Nakwassin Lake 109-10-10165-0010

Area Sport and Commercial
Management Biologist Analysis
of Possible Hatchery Site for:

Lat: 56° 27' 12"
Long: 134° 44' 15"
Map: Port Alexander B-3

Inclusion or Exclusion - Tongass Land Use Plan

Date: 11/15/77 Area Biologists: Parker/Schmidt

Stream Name and Number: 109-10-14 Nakwasin Lk.

Longitude/Latitude: _____

Area Name/Location: Port Herbert

Present gear type(s): _____

A. Fisheries returns are expected to enter.

1. List districts returns would enter and indicate with (CPUE) those managed on CPUE or harvest data.

Most from south end of Baranof
Most effort in Chatham by seiners

2. Contribution to non-terminal fisheries harvest:

a. Purse seine: none ✓, slight ___, moderate ___, heavy ___
b. Gill net : none ___, slight ___, moderate ___, heavy ___
c. Troll : none ___, slight ✓, moderate ___, heavy ___
d. _____ : none ___, slight ___, moderate ___, heavy ___

3. Expected sport fish contributions: none ___ some ___ heavy ___

B. Terminal harvest area:

1. Terminal area size = 1 x 5 sq. mi. (All of Port Herbert)

2. Physical problems with terminal area (discuss).

None

3. What affects on recreational use in terminal harvest area are expected from hatchery operations (beneficial/detrimental)? Discuss.

4. Terminal harvest area wild stock usage and timing. 1/

Month: Week:	May 1 2 3 4	June 1 2 3 4	July 1 2 3 4	Aug. 1 2 3 4	Sept. 1 2 3 4	Oct. 1 2 3 4	Nov. 1 2 3 4	15-yr. Escapement Range 4/	Escapement Potential 2/	Migratory 3/
Example:sp	├────	────┤						1,000 - 4,000	N.A.	III
King										[illegible]
Sockeye			├──	? ──┤				2000	1975 only yr.	[illegible]
Pink-Odd								Possible but very		[illegible]
Pink-Even								little ↓		[illegible]
Chums										[illegible]
Coho				├──	────┤			X	No idea [illegible]	[illegible]
Steelhead										[illegible]
Dolly Varden										[illegible]
Cutthroat										[illegible]

1/ Indicate, to the best of your ability, times when fish bound for streams in the terminal area and/or migratory fish are present in the terminal area as shown in example. (Use solid line for escapements to the terminal area and broken line for migratory fish timing.

2/ Potential based on gravel measurements where available. (N.A = not available)

3/ Check if migratory fish are present.

4/ Use "x" when escapements are unknown and need further study.

5. Given the above (B-4) wild stock usage of the terminal area should (has) this system be recommended as a wild stock preserve (i.e. gold pin, and other) Yes _____ No _____

If not what species, timing, and maximum production level are recommended.

Species	Timing	Max. No.
See recommendations below		

6. If there is a wild stock conflict in the terminal area, could a certain gear type avoid the taking of wild stock(s) and still adequately harvest the hatchery returns?

7. What fish quality is expected in terminal area for recommended hatchery species?

C. Brood stock start-up: _____ = Hatchery Stream Escapement

1. List three or more streams that could be donor streams and distances from site.

2. Would donor takes in those systems affect recreation use? Discuss.

D. Area biologists' overall recommendations:

1. ✓ Acceptable for species and timing listed under B-4 and given additional constraints listed below:

Further investigation of coho and sockeye runs should be made before a recommendation for or against a hatchery is made. Appears that it could be a good site depending on strength of sockeye and coho runs

2. _____ Unacceptable. Too big a risk to wild stocks or recreational use due to:

E. Has this system been recommended by ADF&G for a specific land use classification in the Tongass Land Use Plan?