

Salmon Investigation - Skeena R.

Summary Report - 1937

NO. 41 - 2A - Stream Survey - Lakelse Lake Area.

- short description of lake and rivers with a discourse on the spawning possibilities.
- estimations of sockeye from hatchery records

1932 - Total run -	6,000
1933 - " " -	4,000
1937 - Williams -	5,000 +
E Rize -	1,000
Others -	<u>3,000</u>
Total -	9,000

Summary Report - 1938

No. 17 - Investigation of the Skeena R., B.C. - spawning Ground Survey.

1. - Lakelse lake area. - further description - Lakelse R.

Adult sockeye reported off the mouths of Saulty, Granite and Williams C. - July 31st.

2. - Kitsumgallum lake area.

- description mainly of Kolum R. + Tributaries.

Summary Report - 1939

The Sockeye Salmon Run of 1939 to the halibut lake Area, Skeena R., B.C.
Williams Creek study.

July 30th - 1st ♀ coming up

Aug 3rd to Sept. 5th - daily count 50 or more

Aug. 16th - maximum = 3,018.

Sept. 16th - last fish.

Totals - ♂s - 12,350
 ♀s - 11,735
 24,085.

Sockeye down all at the same general stage of sexual maturity.

10-16 days after passing the fence the fish were spawned out.

Estimations on other rivers. :-

Sully Cr. - 2,000.

Salmon Cr. - 2,000.

Granite Cr. - 5,000 - 10,000.

Total estimates - 33,000 to 40,000.

[Williams Cr. - well over 60%]

Sockeye at halibut - mainly in their 4th & 5th yrs.

(4₂ + 5₂)

No. 3

Size and Egg Content of Adult Sockeye Salmon at Williams Creek, Lakeba Lake, in 1939.

Length

♂ Sockeye	-	18 ³ / ₄ " - 28 ³ / ₄ "	Avg.	25 ¹ / ₂ " ± .036
♀ "	-	19 ¹ / ₂ " - 26"	Avg.	23 ¹ / ₂ " ± .024.

Weight

♂ Sockeye	-	2 ¹ / ₂ ^{lb} - 9 ¹ / ₄ ^{lb}	Avg.	6 ¹ / ₄ ^{lb} ± .026
♀ "	-	2 ³ / ₄ ^{lb} - 7 ¹ / ₂ ^{lb}	Avg.	5 ¹ / ₄ ^{lb} ± .016

Eggs per ♀ (24 ♀.s)

Avg. No. = 3, 888 ± 13

No. 4.

The Distribution of spawning Sockeye Salmon in Williams Creek, Lakeba Lake, studied by method of tagging designed to allow easy identification of individual fish.

No. 5 - Estimation of a Spawning Population by the Use of a Tagging Ratio

Marked at various times in various numbers at the fence.

Average Life in the creek -

♂ - 13 days
 ♀ - 12 "

There is always a constant error which makes the theoretical population 25% larger than the actual.

Excerpts from Pritchard & Milnes Prog.
Rep. Pac.s for timing of runs to Terrace.

YEAR	LOCATION	TIME (days)	Prog. Rep
1944	Terrace	10.5 [✓]	# 61
1945	Terrace Kitselas	10.7 [✓] -11.4 [✓] 12.13 [✓]	# 65
1946	Terrace & Kitselas	14.6 [✓]	# 75
1947	Terrace & Kitselas	14.3 [✓]	# 75
1948	Terrace & Kitselas	10.6 [✓] <u>12.28</u>	# 80

Distances.

Tagging area to Lakeelse River = 62.2.

Terrace = 73.0.

Kitselas = 83.8.

Estimated rates of travel.