

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

Inclusion or Exclusion - Tongass Land Use Plan

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

Stream Name and Number: Green Lake 113-41-30

Longitude/Latitude: \_\_\_\_\_

Area Name/Location: Silver Bay

Present gear type(s): Purse - Troll

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 pressure in Sitka Sound and along outside coast for troll

2. Contribution to non-terminal fisheries harvest:

- PL
- 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 x heavy \_\_\_\_\_

Taken Sitka Sound

B. Terminal harvest area:

1. Terminal area size = 3 x 1 sq. mi. (southern half of Silver Bay)

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.

Salmon Lake and River is a major sport fish system for all sport species. The adjacent saltwater area which includes Green Lk. and Salmon Lk. outlets is therefore a major sport fish area. Red pin system. Sport fishing should not be impacted. Pinks or coho production could be beneficial as long as no closures occurred.

Salmon make Stream ↓

Month: Week:	May			June			July			Aug.			Sept.			Oct.			Nov.			15-yr. Escapement Range 4/	Escape-ment Potential 2/	Migra-tory 3/
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1			
Example:sp	-----			-----			-----			-----			-----			-----			-----			1,000 - 4,000	N.A.	III
King	-----			-----			-----			-----			-----			-----			-----			5,000 - 10,000	Subjective Opinion	
Sockeye	-----			-----			-----			-----			-----			-----			-----			Few- * 70,000		
Pink-Odd Chum	-----			-----			-----			-----			-----			-----			-----					
Pink-Even Chums	-----			-----			-----			-----			-----			-----			-----					
Chums	-----			-----			-----			-----			-----			-----			-----			Some		
Coho	-----			-----			-----			-----			-----			-----			-----			Fairly Strong		
Steelhead	-----			-----			-----			-----			-----			-----			-----			Major Run		
Dolly Varden	-----			-----			-----			-----			-----			-----			-----			Major Run		
Cutthroat	-----			-----			-----			-----			-----			-----			-----			Major Run		

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

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.

\* Jim feels 50,000 is about optimum

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   x   No \_\_\_\_\_  
 If not what species, timing, and maximum production level are recommended.

Species	Timing	Max. No.
Fall chum/coho	after early Sept.	----

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? Gillnet harvest to avoid taking of dollies & cutthroat.

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

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

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

(a) Coho - Silver Bay Stocks

(b) Fall chum - Red Bluff (other side Baranof); Juneau area stocks

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

No problem

D. Area biologists' overall recommendations:

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

Would be okay if fall chums/coho could avoid the pink run and assuming the coho run is studied and not found to be too strong. Coho production could be beneficial to sport fishing contingent upon no closures being implemented. Gear would have to be restricted to gillnets to protect trout species.

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?

Re: Question 5 - may be correct -  
(need to check with Parker)

Question E - No. However  
the suggested donor streams have  
been given the following classification.

Silver Bay - Salmon L. (113-41-032)

- Sport Fish "Red Pin" area
- Cat I - SS (>500)
- Cat II - PS (10,000-50,000)
- Cat II - CS (500-6,000)
- RS present

Red Bluff Bay (109-20-017)

- Sport Fish "Gold Pin" area
- Cat I - PS (>50,000)
- Cat I - CS (>6,000)