

LAKE OUTLET STREAM SURVEY

Summary Form

Stream identification (name, ID number, location of mouth) FAWN LAKE; 109-10-18; MIST SPRUE
NEAR PATTERSON BAY; BARANOF IS, CHATHAM BAY Observers STEVE REIFENSTUHL; FRONLY PARKER

Date 7-18-79 Weather & stream conditions Rain to Partly cloudy; MODERATE FLOWS -

Stream physical features	^{~ 1000m from Lake} Near the mouth	Mid-stream sites (Give approx. distances from tidewater as column headings on row below)	Near the lake (source)
	<u>~ 25m upstream</u>	<u>~ 450m from LAKE + ~ 550m from MOUTH</u>	<u>~ 50m downstream</u>
Width:	<u>6.2m</u>	<u>7m</u>	<u>10.5m</u>
Mean depth:	<u>0.4m</u>	<u>0.4m</u>	<u>0.27m</u>
Gradient:	<u>13%</u>	<u>10-12%</u>	<u>2.5%</u>
Velocity:	<u>18m/10,13,12</u>	<u>23m/14,13,15 sec.</u>	<u>20m/16,15,14 sec.</u>
Discharge:	<u>3.82 cu.m/sec.</u>	<u>4.6 cu.m/sec.</u>	<u>3.7 cu.m./sec.</u>
Substrate:	<u>Boulders & Rocky</u>	<u>Rocky w/ some Boulders -</u>	<u>Rocky with some gravel</u>
Temperature:	<u>-</u>	<u>-</u>	<u>-</u>
Elevation:	<u>5'</u>	<u>80'</u>	<u>235'</u>
			<u>SAME AS LAKE ELEVATION</u>

BARRIERS:

- A. To upstream migrants -- falls, velocity barriers, logjams
- Number and type forming a definite &/or total block: 3 Falls
 - Approximate location of first definite &/or total block (from stream mouth): 30m to Base of 1st BARRIER FALLS
 - Number and type forming a possible &/or partial block: None
- B. To downstream migrants -- waterfalls and cascades (list in upstream order)
- Approximate height (m) and fish passage rating (G,Q,P)* at average flow conditions (e.g., 10mG, 8mP, 25mQ): 8mG, 7mG, 18mG
 - Fish passage ratings (G,Q,P) at high flows (e.g., during spring freshets): 8mG, 7mG, 18mG
 - Fish passage ratings (G,Q,P) during low flows: 8mQ, 7mG, 18mG
 - Identify falls (using codes from B₁ above) on which fish were test dropped: -

* (G, Q, P) = (Good, Questionable, Poor)

FISH COLLECTION SUMMARY:

Type and amount of gear	Gear location (e.g., riffle above 1st falls; pool above 3rd falls; logjam near tide)	Total elapsed time this gear type fished (trap/net-hrs)	Catch (Number, species, average length)	CPUE** (fish/hr)
<u>1MT(1)</u>	<u>~ 650m from Lake; Riffle area, ~ 0.25m deep</u>	<u>4.50</u>	<u>38 RBT, \bar{x} = 112.4</u>	<u>8.44</u>
<u>2MT(1)</u>	<u>~ 30m ABOVE BARRIER #1</u>	<u>4.08</u>	<u>3 RBT, \bar{x} = 15.3</u>	<u>0.73</u>

**catch per unit effort

COMMENTS: MOST OF THE ELEVATION INCREASE OCCURS ABOVE THE OUTLET MIDPOINT. REARING AREA HABITAT IS LIMITED TO AN AREA BETWEEN LAKE + 200m DOWNSTREAM AND AN AREA BELOW MIDSTREAM + BARRIER #1.