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	1	34	740	21.76	11	0	0	0	0
2	1	105	2,232	21.25	0	0	0	0	12
3	1	54	1,272	23.55	0	0	0	0	0
4	0	0	0	0.00	0	0	0	0	0
TOTAL	1	193	4,244	21.98	11	0	0	0	12

Table 27. Subdistrict 4-C, Statistical Area 033443, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 4-C
 STATISTICAL AREA 033443

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	6	215	2,578	11.99	51	0	0	0	0
2	7	397	4,958	12.48	109	0	0	0	2
3	8	354	5,207	14.70	187	27	189	7.00	35
4	4	0	0	0.00	64	0	0	0	62
TOTAL	8	966	12,743	13.19	411	27	189	7.00	99

Table 28. Upper Yukon Management Area commercial set gillnet and fish wheel salmon sales, combined harvest in District 5, by day, 1993.

SET GILLNET AND FISH WHEEL COMBINED
DISTRICT 5

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
07/02	1	57	992	0	0	0	0
07/03	24	970	20,125	0	0	0	0
07/04	8	271	6,056	0	0	0	0
07/07	24	1,310	26,470	0	0	0	0
07/10	3	138	4,163	0	0	0	0
07/11	1	9	192	0	0	0	0
07/14	2	234	4,708	0	0	0	0
07/15	2	19	318	0	0	0	0
TOTAL	30	3,008	63,024	0	0	0	0
AVERAGE WEIGHT			20.95				

Table 29. Upper Yukon Management Area commercial set gillnet salmon sales, in District 5, by day, 1993.

SET GILLNET
DISTRICT 5

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
07/03	15	576	12,573	0	0	0	0
07/04	5	135	3,034	0	0	0	0
07/07	13	640	13,690	0	0	0	0
07/10	1	3	63	0	0	0	0
07/11	1	9	192	0	0	0	0
07/14	1	14	308	0	0	0	0
07/15	1	11	218	0	0	0	0
TOTAL	17	1,388	30,078	0	0	0	0
AVERAGE WEIGHT			21.67				

Table 30. Upper Yukon Management Area commercial fish wheel salmon sales, in District 5, by day, 1993.

FISH WHEEL
DISTRICT 5

DATE	PERMITS	CHINOOK SALMON			CHUM SALMON		
		NUMBER	POUNDS	POUNDS OF ROE	NUMBER	POUNDS	POUNDS OF ROE
07/02	1	57	992	0	0	0	0
07/03	9	394	7,552	0	0	0	0
07/04	3	136	3,022	0	0	0	0
07/07	11	670	12,780	0	0	0	0
07/10	2	135	4,100	0	0	0	0
07/14	1	220	4,400	0	0	0	0
07/15	1	8	100	0	0	0	0
TOTAL	13	1,620	32,946	0	0	0	0
AVERAGE WEIGHT			20.34				

Table 31. Subdistrict 5-A, 5-B, and 5-C combined, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 5-A, 5-B, and 5-C COMBINED

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	26	1,298	27,173	20.93	0	0	0	0	0
2	24	1,310	26,470	20.2	0	0	0	0	0
TOTAL	27	2,608	53,643	20.56	0	0	0	0	0

Table 32. Subdistrict 5-A, 5-B, and 5-C combined, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 5-A, 5-B, and 5-C COMBINED

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	16	711	15,607	21.95	0	0	0	0	0
2	13	640	13,690	21.39	0	0	0	0	0
TOTAL	16	1,351	29,297	21.68	0	0	0	0	0

Table 33. Subdistrict 5-A, 5-B, and 5-C combined, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 5-A, 5-B, and 5-C COMBINED

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	10	587	11,566	19.7	0	0	0	0	0
2	11	670	12,780	19.07	0	0	0	0	0
TOTAL	11	1,257	24,346	19.36	0	0	0	0	0

Table 34. Subdistrict 5-A, Statistical Area 033451, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 5-A
 STATISTICAL AREA 033451

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Table 35. Subdistrict 5-A, Statistical Area 033451, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 5-A
 STATISTICAL AREA 033451

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Table 36. Subdistrict 5-A, Statistical Area 033451, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 5-A
 STATISTICAL AREA 033451

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Table 37. Subdistrict 5-B, Statistical Area 033452, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 5-B
 STATISTICAL AREA 033452

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	10	507	10,209	20.13	0	0	0	0	0
2	9	617	11,621	18.83	0	0	0	0	0
TOTAL	11	1,124	21,830	19.42	0	0	0	0	0

Table 38. Subdistrict 5-B, Statistical Area 033452, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 5-B
 STATISTICAL AREA 033452

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	6	323	6,886	21.31	0	0	0	0	0
2	4	273	5,702	20.88	0	0	0	0	0
TOTAL	6	596	12,588	21.12	0	0	0	0	0

Table 39. Subdistrict 5-B, Statistical Area 033452, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 5-B
 STATISTICAL AREA 033452

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	4	184	3,323	18.05	0	0	0	0	0
2	5	344	5,919	17.20	0	0	0	0	0
TOTAL	5	528	9,242	17.50	0	0	0	0	0

Table 40. Subdistrict 5-C, Statistical Area 033453, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 5-C
 STATISTICAL AREA 033453

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	16	791	16,964	21.44	0	0	0	0	0
2	15	693	14,849	21.42	0	0	0	0	0
TOTAL	16	1,484	31,813	21.43	0	0	0	0	0

Table 41. Subdistrict 5-C, Statistical Area 033453, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 5-C
 STATISTICAL AREA 033453

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	10	388	8,721	22.47	0	0	0	0	0
2	9	367	7,988	21.76	0	0	0	0	0
TOTAL	10	755	16,709	22.13	0	0	0	0	0

Table 42. Subdistrict 5-C, Statistical Area 033453, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 5-C
 STATISTICAL AREA 033453

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	6	403	8,243	20.45	0	0	0	0	0
2	6	326	6,861	21.04	0	0	0	0	0
TOTAL	6	729	15,104	20.71	0	0	0	0	0

Table 43. Subdistrict 5-D, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 5-D

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	3	147	4,355	29.62	0	0	0	0	0
2	3	253	5,026	19.86	0	0	0	0	0
TOTAL	3	400	9,381	23.45	0	0	0	0	0

Table 44. Subdistrict 5-D, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 5-D

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	1	12	255	21.25	0	0	0	0	0
2	1	25	526	21.04	0	0	0	0	0
TOTAL	1	37	781	21.10	0	0	0	0	0

Table 45. Subdistrict 5-D, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 5-D

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	2	135	4,100	30.37	0	0	0	0	0
2	2	228	4,500	19.73	0	0	0	0	0
TOTAL	2	363	8,600	23.69	0	0	0	0	0

Table 46. Subdistrict 5-D, Statistical Area 033454, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 5-D
STATISTICAL AREA 033454

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Table 47. Subdistrict 5-D, Statistical Area 033454, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 5-D
STATISTICAL AREA 033454

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Table 48. Subdistrict 5-D, Statistical Area 033454, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 5-D
STATISTICAL AREA 033454

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Table 49. Subdistrict 5-D, Statistical Area 033455, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 5-D
STATISTICAL AREA 033455

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	3	147	4,355	29.62	0	0	0	0	0
2	3	253	5,026	19.86	0	0	0	0	0
TOTAL	3	400	9,381	23.45	0	0	0	0	0

Table 50. Subdistrict 5-D, Statistical Area 033455, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 5-D
STATISTICAL AREA 033455

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	1	12	255	21.25	0	0	0	0	0
2	1	25	526	21.04	0	0	0	0	0
TOTAL	1	37	781	21.10	0	0	0	0	0

Table 51. Subdistrict 5-D, Statistical Area 033455, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 5-D
STATISTICAL AREA 033455

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	2	135	4,100	30.37	0	0	0	0	0
2	2	228	4,500	19.73	0	0	0	0	0
TOTAL	2	363	8,600	23.69	0	0	0	0	0

Table 52. District 6, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
DISTRICT 6

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	14	666	8,916	13.38	880	928	5,568	6.00	219
2	16	447	4,202	9.40	433	2,113	16,278	7.70	296
TOTAL	18	1,113	13,118	11.78	1,313	3,041	21,846	7.18	515

Table 53. District 6, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
DISTRICT 6

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	1	12	229	19.08	0	202	1,212	6.00	0
2	3	12	172	14.33	0	207	1,242	6.00	0
TOTAL	3	24	401	16.70	0	409	2,454	6.00	0

Table 54. District 6, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
DISTRICT 6

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	13	654	8,687	13.28	880	726	4,356	6.00	219
2	13	435	4,030	9.26	433	1,906	15,036	7.88	296
TOTAL	15	1,089	12,717	11.67	1,313	2,632	19,392	7.36	515

Table 55. Subdistrict 6-A, Statistical Area 033461, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 6-A
 STATISTICAL AREA 033461

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	2	23	384	16.69	0	476	2,856	6.00	0
2	3	34	478	14.05	0	680	4,080	6.00	0
TOTAL	3	57	862	15.12	0	1,156	6,936	6.00	0

Table 56. Subdistrict 6-A, Statistical Area 033461, commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 6-A
 STATISTICAL AREA 033461

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	1	12	229	19.08	0	202	1,212	6.00	0
2	1	9	143	15.88	0	194	1,164	6.00	0
TOTAL	1	21	372	17.71	0	396	2,376	6.00	0

Table 57. Subdistrict 6-A, Statistical Area 033461, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 6-A
 STATISTICAL AREA 033461

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	1	11	155	14.09	0	274	1,644	6.00	0
2	2	25	335	13.40	0	486	2,916	6.00	0
TOTAL	2	36	490	13.61	0	760	4,560	6.00	0

Table 58. Subdistrict 6-B, Statistical Area 033462, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
SUBDISTRICT 6-B
STATISTICAL AREA 033462

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	8	555	7,820	14.09	841	389	2,334	6.00	150
2	8	255	2,986	11.70	372	1,214	10,884	8.96	165
TOTAL	10	810	10,806	13.34	1,213	1,603	13,218	8.24	315

Table 59. Subdistrict 6-B, Statistical Area 033462 commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
SUBDISTRICT 6-B
STATISTICAL AREA 033462

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	0	0	0	0	0	0	0	0	0
2	1	1	5	5.00	0	2	12	6.00	0
TOTAL	1	1	5	5.00	0	2	12	6.00	0

Table 60. Subdistrict 6-B, Statistical Area 033462, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
SUBDISTRICT 6-B
STATISTICAL AREA 033462

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	8	555	7,820	14.09	841	389	2,334	6.00	150
2	7	254	2,981	11.73	372	1,212	10,872	8.97	165
TOTAL	9	809	10,801	13.35	1,213	1,601	13,206	8.24	315

Table 61. Subdistrict 6-C, Statistical Area 033463, commercial set gillnet and fish wheel combined salmon harvest by period, 1993.

SET GILLNET AND FISH WHEEL COMBINED
 SUBDISTRICT 6-C
 STATISTICAL AREA 033463

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	4	88	712	8.09	39	63	378	6.00	69
2	5	158	738	4.67	61	219	1,314	6.00	131
TOTAL	5	246	1,450	5.89	100	282	1,692	6.00	200

Table 62. Subdistrict 6-C, Statistical Area 033463 commercial set gillnet salmon harvest by period, 1993.

SET GILLNET
 SUBDISTRICT 6-C
 STATISTICAL AREA 033463

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	0	0	0	0	0	0	0	0	0
2	1	2	24	12.00	0	11	66	6.00	0
TOTAL	1	2	24	12.00	0	11	66	6.00	0

Table 63. Subdistrict 6-C, Statistical Area 033463, commercial fish wheel salmon harvest by period, 1993.

FISH WHEEL
 SUBDISTRICT 6-C
 STATISTICAL AREA 033463

PERIOD	PERMITS	CHINOOK SALMON				CHUM SALMON			
		NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE	NUMBER	POUNDS	AVERAGE WEIGHT	POUNDS OF ROE
1	4	88	712	8.09	39	63	378	6.00	69
2	4	156	714	4.57	61	208	1,248	6.00	131
TOTAL	4	244	1,426	5.84	100	271	1,626	6.00	200

Table 64. Preliminary salmon harvest, Upper Yukon Area, 1993. \a

District or Subdistrict	Fishermen \b			Chinook	Chum		
	Set Gillnet	Fish Wheel	Total		Summer	Fall	Coho
4-A	12	41	53	0	38,196 \c	0	0
4-B, 4-C	3	20	23	1,577	4,761 \c	0	0
<i>District 4 Subtotal</i>	<i>15</i>	<i>60</i>	<i>75</i>	<i>1,577</i>	<i>42,957</i>	<i>0</i>	<i>0</i>
5-A, 5-B, 5-C	16	11	27	2,608	0	0	0
5-D	1	2	3	400	0	0	0
<i>District 5 Subtotal</i>	<i>17</i>	<i>13</i>	<i>30</i>	<i>3,008</i>	<i>0</i>	<i>0</i>	<i>0</i>
6-A, 6-B, 6-C	3	15	18	1,445	3,705	0	0
<i>Commercial Subtotal</i>	<i>35</i>	<i>88</i>	<i>123</i>	<i>6,030</i>	<i>46,662</i>	<i>0</i>	<i>0</i>

Test Fish Projects	Fishermen			Chinook	Chum		
	Set Gillnet	Fish Wheel \d	Total		Summer	Fall	Coho
Manley Test Fish	0	1	1	0	0	0	0
Nenana Test Fish	0	1	1	-	-	0	0
North Bank Yukon @ Tanana	0	1	1	-	-	0	0
South Bank Yukon @ Tanana	0	1	1	-	-	0	0
<i>Test Fish Subtotal</i>	<i>0</i>	<i>4</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Upper Yukon Area Total	35	92	127	6,030	46,662	0	0

\a Harvest based on number of salmon sold in the round and estimated females salmon harvested to produce roe sold.

\b Fishermen are allowed to transfer within a district.

\c District 4 summer chum salmon harvest was estimated to include the number of males and females harvested to produce roe sold.

\d Test fish wheels were operated with live boxes.

Table 65. Preliminary commercial chinook salmon harvest, Subdistrict 4-A, Statistical Area 334-44, 334-45 and 334-46, Upper Yukon Area, 1993.

Period	Date	Hours Opened	Stat. Area	Gear ^{1a}	Number of Fishermen	Chinook Salmon		Chinook Expansion	
						Number	Pounds of Roe	Roe Weight ^{1b}	Estimated Harvest ^{1c}
1	7/11-7/12	12	334-44	GN	6	0	0	2.00	0
				FW	3	0	0	2.00	0
			334-45	GN	3	0	0	2.00	0
				FW	9	0	0	2.00	0
			334-46	GN	2	0	0	2.00	0
				FW	28	0	0	2.00	0
<i>Subtotal</i>					51	0	0	2.00	0
2	7/14-7/15	9	334-44	GN	6	0	0	2.00	0
				FW	3	0	0	2.00	0
			334-45	GN	3	0	0	2.00	0
				FW	10	0	0	2.00	0
			334-46	GN	2	0	0	2.00	0
				FW	28	0	0	2.00	0
<i>Subtotal</i>					52	0	0	2.00	0
Statistical Area Subtotals									
Stat. Area			334-44	GN	6	0	0		0
				FW	3	0	0		0
<i>Subtotal</i>					9	0	0		0
Stat. Area			334-45	GN	4	0	0		0
				FW	10	0	0		0
<i>Subtotal</i>					14	0	0		0
Stat. Area			334-46	GN	2	0	0		0
				FW	28	0	0		0
<i>Subtotal</i>					30	0	0		0
Subdistrict 4-A Totals				GN	12	0	0		0
				FW	41	0	0		0
TOTAL		21			53	0	0		0

^{1a} Gear code: FW = fish wheel, GN = gillnet.

^{1b} Estimated average roe weight in pounds per female used in expansion.

^{1c} Estimated harvest = fish sold in the round + estimated females harvested to produce roe sold.

Table 66. Preliminary commercial summer chum salmon harvest, Subdistrict 4-A, Statistical Area 334-44, 334-45 and 334-46, Upper Yukon Area, 1993.

Period	Date	Hours Opened	Stat. Area	Gear ^{1a}	Number of Fishermen	Summer Chum Salmon		Chum Salmon Expansion				
						Number	Pounds of Roe	Fish Sampled	Percent Females ^{1b}	Skeins Sampled	Roe Weight ^{1c}	Estimated Harvest ^{1d}
1	7/11-7/12	12	334-44	GN	6	0	1,798	0	0.63	0	0.85	3,358
				FW	3	0	745	0	0.63	0	0.85	1,391
			334-45	GN	3	0	806	0	0.63	0	0.85	1,505
				FW	9	0	1,702	0	0.63	0	0.85	3,178
			334-46	GN	2	0	33	0	0.63	0	0.85	62
				FW	28	0	3,858	0	0.63	3,846	0.85	7,204
<i>Subtotal</i>					51	0	8,942	0	0.63	3,846	0.85	16,698
2	7/14-7/15	9	334-44	GN	6	0	2,467	0	0.63	0	0.85	4,607
				FW	3	0	1,224	0	0.63	0	0.85	2,286
			334-45	GN	3	0	900	0	0.63	0	0.85	1,681
				FW	10	0	2,673	0	0.63	368	0.83	5,112
			334-46	GN	2	0	113	0	0.63	0	0.85	211
				FW	28	0	4,166	109	0.63 ^{1e}	234	0.87	7,601
<i>Subtotal</i>					52	0	11,543	109	0.63 ^{1e}	602	0.85 ^{1e}	21,498
Statistical Area Subtotals												
Stat. Area			334-44	GN	6	0	4,265	0		0		7,965
				FW	3	0	1,969	0		0		3,677
<i>Subtotal</i>					9	0	6,234	0		0		11,642
Stat. Area			334-45	GN	4	0	1,706	0		0		3,186
				FW	10	0	4,375	0		368		8,290
<i>Subtotal</i>					14	0	6,081	0		368		11,476
Stat. Area			334-46	GN	2	0	146	0		0		273
				FW	28	0	8,024	109		4,080		14,805
<i>Subtotal</i>					30	0	8,170	109		4,080		15,078
Subdistrict 4-A Totals				GN	12	0	6,117	0		0		11,424
				FW	41	0	14,368	109		4,448		26,772
TOTAL		21			53	0	20,485	109		4,448		38,196
Harvest Guideline Range:								113,000 to 338,000 Summer Chum Salmon				

^{1a} Gear code: FW = fish wheel, GN = gillnet.

^{1b} Average percent females sampled from fish wheels during periods 1 and 2. Sample size was 109.

^{1c} Average pounds of roe/female sampled from fish wheels during periods 1 and 2. 4,448 individual chum salmon skeins were sampled. Period one roe weight samples were a mix of Statistical Area 334-45 and 334-46.

^{1d} Estimated harvest = estimated males and females harvested to produce roe sold. Numbers sold in the round are assumed to be primarily males and are not added to estimated harvest to avoid double counting.

^{1e} Weighted averages of percent female and roe weights per period not used in determining estimated harvest subtotals.

Table 67. Preliminary commercial chinook salmon harvest, early season, Subdistricts 4-B and 4-C, Statistical Area 334-42 and 334-43, Upper Yukon Area, 1993.

Early Season					Chinook Salmon			Chinook Expansion		
Period	Date	Hours Opened	Stat. Area	Gear ^{\a}	Number of Fishermen	Pounds of Roe	Skeins Sampled	Roe Weight ^{\b}	Estimated Harvest ^{\c}	
1	6/27-6/28	24	334-42	GN	2	23	0	0	23	
				FW	5	0	0	0	0	
			334-43	GN	1	34	11	76	2.25	39
				FW	6	215	51	0	2.25	238
Subtotal					14	272	62	76	2.25 ^{\d}	300
2	6/30-7/02	48	334-42	GN	1	46	0	0	46	
				FW	11	42	87	19	2.50	77
			334-43	GN	1	105	0	0	0	105
				FW	7	397	109	40	2.49	441
Subtotal					20	590	196	59	2.94 ^{\d}	669
3	7/04-7/06	48	334-42	GN	2	36	51	22	40	
				FW	9	43	99	10	3.62	70
			334-43	GN	1	54	0	0	0	54
				FW	8	354	187	116	3.29	411
Subtotal					20	487	337	148	3.15 ^{\d}	575
4	7/14-7/15	24	334-42	GN	1	0	14	0	4	
				FW	10	0	28	0	3.18	9
			334-43	GN	0	0	0	0	0	0
				FW	4	0	64	30	3.18	20
Subtotal					15	0	106	30	3.18 ^{\d}	33
Statistical Area Subtotals										
Stat. Area		334-42		GN	2	105	65	22	113	
				FW	12	85	214	29	156	
Subtotal					14	190	279	51	269	
Stat. Area		334-43		GN	1	193	11	76	198	
				FW	8	966	411	186	1,110	
Subtotal					9	1,159	422	262	1,308	
Subdistricts 4-B, 4-C				GN	3	298	76	98	311	
				FW	20	1,051	625	215	1,266	
TOTAL		144			23	1,349	701	313	1,577	

Harvest Guideline Range: 2,250 to 2,850 Chinook Salmon

^{\a} Gear code: FW = fish wheel, GN = gillnet.

^{\b} Weighted average of pounds of roe/female sampled from set gillnets and fish wheels during periods 1 through 4. Individual chinook salmon skeins sampled totaled 313. Samples contain mixtures of statistical areas and gear types.

^{\c} Estimated harvest = fish sold in the round + estimated females harvested to produce roe sold.

^{\d} Weighted average of skeins sampled per period not used in determining estimated harvest subtotals.

Table 68. Preliminary commercial summer chum salmon harvest, early season, Subdistricts 4-B and 4-C, Statistical Area 334-42 and 334-43, Upper Yukon Area, 1993.

Early Season					Summer Chum			Chum Salmon Expansion					
Period	Date	Hours Opened	Stat. Area	Gear ^{1a}	Number of Fishermen	Number	Pounds of Roe	Fish Sampled	Percent Females ^{1b}	Skeins Sampled	Roe Weight ^{1c}	Estimated Harvest ^{1d}	
1	6/27-6/28	24	334-42	GN	2	0	9	0	0.53	0	0.91	19	
				FW	5	0	71	51	0.53	74	0.91	147	
				334-43	GN	1	0	0	0	0	0	0	0
					FW	6	0	0	0	0	0	0	0
<i>Subtotal</i>					14	0	80	14,522	0.53 ^{1e}	74	0.91 ^{1e}	166	
2	6/30-7/02	48	334-42	GN	1	0	0	0	0	0	0	0	
				FW	11	0	335	172	0.45	103	0.84	886	
				334-43	GN	1	0	12	0	0.48	0	0.87	29
					FW	7	0	2	14	0.79	106	0.89	3
<i>Subtotal</i>					20	0	349	186	0.48 ^{1e}	209	0.87 ^{1e}	918	
3	7/04-7/06	48	334-42	GN	2	0	6	0	0.45	0	0.94	0	
				FW	9	0	1,085	313	0.46	769	0.94	2,509	
				334-43	GN	1	0	0	0	0	0	0	0
					FW	8	27	35	21	0.38	0	0.94	125
<i>Subtotal</i>					20	27	1,126	334	0.45 ^{1e}	769	0.94 ^{1e}	2,634	
4	7/14-7/15	24	334-42	GN	1	0	17	0	0.55	0	0.71	44	
				FW	10	0	328	117	0.55	96	0.71	840	
				334-43	GN	0	0	0	0	0	0	0	0
					FW	4	0	62	0	0.55	0	0.71	159
<i>Subtotal</i>					15	0	407	117	0.55 ^{1e}	96	0.71 ^{1e}	1,043	
Statistical Area Subtotals													
Stat. Area		334-42	GN	2	0	32	0			0		63	
			FW	12	0	1,819	653			1,042		4,382	
<i>Subtotal</i>					14	0	1,851	653		1,042		4,445	
Stat. Area		334-43	GN	1	0	12	0			0		29	
			FW	8	27	99	35			106		287	
<i>Subtotal</i>					9	27	111	35		106		316	
Subdistricts 4-B, 4-C			GN	3	0	44	0			0		92	
			FW	20	27	1,918	688			1,148		4,669	
TOTAL					144								
					23	27	1,962	688		1,148		4,761	
Harvest Guideline Range:						Subdistricts 4-B and 4-C 16,000 to 47,000 Summer Chum Salmon							

^{1a} Gear code: FW = fish wheel, GN = gillnet.

^{1b} Weighted average percent females sampled from fish wheels during periods 1 through 4. Sample size was 688.

^{1c} Weighted average of pounds of roe/female sampled from set gillnets and fish wheels, during periods 1 through 4.

Individual chum salmon skeins sampled totaled 1,148. Samples contain mixtures of statistical areas and gear types.

^{1d} Estimated harvest = estimated males and females harvested to produce roe sold. Numbers sold in the round are assumed to be primarily males and are not included in the estimated harvest to avoid double counting.

^{1e} Weighted averages of percent females and roe weights per period not used in determining estimated harvest subtotals.

Table 69. Preliminary commercial salmon harvest, late season, Subdistricts 4-B and 4-C, Statistical Area 334-42 and 334-43, Upper Yukon Area, 1993.

Late Season		Coho Salmon				Coho Expansion			Fall Chum Salmon		Fall Chum Expansion			
Period	Date	Hours Opened	Stat. Area	Gear ^{1a}	Number of Fishermen	Pounds of Roe	Skeins Sampled	Roe Weight ^{1c}	Estimated Harvest ^{1d}	Number	Pounds of Roe	Skeins Sampled	Roe Weight ^{1c}	Estimated Harvest ^{1d}
NO COMMERCIAL SEASON		0	0	0	0	0	0	0	0	0	0	0	0	0

Table 70. Preliminary commercial salmon harvest, early season, Subdistricts 5-A, 5-B and 5-C, Upper Yukon Area, 1993.

Subdistricts 5-A, 5-B and 5-C EARLY SEASON

Period	Date	Hours Opened	Number of Fishermen	Chinook Salmon		Chinook Expansion			Summer Chum Salmon		Chum Salmon Expansion		
				Number	Pounds of Roe	Skeins Sampled	Roe Weight ^{1a}	Estimated Harvest ^{1b}	Number	Pounds of Roe	Skeins Sampled	Roe Weight ^{1a}	Estimated Harvest ^{1b}
1	7/02-7/04	36	26	1,298	0	99	2.01	1,298	0	0	0	-	0
2	7/06-7/07	24	24	1,310	0	112	2.21	1,310	0	0	0	-	0
TOTAL		60	27	2,608	0			2,608	0	0			0
Guideline Harvest Range:				2,400 to 2,800 Chinook					1,000 to 3,000 Summer Chum Salmon				

^{1a} Estimated average roe weight, in pounds per female, used in expansion is a weighted period average based on the commercial season sampling program.

^{1b} Estimated harvest is the number of fish sold in the round plus estimated number of females harvested to produce roe sold.

Table 71. Preliminary commercial salmon harvest, late season, Subdistricts 5-A, 5-B, and 5-C, Upper Yukon Area, 1993.

Subdistricts 5-A, 5-B and 5-C LATE SEASON

Period	Date	Hours Opened	Number of Fishermen	Coho Salmon		Coho Expansion			Fall Chum Salmon		Chum Salmon Expansion		
				Number	Pounds of Roe	Skeins Sampled	Roe Weight ^{1a}	Estimated Harvest ^{1b}	Number	Pounds of Roe	Skeins Sampled	Roe Weight ^{1a}	Estimated Harvest ^{1b}
NO COMMERCIAL SEASON		0	0	0	0	0	0	0	0	0	0	0	0

^{1a} Estimated average roe weight, in pounds per female, used in expansion is a weighted period average based on the commercial season sampling program.

^{1b} Estimated harvest is the number of fish sold in the round plus estimated number of females harvested to produce roe sold.

Table 72. Preliminary commercial salmon harvest, early season, Subdistrict 5-D, Upper Yukon Area, 1993.

Subdistricts 5-D EARLY SEASON

Period	Date	Hours Opened	Number of Fishermen	Chinook Salmon		Chinook Expansion			Summer Chum Salmon		Chum Salmon Expansion		
				Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest	Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest
1	7/09-7/11	48	3	147	0	0	-	147	0	0	0	-	0
2	7/13-7/15	36	3	253	0	0	-	253	0	0	0	-	0
TOTAL		84	3	400	0	0		400	0	0			0
Guideline Harvest Range:						300 to 500 Chinook Salmon			1,000 to 3,000 Summer Chum Salmon (District 5)				

^{1a} Estimated average roe weight in pounds per female used in expansion.

^{1b} Estimated harvest is the number of fish sold in the round plus estimated number of females harvested to produce roe sold.

Table 73. Preliminary commercial salmon harvest, late season, Subdistrict 5-D, Upper Yukon Area, 1993.

Subdistricts 5-D LATE SEASON

Period	Date	Hours Opened	Number of Fishermen	Coho Salmon		Coho Expansion			Fall Chum Salmon		Chum Salmon Expansion		
				Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest	Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest
NO COMMERCIAL SEASON				0	0	0	0	0	0	0	0	0	0
Guideline Harvest Range:						1,000 to 4,000 Fall Chum and Coho Salmon Combined							

^{1a} Estimated average roe weight in pounds per female used in expansion.

^{1b} Estimated harvest is the number of fish sold in the round plus estimated number of females harvested to produce roe sold.

Table 74. Preliminary commercial salmon harvest, early season, District 6, Upper Yukon Area, 1993.

District 6 EARLY SEASON

Period	Date	Hours Opened	Number of Fishermen	Chinook Salmon		Chinook Expansion			Summer Chum Salmon		Chum Salmon Expansion		
				Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest	Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest
1	7/12-7/14	42	14	666	880	202	3.82	896	928	219	264	0.77	1,212
2	7/19-7/21	42	16	447	433	20	4.26	549	2,113	296	244	0.78	2,492
TOTAL		84	18	1,113	1,313			1,445	3,041	515			3,705
Guideline Harvest Range:						600 to 800 Chinook Salmon			13,000 to 38,000 Summer Chum Salmon				

^{1a} Estimated average roe weight, in pounds per female, used in expansion is a weighted period average based on the commercial season sampling program.

^{1b} Estimated harvest is the number of fish sold in the round plus estimated number of females harvested to produce roe sold.

Table 75. Preliminary commercial salmon harvest, late season, District 6, Upper Yukon Area, 1993.

District 6 LATE SEASON

Period	Date	Hours Opened	Number of Fishermen	Coho Salmon		Coho Expansion			Fall Chum Salmon		Chum Salmon Expansion		
				Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest	Number	Pounds of Roe	Skeins Sampled	Roe Weight	Estimated Harvest
NO COMMERCIAL SEASON				0	0	0	0	0	0	0	0	0	0

^{1a} Estimated average roe weight, in pounds per female, used in expansion is a weighted period average based on the commercial season sampling program.

^{1b} Estimated harvest is the number of fish sold in the round plus estimated number of females harvested to produce roe sold.

Table 76. Upper Yukon Management Area
commercial whitefish sales,
all districts, by day, 1993.

DATE	PERMITS	NUMBER	POUNDS	AVERAGE WEIGHT
07/07	2	59	48	0.81
07/12	1	4	8	2.00
07/13	2	20	60	3.00
07/14	3	112	224	2.00
07/20	1	1	2	2.00
07/21	1	3	6	2.00
TOTAL	7	199	348	1.75

Table 77. District 4, commercial whitefish harvest
by period, 1993.

WHITEFISH
DISTRICT 4

PERIOD	PERMITS	NUMBER	POUNDS	AVERAGE WEIGHT
1 - 4	0	0	0	0
TOTAL	0	0	0	0

Table 78. District 5, commercial whitefish harvest
by period, 1993.

WHITEFISH
DISTRICT 5

PERIOD	PERMITS	NUMBER	POUNDS	AVERAGE WEIGHT
2	2	59	48	0.81
TOTAL	2	59	48	0.81

Table 79. District 6, commercial whitefish harvest
by period, 1993.

WHITEFISH
DISTRICT 6

PERIOD	PERMITS	NUMBER	POUNDS	AVERAGE WEIGHT
1	5	136	292	2.15
2	1	4	8	2.00
TOTAL	5	140	300	2.14

Table 80. Upper Yukon Management Area, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21" are those reported as "jacks" by fishermen and buyers.

SET GILLNET AND FISH WHEEL COMBINED
UPPER YUKON AREA

PERIOD	PERMITS	CHINOOK SALMON	CHINOOK SALMON	TOTAL CHINOOK	CHUM SALMON
		Over 21" NOT SOLD	Under 21" NOT SOLD	SALMON NOT SOLD	NOT SOLD
		NUMBER	NUMBER	NUMBER	NUMBER
1	17	231	957	1,188	12
2	21	393	267	660	2
3	3	0	29	29	0
TOTAL	28	624	1,253	1,877	14

Table 81. District 4, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21" are those reported as "jacks" by fishermen and buyers.

SET GILLNET AND FISH WHEEL COMBINED
DISTRICT 4

PERIOD	PERMITS	CHINOOK SALMON	CHINOOK SALMON	TOTAL CHINOOK	CHUM SALMON	Subdistrict 4A
		Over 21" NOT SOLD	Under 21" NOT SOLD	SALMON NOT SOLD	NOT SOLD	Chum Salmon to produce Roe Sold
		NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1	7	14	4	18	0	9,377
2	10	40	7	47	0	14,656
3	3	0	29	29	0	0
TOTAL	13	54	40	94	0	24,033

Table 82. District 5, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21" are those reported as "jacks" by fishermen and buyers.

SET GILLNET AND FISH WHEEL COMBINED
DISTRICT 5

PERIOD	PERMITS	CHINOOK SALMON	CHINOOK SALMON	TOTAL CHINOOK	CHUM SALMON
		Over 21" NOT SOLD	Under 21" NOT SOLD	SALMON NOT SOLD	NOT SOLD
		NUMBER	NUMBER	NUMBER	NUMBER
1	5	213	75	288	7
2	8	302	156	458	2
TOTAL	9	515	231	746	9

Table 83. District 6, set gillnet and fish wheel combined, salmon harvested but NOT SOLD, by commercial period, 1993. Chinook salmon under 21" are those reported as "jacks" by fishermen and buyers.

SET GILLNET AND FISH WHEEL COMBINED
DISTRICT 6

PERIOD	PERMITS	CHINOOK SALMON	CHINOOK SALMON	TOTAL CHINOOK	CHUM SALMON
		Over 21" NOT SOLD	Under 21" NOT SOLD	SALMON NOT SOLD	NOT SOLD
		NUMBER	NUMBER	NUMBER	NUMBER
1	5	4	878	882	5
2	3	51	104	155	0
TOTAL	6	55	982	1,037	5

Table 84. Preliminary values paid to Upper Yukon Area commercial fishermen for salmon, salmon roe and whitefish delivered, 1993. ^{1a}

District 4	Number	Pounds	Average Weight	Price Per Pound ^{1b}	Value
Chinook Salmon	1,348	20,355	15.10	0.77	\$15,673
Chinook Salmon under 21 In.	1	12	12	0.58	\$7
Chinook Salmon Roe		701		4.61	\$3,232
Early Chum Salmon	27	189	7.00	0.50	\$95
Early Chum Salmon Roe		22,447		8.55	\$191,922
Whitefish	0	0			\$0
<i>Subtotal</i>					\$210,929
Average Income for 75 District 4 Fishermen:				\$2,812	
District 5	Number	Pounds	Average Weight	Price Per Pound ^{1b}	Value
Chinook Salmon	3,008	63,024	20.95	1.23	\$77,520
Chinook Salmon under 21 In.	0	0			\$0
Chinook Salmon Roe		0			\$0
Early Chum Salmon	0	0			\$0
Early Chum Salmon Roe		0			\$0
Whitefish	59	48	0.81	0.25	\$12
<i>Subtotal</i>					\$77,532
Average Income for 30 District 5 Fishermen:				\$2,584	
District 6	Number	Pounds	Average Weight	Price Per Pound ^{1b}	Value
Chinook Salmon	1,037	12,738	12.28	0.69	\$8,789
Chinook Salmon under 21 In.	76	380	5	0.31	\$118
Chinook Salmon Roe		1,313		6.00	\$7,878
Early Chum Salmon	3,041	21,846	7.18	0.35	\$7,646
Early Chum Salmon Roe		515		7.96	\$4,099
Whitefish	140	300	2.14	0.52	\$156
<i>Subtotal</i>					\$28,686
Average Income for 18 District 6 Fishermen:				\$1,594	
All Districts	Number	Pounds	Average Weight	Price Per Pound ^{1b}	Value ^{1c}
Chinook Salmon	5,393	96,117	17.82	1.06	\$101,982
Chinook Salmon under 21 In.	77	392	5.09	0.31	\$125
Chinook Salmon Roe		2,014		5.52	\$11,110
Early Chum Salmon	3,068	22,035	7.18	0.35	\$7,741
Early Chum Salmon Roe		22,962		8.53	\$196,021
Whitefish	199	348	1.75	0.49	\$168
Upper Yukon Area Total					\$317,147
Average Income for 123 Upper Yukon Area Fishermen:				\$2,578	

^{1a} These values indicate the prices paid at the time of sell and do not include any retroactive payments.

^{1b} Price per pound weighted by fish ticket.

^{1c} Row and column totals may differ slightly due to rounding error.

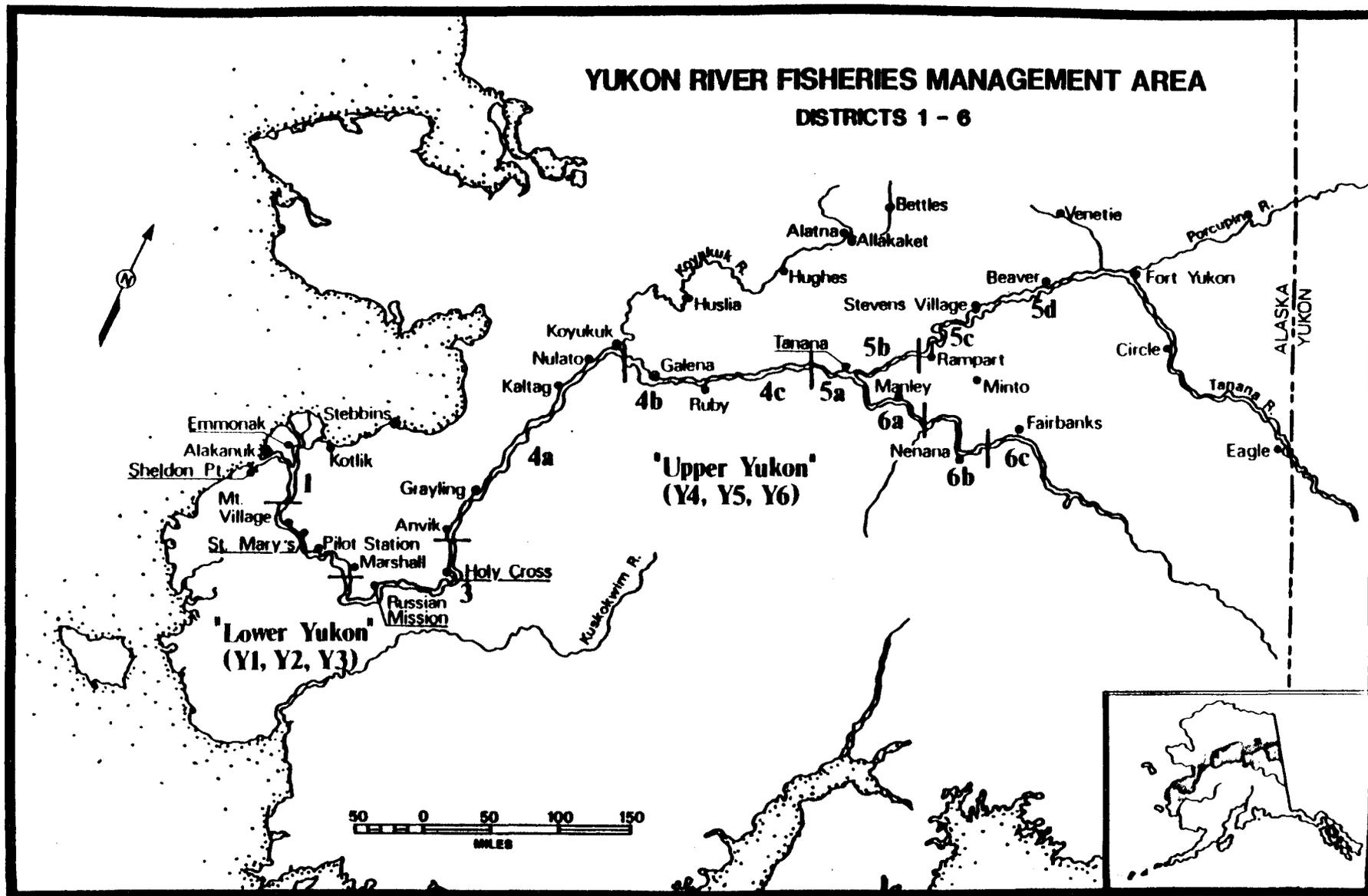


Figure 1. Yukon River Fisheries Management Area, 1993.

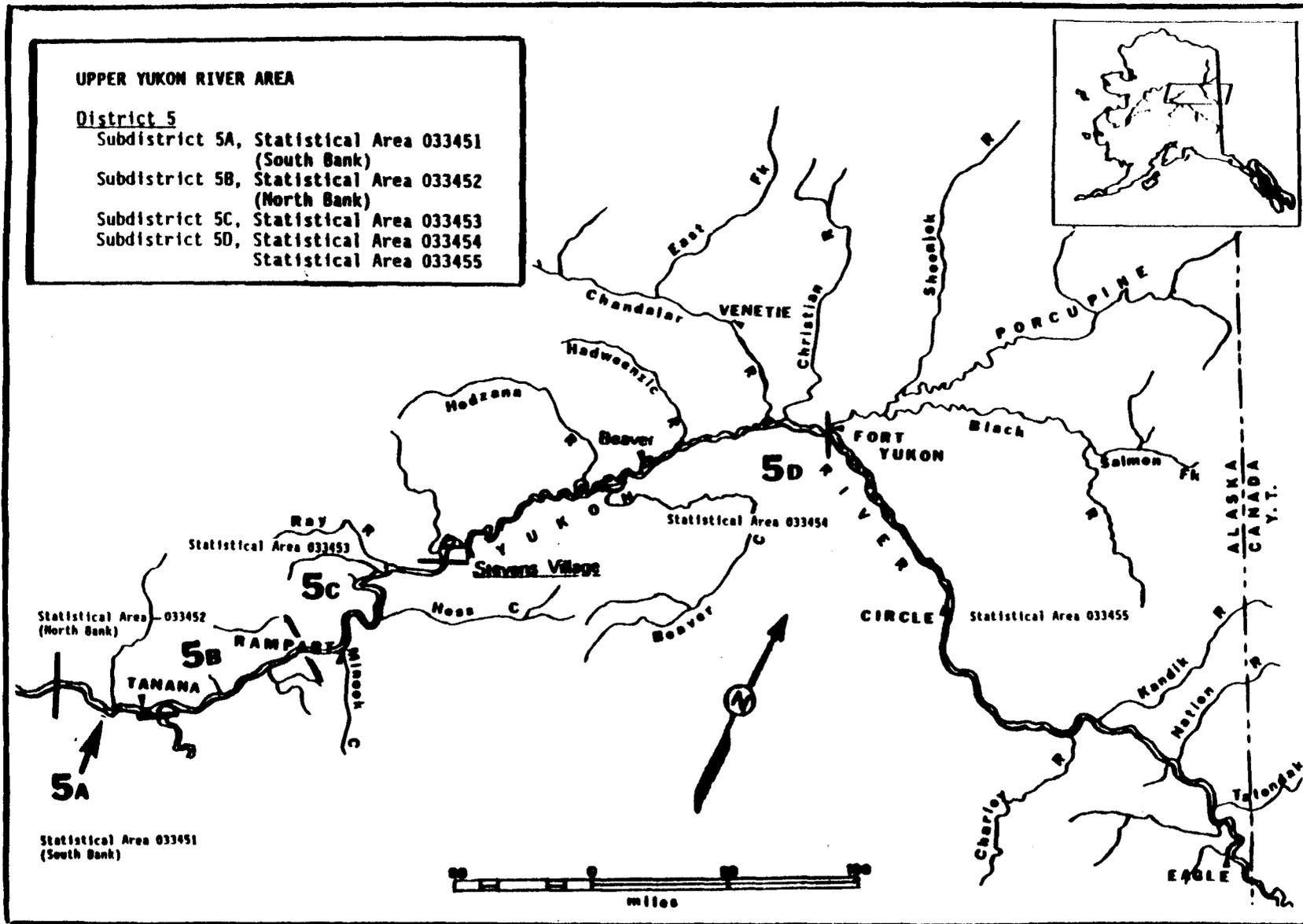


Figure 3. District 5, Upper Yukon Management Area showing Statistical Areas, 1993.

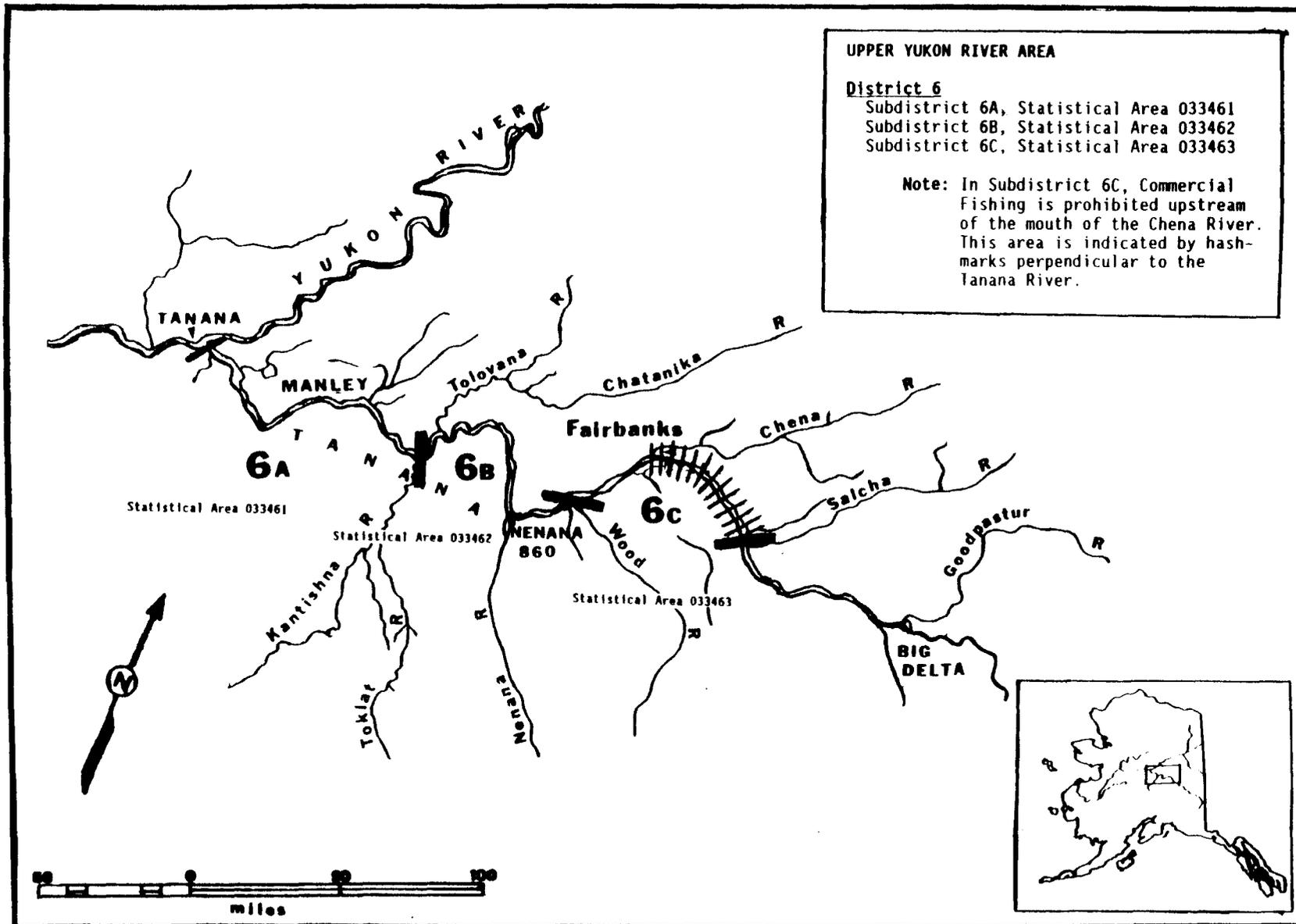


Figure 4. District 6, Upper Yukon Management Area showing Statistical Areas, 1993.