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A Preliminary Report on the North Coast Stream Survey Work
from October 1954 through January of 1955

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Purpose of This Report

This preliminary report is being assembled to place the essential, basic data in supervisorial hands as quickly as possible. A considerably more comprehensive report is to follow this one but will be quite some time in preparation. The present report summarizes the carcass recoveries on spawning beds and the subsequent mark recoveries. A brief summary of redd counts is also included.

Scope of the Work

The basic consideration in the work was the quest for silver salmon carcasses as a final check on the north coast silver salmon marking program of 1951 (Hallock, Warner, and Fry, 1952). In addition to this our activities were expanded to include all possible observations on king salmon as well as silvers. The routine phases of the project were: (1) Carcass counts by species by stream, (2) Check carcasses for fin-marks, (3) Measure all fish to fork length, (4) Make redd counts, (5) Live fish counts, (6) Summarize available spawning gravel (rough, general observations,) (7) Determine and record actual areas of streams used for spawning (8) Record water temperatures. All of the above subjects will be fully reported upon in the later report.

Results

Stream Coverage

With the exception of one run on Mill Creek by skiff, all stream survey work was done on foot. TABLE I is a summary of the intensity of investigation of the various creeks. The mileage given is the cumulative mileage of all field men during the season.

Carcass Recovery

TABLE II & III are a summary of the field data on carcass recovery. 1096 king carcasses and 371 silvers were recovered.

Mark Recoveries

TABLE IV summarizes the mark recovery. No recoveries were made this season of the 1951 mark releases. That was the anticipated situation as any returns would have indicated the presence of four year old silvers. One fin marked silver; two fin marked kings; and one tagged king were recovered.

TABLE I
STREAM COVERAGE
NORTH COAST AREA
FALL 1954

Stream	County	Date of First & Last Survey Runs	Number of Survey Runs	Miles Covered on Foot
Mill Creek	Del Norte	Oct. 22 - Jan. 8	9	87
Rowdy Creek	"	Oct. 26 - Dec. 9	3	5
Smith River	"	Oct. 27 - Nov. 11	2	4
Wilson Creek	"	Jan. 8	1	4
High Prairie Creek	"	Nov. 17 - Jan. 8	2	13
Prairie Creek	Humboldt	Nov. 4 - Jan. 13	5	58
Lindsey Creek	"	Nov. 3 - Jan. 11	6	36
Noisey Creek	"	Jan. 11	1	3
Jacoby Creek	"	Dec. 26 - Jan. 15	3	16
Freshwater Creek	"	Dec. 13 - Jan. 12	4	49
Elk River	"	Nov. 18 - Jan. 15	5	41
Bull Creek	~~Mendocino~~	Dec. 16	1	8
E. Branch of S. Fork of Eel R.	"	Dec. 16	1	2
Williams Creek	Mendocino	Nov. 19 & 21	2	8
Black Butte Creek	"	Nov. 20	1	5
TOTAL	15		46	355

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TABLE II
CARCASS RECOVERIES
KING SALMON
NORTH COAST AREA
FALL, 1954

				Stream		
				Elk R., Freshwater Cr., Jacoby Cr., Noisy, & Lindsey	Smith R., Rowdy Cr., Wilson Cr., High Prairie	
Sex	Size & Condition	Mill Cr.	Prairie Creek			Total
Males	over 26" T.L.					
	S	237	57	1	2	297
	PT. S	3	3	2	0	8
	R	0	0	0	0	0
	Total	240	60	3	2	305
	under 26" T.L.					
	S	60	11	2	0	73
	PT. S	1	2	0	0	3
	R	0	0	0	0	0
	Total	61	13	2	0	76
Total Males		301	73	5	2	381
Females	over 26" T.L.					
	S	457	61	2	2	522
	PT. S	3	2	0	0	5
	R	1	0	0	0	1
	Total	461	63	2	2	528
	under 26" T.L.					
	S	0	0	0	0	0
	PT. S	0	0	0	0	0
	R	0	0	0	0	0
	Total	0	0	0	0	0
Total Females		461	63	2	2	528
Sex ?		9	5	0	0	14
Skeletons		111	59	2	1	173
Total		882	200	9	5	1096

sex ratio equals .7 or 1.4

TABLE III
CARCASS RECOVERIES
SILVER SALMON
NORTH COAST AREA
FALL, 1951

Sex	Size & Condition	Stream							Total
		Mill Cr.	Prairie Creek	Lindsey Creek	Freshwater Creek	Elk R.	Jacoby Creek	High Prairie & Noisy	
Males	over 25" T.L.								
	S	28	23	11	30	28	6	1	127
	PT.S	2	0	0	1	3	2	0	8
	R	2	1	0	0	0	0	0	3
	Total	32	24	11	31	31	8	1	136
	under 26" T.L.								
	S	7	2	6	3	0	0	1	19
	PT.S	0	2	0	1	0	0	0	3
	R	0	0	0	0	0	0	0	0
	Total	7	4	6	4	0	0	1	22
Total Males		39	28	17	35	31	8	2	160
Females	over 25" T.L.								
	S	26	26	15	38	38	4	1	148
	PT.S	1	0	0	1	0	0	0	2
	R	0	0	0	2	0	0	0	2
	Total	27	26	15	41	38	4	1	152
	under 26" T.L.								
	S	1	0	1	0	0	0	0	2
	PT.S	0	0	0	0	0	0	0	0
	R	0	0	0	0	0	0	0	0
	Total	1	0	1	0	0	0	0	2
Total Females		28	26	16	41	38	4	1	154
Sex ?		1	1	0	1	0	0	0	3
Skeleton		3	12	7	15	8	2	2	54
Total		76	67	40	92	77	14	5	371

sex ratio equals 1

TABLE IV
MARK & TAG RECOVERIES
KING & SILVER SALMON
NORTH COAST AREA
FALL, 1954

Mark or Tag	Species	Recovery Date	Recovery Locality	Origin of Mark or Tag
Adipose and Anal	King	Dec. 14, 1954	Grassey Cr. trib. to Lindsey Cr.	Mad R. in California
Right Ventral and Left Ventral	King	Dec. 21, 1954	Will Cr. trib. to Smith River	Umpqua R. in Oregon
Right Ventral and Left Ventral	Silver	Dec. 19, 1954	Boyes Cr. trib. to Prairie Cr. (Red- wood Cr.)	Oregon Coastal Streams
CP&O Tag No. K-3062	King	Dec. 23, 1954	Grassey Cr. trib. to Lindsey Cr. (Mad R.)	Mouth of Mad River (Inland Fisheries) Fall, 1954