Fisheries and Oceans / Pêches et Océans

YEAR	STREAM (GAZETTED NAME)	RAB CODE
1995	PUNTLEDGE RIVER	92-2800

DRAFT

Annual Report of Salmon Streams and Spawning Populations

STREAM IDENTIFICATION

Area: **14** District: **03** Sub: **14N** **Comox**

1st Local Name:

2nd Local Name:

Flows Into: **COMOX HARBOUR**

Latitude: **49 40 48** Longitude: **124 58 32**

Field Crew: **Hatchery Staff**

INSPECTION DATES

CONTINUOUS COUNTS — Start date: **15/07/1995** End date: **15/12/1995**

DETAILS AFFECTING ESCAPEMENT ESTIMATION

(5)ESCAPEMENT ESTIMATION COMMENTS ☑

Sp	RUN	N	(1) 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		1,11	0	4	0	A.C.	2,767	4,774	4,700	
CO	2			0		0	N.O.				
PK	1		1,11	0	4	0	A.C.	1,000	2,700		
PK	2			0		0	N.O.				
CM	1		1,11	0	4	0	A.C.	50,000	8,514		
CM	2			0		0	N.O.				
CN	1		1,11	0	4	0	A.C.	75	209		
CN	2			0		0	N.O.				
ST	1		1,11	0	4	0	A.P.				
ST	2			0		0	N.O.				
AT	1			0		0	N.I.				
AT	2			0		0	N.I.				
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	RUN	Arrival in Stream		Dates of Spawning					
				Start		Peak		End	
		Month	Day	Month	Day	Month	Day	Month	Day
SK	1								
SK	2								
CO	1								
CO	2								
PK	1								
PK	2								
CM	1								
CM	2								
CN	1								
CN	2								
ST	1								
ST	2								
AT	1								
AT	2								
CT	1								
CT	2								
TR	1								
TR	2								

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UNUSUAL CONDITIONS IN STREAM COURSE OR SPAWNING GROUNDS

- [x] (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 [x] 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:

Juvenile observations:	SK	CO	PK	CM	CN
Juveniles present?	[ ]	[ ]	[ ]	[ ]	[ ]
Juvenile studies performed?	[ ]	[ ]	[ ]	[ ]	[ ]

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

Pink: Sockeye: Chum:

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

- [x] (20) GENERAL COMMENTS ABOUT ADULT & JUVENILE SALMON DISTRIBUTION OR PREDATOR INTERACTIONS

Biosampling procedures:

Species	Scales	Otoliths	Ovaries	Length	DNA	Other	Comment

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

(5) General Comments on Escapement Estimation: High ratio of males to females in chum escapement. Pink and chinook supplemented from Quinsam.
(7) Enhancements: Major Hatchery facility on Puntledge River. 1,667 adult coho trucked to Comox Lake. Summer and fall chinook and steelhead near extinction.
(14) Flood: High water throughout fall hampers stream assessment. Severe flood in mid November adversely affected stream bed and survivals.
(20) On Salmon Distribution: High water levels allowed fish access past fence earlier than normal.
(20) On Predator Interactions: Extreme seal predation from estuary to fence. Community working on permission for a cull.

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.