#### Fishing Conditions

Fishing during these two months has been interrupted by periods of stormy weather, lasting from September 5 to 10, September 24 to 26 and October 4 to 16. After October 24, there was practically no fishing, due to continuous storms. During the first few days of September, silvers were fairly abundant off the mouth of the Columbia. Then came a stormy period. By September 11, most of the Astoria boats were fishing again, but the fish were very scarce. On September 11 to 14, Newport fishermen reported "brown water" with tremendous concentrations of herring and pilchard in the vicinity of Heceta Head. Here they encountered large numbers of silvers, and even greater numbers of immature chinooks, those kept averaging about eight pounds. During the last two weeks of September, silvers began to concentrate in the general vicinity of the mouth of the Nehalem River, and several of the larger Astoria boats brought back good catches from this area. This fishing continued until the 4th of October, when it was interrupted by storms. Between October 16 and 24, fair numbers of boats were day-fishing off the mouth of the Columbia, but the catch per boat was very poor. Fishing at Coos Bay during this period was reported to be somewhat better, but still not good. Newport fishermen apparently did very little fishing during October, due to the weather and bar conditions.

#### Work Accomplished

General: During this period, tagging, sampling and the recovery of tags were given priority over all other work. However, due to the prevalence of foul weather and poor fishing, considerable time was found to work on other

projects. These included the mounting of scales, the analysis of the season's stomach samples, to be presented in a forth coming report, and the preparation of graphs and tables for the seasonal report, to be submitted by December first.

During the last week of October, a trip was made down the coast to gather up log books and to pick up equipment that had been used in troll salmon work at Newport and Coos Bay.

Tagging: During these two months, 20 chinook and 87 silver salmon were tagged. Four of these fish were small second-year silvers, which were tagged with strap tags, as were most of the smaller chinooks. All fish tagged during this period are listed in Table 1.

Tag Recoveries: During this period, the canneries and receiving stations in Astoria were visited regularly to obtain any tags that were brought in.

Not many Oregon trell tags were obtained in this manner, but considerable numbers of tags from upriver tagging experiments and from ocean tagging by other agencies were recovered. A total of 31 Oregon troll tags were recovered during this period, of which 16 were silvers and 15 chinooks. These recoveries are listed in Table 2 together with three August recoveries. Two of the silvers were recovered by troll fishermen in the same area in which they were tagged. One, tagged off the mouth of the Columbia River, was later recovered by a gillnet fisherman in that river. The other 13 were all recovered north of the area in which they were tagged. Three chinook salmon were recovered north and twelve south of the point of tagging. All recoveries to date, of chinooks tagged in the Coos Bay-Bandon area this season have been from California streams. No chinooks tagged off the Columbia in the 1950 season have been recovered thus far.

Sampling: Samples have been rather difficult to obtain during this period. However, it was possible to obtain a fairly adequate sample of the Astoria landings, and some samples from the other two areas. Table 3 gives a brief summary for these two months of the data taken on average weight, catch per boat per day, and mark ratio, together with the number of length-weight and length frequency samples taken; a much more complete analysis of these data will be presented in the forth coming seasonal report. This year's silver salmon have been extremely large, averaging over ten pounds in dressed weight during the latter part of the season. Chincok samples have been difficult to obtain, as only a scattering of these fish appeared in the September and October catch, with the exception of a few days good fishing off Heceta Head in September. Some of this group of fish were shipped to the CRFA cannery in Astoria, and were examined for marks, but there was no opportunity to obtain length frequencies or more than a few scales from these fish.

Log Books: Most of the log books which were distributed to troll
fishermen early in the season have been collected. Some difficulty was
encountered in locating some of the fishermen who had books, but the majority
of the books are now in, and the whereabouts of the remainder have been
determined. The books are being returned to the fishermen as soon as the
data are copied. About half of the logs thus far obtained have been very
well-kept, and contain a great deal of valuable data. Some books give only
an incomplete record of the season, and a few were not kept at all. On the
whole, the results were quite good, considering that this is the first season
that log books have been used. The log book data, when analyzed, should
give a good record of catch, fishing effort and fishing conditions throughout the season, as well as data on the release of undersized chinook salmon
and additional data on the average weight of the fish.

Table 1
Troll Tagging, September 1 to October 24, 1950
Columbia River Area

400

## Columbia River Area

Tag No.	Sp.	F.L.	Cond.	Date	Locality
Astoria C-952 953 954 955 956 958	CCSCS	70 cm. 67 76 55 70 77	1 2 3 2 2	Sept. 28	Off Cannon Beach
Astoria C-957 959 960 961 962 963 964 967	C S S S S S S S S S S	79 53 73 72 73 67 73 72 77	332332133	Sept. 30	Off Columbia River
Strap Tag Z-24 25 42 45 47 49	CCSCC	52 57 36 46 60 49	3 2 2 1 1 1		
Astoria C-965 966 968 969 970 971 972 973 974 976 977 979 980 981 983	S S C S S S S S S C C C C	72 75 57 75 72 84 69 72 78 69 73 49 49 44	3 3 3 2 1 1 3 2 1 1 1 3	Oct. 1	Off Columbia River
Strap Tag Z-20 21 23 40 41 43 46	S S C C C C C C	48 cm. 31 31 43 49 61 53	1 2 2 2 3 1 1	Oct. 1	Off Columbia River

# Columbia River Area

Tag N	0.	Sp.	F.L.	Cond.	Date	Locality
Astoria (		S	83 cm.	1	Oct. 24	Off Columbia River
	985	S	74	1		
	986	S	75	2		
	988	S	73	1		
	989	S	78	1		
			News	ort Area		
Astoria	R-207	S	70	3	Sept. 1	Off Yaquina Bay
	208	S	66	3		
	209	S	72	3 2		
	210	S	67	?		
	211	S	71	?		
	212	S	70	2		
	213	S	66	?		
	214	. S	71	?		
	215	S	74	?		
	216	S	68	?		
	217	S	63	?		
	218	S	71	?	a a	
		S	70	?		
	219	S	60	?		
	220	5		2		
	221	S	63	3 2		•
	222	S	75	2		
	223	S	75	1		
	224	S	72	1		
	225	S	71	1		
	226	S	75	1	•	
	227	S	70	2.		
	228	S	65	2		
in.	229	S	63	?		
	230	· S	66	2 .		
	231	S	69	?		
	232	S	71	?		
	233	S	66	?		
	234	S S S S S S S				
	235	S	69	?		
	236	S	69	1		
	237	S	77	?	•	
	238	S	73	i		
	239	S	70			
7	240	S	63	1		
	241	9 4	40	1		
	242	SA	69	1		
	243	S.	72	3 1 3 2 1 3		
	244	2/	65	1		
		3 1	74	3		
	245	3	69 -	2		
	246	5	75	1		•
	247	S	72	3		000 8
	248	S S S S S S	72	1	Sept. 2	Off Yaquina Bay
	249	S	74	1		

## Newport Area

Tag. No.	Sp.	F.L.	Cond a	Date	Locality
Astoria R-250	S	72 cm.	2	Sept. 2	Off Yaquina Bay
251	S	68	2		
252	S	72	3		
253	S	70	2		
254	S	.70	2		
255	S	73	2		•
256	S	62	2	•	
257	S	58	. 3		
258	S	71	2		·
259	S	69	3		

Table 2. Tags Recovered During Aug., Sept. and Oct. 1950

A. Silvers-			
Tag. No. Released- Recovered			
Date-1950 Location Tagged Cond Date, 1950 Location	Days	Migration	Growth
O. 2. Danier	out	(miles)	
Col. River C-813 June 20 Off Columbia R. 2 Sept. 3 Off Columbia R.	nt .		2
C-813 June 20 Off Columbia R. 2 Sept. 3 Off Columbia R. C-908 July 17 " " 1 Oct. 20 Lower Columbia	76 95	0	3 cm.
C-912 " " " 1 Oct. 24 Willapa River, Wash.	99	30	
C-939 July 26 Off Gearhart 1 Sept. 2 Fraser River, B.C.	37	250	
Newport	31	2,0	
R-55 August 4 Siltcoos R. Heceta Hd. 2 Sept. 16 Off Willapa Bay	43	150	
R-91 " " 1 Sept. 18 Off Everett, Wash.	45	365	
R-92 " " 2 Sept. 12 Off Depos Bay	39	60	
R-234 Sept. 1 Off Newport ? Oct. 12 Fraser R. B.C.	42	335	
R-257 Sept. 2 " " 3 Oct. 6 Lower Columbia	34	100	
R-258 " " " " 2 Oct, 21 " "	49	100	
Coos Bay			
C-838 June 26 Off C. Arago 2 Sept. 10 Lower Columbia	76	190	
C-863 July 8 Off Coos Bay 1 Aug. 21 Off Coos Bay	44	Q	
F-673 " Off Coos Bay 1 Oct. 10 Siuslaw River	94	46	
F-692 July 20 S. of Bandon 1 Oct. 1 Off C. Falcon	72	165	
A-632 July 25 Siuslaw-C. Perpetua 1 Sept. 10 Nehalem River	47	90	•
A-635 " " " 2 Sept. 26 Alsea River	63-	20	4 cm.
R-434 Aug. 6 Off Bandon 1 Sept. 11 Columbia River	35	200	
B. Chinooks-			
F-534 July 27, 49 OffCoos Bay 1 Sept. 22 Sacramento River	422	370	
Newport-1950	4.00	510	
R-7 July 7, 50 Off Heceta Head 1 Sept. 20 Off Golden Gate	75	400	
R-37 Aug 3		400	
R-85 Ave And		270	0
R-86 Aug / Columbia River	39	.140	
Rel27 Aug. 5 Occ Hands Hand	73	420	
R-128 Aug 5	3	125	3 cm.
R-140 Ave 6	39	125	
Raise	?.	170	
Coos Bay-1950	35-41	420	
A-656 Aug. 3, 50 Off Coos Bay 1 Oct. 19 Eel R., Cal.	77	170	
A-665 Aug. 4 Off Bandon 1 Sept. 6 Klamath R. Cal.	34	100	
A-591 Aug. 5 " 1 Aug. 24 Mouth of Klamath R.	19	100	
n-448 Aug. 7 " 1 Oct. 10 Eel R., Cal.	64	155	
R-450 Aug. 7 " " 1 Oct. 5 Redwood Greek Cal.	59	105	
R-486 Aug. 7 " " 1 Oct. 10 Upper Klamath R.	64	100	0

Table 3. Summary of Troll Sampling - Sept. & Oct. 1950

								-//-			
A. Silvers-		Av. Weights			Mark Ratio Ca			atch per Day			
Area	Month	No. Fish	Tot.	Av.	No.	Marks	No.	No.			
		risn	Wt.	Wt.	Extd	Found	L.F	L.W	Fish	Lbs.	
	September										
Col. River		382	3556	9.3	572		440	3	18	169	
Coos Bay		14	128	9.1	332	0	332	53	14#	128#(1 98	mple
Total		(Singl	e Clip	3)	904	1	772	56			
					704	-	112	50			
Col. River	October	<b>602</b>	6081	10.1	7,000	0.00					
		902	9091	10.1	1099	3 RP 2 LP	439	43	19	191	
	•					1 LY				•	
Total		(047	034	,	7.000	1 BV					
***************************************		(SINGL	e Clips	,	1099	7	439	43			
B. Chinooks								L.W.	-	1	
	September							&			
Col. River	pebremper	126	1203	9.5	312	0	185	Scales	The state of the s	EM	
Newport				101	239	1 RV	100	52 43	6	57	
Coos Bay							234	107			
Total		(Single	Clip	3	551	1	130	200			
		, Junga	orrhi	,	227	-	419	202			
Col. River	October	01									
COI. WIVEL		36	343	9.5	81	0	81	65	1	9 .	
	9										

Jack VanHyning (on leave)
Robert Heg
Harry Moore
Ray Reerink
Aquatic Biologists