YEAR STREAM (GAZETTED NAME) 2000 PUNTLEDGE RIVER

RAB CODE 92-2800

DRAFT

# Annual Report of Salmon Streams and Spawning Populations

## STREAM IDENTIFICATION

Area: 14 Distr	ict: 03 Sub: 14N	Comox	INSPECTION	DATES	
1st Local Name:					
2nd Local Name:					
Flows Into:	COMOX HARBOUR	र			
Latitude:	49 40 48	Longitude: 124 58 32	CONTINUOUS	Start date	01/08/2000
Field Crew:	Hatchery Staff		COUNTS	End date	20/12/2000

DET	ΑI	LS	AFFEC <sup>-</sup>	TING ES	CAPE	MENT E	ESTIMAT	ION (5)ESC	APEMENT EST	ESTIMATION COMMENTS		
Sp	R U 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		11	0	5	4	A.C.	12				
SK	2			0		0	N.O.					
CO	1		1,3,9	100	5	1	A.C.	7,918	5,750	7,920		
CO	2			0		0	N.O.					
PK	1		1,3,9	100	5	1	A.C.	9,991	191			
PK	2			0		0	N.O.					
CM	1		1,3,9,11	100	5	1	A.C.	47,199	6,364			
CM	2			0		0	N.O.					
CN	1		1,3,9,11	100	5	1	A.C.	519	469	76		
CN	2		1,3,9	100	5	1	A.C.	2,283	2,233	485		
ST	1		1,3,11	75	4	4	A.C.	205	18			
ST	2			0		0	N.O.					
AT	1		3,11	0		0	N.O.					
AT	2			0		0	N.O.	<u> </u>				
CT	1			0		0	N.I.					
CT	2			0		0	N.I.					
TR	1			0		0	N.I.					
TR	2			0		0	N.I.					

	R		ival			Dates of	Spawning			
Sp	U N	in Stream		Start Pea		eak	Er	nd		
		Month	Day	Month	Day	Month	Day	Month	Day	
SK										
SK										
CO		Sep	1-10	Nov	7	Nov	21	Dec	15	
CO										
PΚ	1	Aug	1-10	Sep	11-20	Sep	21-31	Oct	1-10	
PΚ	2									
СМ	1	Oct	11-20	Oct	23	Nov	3	Nov	10	
СМ	2									
CN	1	Jun	11-20	Oct	4	Oct	10	Oct	26	
CN	2	Sep	1-10	Oct	6	Oct	18	Nov	7	
ST	1	Jul	1-10							
ST	2									
ΑT	1									
ΑT	2									
СТ	1									
СТ	2									
TR	1									
TR	2									

Printed: 17-Feb-03 3:05 PM Page 1 of 3

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	and Oceans	Océans

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## UNUSUAL CONDITIONS IN STREAM COURSE OR SPAWNING GROUNDS

(7) Enhancement or (8) Unusual mortalitie (9) Upslope instabilit	es	activities				
(10) Debris jams pre	•	pecome a debris to	orrent			
(11) Severe bank ero	osion					
(12) Percent (%) of s	pawning habitat d	egradation:				
Unusual (13) Drough	t 🕢 (14) or Floor	d impacts o	n spawning or	egg incuba	ation success of salm	on this year
(15) GENERAL COM	MENTS ON UNU	ISUAL CONDITIO	NS			
RECOMMENDATIO	NS					
(16) Fish access pro	blems	<b>✓</b>	(17) Spawn	ing site con	ditions	
(18) Augmentation o	f flows	<b>~</b>	(19) Other s	suggestions		
BIOLOGICAL DETA	11 6					
Particulars of distribution		non over the strear	n bed:			
Limited spawning habi	itat. Most spawni	ng occurs below	Hydro Gener			r Hatchery).
Spawning below lower	· Hatchery (barrie	er fence) in lower	1/3 of river a	nd side cha	nnels.	
Juvenile observations:	Juvenile Juvenile studies	sk es present? performed?	CO	PK	CM	CN
Evidence of digging up of		•				
Pink:	Sockey	-	C	Chum:		
Predator observations:		·			r one or more survey	
(20) GENERAL COM	MENTS ABOUT A	ADULT & JUVENIL	E SALMON E	DISTRIBUTI	ON OR PREDATOR	INTERACTIONS
Diagonalia a proceedures						
Biosampling procedures  Species So	cales Otoliths	Ovaries Lengt	h DNA	Other	Comment	
Ореспес	Zales Ctolitis	Ovanes Lengt	II DIVA	Otrici	Comment	
Contact:		Da	ata Location:			
(21) GENERAL CO	MMENTS ON SA			IES NOT C	OVERED ABOVE	
(22) SUPPLE	MENTARY DO	OCUMENTATI	ON NOT IN	ICLUDED	WITH THIS RE	PORT

Printed: 17-Feb-03 3:05 PM Page 2 of 3

YEAR 5

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### COMMENTS ON CONDITIONS AFFECTING THIS STREAM AND ESCAPEMENT ESTIMATES

- (11) Bank erosion: Bank erosion and siltation Browns River (major trib.)- natural erosion and logging and Highway construction activities.
- (13) Drought: Low reservoir levels in Fall ( Comox lake). Minimum acceptable flows. BC Hydro created 6 "events" (approx.) resulting in extreme low H2O &/or " freshets" due to problems with Penstock Inlet screen &/or mechanical equipment failure. Exposed redds for a few hours in lower river.
- (17) Spawning site recommendations: Develop additional side channel habitat.
- (19) Other restoration recommendations: Continued discussion
- (20a) Predator counts by date and predator type: Poaching continues to be a problem.
- (5) General Comments on Escapement Estimation: Chum over spawn in lower river (below Condensory Bridge)

Darcy Miller	
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.

Printed: 17-Feb-03 3:05 PM Page 3 of 3