

Lakelse Winter Survey Work - January 27th. to February

Jan. 27 Tuesday Lv. Nanaimo 2:45 P.M. - boat
Ar. Vancouver 5:15 "
1 night - Devonshire Hotel.

" 28 Wednesday Lv. Vancouver 4:30 A.M.
Ar. Rupert 3:00 P.M.
Lv. " 8:15 "

" 29 Thursday Ar. Terrace 12:30 A.M.
Lv. for Lakelse
(a) Set up camp etc., purchase food.
(b) Check on wood and nails, etc.

" 30 Friday (a) Set 2 gangs of nets
(b) Commence sampling redds - Granite Cr.

" 31 Saturday (a) Collect and reset nets.
(b) Sample redds - Scully Cr. and Williams.

Feb. 1 Sunday (a) Collect and reset nets.
(b) Prepare plankton, etc.
(c) Check on Lakelse river and measure depth for new location of yearling trap.

" 2 Monday (a) Collect and reset nets.
(b) Do plankton, Og, pH, temperature.
(c) Check for Bathythermograph map.

" 3 Tuesday (a) Collect nets.
(b) Pack equipment.
(c) Complete all odd jobs.

" 4 Wednesday (a) Lv. for Terrace

" 5 Thursday Lv. Terrace 12:45 A.M.
Ar. Burns 12:00 P.M.
(a) Check with Otto on construction.

" 6 Friday Lv. Burns Lake - by bus
Ar. Prince George - 1 night.

" 7 Saturday Lv. Prince George

Purposes and Outline of Winter Survey - Lakelse.

1. Of particular interest is the sampling of the fish population in midwinter mainly for stomach contents.

Two positions were selected in September of 1947 and each marked by 2 buoys set approximately 600 feet apart and joined at the bottom by rope. These positions correspond to Positions 5 and 6 of the standard netting positions for Lakelse. The mesh sizes selected for the two gangs are:-

- (1) Linen - 1 1/2", 2", 3", 4".
- (2) " - 1 1/2, 2 1/2, 3 1/2, 4 1/2".

The number of sets anticipated is ten (i.e.) 2 gangs for five days.

To augment the sampling some effort will be devoted to fishing through the ice by hook and line. This might be most effectively carried out by cutting a series of holes in the ice and fishing with night lines as well as dropping food (old bread) through some holes and fishing these by day.

The samples will be preserved whole unless otherwise indicated.

2. To sample certain redds for egg survival and report on the condition of the spawning streams (e.g.) temperature, flow, icing, level, etc.

Two large redds were marked in Williams creek.
Three distinct redds were marked in Scully creek.
One distinct redd was marked in Granite creek.

These samples will be fixed in a fixing solution for 24 hours, then washed and transferred to a 5% formalin solution.

3. To record as much of the physical and chemical conditions of the lake as possible in order to supplement the twice monthly records being taken by V.H.B. Girard, and one plankton series.

One station (S.#1), possibly two, will be operated for temperature, oxygen, pH and the condition of the ice and snow covering and its possible effect on light penetration recorded.

Photographs of the streams and lake will be taken.

Ice condition in the upper Lakelse river will be examined and a sounding made if possible for the new yearling trap position.

Scully Creek - Marked Redds

No. 1 - Not a particularly good one.

Location, etc. - 2nd point on the trail which meets the river above the cabin.

- sights on the west edges of stakes at the point of blazes (i.e.) along the sides.

Distance - 12' 4" from top of river side stake to vertically above the redd.

No. 2 - Location, etc. - 1/3 mile up, just into the big timber.

This is the third point of near the river.

Note large leaning cedar - between these two just above alders on the river.

Large old cedar angle-wise from shore down stream (horizontal).

Position of redd - 3 1/2 ft. off old cedar and 6 feet down from tip end of "stake" indicating redd.

- also 9' 1" from end of 1" and 4" stake.

No. 3 - Location, etc. - two indicators - lower one pointing into south bank

- old log 1 1/2 feet out from bank -

upper indicator - sights along lower edge to redd.

Note - one redd was picked close to the bank (too close) so another was indicated directly out from this - (i.e.) 2nd indicator.

September 16th - Water level of Scully creek - made a cut on the upright part, lower edge of blaze close to the cabin.

Adult Sockeye

Marking of Redds - for Winter Conditions

1. Granite Creek -

Position - 1/4 mile upstream from outlet

- three upturned trees across the river at this point above which lies a fairly clear stretch - straight.

Marked - by 2, 2" x 2" stakes between two large blazed trees on south side - 1 spruce and 1 dead cedar.

Distance - 18 feet to redd from top of near stake (to stream)

2. Williams Creek -

Position - Above tip of island right off point just below Blackwater branch.

2 Marked - cleared brush (6' x 4') - 2 stakes for each.

Distance - 24' 10" to centre of redd from near stream stake (base)



DO NOT WRITE ABOUT MORE THAN
ONE SUBJECT IN THE SAME LETTER

PLEASE REFER TO FILE NO.

FISHERIES RESEARCH BOARD OF CANADA

HEAD OFFICE IN OTTAWA

(UNDER THE MINISTER OF FISHERIES)

Redds marked on Scully Creek.⁽¹⁾

Redd No.	Date entered	Distance from short Stake to Redd.	Date of Digging	Remarks.
1.	Sept. 12 (seen Aug 30)	5' 2" (to centre of redd)		
2.	Sept 12	11' 6" "		
3.	Sept 12	11' 9" "		60' above leaning tree.
4.	Sept 12	9' 4" "		opp. #3 Redd 1947

(1) Stakes marked with cuts, for the number of the Redd. number of cuts corresponds to the no. of the Redd

Redds marked on Williams Creek.⁽¹⁾

Redd No.	Date entered	Distance from short stake to centre of Redd	Date of Digging	Remarks.
1.	Sept 13	12' 6" (large area).		} First four below channel - stakes on Right Bank going upstream.
2.	Sept 13	49' 3"		
3.	Sept 13	8' 3"		
4.	Sept 13	10' 8"		
5.	Sept 13.	18' 7"		} 5 & 6 measured from same stake. markers on Right Bank of Wins on upstream side of channel.
6.	Sept 13.	30' 3"		
7.	Sept. 13.	12' 3"		} both 7 & 8 are located in the channel.
8.	Sept 13.	16' 4"		

i: Redds numbered on aluminum tag - tacked to tallest marking post.