

ESCAPEMENT SUMMARY ATTACHMENT (1999)

Toboggan Coho (839)

Estimate of spawners u/s of fence - 7,372 coho were sampled at the fence, of which 2,700 were tagged, and we carried out a Petersen estimate of spawners upstream by doing five walks of the entire spawning area from October 6th to November 2nd. We estimated the total spawning stock above the fence at approximately 7,600 (M=2,538, C=7,758, R=2,594).

Estimate of spawners d/s of fence - based on 17.6% estimate of stock proportions below fence, this was also as a result of the five walks of the entire spawning area.

Estimate of angler catch of coho - based on harvest (6) and of catch and release mortalities of five percent (25) indicated by a creel survey funded by Fisheries Renewal BC in 1999.

Estimate of native catch of coho - based on tagging mortalities associated with coho tagging study at Moricetown, funded by DFO (4,200 tagged x 0.25 Toboggan stock component x 0.05 mortality rate) indicates 53 mortalities of Toboggan coho.

TOTAL RETURNS TO RIVER FOR :1999Toboggan CreekCohoSummer-runPage 1

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	Unknown Adults	Males	Females	Total Adults	Jacks	Immatures
FISH REMOVED FROM THE SYSTEM						
Number of fish taken for brood stock		35	16	51		
Number of fish given to natives (not including brood stock carcasses)				0		
Number of fish sold for surplus (not including brood stock carcasses)				0		
Number of mortalities and/or fish used for other purposes				0		

TOTAL NATURAL SPAWNING POPULATION ABOVE FENCE						
Number sampled for marks and released		4,229	3,092	7,321		
Number counted but NOT sampled for marks				0		
Additional fish estimated to pass above fence (during periods when fence not operated etc.)		132	96	228		
+ Total Hatchery staff estimate of above fence spawners	0	4,361	3,188	7,549	0	0
Other Branch / Agency estimate of above fence spawners				0		

TOTAL NATURAL SPAWNING POPULATION BELOW FENCE						
Number sampled for marks and released				0		
Number counted but NOT sampled for marks	1,658			1,658		
Additional fish estimated below fence				0		
+ Total Hatchery staff estimate of below fence spawners	0	939	685	1,624	0	0
Other Branch / Agency estimate of below fence spawners				0		

ESTIMATED FRESH WATER SPORT FISHERY (IF APPLICABLE)						
+ Total Hatchery staff estimate of sport fishery		18	13	31		
Other Branch / Agency estimate of sport fishery				0		

ESTIMATED NATIVE FISHERY (IF APPLICABLE)						
+ Total Hatchery staff estimate of native fishery		31	22	53		
Other Branch / Agency estimate of native fishery				0		

INDICATE METHODS USED TO ESTIMATE POPULATION.

(IF COMMENTS ARE REQUIRED, PLEASE USE REVERSE)

X			Fence, Fishway, flashboard or tower (Continuous Count- 24 hrs /day)
			Fence, fishway, flashboard or tower (Interpolated Count < 24hrs / day)
X			Petersen estimate
			Index by Redd count, peak count, dead pitch, floats, helicopter,etc.
	X		Visual estimate from brood stock collection, walks or spotchecks,etc.
		X X	Other method - Use reverse or space below to describe.

COMPLETE FOR EACH STOCK AND STAPLE

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+ X Partial Count

YES ☐ NO ☐

Subtotal

			0		
			0		
			0		
	0	1	1		
			0		
0	0	1	1	0	0

COMPLETE FOR EACH STOCK AND STAPLE

Prepared: 09-Mar-00

SAMPLING INFORMATION FOR :

1999

Toboggan Creek

Coho

Summer-run

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SAMPLE:

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	Hatchery Swim-Ins	
	Channel Dead Pitch	
X	Live	---+
	Dead	-----

	Salt Water
	Estuary
X	Fresh Water

+---		Lake
+---	X	River

+---	X	Above Fence
+---		Below Fence
+---		At Fence

+---		Total Count
+---	X	Partial Count

Number of CWT's recorded as:

[illegible][illegible]