



Annual Report of Salmon Streams and Spawning Populations

STREAM IDENTIFICATION

Area: 14	District: 03	Sub: 14N	Comox	INSPECTION DATES	
1st Local Name:				Aug 15 Sep 01 Oct 01 Nov 01 Dec 01	
2nd Local Name:					
Flows Into: COMOX HARBOUR					
Latitude: 49 40 48				Longitude: 124 58 32	
Field Crew: Hatchery Staff				CONTINUOUS COUNTS	
				Start date	
				End date	

DETAILS AFFECTING ESCAPEMENT ESTIMATION (5) ESCAPEMENT ESTIMATION COMMENTS ☒

Sp	R U N	(1) N Methods	%Spawn habitat surveyed	(2) Rel	(3) Enum Class	Esc Code	(4) Est. total adults	Brood stock removals	Jacks	Escapement Goal
SK	1		0		0	N.O.				
SK	2		0		0	N.O.				
CO	1	2,3,9	10	4	3	A.C.	4,200	3,400		
CO	2		0		0	N.O.				
PK	1	2,3	70	3	3	A.C.	10,000			
PK	2		0		0	N.O.				
CM	1	2,9	70	3	3	A.C.	190,000	5,000		
CM	2		0		0	N.O.				
CN	1	1,2,9	40	5	3	A.C.	235	246		
CN	2	2,3,9	10	5	3	A.C.	315	360		
ST	1		0		0	A.P.				
ST	2		0		0	N.O.				
AT	1		0		0	N.O.				
AT	2		0		0	N.O.				
CT	1		0		0	N.I.				
CT	2		0		0	N.I.				
TR	1		0		0	N.I.				
TR	2		0		0	N.I.				

SPAWNING RUN TIMING

(6) GENERAL COMMENTS ON RUN TIMING ☐

Sp	R U N	Arrival in Stream		Dates of Spawning					
				Start		Peak		End	
		Month	Day	Month	Day	Month	Day	Month	Day
SK	1								
SK	2								
CO	1	Sep	1-10	Nov	1-10	Nov	11-20	Dec	11-20
CO	2								
PK	1	Aug	1-10	Aug	11-20	Aug	21-31	Sep	1-10
PK	2								
CM	1	Oct	11-20	Oct	11-20	Nov	1-10	Nov	21-31
CM	2								
CN	1	May	21-31	Sep	21-31	Oct	11-20	Oct	21-31
CN	2	Sep	1-10	Oct	1-10	Oct	11-20	Oct	21-31
ST	1								
ST	2								
AT	1								
AT	2								
CT	1								
CT	2								
TR	1								
TR	2								



UNUSUAL CONDITIONS IN STREAM COURSE OR SPAWNING GROUNDS

- ☒ (7) Enhancement or intense biological activities
☐ (8) Unusual mortalities
☐ (9) Upslope instability
☐ (10) Debris jams present which could become a debris torrent
☐ (11) Severe bank erosion
(12) Percent (%) of spawning habitat degradation:
Unusual (13) Drought ☒ (14) or Flood ☐ impacts on spawning or egg incubation success of salmon this year
☐ (15) GENERAL COMMENTS ON UNUSUAL CONDITIONS

RECOMMENDATIONS

- ☐ (16) Fish access problems ☐ (17) Spawning site conditions
☐ (18) Augmentation of flows ☐ (19) Other suggestions

BIOLOGICAL DETAILS

Particulars of distribution of spawning salmon over the stream bed:

Pinks allowed to spawn above hatchery in enhanced channels. Chums must have spawned repeatedly in the same gravel below the hatchery. Otherwise normal distribution assumed.

Juvenile observations:	SK	CO	PK	CM	CN
Juveniles present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Juvenile studies performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evidence of digging up of redds or eggs by spawning fish:

Pink: Sockeye: Chum: **Moderate**

Predator observations: ☒ Predator (bears, eagles or seals) counts available for one or more survey dates

☒ (20) GENERAL COMMENTS ABOUT ADULT & JUVENILE SALMON DISTRIBUTION OR PREDATOR INTERACTIONS

Biosampling procedures:

Species	Scales	Otoliths	Ovaries	Length	DNA	Other	Comment
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Contact: Data Location:

☐ (21) GENERAL COMMENTS ON SAMPLING ACTIVITIES OR STUDIES NOT COVERED ABOVE

☐ (22) SUPPLEMENTARY DOCUMENTATION NOT INCLUDED WITH THIS REPORT



COMMENTS ON CONDITIONS AFFECTING THIS STREAM AND ESCAPEMENT ESTIMATES

A copy of the BC16 form was presented to the Hatchery Staff. The following was all the information offered. No comments were supplied re: derivation of numbers, habitat concerns or community issues.

- (4) Describe basis for estimating total adults CO Run 1: 400 transported to the Cruikshank River.
- (4) Describe basis for estimating total adults PK Run 1: 5000 above the fence and 5000 below 4000 Chum were trucked live to the Tsolum River
- (4) Describe basis for estimating total adults CN Run 1: This is the summer run. Of the 246 Summer Run Cn brood stock 36 were jacks.
- (4) Describe basis for estimating total adults CN Run 2: This is the Fall Run. Of the 360 Fall Run brood stock 69 were jacks.
- (5) General Comments on Escapement Estimation: Fence in operation from the first week of August to the middle of December.
- (7) Enhancements: A seal predation fence was installed at the 17th Street Bridge. After much study it was found overall to be unsuccessful and was removed around the beginning of Sept. A number of seals were culled this year near the fence but the number was fewer than last year.
- (13) Drought: Lake water approached a critical level during fall migration. Water temperatures would have been adversely affected during summer and early fall.
- (20a) Predator counts by date and predator type: Seals remain a problem to this system, especially the Cn and Sthd runs.
- (20) On Salmon Distribution or Predator Interactions: The river below the diversion dam and all its tributaries were declared a No Fishing area.

Eli Rosengard / Patrolman

Person Preparing Report

Signature

EXPLANATION OF MULTI-LEVEL VARIABLES RELATED TO ESCAPEMENT

- (1) Method codes: (1) bank walk; (2) stream walk; (3) snorkel; (4) boat; (5) plane; (6) helicopter; (7) redd counts; (8) dead pitch; (9) strip counts; (10) other; (11) Fence.
- (2) Reliability codes: Low -> 1 - 2 - 3 - 4 - 5 <- High
- (3) Enumeration class: (0) Not available; (1) Absolute abundance; (2) Relative: constant multi-year methods; (3) Relative: varying multi-years methods; (4) Presence/absence; (5) No survey this year.
- (4) Escapement codes: (N.O.) stream inspected but None Observed; (U.K.) number UnKnown; (N.I.) stream Not Inspected; (N.S.) species does Not Spawn in this system; (A.P.) Adults Present; (A.C.) Adult Count.