WASHINGTON STATE DEPT. OF FISHERIES
LYONS FERRY SALMON HATCHERY

ANNUAL REPORT FOR 1984

MARCH 1985

1983 BROOD YEAR FISH

The first yearling fish were recieved from Klickitat Hatchery between September 18 and the 25th. A total of 196,800 were recieved and were put into one of the adult ponds. These fish were all unmarked.

Between October 22 and November 1 a additional 540,300 yearlings were recieved from Klickitat. Of these 408,100 were marked with a Ad. clip and C.W.T.. These fish were put into the raceways and split into 19 raceways of 26,000 fish per pond for release in April of 1985.

The fish were fed Sulmet-T for 5 days after arrivial. A Septicmia problem developed and the fish were fed a additional 10 days of Sulmet-T from December 7 to the 16. The fish continued to die and were checked again on December 20. The problem turned out to be a toxicity problem due to a reaction to the drug. By the end of the year the problem was clearing up and the fish were looking good.

THE 1984 BROOD YEAR FISH

Due to being a new station all of the 1984 brood year adult fish were trucked in from Ice Harbor Dam. The University of Idaho is contracted to run the trap. This year the trap was operated from September 1 to October 5. All adult and all Ad. clipped jacks were trucked in.

A total of 695 adult and 48 jacks were brought to the station. In addition a additional 3 adults came up the fish ladder volunterly. All fish when they were spawned were checked for marks and 55 male, 75 female and 41 jacks were Ad. clipped. All heads were removed for identification. In addition all females were checked for IHN. The eggs were ~~kept~~ KEPT in lots of 5 females and incubated seperatly until they were certified IHN free. No IHN was found in the 1984 brood adults.

The first spawning was on November 8th and the last fish was spawned December 5. A total of 1,567,800 eggs were taken. A additional 219,800 eggs were recieved from Kalama Falls Hatchery. These eggs were from the egg bank program.

Shocking and picking of the eggs started December 4th and finished December 31. A total of 338,400 dead eggs were picked off for a 21.58% eggs mortality.

On December 20 a total of 220,000 eyed eggs were shipped to Haggerman National Fish Hatchery. This was for their part in the egg bank program.

By the end of the year all fish were looking good and we were working the bugs out of the hatchery.

WASHINGTON STATE DEPT. OF FISHERIES

LYONS FERRY SALMON HATCHERY

QUARTERLY REPORT FROM

APRIL 1 TO JUNE 30, 1985

1983 BROOD FALL CHINOOK

The 1983 brood were planted April 15, 1985 and 17. They were pumped to the river and were in good condition when they went out. A total of 650,300 fish were planted. Of these 334,442 were marked fish.

1984 BROOD FALL CHINOOK

The marking trailer came in and they started marking fish April 9, 1985. The program lasted until April 19 with a total of 237,182 fish Ad. clipped and C.W.T.. The fish from pond 1 did not handle well from marking and from April 19 to the 22 they were treated with Diquat for Bacterial gill. From May 1 to the 4 pond 15 was also treated with Diquat.

In mid April we started having problems with the fish and they were checked. They were found to have clubbed gills and mild irritation. The problem turned out to be manganese oxide in the water supply. We planted some unmarked fish early and moved the remaining fish to the lower battery of raceways, unseing the upper battery as settleing ponds. By the end of June the fish are responding and are heathly again.

On June 6,1985 a total of 539,392 fish were planted in the Snake River. Of these 234,985 were marked with a Ad. clip and C.W.T.

1985 BROOD SPRING CHINOOK

On April 2 a temporary rack was put in the Tucannon River for the spring Chinook run. It washed out due to hight water on April 16. A wooden rack was installed May 21 and 22. Through the end of May a total of 15 spring Chinook a adults have been trapped at the Tucannon Hatchery. So far 8 of them have either died or jumped out.

WASHINGTON STATE DEPT. OF FISHERIES

LYONS FERRY SALMON HATCHERY

QUARTERLY REPORT FROM

OCTOBER 1984 TO MARCH 31,1985

1983 BROOD FALL CHINOOK

Between October 22 and November 1, 1984 540,300 yearlings were recieved from Klickitat Hatchery. Of these 408,100 were marked with a Ad. clip and C.W.T.. These fish were put into the raceways and split into 19 raceways of 26,000 fish per pond for release in April 1985.

The fish were fed Sulmet-T for 5 days after arrivial. A Septicmia problem developed and the fish were fed a additional 10 days of Sulmet-T from December 7 to the 16. The fish continued to die and were checked again on December 20. The problem turned out to be a toxicity problem duedto a reaction to the drug. By the end of the year the problem was clearing up and the fish were looking good. Then in the last part of January we started haveing problems with the fish. They were checked on February 14 and were found to have "CHILLS". The marked fish were the only ones th have "CHILLS", while the unmarked fish were heathly. The fish were checked by a Histologic examination and under a electron microscope to try and find what chased the problem. No cause was found and it still remains a mistery of what caused the "CHILLS" problem.

1984 BROOD FALL CHINOOK

The first spawning was on November 8 and the last fish was spawned on December 5. A total of 1,567,800 eggs were taken. A additional 219,800 eggs were recieved from Kalama Falls Hatchery from the egg bank program.

Shocking and picking of the eggs started December 4 and finished December 31. A total of 338,400 dead eggs were picked off for a 21.58% egg loss.

On December 20 a total of 220,000 eyed eggs were shipped to Haggerman National Fish Hatchery. This was for their part in the egg bank program.

The first fry were ponded January 22, 1985 and the last were ponded February 19. A total of 1,222,689 eggs were hatched and 52,533 fry were lost before ponding. This was a loss of 4.29%.

The fish took off good and with the exception of some coagulated yolk the fish had no disease problems.