

ANNUAL REPORT

Hagerman, Idaho NFH

Fiscal Year 1978

INTRODUCTION

The Hagerman National Fish Hatchery supplies rainbow trout to Indian Reservations throughout the state of Idaho and to northern and central Nevada. Snake River steelhead trout are reared for release in the upper reaches of Idaho's Salmon River.

STATION OPERATIONS

The station's program was greatly altered in 1978 as a result of the reoccurrence of IPN; this, in spite of a full-scale attempt to eliminate IPN through station disinfection in July, 1977. As a result of the IPN outbreak it was necessary to cancel rainbow commitments for plants in Dworshak Reservoir, Idaho and the Warm Springs and Umatilla Indian Reservations in Oregon. Surplus fish were then provided to the states of Idaho and Nevada.

Fall chinook salmon were successfully reared in the hatchery's 59° F. spring water. Eyed chinook eggs were received from the Spring Creek NFH, Washington in November, 1977. Following incubation and hatching at 50° F. the chinook fry were reared to five inches in length on the Service's open-formula Abernathy dry diet. Growth averaged one inch length increase per month and fish health was excellent. As a result of this successful demonstration of chinook-rearing capability the station is entering the production of Snake River fall chinook salmon; a stock of fall chinook presently under review for listing as either Endangered or Threatened under the Endangered Species Act. Hagerman's production of these salmon will assist in establishment of an egg bank.

The Hagerman hatchery is being considered by the Corps of Engineers as a steelhead trout mitigation hatchery under the Lower Snake River Compensation Plan. The hatchery entered into a steelhead pilot project in cooperation with the Corps of Engineers and Idaho Fish and Game Department to evaluate the feasibility of steelhead rearing and also to provide data for rearing facility design criteria. Fiscal Year 1978 results of the pilot project were successful in producing quality steelhead in 59° F. water. A final decision will be reached by the three agencies in the Spring, 1979 regarding Hagerman's future role in the Lower Snake River Compensation Plan.

COOPERATION WITH OTHER AGENCIES

The steelhead pilot project referred to in Station Operations has resulted in a great deal of cooperative effort with the Corps of Engineers and Idaho Fish and Game Department. Close contact with these agencies will continue in the future as the possibility of large scale steelhead production is further evaluated.

CYCLICAL MAINTENANCE

A badly needed shop-garage stall is under construction as a result of a \$42,500 contract awarded from Fiscal Year 1978 Fishery Resources funds. This building addition will provide accommodations to accomplish maintenance and repairs to the station's large distribution units as well as the other smaller vehicles and equipment.

A contract for \$6,000 was awarded to complete the asphalt resurfacing of the station's driveways.

HATCHERY PRODUCTION SUMMARY

Station
Hagerman National Fish Hatchery

Period covered October 1, 1977
XMR22X2 through September 30, 1978

| Species and Lot | Density Index | | | Flow Index | | | Total Flow | | | T. U. per Inch | T. U. to Date | Length Increase 30 day month Inches | | |
|-------------------------------|---------------------------|-------------------------|-----------------|--------------------|------------|----------------|------------|----------|----------|----------------|---------------|-------------------------------------|-------|----|
| | 0.136 | | | 0.402 | | | 15,608 | | | | | | | |
| | FISH ON HAND END OF MONTH | FISH SHIPPED THIS F. Y. | GAIN THIS F. Y. | FISH FEED EXPENDED | Conversion | UNIT FEED COST | Per Lb. | Per 1000 | Per Inch | | | | | |
| Number | Weight | Length | Number | Weight | F. Y. | Founds | Cost | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| RBT 7-EW-51 | 0 | 0 | 10.397 | 92.5 | 21,532 | 28,329 | 5,235.21 | 1.32 | 0.24 | 108.29 | 15.73 | 151.20 | 0.000 | |
| RBT 7-EW-52 | 0 | 0 | 9.593 | 68.9 | 11,296 | 15,731 | 2,721.42 | 1.39 | 0.24 | 78.17 | 7.96 | 143.80 | 0.000 | |
| RBT 7-WSS-53 | 0 | 0 | 10.833 | 307.2 | 65,059 | 83,789 | 14,476.57 | 1.29 | 0.22 | 86.71 | 16.68 | 165.90 | 0.000 | |
| RBT 7-EW-54 | 0 | 0 | 8.844 | 57.1 | 15,989 | 20,019 | 3,495.54 | 1.25 | 0.22 | 61.27 | 16.44 | 132.30 | 0.000 | |
| RBT FCS 7-SC-55 | 0 | 0 | 5.270 | 102.8 | 4,357 | 5,750 | 1,117.93 | 1.32 | 0.26 | 10.91 | 23.96 | 93.50 | 0.000 | |
| RBT 7-SA-56 | 0 | 0 | 11.604 | 82.1 | 31,471 | 42,640 | 7,673.00 | 1.36 | 0.24 | 129.34 | 15.61 | 167.60 | 0.000 | |
| RBT 8-BEU-58 | 0 | 0 | 4.546 | 37.8 | 1,425 | 2,174 | 404.74 | 1.53 | 0.28 | 10.72 | 19.34 | 69.70 | 0.000 | |
| RBT 8-EW-57 | 0 | 0 | 4.592 | 287.5 | 9,086 | 13,258 | 2,558.50 | 1.46 | 0.28 | 8.64 | 20.69 | 75.50 | 0.000 | |
| RBT 8-YOR-59 | 14.3 | 4,460 | 9.164 | 412.7 | 21,454 | 29,316 | 5,403.44 | 1.37 | 0.25 | 78.55 | 12.86 | 106.90 | 1.489 | |
| TOTALS | | | | | | | | | | | | | | |
| AVERAGES | | | | | | | | | | | | | | |

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| Number | Weight | Length | Number | Weight | Pounds | Cost | Per Lb. | | Per 1000 | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| RBT 8-SA-60 | 0 | 0 | 3.083 | 105.2 | 1,208 | 1,644 | 334.66 | 1.36 | 0.28 | 3.22 | 20.87 | 45.90 | 0.000 |
| RBT 8-YOR-61 | 0 | 0 | 3.332 | 30.0 | 6,302 | 8,569 | 1,622.75 | 1.36 | 0.26 | 3.79 | 18.65 | 45.90 | 0.000 |
| RBT 8-EW-62 | 0 | 0 | 3.236 | 125.1 | 1,633 | 2,816 | 559.57 | 1.72 | 0.34 | 4.57 | 20.48 | 45.90 | 0.000 |
| STT 8-DS-63 | 43.7 | 4,352 | 6.637 | 0 | 4,329 | 5,750 | 1,263.86 | 1.33 | 0.29 | 28.95 | 18.12 | 101.00 | 1.237 |
| STT 8-DW-64 | 367.9 | 12,874 | 4.684 | 112.5 | 13,394 | 19,110 | 4,717.44 | 1.43 | 0.35 | 12.19 | 19.12 | 69.40 | 1.136 |
| RBT 8-EW-65 | 275.0 | 135 | 1.066 | 0 | 77 | 220 | 56.66 | 2.86 | 0.74 | 0.21 | 18.15 | 5.00 | 0.826 |
| TOTALS | 700.9 | 21,821 | | 2,221.4 | 208,612 | 279,115 | 51,641.29 | | | | | | |
| AVERAGES | | | 3.478 | | | | | 1.34 | 0.25 | 17.67 | 17.64 | 94.63 | 1.172 |