IDAHO

FISH & GAME DEPARTMENT

Joseph C. Greenley, Director

FEDERAL AID IN FISH AND WILDLIFE RESTORATION

ANNUAL PERFORMANCE REPORT

STATEWIDE FISHING HARVEST SURVEY

PROJECT F-18-R-19

Job 1. Estimates of the 1972 Harvest of Salmon and Steelhead (Survey)

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Job 3. Check Station Surveillance of Major Salmon and Steelhead Fisheries in Idaho (Salmon Only)

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Job 3. Check Station Surveillance of Salmon and Steelhead Fisheries in Idaho (Steelhead Only)

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Period Covered: March 1, 1972 - February 28, 1973

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JOB COMPLETION REPORT

Research Project Statement

State of IDAHO

Project No. F-18-R-19

Job No. 1

Name: ANNUAL SURVEY OF THE SALMON AND STEELHEAD SPORT FISHERY HARVEST IN IDAHO

Title: Estimates of the 1972 Harvest of Salmon and Steelhead (Survey)

Period Covered: March 1, 1972 to February 28, 1973

ABSTRACT:

Separate salmon and steelhead permits were again required during 1972. A total of 11,880 salmon permits and 18,809 steelhead permits were sold during the year.

Approximately 87 percent of the salmon permit holders indicated that they had fished but only 31 percent caught chinook. Steelhead anglers fared slightly better with 85 percent of the permittees fishing and 38 percent catching steelhead.

Approximately 84 percent of the steelhead anglers were Idaho residents.

The 1972 salmon harvest of 6,500 was up from the 1970 and 1971 catches but largely due to hatchery fish caught in the Little Salmon River. The steel-head catch of 13,500 was the lowest estimated catch since 1956.

Submitted by:

Jerry Mallet
Fishery Research Supervisor

RECOMMENDATIONS:

Continue the annual survey of salmon and steelhead harvests.

Place more emphasis on angler contacts on the Snake River, lower Salmon River, and upper Clearwater River to insure equitable recording of stream sections in all sections.

OBJECTIVES:

To estimate the 1972 salmon and steelhead harvest in Idaho.

TECHNIQUES USED:

Survey techniques used compared with those of past years; however, as in 1971 we made two separate surveys. The chinook survey started in August immediately after chinook fishing had ceased. The steelhead census letters went out after January 1, 1973, inasmuch as anglers fish through the winter months.

We sent letters to 5,184 randomly selected holders of chinook permits, 44 percent of the 11,880 sold in 1972, and to 5,342 (28 percent) of 18,809 steelhead permit holders. Follow-up letters, again requesting the return of their permit, were sent to nonrespondees after a one-month waiting period.

Anglers either returned their original permits or filled in a duplicate permit printed on the reverse side of the survey letter.

We asked chinook anglers to record the number of days they fished and the number of jack chinook taken. Jacks less than 20 inches fork length need not be recorded on the permit.

Steelhead anglers were asked to record their estimate of the number of days fished in each of the major drainages, the Snake, Salmon and Clearwater Rivers.

The survey letters, with accompanying maps, requested that anglers accurately record the river section from which each fish was taken. Field personnel also emphasized accurate recording of catch areas to anglers during the season.

Incoming data, including residence of anglers, days fished, jack catch, adult catch, stream sections fished and dates of catches were coded on permits prior to tabulation by keypunch operators for data processing.

Various combinations of tabular summaries of catch by date, stream, residency, etc., were compiled by machine sorting. I expanded sample summaries to total catch estimates using direct proportion ratios.

FINDINGS:

Separate salmon and steelhead permits were required again during 1972. A total of 11,880 salmon permits and 18,809 steelhead permits were sold during

the year. Approximately 87 percent of the salmon permit holders indicated that they had fished but only 31 percent caught chinook (Table 1). Steelhead anglers fared slightly better with 85 percent of the permittees fishing and 38 percent catching steelhead (Table 2).

The average 1972 season's catch for all salmon anglers who fished was 0.65 salmon while successful anglers caught 2.09 fish (Table 3). All steelhead anglers averaged 0.85 steelhead for the season while successful anglers averaged 2.25 fish (Table 4).

Salmon anglers in the random sample reported catching 2,196 chinook salmon and only 77 of these were not recorded by exact stream section (Table 7). The unknown catches were prorated and the data expanded by stream and by month. An estimated 1,838 salmon were caught from the Main Salmon River (64 percent in Section 8), and 4,833 were taken in Salmon River tributaries in a state total of 6,680 (Table 8).

Steelhead anglers caught an estimated 13,524 fish in 1972. This catch, as in past years, is reported on a calendar year basis and includes portions of two fish runs. Steelhead anglers in the random sample reported catching 3,078 steelhead of which 652 were not recorded by exact stream section (Table 9). Anglers caught 5,667 steelhead in the Main Salmon River of which 97 percent were taken in river sections 1 to 5 (mouth to Salmon City). The main stem Clearwater River and Snake River catches were estimated at 5,135 and 2,453 steelhead, respectively (Table 10).

Salmon anglers (2,997 responding) caught an average of 0.2 jacks (Table 11) that were not recorded on permits and are not included in the harvest estimates. A rough estimate of the statewide jack harvest can be computed by multiplying the total number of salmon fishermen (11,880) by the average jack harvest (0.2). Utilizing this method, we calculated that 2,376 jacks were harvested by salmon anglers during 1972. Specific jack harvest information by stream is generally not available but it is evident that a large percentage of the jacks were taken in the Little Salmon River. Anglers continued to heavily harvest the jacks returning to Rapid River Hatchery in the Little Salmon River.

Salmon anglers reported fishing an average of 4.0 days each (Table 13) while steelhead anglers reported 4.9 days each (Table 14).

Salmon raw data catch reports are recorded by day and stream for June and July for major streams in Table 15, and similar steelhead data is shown in Table 16. This data indicates that little salmon fishing occurred in June, 1971, and that pressure was continued and heavy once fishing picked up around mid-July with weekends receiving slightly more pressure.

Approximately 43 percent of the steelhead harvest was taken from the Salmon River drainage, 37 percent from the Clearwater River and 18 percent from the Snake River. As usual, almost all of the salmon harvest occurred in the Salmon River drainage (Table 17).

The 1972 salmon harvest of 6,500 was one of the lower catches on record but above those of 1970 and 1971 (Table 18). The steelhead catch of 13,500 was the lowest estimated catch since 1956.

Table 19 lists steelhead harvest by fish year. Breakdown by river section is available only for the last three fish years.

Submitted by:

Jerry Mallet
Fishery Research Supervisor

Table 1. Basic random sample return data used to compute chinook salmon catch estimates in 1972.

(1) 11,880 permits were sold.

(2) 5,184 random sample requests were mailed.

(3) 3,893 random sample permits were returned.

(4) 3,872 of these contained usable information.

(5) 21 contained no information

(6) Estimates and sample size.

Category	Usable Sample	Percent of Total	Estimate
Did not fish	502	13.0	1,527
Fished for chinook	3,370	87.0	10,252
a. Did not catch	2,321	68.9	7,061
b. Caught chinook	1,049	31.1	3,191
Total Replies	3,872	--	11,779
Chinook caught	2,196		6,680

Chinook per successful angler: 2.09

Note: The Post Office returned 141 undeliverable letters.

77 percent of delivered requests were returned by permittees.

Ratio estimate: Sample = 3.0421: 1.0000

Table 2. Basic random sample return data used to compute Idaho steelhead catch estimates in 1972.

(1) 18,809 permits were issued.

(2) 5,342 random sample requests were mailed.

(3) 4,335 random sample permits were returned.

(4) 4,249 of these contained usable information.

(5) 86 contained no information.

(6) Estimates and sample size.

Category	Usable Sample	Percent of Total	Estimate
Did not fish	629	14.8	2,784
Fished for steelhead	3,620	85.2	16,025
a. Did not catch	2,254	62.3	9,978
b. Caught steelhead	1,366	37.7	6,047
Total Replies	4,249	--	18,809
Steelhead caught	3,078		13,625

Note: The Post Office returned 198 undeliverable letters.

Average catch per all anglers who fished = 0.85

Average catch per all successful anglers = 2.25

Ratio estimate: Sample = 4.4267: 1.0000

Table 3. The number and percentage (in parentheses) of anglers returning 1972 salmon permits who fished for and caught chinook salmon, did not fish for salmon, or did not indicate on permit whether they fished or not.

Type of Return	Fished and caught fish	Fished, did not catch	Did not fish	No Information	Totals	Chinook Caught	Catch per Successful Angler	Catch per All Anglers
Permit First and Second Request *	546 (41.5)	642 (48.8)	119(9.0)	9 (0.8)	1,316 (100)**	1,139	2.09	0.96
Sample Permit First Request	327 (20.2)	1,060 (65.4)	226 (14.0)	7 (0.4)	1,620 (100)	690	2.11	0.50
Second Request	176 (18.4)	619 (64.7)	157 (16.4)	5 (0.5)	957 (100)	367	2.09	0.46
Total Random Sample	1,049 (26.9)	2,321 (59.6)	502 (12.9)	21 (0.5)	3,893 (100)	2,196	2.09	0.65

* Includes 119 permits returned voluntarily by random sample permittees.

** 33.8 percent of respondees returned their original permits.

Table 4. The number and percentage (in parentheses) of anglers returning 1972 steelhead permits who fished and caught steelhead, fished but did not catch steelhead, did not fish for steelhead, or did not indicate on permit whether they fished or not.

Type of Return	Fished and caught fish	Fished, did not catch	Did not fish	No Information	Totals	Steelhead Caught	Catch per Successful Angler	Catch per All Anglers
Permit								
First and Second Request	864 (42.4)	899 (44.1)	210 (10.3)	66 (3.2)	2,039 (100)	1,857	2.15	1.05
Sample Permit First Request	370 (22.3)	982 (59.2)	293 (17.7)	13 (0.8)	1,658 (100)	925	2.50	0.68
Second Request	132 (20.7)	373 (58.5)	126 (19.7)	7 (0.9)	638 (100)	296	2.24	0.59
Total Random Sample	1,366 (31.5)	2,254 (52.0)	629 (14.5)	86 (2.0)	4,335 (100)	3,078	2.25	0.85

Table 5. Number of chinook salmon reported caught by anglers in the 1972 random sample --Idaho.

Catch Per Anglers	Number of Anglers Reporting	Total Sample Catch	Percent of Total
0	2,321	none	--
1	475	475	21.6
2	282	564	25.7
3	140	420	19.1
4	86	344	15.7
5	37 (98%) (2%)	185	8.4 (90.5%) (9.5%)
6	9	54	2.5
7	11	77	3.5
8	5	40	1.8
9	3	27	1.2
10	1	10	0.5
Totals	3,370	2,196	100

Note: 1,049 (31 percent) of 3,370 anglers contacted, who fished, caught salmon.

Table 6. Summary of the catch of steelhead per successful angler reporting in random survey, Idaho, 1972.

Catch Per Angler	Number of Anglers Reporting	Total Sample Catch	Percent of Total
0	2,254	--	
1	626	626	20.3
2	359	718	23.3
3	151	453	14.7
4	92	368	12.0
5	49	245	8.0(78.3%) (21.7%)
6	32	192	6.2
7	21	147	4.8
8	11	88	2.9
9	10	90	2.9
10	14	140	4.5
11	1	11	0.4
Totals	3,620	3,078	100

Note: 1,366 (38 percent) of 3,620 anglers contacted, who fished, caught steelhead.

Table 7. 1972 reported catch of chinook salmon by month and stream - random sample returns only.

Stream	Jan. - April	May	June	July	Aug.	Unknown	Total
Salmon - 1	0	0	0	0	0	0	0
Salmon - 2	0	2	12	10	1	0	25
Salmon - 3	1	1	1	11	0	0	14
Salmon - 4	0	0	0	5	0	0	5
Salmon - 5	0	0	0	6	0	0	6
Salmon - 6	0	0	0	10	0	0	10
Salmon - 7	0	0	0	130	1	0	131
Salmon - 8	1	0	7	329	0	1	338
Salmon Unknown	2	0	4	65	0	5	76
	4	3	24	566	2	6	605
S. F. Salmon	0	0	0	0	0	0	0
M. F. Salmon	0	0	18	285	1	4	308
E. F. Salmon	0	0	1	51	0	1	53
N. F. Salmon	0	0	0	0	0	0	0
Pahsimeroi	0	0	0	0	0	0	0
Little Salmon	1	28	208	742	2	1	982
Bear Valley	0	0	0	13	0	0	13
Loon Creek	0	0	2	65	3	0	70
Lemhi River	0	0	23	49	0	0	72
Marsh Creek	0	0	0	10	0	0	10
Big Creek	0	0	0	11	0	0	11
Valley Creek	0	0	1	13	0	0	14
Camas Creek	1	0	3	52	0	0	56
Salmon R. Tributaries Total	2	28	256	1,291	6	6	1,589
Lower Snake	0	0	0	0	1	0	1
Upper Snake	0	0	0	0	0	0	0
Snake Unknown	0	0	0	0	0	0	0
Snake Total	0	0	0	0	1	0	1
Unknown Stream	0	0	0	0	0	1	1
Total State	6	31	280	1,857	9	13	2,196

Table 8. 1972 estimated total catch of chinook salmon by month and stream, Idaho.

Stream	Jan.-* April	May	June	July	Aug.	Total
Salmon - 1	0	0	0	0	0	0
Salmon - 2	0	6	44	34	3	87
Salmon - 3	6	3	4	38	0	51
Salmon - 4	0	0	0	17	0	17
Salmon - 5	0	0	0	21	0	21
Salmon - 6	0	0	0	34	0	34
Salmon - 7	0	0	0	450	3	453
Salmon - 8	6	0	25	1,144	0	1,175
Salmon Total	12	9	73	1,738	6	1,838
M. F. Salmon	0	0	55	879	3	937
E. F. Salmon	0	0	3	158	0	161
Bear Valley Creek	0	0	0	40	0	40
Little Salmon	3	85	633	2,263	6	2,990
Loon Creek	0	0	6	198	9	213
Lemhi River	0	0	70	149	0	219
Marsh Creek	0	0	0	30	0	30
Big Creek	0	0	0	33	0	33
Valley Creek	0	0	3	40	0	43
Camas Creek	3	0	9	158	0	170
Salmon R. Tributaries Total	6	85	779	3,948	18	4,836
Lower Snake	0	0	0	0	3	3
Upper Snake	0	0	0	0	0	0
Snake Total	0	0	0	0	3	3
Unknown Stream	0	0	0	3	0	3
Total State	18	94	852	5,689	27	6,680

*January to April salmon catch recordings probably errors on permits. These may be steelhead.

Table 9. 1972 reported catch of steelhead by month and stream - random sample raw data returns only.

Stream	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.	Total
Salmon - 1	10	12						5	28	88	32	8	16	199
Salmon - 2	18	24	6	3		1		1	21	72	64	20	10	240
Salmon - 3	9	23	20						6	62	41	5	13	179
Salmon - 4	5	11	28							73	35	1	6	159
Salmon - 5	17	23	16					1		71	45	10	12	195
Salmon - 6	1	4	8							5	1	3		22
Salmon - 7		2	3									1		6
Salmon - 8						1								1
Salmon unknown	10	20	21						21	104	89	12	25	302
	70	119	102	3	0	2	0	7	76	475	307	60	82	1,303
S. F. Salmon				7						1				8
M. F. Salmon			3							5				8
Little Salmon					2	4								6
Big Creek				3	2									5
Salmon Trib. Total	0	0	3	10	4	4	0	0	0	6	0	0	0	27
Lower Clearwater	13	14	1					1	8	460	258	93	36	884
Upper Clearwater	4	2								40	36	3	2	87
Clearwater Unk.		1	1						6	109	33	27	12	189
Clearwater Total	17	17	2	0	0	0	0	1	14	609	327	123	50	1,160
N. F. Clearwater										3				3
M. F. Clearwater		7	3							9	5	2		26
Clearwater Trib. Total	0	7	3	0	0	0	0	0	0	12	5	2	0	29
Lower Snake	10	6							13	130	111	58	16	344
Upper Snake	5	1		3	4	1			10	4	11	9	6	54
Snake Unk.	6	3		1	3				5	54	55	27	2	156
Snake Total	21	10	0	4	7	1	0	0	28	188	177	94	24	554
Unknown Streams					3							1	1	5
State Total	108	153	110	17	14	7	0	8	118	1,290	816	280	157	3,078

Table 10. Estimated 1972 Idaho steelhead catch by stream and month, prorated.

Month	Jan.	Feb.	Mar.	Apr.	May-* June	July-* Aug.	Sept.	Oct.	Nov.	Dec.	Total
Stream section											
Salmon 1	56	69				24	183	536	213	47	1,128
2	96	132	35	14	4	4	132	421	409	115	1,362
3	50	131	120				39	387	270	30	1,027
4	27	61	161					424	223	5	901
5	92	130	93			4		423	294	58	1,094
6	4	21	44					28	6	16	119
7		11	16							5	32
8					4						4
Salmon Total	325	555	469	14	8	32	354	2,219	1,415	276	5,669
S. F. Salmon				31				4			35
M. F. Salmon			13					22			35
Other Salmon Tribs.				13	36						49
											5728
Lower Clearwater	60	69	8			4	65	2,600	1,327	553	4,686
Upper Clearwater	19	9						222	182	17	449
Clearwater Total	79	78	8			4	65	2,822	1,509	570	5,135
N. F. Clearwater								13			13
M. F. Clearwater		31	13					40	22	9	115
											5263
Lower Snake	64	39					73	843	742	375	2,136
Upper Snake	35	6		19	38		60	28	79	52	317
Snake River Total	99	45		19	38		133	871	821	427	2,453
Unknown Streams					17					5	22
State Total	503	709	503	77	99	36	552	5,991	3,767	1,287	13,524

* Fish taken prior to July 1 are from fish year 1971-72 run, those taken after July 1 are 1972-73 fish.

Table 11. Summary of the number of jack salmon reported caught by random sample anglers responding to our questionnaire in 1972.

Number of Jacks caught	Number of Anglers Reporting	Total Jacks Caught
Zero	2,718	0
1	137	137
2	65	130
3	35	105
4	16	64
5	10	50
6	7	42
7	1	7
8	1	8
9	1	9
10	1	10
11	1	11
12	2	24
15	1	15
20	1	20
Total	2,997	632

Average jacks per respondee: 0.21

Table 12. Number and percent of anglers in steelhead permit sample responding from each state and days fished, Idaho, 1972.

		Anglers per State		Man Days Fished		Days
Rank	State	Number	Percent	Number	Percent of Total	Fished Per Man
1	Idaho	3,057	84.1	15,619	88.0	5.1
2	Washington	184	5.1	855	4.8	4.6
3	California	123	3.4	376	2.1	3.1
4	Montana	110	3.0	491	2.8	4.5
5	Utah	27	0.7	90	0.5	3.3
6	Oregon	25	0.7	58	0.3	2.3
7	Nevada	11	0.3	29	0.2	2.6
8	Wyoming	5	0.1	9	0.1	1.8
9	Others	91	2.5	227	1.3	2.5
		3,633	100.0	17,754	100.0	4.9

Note: 3,633 includes responses on request letters - 260 respondees did not indicate how many days they fished.

Table 13. Summary of the number of days fished in Idaho by chinook salmon anglers reporting on random sample letters, 1972.

Number of Days Fished	Number of Anglers Reporting	Total Days Fished
1	635	635
2	720	1,440
3	439	1,317
4	342	1,368
5	239	1,195
6	150	900
7	96	672
8	49	392
9	25	225
10	102	1,020
11	14	154
12	24	288
13	2	26
14	29	406
15	26	390
16	7	112
17	1	17
18	3	54
20	12	240
21	2	42
24	1	24
25	1	25
26	1	26
28	2	56
29	1	29
30	10	300
31	1	31
35	2	70
40	2	80
60	1	60
70	1	70
	2,940	11,664

Note: The 2,940 anglers reporting fished an average of 4.0 days each.

Table 14. Summary of the number of days fished by steelhead anglers reporting in random sample, Idaho, 1972.

Range in Days Fished	Number of Days Fished	Number of Anglers Reporting	Total Days Fished
	0	283	0
1-10	1	381	381
	2	536	1,072
	3	381	1,143
	4	263	1,052
	5	218	1,090
	6	142	852
	7	85	595
	8	91	728
	9	45	405
	10	150	1,500
11-20	11	29	319
	12	46	552
	13	28	364
	14	34	476
	15	36	540
	16	20	320
	17	10	170
	18	11	198
	19	11	209
	20	54	1,080
21-30	21	8	168
	22	14	308
	23	5	115
	24	5	120
	25	14	350
	26	1	26
	27	2	54
	28	3	84
	29	2	58
	30	30	900
31-40	Number per day summary	17	628
41-50	Number per day summary	10	454
51-60	Number per day summary	6	355
61-70	Number per day summary	4	271
71-80	Number per day summary	1	72
81-90	Number per day summary	1	90
91-100	Number per day summary	1	100
151-160	Number per day summary	1	155
191-200	Number per day summary	2	400
Totals		3,633	17,754

Note: 652 anglers gave no information. The 3,633 anglers reporting fished an average 4.9 days each.

Table 15. Reported catch (raw data) of chinook salmon by day, by selected stream or stream section, Idaho, 1972.

June	Salmon River Sec. 7	Sec. 8	Sec. 9	Middle Fork	Camas Creek	Loon Creek	Lemhi River	East Fork	Valley Creek	Total
1										0
2										0
3*										0*
4*										0*
5										0
6										0
7		1								1
8										0
9										0
10*							1			1*
11*										0*
12										0
13										0
14										0
15							1			1
16										0
17*			1				1			2*
18*										0*
19										0
20				1			1			2
21							1	1		2
22										0
23				1			1			2
24*		1	1	1		1				4*
25*			2	1		1	1			5*
26				2			3			5
27		1		3			2			6
28				1			3			4
29		2		1			1		1	5
30		2		7	3		5			17
99 U.K.							2			2
Sub-Total	0	7	4	18	3	2	23	1	1	59

* Weekend days

Table 15 (cont.) Reported catch (raw data) of chinook salmon by day, by selected stream or stream section, Idaho, 1972.

	Salmon River										
July	Sec. 7	Sec. 8	Sec. 9	Middle Fork	Camas Creek	Loon Creek	Marsh Creek	Lemhi River	East Fork	Valley Creek	Total
1*		7		7	1			2	1		18*
2*		3		11	1			3			18*
3		7	2	13	1			3	1	2	29
4*		6		9	3				1		19*
5		6	2	12	4			1			25
6	2	8	1	13	2	3		5	1		35
7	2	11	1	14	1	1		4	4	1	39
8*	3	13	1	23	8	4		3	1	1	57*
9*	4	16	1	16	8			4	2		51*
10	5	8	4	22	3	5		3	7	1	58
11	3	9	8	15	6	2		4	4	3	54
12	1	16	2	25	4	2		1	2		53
13	4	11	1	13	1			3	1		34
14	2	19	4	17	5	3	1		3		54
15*	2	19	2	12	4	6		6	4	3	58*
16*	4	13	2	9		1		1	1		31*
17	7	8	3	7							25
18	5	8	4	4		2		1	2		26
19	1	8	2	8		1			1		21
20	4	7	1	5		1	2		4		24
21	2	9	3	2		1		1			18
22*	10	8	1	3		4	1				27*
23*	3	8	1	4		2			1		19*
24	5	8	2	2			2	1	1	1	22
25	5	15	2	2		4	3			1	32
26	7	12	1	1					3		24
27	7	6	3	4		4			1		25
28	10	14		4		6					34
29*	15	13	4	6		6	1		4		49*
30*	7	13	4	2		3			1		30*
31	10	15	3			4					32
99	UK	5						3			8
Sub-Total	130	329	65	285	52	65	10	49	51	13	1,049

* Weekend and holiday

Table 16. Summary of the average reported catch by type of day, of steelhead from 1972, Idaho, random sample returns (spring months).

Spring Months	Number of Days	Average Steelhead Catch Per Day: Snake River	Clearwater River	Salmon River: Lower*	Salmon River: Upper*	Average Total**
January						
Holiday	1	3.0	0.0	0.0	0.0	3.0
Weekend	1	2.0	3.0	4.0	2.0	11.0
Weekday	5	0.6	0.2	0.4	0.6	2.2
Weekend	2	4.5	1.0	0.5	0.0	7.0
Weekday	5	0.0	0.4	0.8	1.2	2.4
Weekend	2	0.5	1.5	5.5	1.0	8.5
Weekday	5	0.2	0.0	0.8	0.6	2.6
Weekend	2	0.0	0.0	1.5	0.0	2.0
Weekday	5	0.0	0.4	1.0	0.8	2.2
Weekend	2	0.5	2.0	0.0	1.0	3.5
Weekday	1	0.0	0.0	0.0	0.0	0.0
February						
Weekday	4	0.0	0.5	0.3	0.5	1.3
Weekend	2	1.0	2.0	1.0	0.5	6.0
Weekday	5	0.2	0.4	1.2	0.2	3.4
Weekend	2	2.0	1.5	4.5	1.5	10.0
Weekday	5	0.0	0.0	1.4	1.0	2.6
Weekend	2	1.5	0.5	3.0	3.5	9.5
Weekday	5	0.0	0.6	3.0	1.2	5.2
Weekend	2	0.0	1.0	4.5	2.0	9.5
Weekday	2	0.0	0.0	1.0	1.5	2.5
March						
Weekday	3	0.0	0.0	0.3	0.7	2.3
Weekend	2	0.0	0.5	2.0	1.5	5.5
Weekday	5	0.0	0.2	0.6	2.6	4.4
Weekend	2	0.0	0.0	3.0	2.0	5.0
Weekday	5	0.0	0.0	0.8	3.6	5.6
Weekend	2	0.0	0.0	0.5	0.5	1.5
Weekday	5	0.0	0.0	0.4	0.2	0.6
Weekend	2	0.0	0.0	0.0	0.0	0.0
Weekday	4	0.0	0.0	0.4	0.0	0.4

*Lower Salmon includes areas 41, 42, 43: Upper includes 44 and 45.

** Includes unknown Salmon River catches.

Table 17. Summary of the average reported catch by type of day, of steelhead from 1972, Idaho, random sample returns (fall months).

Fall Months	Number of Days	Average Steelhead Catch per Day: Snake River	Clearwater River	Salmon River: Lower*	Salmon River: Upper*	Average Total**
September						
Weekday	1	0.0	1.0	0.0	0.0	2.0
Weekend	2	0.5	0.5	0.0	0.0	1.5
Holiday	1	0.0	3.0	0.0	0.0	3.0
Weekday	4	0.3	0.2	0.0	0.0	0.5
Weekend	2	2.0	0.5	0.5	0.0	3.0
Weekday	5	0.5	0.2	0.4	0.0	1.1
Weekend	2	2.0	0.5	4.5	0.0	8.0
Weekday	5	0.4	0.4	0.4	0.0	1.6
Weekend	2	1.0	0.0	4.0	0.0	6.5
Weekday	5	1.4	0.2	2.8	0.0	5.8
Weekend	1	6.0	2.0	18.0	0.0	30.0
October						
Weekend	1	2.0	55.0	16.0	10.0	84.0
Weekday	5	1.9	17.6	3.4	2.0	28.1
Weekend	2	3.5	19.5	10.5	3.5	40.5
Holiday	1	4.0	12.0	8.0	3.0	27.0
Weekday	4	5.0	18.0	5.0	3.8	35.1
Weekend	2	10.5	25.0	10.5	2.0	51.0
Weekday	5	7.6	17.0	6.2	6.4	40.8
Weekend	2	9.5	21.5	14.0	4.0	55.5
Holiday	1	8.0	19.0	15.0	3.0	52.0
Weekday	4	4.5	12.0	3.8	5.3	28.4
Weekend	2	12.5	23.5	6.5	9.5	55.0
Weekday	2	4.5	10.0	4.0	4.0	24.0
November						
Weekday	3	5.3	7.3	4.7	4.3	23.9
Weekend	2	11.0	15.5	8.0	4.0	43.0
Weekday	5	4.4	9.6	4.0	2.6	24.6
Weekend	2	9.5	22.0	11.5	4.0	51.5
Weekday	5	5.4	7.2	2.2	1.4	18.6
Weekend	2	7.5	14.0	7.5	5.5	40.0
Weekday	3	4.3	10.0	0.7	1.3	18.0
Holiday	1	5.0	5.0	2.0	1.0	17.0
Weekday	1	5.0	12.0	2.0	1.0	22.0
Weekend	2	5.5	13.5	5.5	3.5	30.5
Weekday	4	2.5	6.0	1.8	0.8	11.8
December						
Weekday	1	3.0	6.0	3.0	1.0	14.0
Weekend	2	8.5	10.0	3.0	0.5	22.0
Weekday	5	2.2	1.4	0.0	0.4	4.0
Weekend	2	1.5	2.0	0.5	0.5	4.5
Weekday	5	1.4	1.6	0.2	0.2	3.6
Weekend	2	3.5	10.0	0.5	0.0	15.0
Weekday	5	2.0	0.4	0.6	0.2	3.2
Weekend	2	1.5	2.0	0.5	0.0	4.0
Holiday	1	1.0	0.0	0.0	0.0	1.0
Weekday	4	3.0	6.8	0.8	0.3	12.2
Weekend	2	9.0	9.5	5.0	0.0	25.0

* Lower Salmon includes areas 41, 42, 43: Upper includes 44 and 45.
** Includes unknown Salmon River catches.

Table 18. Estimated total catch of chinook salmon and steelhead trout in Idaho, 1972, from random sample returns of permits.

Stream or Section	Chinook Salmon Sample Size	Chinook Salmon Estimated Catch	Steelhead Trout Sample Size	Steelhead Trout Estimated Catch
Salmon - 1	0	0	199	1,128
Salmon - 2	25	87	240	1,362
Salmon - 3	14	51	179	1,027
Salmon - 4	5	17	159	901
Salmon - 5	6	21	195	1,094
Salmon - 6	10	34	22	119
Salmon - 7	131	453	6	32
Salmon - 8	338	1,175	1	4
Salmon - Unk.	76	(264)*	302	(1,337)*
Salmon Total	605	1,838	1,303	5,667
S. F. Salmon	0	0	8	35
M. F. Salmon	308	937	8	35
E. F. Salmon	53	161	--	--
N. F. Salmon	0	0	0	--
Little Salmon	982	2,987	6	27
Lemhi River	72	219	--	--
Pahsimeroi	0	0	--	--
Valley Creek	14	43	--	--
Big Creek	11	33	5	22
Camas Creek	56	170	--	--
Loon Creek	70	213	--	--
Marsh Creek	10	30	--	--
Bear Valley Creek	13	40	--	--
Salmon Trib. Tot.	1,589	4,833	27	119
Lower Clearwater			884	4,686
Upper Clearwater			87	449
Clearwater Unk.			189	(837)*
Clearwater Total			1,160	5,135
N. F. Clearwater			3	13
M. F. Clearwater			26	115
S. F. Clearwater			--	--
Clearwater Trib. Total			29	128
Lower Snake River	1	3	344	2,136
Upper Snake River	0	0	54	317
Snake River Unk.	0	0	156	(691)*
Snake Total	1	3	554	2,453
Unknown Streams	1	3	5	22
State Total	2,196	6,680	3,078	13,524

Notes: I computed factors of 3.0682 for chinook and 4.4267 for steelhead by dividing the total reported catch into total estimated catch from tables.
I multiplied each stream sample by the factor to estimate individual catches.

* The unknown Salmon, Clearwater, and Snake River catches are prorated and included in the catch from known sources.

Table 19. Idaho salmon and steelhead catch estimates, 1954-1972.

Year	Chinook Salmon Catch Estimate	Year	Steelhead Trout Catch Estimate
1954	15,000	1954	12,000
1955	19,000	1955	13,000
1956	21,000	1956	8,000
1957	39,000	1957	20,000
1958	24,000	1958	30,000
1959	20,000	1959	31,000
1960	21,000	1960	30,000
1961	13,000	1961	25,000
1962	12,000	1962	19,000
1963	12,000	1963	26,000
1964	8,000	1964	18,000
1965	SALMON SEASON CLOSED	1965	20,000
1966	8,500	1966	20,000
1967	7,500 (6,500)*	1967	24,500 (22,500)*
1968	11,500 (10,000)	1968	24,500 (23,000)
1969	13,000 (11,500)	1969	17,000 (15,500)
1970	5,500	1970	20,500
1971	3,500	1971	17,500
1972	6,500	1972	13,500

*Estimates in parentheses are calculated assuming that "no information" returns indicate that no fish were caught, and are more representative for trend purposes since the pre-1967 estimates were made using this assumption. The 1970-1972 returns include very few "no information" returns and are therefore comparable. The original 1967-1969 estimates shown were calculated without the "no information" returns.

Table 20. Estimated steelhead harvest in Idaho, by fish year, 1965-1972.

Stream or Section	'71-'72	'70-'71	'69-'70	'68-'69	'67-'68	'66-'67	'65-'66
Salmon - 1	1,826	1,824	2,180	--	--	--	--
Salmon - 2	1,211	1,163	1,990	--	--	--	--
Salmon - 3	1,242	1,509	1,711	--	--	--	--
Salmon - 4	2,004	1,459	2,302	--	--	--	--
Salmon - 5	2,606	1,848	1,620	--	--	--	--
Salmon - 6	219	49	194	--	--	--	--
Salmon - 7	54	20	149	--	--	--	--
Salmon - 8	15	74	54	--	--	--	--
Salmon Total	9,177	7,946	10,200	9,040	9,432	11,348	9,059
S. F. Salmon	36	5	165	45	280	436	235
M. F. Salmon	29	156	270	317	502	525	292
Other Salmon Trib.	65	107	266	236	110	274	727
Lower Clearwater	3,317	3,790	3,507	--	--	--	19313 --
Upper Clearwater	254	978	921	--	--	--	--
Clearwater Total	3,571	4,768	4,428	7,933	7,813	6,263	6,365
N. F. Clearwater	--	50	172	183	515	333	51
M. F. Clearwater	--	291	461	290	176	44	--
Other Clearwater Trib.	--	200	170	94	387	89	424
Lower Snake	2,573	2,395	2,108	--	--	--	6246
Upper Snake	463	600	731	--	--	--	--
Snake Total	3,036	2,995	2,839	3,322	3,441	3,972	2,268
Unknown Streams	93	62	192	156	292	403	327
State Total	16,007	16,580	19,163	21,616	22,948	23,687	19,748

JOB COMPLETION REPORT

Research Project Statement

State of IDAHO

Name: STATEWIDE FISHING HARVEST SURVEY

Project No. F-18-R-19

Title: Check Station Surveillance of Major Salmon and Steelhead Fisheries in Idaho (Salmon Only)

Job No. 3

Period Covered: March 1, 1972 to February 29, 1973

ABSTRACT:

In 1972, three check stations were operated on the upper Salmon river to provide management with timely and usable chinook salmon catch data. Between July 8 and July 31, check station operators interviewed 1,913 anglers who fished 28,437 hours to catch 809 salmon; 35 hours per fish. Nonresidents comprised 18 percent of the salmon anglers and spent 25 percent of the total hours fished to catch 22 percent of the harvest recorded at our stations. Anglers also reported catching 24 jack salmon; 3 percent of the total salmon catch. We recorded 4,807 man-days spent fishing for 809 adult salmon, or 5.8 man-days per fish.

From random returns of permit cards marked at the stations, I estimated that 3,014 salmon over 20 inches entered the anglers creel from the various streams and river sections covered by our stations. The statewide estimate for these same stream sections computed by the random sample of permit holders was 2,836 fish as reported in Job 1, F-18-R-19 (Mallet).

Submitted by:

Melvin Reingold
Senior Fishery Research Biologist

RECOMMENDATIONS:

We recommend that salmon harvest check stations continue annually to provide management information for the upper Salmon River chinook fishery.

OBJECTIVES:

To monitor chinook salmon sport fishery catch data on a weekly basis by standardized check station methods. Managers correlate catch rates and fishing pressure with dam counts and water conditions to obtain usable and timely data.

To collect standardized check station data (location, operating hours, days-per-week, etc.) and compare this with salmon permit return data to determine if correlations exist which we can use to increase the accuracy of random sample permit catch estimates or to enhance or replace that method.

To evaluate returns to the creel from various hatchery and rearing-release programs by checking for marked fish in the anglers bag.

TECHNIQUES USED:

As in past years, three temporary checking stations were set up at major egress points through which a high percentage of Idaho's chinook anglers return to their homes. The three station locations remained the same as described in the 1971 report (Reingold, 1972).

The following information was collected: dates, number of resident and non-resident anglers, days fished, hours fished, adult salmon caught, jack salmon caught and stream or river section fished. When available (51 percent of the time), fish were inspected for marks, clipped fins and sex, and fork length was measured to the nearest inch.

Station personnel inspected the salmon permit card of each angler and marked the permit with a conductor's punch to the right of each salmon recorded on the permit, regardless of when caught.

Operators also explained to the uninformed anglers the newly developed system of recording catches by subsections of major rivers. They completed permits as needed and issued informational maps and instructions.

Each Monday morning, check station operators summarized the previous week's records and telephoned the information to the Salmon Regional Office. Regional personnel compiled the data and forwarded it to Boise headquarters.

Biological aides, college students on summer employment, operated the check stations. They received assistance during periods of heavy traffic from Conservation Officers and field staff personnel. Travel trailers provided housing. Each station was operated from 12 Noon to 8:00 p.m., Thursdays through Mondays, with only one or two minor variations.

FINDINGS:

Salmon

During the 1972 chinook salmon season, check station operators conducted 1,913 angler interviews. These anglers reported fishing 28,437 hours to catch 809 adult salmon, an average of 35 hours per fish (Table 1). Hours per fish ranged from 13 hours on Valley Creek in early July, to 56 hours in Salmon River 8. For 1972, the number of salmon recorded at the stations represented approximately 27 percent of the estimated total harvest as compared to 34 percent in 1971.

As in 1971, anglers were queried on the number of jack salmon caught and kept. In Idaho, a jack salmon (one-year ocean males) twenty inches fork length or less may be included in the anglers bag of trout (10 fish per day or in possession). Anglers are not required to record jack salmon under twenty inches on their salmon permit cards. We recorded 24 jack salmon reported caught by anglers stopping at our stations. Added to the total catch of salmon, the jacks comprised three percent of the total salmon reported at our stations (Table 2). In 1971, jacks comprised 23 percent of this total.

Eighteen percent of the anglers that stopped at our check stations in 1972 were nonresidents. This compares to 18 percent in 1971 and 15 percent in 1970. The nonresident anglers spent 25 percent of the total hours fished and 26 percent of the total man-days expended to catch 22 percent of the total chinook salmon recorded at our stations (Table 3). Most of the nonresident pressure occurred in Salmon River Section 8, as in past years (57 percent). Although the Middle Fork received only 17 percent of the nonresident pressure, it provided the greatest percentage of the nonresident harvest; 35 percent compared to 34 percent from Section 8 (Table 4). Loon Creek, which felt a surge of nonresident pressure in 1971 (16 percent) dropped back close to the pre-1971 level with 4 percent of the nonresident pressure occurring there. The amount of nonresident pressure in Section 7 doubled over the 1971 level from 7 to 16 percent. Nonresident pressure on the other streams remained fairly close to 1970 and 1971 figures.

The ratio of punched to unpunched salmon permits returned to Boise headquarters at the end of the 1972 season indicated the percent of harvest from the various streams and river sections checked at our stations. This allowed me to expand the check station data proportionately and arrive at an estimate of total harvest for those areas covered by our stations (Table 5).

Boise headquarters received permits with 59 salmon recorded as caught from the Salmon River but with no section designation. From the permits returned with section designations, I was able to determine the percent of Salmon caught from each section and apply these percentages to the undesignated permits and place them in a Salmon River section at those ratios. I included these fish in computing the expanded harvest estimates presented in Table 5.

The harvest estimates shown in this report are for the areas covered by our check stations only. Other rivers and streams that provide considerable chinook salmon harvest but are not within the confines of our check station coverage are not considered by this report. Total harvest figures for these streams are compiled in the annual questionnaire survey (F-18-R) conducted by the Boise headquarters office. In 1972, over 44 percent of the total Idaho

chinook salmon harvest occurred in the Little Salmon River where a salmon run returning to Rapid River Hatchery provides an intensive fishery.

Angling success for chinook salmon in the upper Salmon River depends almost directly on water conditions. The first chinook generally enter the anglers' creel the latter part of May, usually near the city of Salmon, Idaho. Spring melt usually curtails salmon angling from the end of May to the latter part of June. For the last three years, however, the Salmon River exceeded long-standing average flows. In 1972, the river broke high water records of 30 years standing. Once again, salmon angling did not become good until after the first part of July.

Normally the long holiday weekend of July 4, provides fair to good salmon fishing. In 1972, a roving field reconnaissance was made over the holiday weekend. The main Salmon River from Challis to the headwaters was patrolled along with the more popular Middle Fork salmon fishing holes. A total of 160 anglers with 24 salmon were interviewed. Stations were set up on July 5, 6, and 7, and a total of 143 salmon were recorded through all 3 check stations over the weekend of July 8 and 9 (Tables 6 and 7).

On July 29 and 30, Jerry Mallet, Anadromous Fishery Supervisor and I back-packed down the Middle Fork of the Salmon River to view the congestion of people reported to occur at the somewhat limited fishing access areas. Although the season was still open, we found the campgrounds nearly deserted and very few anglers on the river. Most of the pressure had occurred earlier in the season and the bulk of the salmon run had apparently moved through the Middle Fork into the tributary spawning streams which were closed to fishing.

We noted that the access trail down the Middle Fork is located mainly a long way from the river and only a few fishing holes are conveniently accessible. In 1970, the Middle Fork was reclassified as a Wild River by the U. S. Forest Service and penetration of the upper fishing area is now limited to horse or foot traffic. Prior to that time many anglers used motorized equipment to reach some of the more remote fishing holes. From reports received at our check stations, it appears that this prohibition of motorized vehicles has tended to alleviate pressure on the more remote fishing holes and, in turn, concentrate it on the closer areas.

Recent Fish and Game regulations that prohibit continued catch and release salmon fishing after the bag limit has been reached may help to alleviate the crowding problem, but, at times, it is severe and the impact on the river bank areas is readily obvious.

The figure of 1,913 angler interviews conducted in 1972 compares with 1,137 in 1971 and 3,512 in 1970. It appears that the extended high water runoff in 1972 again diminished participation, as in 1971.

Trout

Because the signs directing traffic into the check stations referred to all "fishermen", we also interviewed all trout anglers stopping at our stations.

During the course of the four weeks we operated, we interviewed 3,156 trout fishermen that spent 22,247 hours to catch 16,364 trout (Table 14). Nonresidents comprised 25 percent of the trout anglers stopping at our stations, and they fished 30 percent of the total hours recorded and caught 30 percent of the total trout harvest.

As in 1971, we inspected the trout in the creel when available and attempted to define wild trout of all species versus hatchery reared rainbow catchables on the basis of fin deformation. Of 2,211 trout inspected, check station operators recorded 491 as wild trout (22 percent), 1,661 as hatchery trout (75 percent), and 54 trout as unknown (3 percent). The Idaho Fish and Game Department conducts an extensive hatchery catchable trout planting program in the lakes and streams of the upper Salmon River area. It appears that during the period our check station operated, about three-fourths the trout harvest consisted of these fish.

Also during the 1972 season, we defined wild rainbow from hatchery rainbow caught in the Salmon River proper only. Of 450 rainbow inspected, 397 were classified as hatchery origin (88 percent) and 53 as wild (12 percent). We also measured 215 hatchery-origin rainbow. They ranged from 6 1/2 inches (165 mm) to 12 inches (305 mm) and averaged between 9 - 9 1/2 inches (230-240 mm) total length. In the spring of 1973, the Idaho Fish and Game Department plans to release around 1,000,000 hatchery-reared steelhead smolts in the upper Salmon River. The foregoing data was collected to help assess the impact of this release on the trout fishery of the upper Salmon River.

From July 8 through July 31, a total of 5,069 fishermen were interviewed, both trout and salmon, resident and nonresident. Of this total, 38 percent fished for salmon and 62 percent for trout.

LITERATURE CITED:

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Reingold, Melvin. Check station surveillance of chinook salmon fisheries. F-18-R-18, Job 3, 1971 and F-18-R-19, Job 3, 1972.

Submitted by:

Melvin Reingold
Senior Fishery Research Biologist

Table 1. Summary of data collected at the salmon harvest check stations during the 1972 Idaho salmon fishing season.

Number of Angler Interviews:	1,913 (100%)
Resident Anglers:	1,561 (82%)
Nonresident Anglers:	352 (18%)
Hours Fished - Nonresidents:	7,155 (25%)
Hours Fished _ Residents:	21,282 (75%)
Total Hours Fished:	28,437 (100%)
Chinook Caught - Nonresidents:	176 (22%)
Chinook Caught - Residents:	633 (78%)
Total Chinook Caught:	809 (100%)
Hours per Salmon - Nonresidents:	40
Hours per Salmon - Residents:	33
Combined Hours per Salmon:	35
Man-days Spent Angling - Nonresidents:	1,238 (26%)
Man-days Spent Angling - Residents:	3,569 (74%)
Total Man-days Spent Angling:	4,807 (100%)
Man-days per Salmon - Nonresidents:	6.9
Man-days per Salmon - Residents:	5.5
Combined Man-days per Salmon:	5.8

Table 2. The number of adult and jack salmon per each river section or stream as recorded at the three salmon harvest check stations during July, 1972

River Section or Stream	Adult Salmon Recorded	Jack Salmon Recorded	Percent Jack Salmon	Total Salmon Recorded
S.R. 8	317	10	3%	327
S.R. 7	127	8	6%	135
M. Fk.	243	3	1%	246
E. Fk.	29	0	0%	29
Marsh Cr.	20	0	0%	20
Loon Cr.	66	1	1%	67
Valley Cr.	7	0	0%	7
TOTALS	809	22	3%	831

Table 3. Distribution of nonresident salmon fisherman pressure and harvest for each stream and river section during July, 1972.

Stream and River Sections	Total Anglers Checked	Non-Resident Anglers Checked	Total Chinook Checked	Non-Resident Chinook Harvest
Salmon River - 8	1,008	202 (20%)	317	61 (19%)
Middle Fork	336	60 (18%)	243	62 (26%)
Salmon River - 7	310	56 (18%)	127	14 (11%)
East Fork	61	18 (29%)	29	16 (55%)
Loon Creek	107	15 (14%)	66	26 (39%)
Marsh Creek	71	1 (1%)	20	0
Valley Creek	20	0	7	0
TOTALS	1,913	352 (18%)	809	179 (22%)

Table 4. Distribution of nonresident salmon fisherman pressure for each stream and river section and percent of harvest compared to total (resident plus nonresident) harvest, 1972.

Stream and River Sections	Non-Resident Anglers Recorded	Percent of Non-Resident Anglers	N-Res. Percent of Total Anglers	Percent of Non-Resident Harvest	N.-Res. Percent of Total Harvest	Percent of Total Harvest Per Area
Salmon River-8	202	57%	10.5%	34%	7.5%	39%
Middle Fork	60	17%	3.0%	35%	7.6%	30%
Salmon River-7	56	16%	2.7%	8%	1.7%	15%
East Fork	18	5%	0.9%	9%	1.9%	4%
Loon Creek	15	4%	0.8%	14%	3.3%	8%
Marsh Creek	1	1%	0.1%	0%	0.0%	3%
Valley Creek	0	0%	0.0%	0%	0.0%	1%
TOTALS	352	100%	18.0%	100%	22.0%	100%

Table 5. Summary of marked and unmarked permits returned by salmon anglers and expanded estimates derived from these data and from the Idaho 1972 random survey.

Stream or River Section	Total No. Salmon on Permits Returned to Boise	No. of Station Marks on Permits	Percent Marked at Stations	No. Salmon on Permits Marked at Stations	No. Salmon Recorded at Stations	Percent of Harvest Recorded at Stations	Chinook Harvest Estimates	
							From Check Stations	From Random Survey 3/
S.R. 8	221	76	34.4% 1/	351 1/	317 2/	31.1% 2/	1,020	1,037
S.R. 7	91	23	25.2%	117	127	27.3%	464	402
Mid. Fk.	147	39	26.5%	265	243	24.3%	1,000	945
East Fk.	32	8	25.0%	48	29	15.1%	192	163
Marsh Cr.	7	2	28.6%	20	20	28.5%	70	31
Valley Cr.	10	2	20.0%	10	7	14.0%	50	43
Loon Cr.	49	18	36.7%	80	66	30.3%	218	215
Totals	557	168	30.1%	891	809	26.8%	3,014	2,836

1/ These columns represent the salmon recorded at the stations caught on that trip and all prior trips as shown on the anglers' salmon permit card. Harvest estimates are computed from these figures.

2/ These columns represent the salmon recorded at the stations caught on that trip only. It does not include fish caught on prior trips.

3/ See Job 1, F-18-R-18, Mallet, 1973. The totals do not represent the total state catch, only the catch for the streams and Salmon River sections listed.

Table 6. Fish caught, hours fished and hours per fish, by area, recorded at the salmon harvest check stations in July, 1972

	July, 1972														
	WEEK (Monday through Sunday)														
	1 - 9			10 - 16			17 - 23			24 - 31			Combined		
Area	Fish Cght.	Hours Fished	Hrs. Fish	Fish Cght.	Hours Fished	Hrs. Fish	Fish Cght.	Hours Fished	Hrs. Fish	Fish Cght.	Hours Fished	Hrs. Fish	Fish Cght.	Hours Fished	Hrs. Fish
S.R. - 8	49	2744	56.0	120	4360	36.3	71	3392	47.7	77	4131	53.6	317	14,627	46.1
S.R. - 7	35	813	23.2	15	504	33.6	17	826	48.6	60	2010	33.5	127	4,153	32.7
Middle Fk.	94	1871	19.9	104	2996	28.8	33	800	24.3	12	437	36.4	243	6,104	25.1
Loon Cr.	20	412	20.6	10	192	19.2	12	284	23.7	24	464	19.3	66	1,352	20.4
Marsh Cr.	2	28	14.0	6	224	37.3	2	236	118.0	10	305	30.5	20	793	39.7
Valley Cr.	2	26	13.0	5	92	18.4	0	0	——	0	0	——	7	118	16.8
East Fork	3	54	18.0	12	454	37.8	10	412	41.2	4	124	31.0	29	924	31.9

Table 7. Summary of salmon recorded at all check stations and roving checks, by day, during July, 1972.

July, 1972					
Date	Day	No. Fish	Date	Day	No. Fish
1	S	4	17	M	30
2	Sn	6	18	T	-
3	M	14	19	W	-
4	T	- 1/	20	Th	20
5	W	-	21	F	29
6	Th	10	22	S	16
7	F	19	23	Sn	52
8	S	30	24	M	15
9	Sn	113	25	T	-
10	M	28	26	W	-
11	T	-	27	Th	16
12	W	-	28	F	37
13	Th	38	29	S	28
14	F	82	30	Sn	55
15	S	54	31	M	38
16	Sn	75	TOTAL		809

1/ A dash (-) indicates no stations operating that date.

Table 8. Fork length, in inches, of 422 salmon measured at the salmon harvest check stations during July, 1972.

Fork Length	Males	Females
20	1	
21	5	1
22	1	
23	4	
24	17	1
25	17	1
26	28	1
27	20	1
28	18	2
29	23	5
30	16	5
31	23	5
32	10	8
33	5	2
34	8	15
35	4	17
36	4	15
37	1	23
38	2	25
39	2	14
40	13	11
41	13	7
42	13	3
43	4	0
44	5	0
45	1	1
46	0	0
47	1	0
Totals	259 (61%)	163 (39%)

Table 9. Summary of salmon recorded daily at the Banner Summit check station by stream and river sections during July, 1972.

Date	Day	S.R. 8	S.R. 7	M. Fk.	E. Fk.	Marsh	Valley	Loon
7	F	5	0 1/	0	0	0	0	0
8	S	0	0	12	0	0	0	0
9	Sn	6	0	37	0	0	1	0
10	M	1	0	12	0	0	0	0
11	T	- 2/	-	-	-	-	-	-
12	W	-	-	-	-	-	-	-
13	Th	8	0	3	0	0	0	0
14	F	0	0	21	0	0	0	0
15	S	0	0	3	0	0	0	0
16	Sn	1	0	10	0	2	1	0
17	M	0	0	1	0	0	0	0
18	T	-	-	-	-	-	-	-
19	W	-	-	-	-	-	-	-
20	Th	0	0	0	0	0	0	0
21	F	0	0	0	0	0	0	0
22	S	0	0	8	0	0	0	0
23	Sn	1	0	0	0	0	0	0
24	M	0	0	0	0	0	0	0
25	T	-	-	-	-	-	-	-
26	W	-	-	-	-	-	-	-
27	Th	0	0	0	0	0	0	0
28	F	1	0	1	0	0	0	0
29	S	1	0	0	0	1	0	0
30	Sn	2	0	0	0	1	0	0
31	M	-	-	-	-	-	-	-
TOTALS		26	0	108	0	4	2	0

1/ A zero (0) indicates no salmon checked that day.

2/ A dash (-) indicates no station operating that day.

Table 10. Summary of salmon recorded daily at the Frenchman Creek check station by stream and river sections during July, 1972

Date	Day	S.R. 8	S.R. 7	M. Fk.	E. Fk.	Marsh	Valley	Loon
6	Th	0 1/	1	5	0	0	0	4
7	F	0	1	11	0	0	0	2
8	S	0	9	1	0	0	0	1
9	Sn	5	22	16	0	0	0	11
10	M	3	0	0	0	0	0	4
11	T	- 2/	-	-	-	-	-	-
12	W	-	-	-	-	-	-	-
13	Th	11	0	2	0	0	0	2
14	F	6	0	17	0	1	0	0
15	S	17	0	2	5	0	3	0
16	Sn	32	0	8	0	1	2	0
17	M	2	0	5	0	0	0	8
18	T	-	-	-	-	-	-	-
19	W	-	-	-	-	-	-	-
20	Th	0	0	0	0	0	0	0
21	F	3	0	6	0	0	0	2
22	S	3	0	4	0	0	0	0
23	Sn	14	0	1	3	1	0	0
24	M	4	0	4	0	0	0	0
25	T	-	-	-	-	-	-	-
26	W	-	-	-	-	-	-	-
27	Th	2	0	0	0	0	0	0
28	F	8	2	0	0	5	0	3
29	S	3	1	1	1	0	0	2
30	Sn	9	2	0	1	4	0	0
31	M	4	0	0	0	0	0	0
TOTALS		126	38	83	10	12	5	39

1/ A zero (0) indicates no salmon checked that day.

2/ A dash (-) indicates no station operating that day.

Table 11. Summary of salmon recorded daily at the Challis check station by stream and river sections during July, 1972

Date	Day	S.R. 8	S.R. 7	M. Fk.	E. Fk.	Marsh	Valley	Loon
8	S	5	1	0 1/	0	1	0	0
9	Sn	7	0	3	2	0	0	3
10	M	6	1	1	0	0	0	0
11	T	- 2/	-	-	-	-	-	-
12	W	-	-	-	-	-	-	-
13	Th	2	2	5	3	0	0	0
14	F	15	5	17	0	0	0	0
15	S	3	9	6	6	0	0	0
16	Sn	13	2	1	2	0	0	0
17	M	12	2	0	0	0	0	0
18	T	-	-	-	-	-	-	-
19	W	-	-	-	-	-	-	-
20	Th	14	0	6	0	0	0	0
21	F	8	2	8	0	0	0	0
22	S	1	0	0	0	0	0	0
23	Sn	14	12	0	2	0	0	0
24	M	5	0	2	0	0	0	0
25	T	-	-	-	-	-	-	-
26	W	-	-	-	-	-	-	-
27	Th	1	6	0	1	1	0	0
28	F	8	2	0	2	0	0	0
29	S	7	10	0	1	0	0	0
30	Sn	6	18	0	0	2	0	10
31	M	14	17	3	0	0	0	0
TOTALS		141	89	52	19	4	0	27

1/ A zero (0) indicates no salmon checked that day.

2/ A dash (-) indicates no station operating that day.

Table 12. Summary of salmon recorded daily at all three check stations by stream and river sections during July, 1972.

Date	Day	S.R. 8	S.R. 7	M. Fk.	E. Fk.	Marsh	Valley	Loon
6	Th	0 1/	1	5	0	0	0	4
7	F	5	1	11	0	0	0	2
8	S	5	10	13	0	1	0	1
9	Sn	18	22	56	2	0	1	14
10	M	10	1	13	0	0	0	4
11	T	- 2/	-	-	-	-	-	-
12	W	-	-	-	-	-	-	-
13	Th	21	2	10	3	0	0	2
14	F	21	5	55	0	1	0	0
15	S	20	9	11	11	0	3	0
16	Sn	46	2	19	2	3	3	0
17	M	14	2	6	0	0	0	8
18	T	-	-	-	-	-	-	-
19	W	-	-	-	-	-	-	-
20	Th	14	0	6	0	0	0	0
21	F	11	2	14	0	0	0	2
22	S	4	0	12	0	0	0	0
23	Sn	29	12	1	5	1	0	4
24	M	9	0	6	0	0	0	0
25	T	-	-	-	-	-	-	-
26	W	-	-	-	-	-	-	-
27	Th	3	6	0	1	6	0	0
28	F	17	4	1	2	0	0	13
29	S	11	11	1	2	1	0	2
30	Sn	17	20	0	1	7	0	10
31	M	18	17	3	0	0	0	0
TOTALS		293	127	243	29	20	7	66 3/

1/ A zero (0) indicates no salmon checked that day.

2/ A dash (-) indicates no station operating that day.

3/ Does not include 24 fish recorded July 1 - 3 by roving check.

Table 13. Summary of salmon recorded at each check station during the 1972 salmon angling season.

Stream & River Sections	NUMBER FISH RECORDED PER STATION				
	Challis	Banner	Frenchman	Combined	Percent
Salmon River - 8	152	47	118	317	39
Salmon River - 7	93	0	34	127	15
Middle Fork	54	112	77	243	30
Loon Creek	25	0	41	66	8
Marsh Creek	3	2	15	20	3
Valley Creek	0	2	5	7	1
East Fork	19	0	10	29	4
	346 (43%)	163 (20%)	300 (37%)	809	100%

Table 14. Summary of trout angler data collected at the F-18-R salmon harvest check stations during June and July, 1972.

Number of Angler Interviews:	3,156 (100%)
Resident Anglers:	2,384 (75%)
Non-Resident Anglers:	772 (25%)
Hours Fished, Non-Resident:	6,883 (30%)
Hours Fished, Resident:	16,364 (70%)
Total Hours Fished:	23,247 (100%)
Trout Caught, Non-Resident	4,322 (30%)
Trout Caught, Resident:	10,131 (70%)
Trout Caught, Combined:	14,453 (100%)
Hours Per Trout, Non-Resident:	1.6
Hours Per Trout, Resident:	1.6
Man-days Spent Angling, Non-Res.:	1,971 (29%)
Man-days Spent Angling, Resident:	4,989 (71%)
Total Man-days Spent Angling:	6,960 (100%)
Hrs./Man-day Spent Angling, Non-Res.:	3.5
Hrs./Man-day Spent Angling, Resident:	3.3

Figure 1. Anglers took over an estimated 3,000 chinook salmon during the 1972 salmon fishing season in the upper Salmon River areas covered by our check stations.

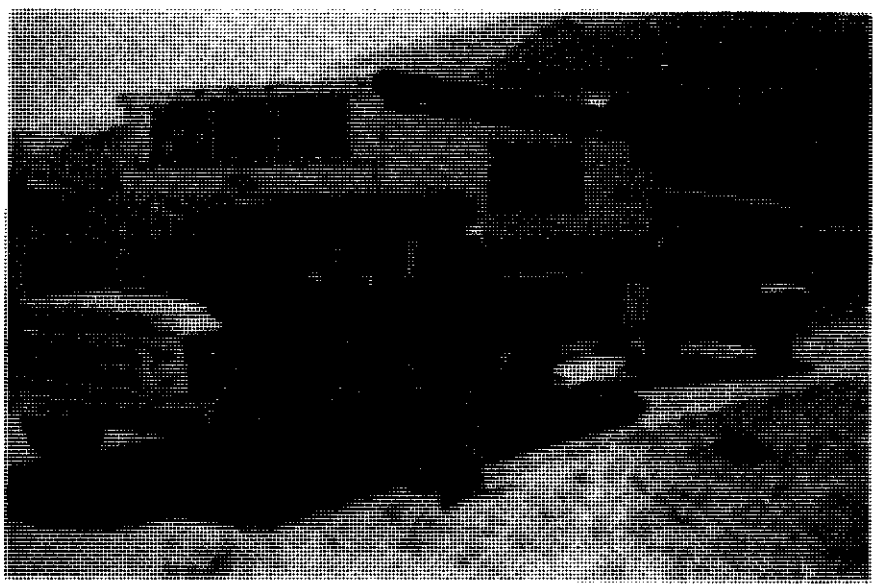

Figure 2. Approximately 43 percent of all the salmon fishermen that stopped at our check stations passed through the Challis (Malm Gulch) station.

JOB COMPLETION REPORT

Research Project Statement

State of IDAHO

Project No. F-18-R-19

Job No. 3

Name: ANNUAL SURVEY OF SALMON AND STEELHEAD SPORT FISHERY HARVEST IN IDAHO

Title: Check Station Surveillance of Salmon and Steelhead Fisheries in Idaho (Steelhead only)

Period Covered: March 1, 1972 to February 28, 1973

ABSTRACT:

Steelhead check stations operating in major Salmon River steelhead fishing areas (sections 3, 4, 5, and 6) in the spring and fall of 1972, provided estimates of hatchery fish catch percentages and described fishing success and fish size.

Starting with the fall of 1972 steelhead information was gathered by roving census clerks in Salmon River sections 1 (Graves Creek) and 2 (Riggins to Whitebird).

Census clerks also collected steelhead information in the lower Snake River, below the mouth of the Salmon River, and in the upper Clearwater River (Orofino to Lowell) during the fall of 1972.

Submitted by:

Don Corley
Regional Fishery Biologist

Tom Welsh
Regional Fishery Biologist

Ron Lindland
Senior Fishery Research Biologist

RECOMMENDATIONS:

Steelhead check stations at North Fork and Riggins should be operated throughout the fall and spring fishing seasons each year. Operation of these check stations each weekend day throughout the season should provide adequate information. Roving census clerks should gather steelhead harvest data in other stream sections where hatchery contributions or management data is needed.

OBJECTIVES:

To collect steelhead catch statistics from selected heavily fished river sections which can be utilized to prorate harvest estimates by river section and to provide estimates of hatchery steelhead returns.

To provide timely catch information for use by department personnel and the public.

TECHNIQUES USED:

Personnel operate steelhead harvest check stations covering primary egress points for Salmon River sections 3, 4, and 5 at sites above Riggins (Section 3) and at North Fork (sections 4 and 5). Roving census clerks also collect steelhead harvest data from Salmon River sections 1 (Graves Creek) and 2 (Riggins to Whitebird), lower Snake River (below the mouth of the Salmon River) and the upper Clearwater River (Orofino to Lowell).

FINDINGS:

Total steelhead catch estimates by month for the Salmon River from 1964 to 1972 are summarized from Job 1 of the Statewide Fishing Harvest Survey (Table 1). We have subdivided the catch by river sections since 1969 (Job 1).

Heavy ice conditions prevailed from Riggins to near the mouth of the Middle Fork until about March 1. This condition had limited access by jet boaters. Water conditions were generally muddy in the upper areas after the ice went out and until the season closed on March 15.

Don Corley, Regional Fishery Biologist, Salmon, operated the North Fork check station (stream sections 4 and 5) from February 19 to 27. Because fishing in that area was severely limited by muddy water after March 1, Corley did not operate the station but utilized a roving census clerk between North Fork and Ellis (stream sections 5 and 6). Data was gathered on each weekend day from February 19 to March 12, 1972. A total of 223 steelhead anglers were checked in river sections 4, 5, and 6 who had fished 937 hours to catch 24 steelhead at a rate of 39.0 hours per fish (Table 2). Approximately 66.7 percent of the fish harvested were identified as hatchery fish. Three marked fish were inspected in Section 4 (Table 4), 11 in Section 5 (Table 5), and 2 in Section 6 (Table 6).

Tom Welsh, Regional Fishery Biologist, McCall, operated the Shorts Bar check station from February 19 to March 12, 1972. This station was also operated two days per week (Saturday and Sunday). A total of 555 anglers were checked at the Shorts Bar station who had fished 3,862 hours to catch 54 steelhead at the rate of 74.3 hours per fish (Table 7). Approximately 28.0 percent of the fish inspected were of hatchery origin. Fourteen marked fish were inspected in river Section 3 (Table 8).

Length frequency distributions of steelhead by type of fish (marked or unmarked) in the spring of 1972 at Shorts Bar is shown in Table 9.

Corley operated the North Fork check station during the fall of 1972 from October 1 to November 12. The station was operated 2 days per week (Saturday and Sunday) throughout the season. A total of 898 steelhead anglers were checked at the North Fork station who had fished 7,158 hours to catch 250 steelhead at a rate of 28.6 hours per fish (Table 10). Approximately 34.3 percent of the fish inspected were identified as hatchery fish. Twenty marked steelhead were inspected from river Section 4 (Table 12) and 57 marked fish were inspected from river Section 5 (Table 13). A length frequency distribution of marked and unmarked steelhead that were checked at the North Fork station in the fall of 1972 is listed in Table 14.

Welsh operated the Shorts Bar check station during the fall of 1972 from September 30 to November 26. This station was also operated 2 days a week (Saturday and Sunday) throughout the season. A total of 785 anglers fished 5,488 hours to catch 133 steelhead at a rate of 41.3 hours per fish (Table 15).

Approximately 18.8 percent of the steelhead inspected at this station were identified as hatchery fish. Twenty-seven marked fish were inspected from river Section 3 (Table 16). A length frequency distribution for marked and unmarked fish is listed in Table 17.

A census taker gathered steelhead fishing information by on stream contacts from Riggins to Whitebird (river Section 2) for the first time during the fall of 1972. The census clerk censused anglers each weekend day from September 30 to November 12. A total of 559 steelhead anglers were contacted who had fished a total of 2,103 hours to catch 67 steelhead at a rate of 31.4 hours per fish (Table 18). Approximately 13.4 percent of the fish inspected were identified as hatchery origin.

Welsh classified anglers checked at the Shorts Bar station during 1972 in two categories: (1) anglers fishing with an outfitter, and (2) anglers fishing without an outfitter (private parties). This information is summarized as follows:

Type of angler	Number anglers	Hours	Steelhead caught	Hours per fish
Outfitter	143	2,184	72	30.3
Private	1,153	7,092	121	58.6

Most anglers (89.0 percent) checked at the Shorts Bar station fished without an outfitter, but their catch rate was once again about half of that of anglers fishing with outfitters.

Ron Lindland, Fishery Research Biologist, conducted creel checks of steelhead anglers on the upper Clearwater River (Orofino to Lowell), lower Snake River (Lewiston to Salmon River), and at Graves Creek on the Salmon River (Section 1) during the fall of 1972.

Between October 1 and December 3, Lindland interviewed 43 boat anglers (Table 19) and 266 bank anglers (Table 20) on the upper Clearwater River. Boat anglers fished 148.5 hours and caught one hatchery steelhead and six wild steelhead (21.2 hours per fish). Bank anglers fished 465 hours and caught one hatchery steelhead and 19 wild steelhead (23.2 hours per fish).

Between October 2 and November 28, 1972, Lindland interviewed 797 boat anglers (Table 21) and 41 bank anglers (Table 22) who had fished the Snake River from the mouth of the Salmon River downstream to below the mouth of the Clearwater River. The majority of the boat interviews were collected at the Lewiston Municipal Boat Launch. Boat anglers fished 4,503.5 hours to catch 279 steelhead (16.1 hours per fish). Of this total, 93 were identified as hatchery

fish, 128 as wild fish, and 58 were not seen. The bank anglers interviewed had fished 72.5 hours for one wild fish. A length frequency distribution of marked and unmarked steelhead is listed in Table 23.

Interviews were conducted between October 7 and November 15, 1972 in the Graves Creek area of the Salmon River (Section 1). A total of 45 boat anglers were checked who had fished 166.5 hours to catch nine wild steelhead (18.5 hours per fish) (Table 24). An additional 185 bank anglers were interviewed who had fished 684.5 hours for 24 wild steelhead (28.5 hours per fish) (Table 25). No hatchery steelhead were checked in this section.

Table 1. Estimates of Salmon River steelhead catches 1964 to 1972 by month from statewide fishing harvest survey, Idaho.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1972	503	709	503	77	66	33	--	36	552	5,991	3,767	1,287	13,524
1971	221	613	1,055	435	22	11	16	27	678	4,154	2,610	323	10,165
1970	281	1,522	1,838	748	133	--	--	9	508	3,190	1,547	331	10,107
1969	392	749	1,551	321	134	125	134	53	383	2,906	1,872	308	8,914
1968	422	885	2,018	906	175	93	93	10	257	2,780	2,090	566	10,295
1967	447	1,832	1,832	1,416	138	43	53	11	138	1,885	2,279	564	10,650
1966	390	511	1,832	669	102	65	28	--	186	2,529	2,148	837	9,298
1965	167	150	1,622	705	44	53	--	79	405	3,331	1,912	326	8,813
1964	346	768	2,237	1,700	58	10	--	10	403	2,112	1,584	384	9,602

Table 2. Summary of steelhead check station data collected at North Fork check station (February 19-27) and individual contacts between North Fork and Ellis (March 4-12), Salmon River, spring, 1972.

Date	Anglers	Hours	Steelhead caught	Marked fish	Unmarked fish	Hours per fish	Percent hatchery
Section 4							
February 19	8	50	2	1	1	25.0	50.0
February 20	14	129	1	1	--	129.0	100.0
February 26	--	--	--	--	--	--	--
February 27	21	194	5	1	4	38.8	20.0
Totals	43	373	8	3	5	46.6	37.5
Section 5							
February 19	18	27	2	2	--	13.5	100.0
February 20	14	62	2	1	1	62.0	50.0
February 26	10	38	1	1	--	38.0	100.0
February 27	8	43	0	--	--	--	--
March 4	10	21	3	3	--	7.0	100.0
March 5	23	90	4	3	1	22.5	75.0
March 11	16	48	0	--	--	--	--
March 12	11	41	1	1	--	41.0	100.0
Totals	102	370	13	11	2	30.8	84.6
Section 6							
March 4	38	73	1	1	--	73.0	100.0
March 5	--	--	--	--	--	--	--
March 11	17	60	0	--	--	--	--
March 12	23	61	2	1	1	30.5	50.0
Totals	78	194	3	2	1	64.7	66.7
Spring total	223	937	24	16	8	39.0	66.7

Table 3. Summary of steelhead check station data collected at North Fork check station, spring, 1972, by river section.

	Number anglers			Hours fished			Total fish caught			Hours per fish		
	River section			River section			River section			River section		
Date	4	5	6	4	5	6	4	5	6	4	5	6
Feb. 19	8	10	-	50	27	-	2	2	-	25.0	13.5	-
Feb. 20	14	14	-	129	62	-	1	2	-	129.0	62.0	-
Feb. 26	-	10	-	-	38	-	-	1	-	-	38.0	-
Feb. 27	21	8	-	194	43	-	5	0	-	38.8	-	-
Mar. 4 1/	-	10	38	-	21	73	-	3	1	-	7.0	73.0
Mar. 5	-	23	-	-	90	-	-	4	-	-	22.5	-
Mar. 11	-	16	17	-	48	60	-	0	0	-	-	-
Mar. 12	-	11	23	-	41	61	-	1	2	-	41.0	30.5
Totals	43	102	78	373	370	194	8	12	3	46.6	30.8	64.7

1/ Since the Salmon River was unfishable below Deadwater (sections 4 and 5) after March 3, the data presented after this time was collected by individual contacts with anglers fishing between North Fork and Ellis (sections 5 and 6).

Table 4. Breakdown of marked steelhead (by individual mark) that were caught in river Section 4 and checked at the North Fork check station during the spring of 1972.

Date	Total marked fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Feb. 19	1	1						
Feb. 20	1	1						
Feb. 26								
Feb. 27	1						1	
Mar. 4 1/								
Mar. 5								
Mar. 11								
Mar. 12								
Totals	3	2					1	

1/ Since the Salmon River was unfishable below Deadwater after March 3, the data presented after this time was by individual contacts with anglers fishing between North Fork and Ellis.

Table 5. Breakdown of marked steelhead (by individual mark) that were caught in river Section 5 and checked at the North Fork check station during the spring of 1972.

Date	Total marked fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Feb. 19	2	2						
Feb. 20	1	1						
Feb. 26	1	1						
Feb. 27								
Mar. 4 1/	3	3						
Mar. 5	3	3						
Mar. 11								
Mar. 12	1	1						
Totals	11	11						

1/ Since the Salmon River was unfishable below Deadwater after March 3, the data presented after this time was by individual contacts with anglers fishing between North Fork and Ellis.

Table 6. Breakdown of marked steelhead (by individual mark) that were caught in river Section 6 and checked during individual angler contacts during the spring of 1972.

Date	Total marked fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Mar. 4	1	1						
Mar. 12	1	1						
Totals	2	2						

Table 7. Summary of steelhead check station data collected at Shorts Bar check station, Salmon River, spring, 1972.

Date	Anglers	Hours	Steelhead caught	Marked fish	Unmarked fish	Hours per fish	Percent hatchery
Section 2							
Feb. 19	2	10	1	0	1	10.0	0.0
Feb. 20	1	11	1	0	0	11.0	--
Feb. 26	--	--	--	--	--	--	--
Feb. 27	5	37	1	0	1	37.0	0.0
Feb. Totals	8	58	3	0	2	19.3	0.0
Mar. 4	3	7	0	--	--	--	--
Mar. 5	--	--	--	--	--	--	--
Mar. 11	--	--	--	--	--	--	--
Mar. 12	--	--	--	--	--	--	--
Mar. Totals	3	7	0	--	--	--	--
Section 3							
Feb. 19	36	103	--	--	--	--	--
Feb. 20	44	173	1	0	1	173.0	0.0
Feb. 26	18	65	1	0	1	65.0	0.0
Feb. 27	43	232	7	5	2	33.1	71.4
Feb. Totals	141	573	9	5	4	63.7	55.6
Mar. 4	57	281	1	1	0	281.0	100.0
Mar. 5	167	1,355	14	0	11	90.3	0.0
Mar. 11	64	387	4	2	2	96.8	50.0
Mar. 12	126	1,266	23	6	17	55.0	26.1
Mar. Totals	414	3,289	42	9	30	76.5	23.1
Spring totals	555	3,862	54	14	36	74.3	28.0

Table 8. Breakdown of marked fish (by individual mark) that were caught in river Section 3 and checked at Shorts Bar check station in the spring of 1972.

Date	Total marked fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Feb. 27	5	5						
Mar. 4	1	1						
Mar. 11	2	2						
Mar. 12	6	6						
Totals	14	14						

Table 9. Length frequency distribution of steelhead trout in creels examined at Shorts Bar check station, Salmon River, spring, 1972.

Total length (inches)	Deformed dorsal	Marked fish	Unmarked fish
19			1
20			
21	2		1
22			
23	3		1
24	4		
25	2		9
26	1		5
27	1		1
28			4
29			1
30			2
31			2
32	1		3
33			
34			1
35			2
36			1
37			1
38			1

Table 10. Summary of steelhead check station data collected at North Fork check station, Salmon River, fall, 1972.

Date	Anglers	Hours	Steelhead caught	Marked fish	Unmarked fish	Hours per fish	Percent hatchery
Section 4							
Oct. 1	17	96	6	1	4	16.0	20.0
Oct. 7	8	144	4	1	0	36.0	100.0
Oct. 8	28	334	2	1	1	167.0	50.0
Oct. 14	15	212	5	0	5	42.4	0.0
Oct. 15	23	258	12	0	12	21.5	0.0
Oct. 21	18	419	11	1	8	38.1	11.1
Oct. 22	50	722	32	1	31	24.1	3.2
Oct. 28	19	287	18	6	11	15.9	35.2
Oct. 29	29	459	15	3	11	30.6	21.4
Oct. Totals	207	2,931	105	14	83	27.9	14.4
Nov. 4	--	--	--	--	--	--	--
Nov. 5	29	357	29	5	16	12.3	23.8
Nov. 11	12	121	2	1	1	60.5	50.0
Nov. 12	25	323	8	2	6	40.4	33.3
Nov. Totals	66	801	39	8	23	20.5	25.8
Section 5							
Oct. 1	104	451	11	7	4	41.0	63.6
Oct. 7	33	164	5	1	2	32.8	33.3
Oct. 8	96	520	14	7	7	37.1	50.0
Oct. 14	30	186	7	4	3	26.6	57.1
Oct. 15	68	469	7	3	4	67.0	42.8
Oct. 21	15	146	3				
Oct. 22	57	299	11	6	5	27.2	54.5
Oct. 28	29	118	12	5	5	9.8	50.0
Oct. 29	56	234	10	5	5	23.4	50.0
Oct. Totals	488	2,587	80	41	37	32.3	52.5
Nov. 4	22	129	5	3	2	25.8	60.0
Nov. 5	24	122	9	5	3	13.6	62.5
Nov. 11	37	184	5	4	1	36.8	80.0
Nov. 12	54	404	7	4	2	57.7	66.6
Nov. Totals	137	839	26	16	8	32.3	66.6
Fall Totals	898	7,158	250	79	151	28.6	34.3

Table 11. Summary of steelhead check station data collected at North Fork check station, fall, 1972, by river section.

Date	Number anglers			Hours fished			Total fish caught			Hours per fish		
	River section			River section			River section			River section		
	4	5	M.F.	4	5	M.F.	4	5	M.F.	4	5	M.F.
Oct. 1	17	104	-	96	451	-	6	11	-	16.0	41.0	-
Oct. 7	8	33	-	144	164	-	4	5	-	36.0	32.8	-
Oct. 8	28	96	-	334	520	-	2	14	-	167.0	37.1	-
Oct. 14	15	30	-	212	186	-	5	7	-	42.4	26.6	-
Oct. 15	23	68	-	258	469	-	12	7	-	21.5	67.0	-
Oct. 21	18	15	2	419	146	6	11	3	1	38.1	48.6	6.0
Oct. 22	50	57	-	722	299	-	30	11	-	24.1	27.2	-
Oct. 28	19	29	-	287	118	-	18	12	-	15.9	9.8	-
Oct. 29	29	56	-	459	234	-	15	10	-	30.6	23.4	-
Nov. 4	-	22	-	-	129	-	-	5	-	-	25.8	-
Nov. 5	29	24	-	357	122	-	29	9	-	12.3	13.6	-
Nov. 11	12	37	-	121	184	-	2	5	-	60.5	36.8	-
Nov. 12	25	54	-	323	404	-	8	7	-	40.4	57.7	-
Totals	273	625	2	3,732	3,426	6	142	106	1	26.3	32.3	6.0

Table 12. Breakdown of marked steelhead (by individual mark) that were caught in river Section 4 and checked at the North Fork check station during the fall of 1972.

Date	Total Marked Fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Oct. 1	1	1						
Oct. 7	1	1						
Oct. 8	1	1						
Oct. 14								
Oct. 15								
Oct. 21	1	1						
Oct. 22	1	1						
Oct. 28	6	4			1	1		
Oct. 29	1	1						
Nov. 4								
Nov. 5	5	5						
Nov. 11	1	1						
Nov. 12	2	2						
Totals	20	18			1	1		

Table 13. Breakdown of marked steelhead (by individual mark) that were caught in river Section 5 and checked at the North Fork check station during the fall of 1972.

Date	Total Marked Fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Oct. 1	7	6	1					
Oct. 7	1	1						
Oct. 8	7	7						
Oct. 14	4	3			1			
Oct. 15	3	2			1			
Oct. 21	3	2	1					
Oct. 22	6	5	1					
Oct. 28	5	5						
Oct. 29	5	4				1		
Nov. 4	3	3						
Nov. 5	5	4	1					
Nov. 11	4	2			2			
Nov. 12	4	2	2					
Totals	57	46	6		4	1		

Table 14. Length frequency distribtuion of steelhead trout in creels examined at North Fork check station, Salmon River - fall, 1972.

Total length	Deformed dorsal		Marked fish		Unmarked fish	
Inches	Females	Males	Females	Males	Females	Males
20	1				1	
21	1		RVAD	RV, LV	3	
22	1	3	RV		6	1
23	2	1	LV	RV	6	2
24	1		RVAD	RV	4	2
25	7	2			7	1
26	4	3			10	7
27	11	3	2-LV RV		15	6
28	12	2	RV	LV	17	7
29	2	2	LV RV		11	2
30	1	1			6	5
31	1	1			7	5
32	1				4	1
33					2	4
34					3	1
35					2	2
36	1					1
37						
38						2
Totals	49	18	10	5	104	49

Table 15. Summary of steelhead check station data collected at Shorts Bar check station, Salmon River, fall, 1972.

Date	Anglers	Hours	Steelhead caught	Marked fish	Unmarked fish	Hours per fish	Percent hatchery
Section 3							
Sept. 30	23	57	2	1	0	28.5	100.0
Oct. 1	28	115	--	--	--	--	--
Oct. 7	20	105	2	0	2	52.5	0.0
Oct. 8	34	209	3	0	3	69.7	0.0
Oct. 14	32	135	1	0	1	135.0	0.0
Oct. 15	45	481	6	4	2	80.2	66.7
Oct. 21	48	332	5	1	4	66.4	20.0
Oct. 22	73	789	18	2	16	43.8	11.1
Oct. Totals	280	2,166	35	7	28	61.9	20.0
Nov. 4	34	184	7	1	6	26.3	14.3
Nov. 5	69	630	19	1	18	33.2	5.3
Nov. 11	35	172	9	0	9	19.1	0.0
Nov. 12	91	666	22	0	22	30.3	0.0
Nov. 18	23	136	2	0	2	68.0	0.0
Nov. 19	101	776	26	13	13	29.8	50.0
Nov. 25	57	290	2	0	2	145.0	0.0
Nov. 26	43	285	9	3	6	31.7	33.3
Nov. Totals	453	3,139	96	18	78	32.7	18.8
Section 2							
Oct. 8	1	20	1	0	1	20.0	0.0
Oct. 21	3	21	1	0	1	21.0	0.0
Oct. Totals	4	41	2	0	2	20.5	0.0
Nov. 18	25	85	0	--	--	--	--
Fall Totals	785	5,488	133	25	108	41.3	18.8

Table 16. Breakdown of marked fish (by individual mark) that were caught in river Section 3 and checked at Shorts Bar check station in the fall of 1972.

Date	Total marked fish	Deformed dorsal	LV	LVAD	RV	RVAD	AD	Other
Sept. 30	1	1						
Oct. 15	4	4						
Oct. 21	1	1						
Oct. 22	2						2	
Nov. 4	1	1						
Nov. 5	1	1						
Nov. 18	1	1						
Nov. 19	13	12						1 LP
Nov. 26	3	3						
Totals	27	24					2	1

Table 17. Length frequency distribution of steelhead trout in creels examined at Shorts Bar check station, Salmon River, fall, 1972

Total length (inches)	Deformed dorsal	Marked fish	Unmarked fish
20			
21	1		
22			1
23	2		2
24	2		6
25	4		2
26	3		16
27	4		9
28		1	8
29	5		14
30	1		11
31		1	12
32	2	1	10
33			7
34			7
35			1
36			
37			2
38			
39			1

Table 18. Summary of Riggins to Whitebird steelhead creel census (Section 2) fall, 1972.

Date	Anglers	Hours	Steelhead caught	Marked* fish	Unmarked fish	Hours per fish	Percent hatchery
Sept. 30	35	167	7	2	5	23.9	28.6
Oct. 1	42	183	9	3	6	20.3	33.3
Oct. 7	50	219	4	-	4	54.3	0.0
Oct. 8	58	200	1	-	1	200.0	0.0
Oct. 14	44	172	4	1	3	43.0	25.0
Oct. 15	63	158	2	-	2	79.0	0.0
Oct. 21	70	284	9	-	9	31.6	0.0
Oct. 22	45	106	1**	-	-	106.0	-
Oct. Total	372	1,322	30	4	25	44.1	13.8
Nov. 4	21	69	4	1	3	17.3	25.0
Nov. 5	45	210	4	-	4	52.5	0.0
Nov. 11	42	183	17	2	15	10.8	11.8
Nov. 12	44	152	5	-	5	30.4	0.0
Nov. Total	152	614	30	3	27	20.5	10.0
Fall Totals	559	2,103	67	9	58	31.4	13.4

* One left pectoral clip, remainder of marks were eroded dorsals.

** Caught and released.

Table 19. Creel census summary of steelhead boat anglers, upper Clearwater River (Orofino - Lowell), fall, 1972.

Date	Number of boat anglers	Hours fished	Fish caught	Hatchery fish	Wild fish	Percent hatchery fish	Hours per fish
Oct. 1	2	9	1	0	1	0.0	9.0
Oct. 14	2	4	0	0	0	0.0	--
Oct. 21	5	29	4	0	4	0.0	7.2
Oct. 28	0	0	0	0	0	0.0	--
Oct. Totals	9	42	5	0	5	0.0	8.4
Nov. 3	3	7.5	0	0	0	0.0	--
Nov. 4	4	12	1	1	0	100.0	12.0
Nov. 5	5	12	0	0	0	0.0	--
Nov. 11	0	0	0	0	0	0.0	--
Nov. 12	4	17	0	0	0	0.0	--
Nov. 18	7	31	1	0	1	0.0	31.0
Nov. 21	4	8	0	0	0	0.0	--
Nov. 22	0	0	0	0	0	0.0	--
Nov. 25	0	0	0	0	0	0.0	--
Nov. 26	0	0	0	0	0	0.0	--
Nov. 29	0	0	0	0	0	0.0	--
Nov. Totals	27	87.5	2	1	1	50.0	43.7
Dec. 2	3	12	0	0	0	0.0	--
Dec. 3	4	7	0	0	0	0.0	--
Dec. Totals	7	19	0	0	0	0.0	--
Totals	43	148.5	7	1	6	14.3	21.2

Table 20. Creel census summary of steelhead bank anglers, upper Clearwater River (Orofino - Lowell), fall, 1972.

Date	Number of bank anglers	Hours fished	Fish caught	Hatchery fish	Wild fish	Percent hatchery fish	Hours per fish
Oct. 1	14	42	0	0	0	0.0	--
Oct. 14	14	20	2	0	2	0.0	10.0
Oct. 21	24	37	1	0	1	0.0	37.0
Oct. 28	16	27.5	2	0	2	0.0	13.7
Oct. Total	68	126.5	5	0	5	0.0	25.3
Nov. 3	14	27	0	0	0	0.0	--
Nov. 4	26	66.5	7	0	7	0.0	9.5
Nov. 5	32	35	2	0	2	0.0	17.5
Nov. 11	16	15	0	0	0	0.0	--
Nov. 12	29	75	1	1	0	100.0	75.0
Nov. 18	11	21	3	0	3	0.0	7.0
Nov. 21	4	5	0	0	0	0.0	--
Nov. 22	8	7.5	0	0	0	0.0	--
Nov. 25	11	10.5	0	0	0	0.0	--
Nov. 26	22	33.5	1	0	1	0.0	33.5
Nov. 29	5	11.5	0	0	0	0.0	--
Nov. Total	178	307.5	14	1	13	7.1	22.0
Dec. 2	8	7.5	1	0	1	0.0	7.5
Dec. 3	12	23.5	0	0	0	0.0	--
Dec. Total	20	31.0	1	0	1	0.0	31.0
Totals	266	465	20	1	19	5.0	23.2

Table 21. Creel census summary of steelhead boat anglers, lower Snake River (Lewiston area), fall, 1972.

Date	Number of boat anglers	Hours fished	Fish caught	Hatchery fish	Wild fish	Fish not seen	Caught and Released	Percent hatchery fish	Hours per fish
Oct. 2	23	96	3	0	3	0	0	0.0	32.0
Oct. 8	20	78	5	0	0	5	0	--	15.6
Oct. 14	10	25.5	7	0	7	0	0	0.0	3.6
Oct. 15	97	549	29	3	8	18	0	27.2	18.9
Oct. 19	62	312	29	11	13	5	5	45.8	10.7
Oct. 22	156	989	39	20	19	0	0	51.3	25.3
Oct. 28	111	709.5	45	12	19	14	0	38.7	15.8
Oct. 29	91	542	26	8	13	5	1	38.1	20.8
Oct. Totals	570	3,301	183	54	82	47	6	39.7	18.0
Nov. 5	75	387	34	7	19	8	0	26.9	11.4
Nov. 6	9	45	5	1	4	0	0	20.0	9.0
Nov. 16	44	262	23	10	13	0	0	43.5	11.4
Nov. 19	40	177	12	8	4	0	0	66.7	14.8
Nov. 20	21	122	14	8	3	3	0	72.7	8.7
Nov. 28	9	51.5	3	3	0	0	0	100.0	17.2
Nov. Totals	198	1,044.5	91	37	43	11	0	46.2	11.5
Unknown date	29	158	5	2	3	0	3	40.0	31.6
Total	797	4,503.5	279	93	128	58*	9*	42.1	16.1

* Nine were caught and released while 58 were taken home earlier in the day.

Table 22. Creel census summary of steelhead bank anglers, lower Snake River (Lewiston area), fall, 1972.

Date	Number of bank anglers	Hours fished	Fish caught	Hatchery fish	Wild fish	Fish not seen	Percent hatchery fish	Hours per fish
Oct. 2	7	8	0	0	0	0	--	--
Oct. 8	0	0	0	0	0	0	--	--
Oct. 14	0	0	0	0	0	0	--	--
Oct. 15	0	0	0	0	0	0	--	--
Oct. 19	0	0	0	0	0	0	--	--
Oct. 22	3	3	0	0	0	0	--	--
Oct. 28	0	0	0	0	0	0	--	--
Oct. 29	0	0	0	0	0	0	--	--
Oct. Totals	10	11	0	0	0	0	--	--
Nov. 5	0	0	0	0	0	0	--	--
Nov. 6	3	6.5	0	0	0	0	--	--
Nov. 16	4	15.5	1	0	1	0	0.0	15.5
Nov. 19	12	24	0	0	0	0	--	--
Nov. 20	0	0	0	0	0	0	--	--
Nov. 28	9	12.5	0	0	0	0	--	--
Nov. Totals	28	58.5	1	0	1	0	0.0	58.5
Unknown date	3	3	0	0	0	0	--	--
Total	41	72.5	1	0	1	0	0.0	72.5

Table 23. Length frequency distribution of steelhead trout in creels examined in lower Snake River (Lewiston area), fall, 1972.

Total length (inches)	Deformed dorsal		Marked fish		Unmarked fish	
	Females	Males	Females	Males	Females	Males
21					2	
22					1	
23	1				1	
24	1				2	1
25		1	1 AD		4	5
26	1				3	2
27		1		1 AD	3	1
28		2			5	1
29	1	3			3	2
30	3				5	1
31	4	1	1 AD		4	4
32	13	3	2 AD		11	2
33	7		1 AD		6	5
34	9	5	2 AD		10	9
35	3	9		1 AD	7	2
36	1	5			2	4
37		3		2 AD		9
38		3				2
39		1				1
Total	44	37	7	4	69	51

Table 24. Creel census summary of steelhead boat anglers, Salmon River (Graves Creek area), fall, 1972.

Date	Number of boat anglers	Hours fished	Fish caught	Hatchery fish	Wild fish	Percent hatchery fish	Hours per fish
Oct. 7	6	22	1	0	1	0.0	22.0
Oct. 8	13	65	2	0	2	0.0	32.5
Oct. 13	3	9	1	0	1	0.0	9.0
Oct. 15	0	0	0	0	0	0.0	--
Oct. 22	9	17	2	0	2	0.0	8.5
Oct. 25	3	4.5	0	0	0	0.0	--
Oct. Total	34	117.5	6	0	6	0.0	19.6
Nov. 4	11	49	3	0	3	0.0	16.3
Nov. 8	0	0	0	0	0	0.0	--
Nov. 15	0	0	0	0	0	0.0	--
Nov. Total	11	49	3	0	3	0.0	16.3
Total	45	166.5	9	0	9	0.0	18.5

Table 25. Creel census summary of steelhead bank anglers, Salmon River (Graves Creek area), fall, 1972.

Date	Number of bank anglers	Hours fished	Fish caught	Hatchery fish	Wild fish	Percent hatchery fish	Hours per fish
Oct. 7	11	29	2	0	2	0.0	14.5
Oct. 8	52	214	4	0	4	0.0	53.5
Oct. 13	6	15	1	0	1	0.0	15.0
Oct. 15	40	131	6	0	6	0.0	21.8
Oct. 22	45	172.5	7	0	7	0.0	24.6
Oct. 25	15	86	2	0	2	0.0	43.0
Oct. Totals	169	647.5	22	0	22	0.0	29.4
Nov. 4	5	8	2	0	2	0.0	4.0
Nov. 8	3	11	0	0	0	0.0	--
Nov. 15	8	18	0	0	0	0.0	--
Nov. Totals	16	37	2	0	2	0.0	18.5
Total	185	684.5	24	0	24	0.0	28.5

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