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March 6, 1947

FISH LABORATORY REPORT

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Second Half of February, 1947

The silver salmon monitoring program continues as the major study in progress at the 146 Building. The temperature of the river water has remained low (4° to 5° C.) and consequently development has been slow. However, some of the eggs in even the coldest water, that is where no warm effluent is being added, are now starting to hatch. Egg mortalities in those lots which are now completely hatched are as follows:

Area Effluent Water	Troughs 1 & 2	83.7 per cent
1:5	Troughs 5 & 6	11.9 per cent
1:10	Troughs 7 & 8	8.6 per cent
1:25	Troughs 9 & 10	6.3 per cent
(River Water Control	Troughs 17, 18, 19 & 20	6.1 per cent - Incomplete)
(Refrigerated Effluent	Troughs 3 & 4	5.7 per cent - Incomplete)

The exceptionally low mortality among the eggs held in the refrigerated effluent water is of interest and parallels the results obtained with chinook salmon last year. However, none of the chinook fry survived the yolk sac period.

The silver salmon fry in the effluent water of Troughs 1 & 2 have suffered an extremely heavy mortality and less than fifty now remain. Although these fry are approaching the feeding stage, probably none will reach it. The mortality among the fry in the 1:5 dilution level has risen above normal during the past two weeks and many individuals have symptoms of "white spot" disease. The mortality has not yet reached serious proportions, however. Other lots appear normal.

Construction of the new ponds and pipe lines is nearing completion. Installation of new pumps, testing, and backfilling of the excavation are the major jobs yet to be done.

Arrangements have been completed for obtaining condemned beef liver at Pasco, and delivery of the liver has begun.

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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

SINGLE REVIEW AUTHORIZED BY: RB Binski

REVIEWER (ADD): 11-2-84

DATE: 11-14-84

DETERMINATION (CIRCLE NUMBER):
 1. CLASSIFICATION MAINTAINED
 2. CLASSIFICATION CHANGED TO:
 3. CONTAINS NO DOE CLASSIFIED
 4. COORDINATE WITH
 5. DECLASSIFICATION CANCELLED
 6. CLASSIFIED INFO BROUGHT
 7. OTHER (SPECIFY)

DOE ARCHIVES

The trap for capturing small fish being pumped into the 182 Reservoir has been repaired and altered to facilitate access. Routine inspection of this trap will be started to determine the species, size and numbers of small fish which are finding their way through the fish screens in the 181 Pumphouse.

Culture of algae in glass jars has been continued with varying success and counts are being made to determine the activity accumulation and decay. Dr. Berry has removed one jar to be set up at the 100-B Area and supplied with uncontaminated river water available at that point.

RFF/djs

Richard F. Foster
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