

## ANNUAL REPORT

Hagerman, Idaho NFH

Fiscal Year 1981

### INTRODUCTION

The Hagerman National Fish Hatchery rears steelhead trout for release in Idaho's Salmon River system as a part of the Lower Snake River Fish & Wildlife Compensation Plan. Snake River fall chinook salmon are reared, as a part of the "egg bank" program, for release in the lower Snake River above its confluence with the Columbia River. Hagerman's rainbow trout rearing program has been diminishing in recent years as the anadromous program increases. Fiscal Year 1981 rainbow plants were limited to the Fort Hall Indian Reservation and a reduced cooperative program with the State of Idaho for plants into federal waters.

### STATION OPERATIONS

Steelhead production was highly successful with 592,000 smolts released at an average length of over nine inches. Downstream migration success of these fish was deemed excellent by fishery workers monitoring the movement at Lower Granite Dam on the Snake River. Steelhead of the group "A" category are more successful at Hagerman than are the group "B" fish. This may be due to the acclimation of group "A" fish to our water quality as these fish have been reared in the Hagerman Valley for over ten years.

Rearing of Snake River fall chinook salmon was successful although numbers of available eggs was somewhat reduced from previous years due to losses of adult salmon while being held at the Dworshak NFH. A total of 181,000 chinook smolts averaging four inches (51/lb.) were released to the Lower Snake River. The Oregon Moist Pellet once again proved to be an excellent diet for these fish.

The Hagerman hatchery accomplished the transport of approximately 230,000 nine-inch rainbow trout to the Duck Valley Indian Reservation. These fish were purchased on contract from a local private grower.

There were no disease problems during the year. Enteric redmouth and IPN are present on the station but through maintenance of proper fish loads and densities the diseases cause no problems.

#### COOPERATION WITH OTHER AGENCIES

Station personnel continued to work closely with the Walla Walla District, Corps of Engineers regarding design of the expanded Hagerman hatchery for increased steelhead production. The Corps' final design of the hatchery expansion is scheduled for early calendar year 1982 with actual construction scheduled for early Summer, 1982.

Eastern Washington College, Cheney, Washington accomplished two archaeological excavations during the year with the result that the hatchery site was cleared for construction. Some modification in design layout of facilities was necessitated to avoid impacting areas containing significant cultural deposits.

Close cooperation continued with the Idaho Cooperative Fishery Unit, University of Idaho regarding nose-tagging of both steelhead and fall chinook salmon. Tag returns from some of the station's prior anadromous releases are indicating the value of the hatchery's involvement with anadromous fish.

#### CYCLICAL MAINTENANCE

Asphalt drives and parking areas were seal-coated at a cost of \$1,998. The exterior wood of Quarters four was resided with aluminum to eliminate a severe paint-peeling problem; at a cost of \$1,900.

#### VISITORS

It is estimated that 11,000 visitors toured the hatchery during the year. The Twin Falls newspaper published articles on the archaeology projects and the hatchery expansion.

DEPARTMENT OF THE INTERIOR  
U.S. FISH AND WILDLIFE SERVICE

HATCHERY PRODUCTION SUMMARY

Station

Hagerman National Fish Hatchery

Period Covered

October 1, 19 80 through September 30, 1981

Species and Lot	Density Index			Flow Index			Total Flow			T.U. Per Inch	T.U. to Date	Length increase in day month Inches	
	0.134			0.434			13,166						
	Number	Weight	Length	Fish shipped this F.Y. Number	Gain this F.Y. Weight	Fish Feed Expended Pounds	Cost	Conversion	Unit Feed Cost				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
RBT													
0-SA-77	0	0	9.583	2.9	66	210	37.80	3.18	0.57	0	13.27	115.50	0.000
RBT													
0-SA-78	0	0	11.513	9.7	2,609	4,062	736.03	1.56	0.28	145.90	14.18	150.00	0.000
SIT													
0-YID-79	0	0	10.604	869.0	132,622	196,025	47,801.02	1.48	0.36	124.53	17.25	167.00	0.000
SIT													
0-YID-80	0	0	9.126	60.4	14,389	25,957	6,432.56	1.80	0.45	108.23	18.47	152.00	0.000
SIT													
0-DW-81	0	0	8.829	45.6	6,102	13,533	3,298.04	2.22	0.54	119.35	20.23	157.00	0.000
RBT													
0-WS-82	0	0	9.057	41.7	12,309	18,606	4,514.55	1.51	0.37	110.41	12.93	107.00	0.000
TOTALS													
AVERAGES													

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Hagerman National Fish Hatchery

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Period Covered

October 1, 19 80 through September 30, 1981

Species and Lot	Density Index		Fish on hand End of Month		Fish shipped this F.Y.		Gain this F.Y. Weight		Fish Feed Expended		Conversion	Unit Feed Cost		T.U. Per Inch	T.U. to Date	Length increase day month Inches
	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																
0-EN-83	0	0	9.745	82.9	25,753	37,143	8,870.18	1.44	0.34	129.18	13.42	120.00	0.000			
FCS																
1-DW-84	0	0	4.423	111.0	2,733	4,294	1,584.50	1.57	0.58	14.36	19.11	57.50	0.489			
FCS																
1-YWA-85	0	0	3.554	70.3	798	1,063	394.50	1.33	0.49	5.72	19.90	41.50	0.000			
RBT																
1-YCA-86	11.7	4,305	9.683	184.3	6,875	8,861	2,210.14	1.29	0.32	118.28	10.28	91.50	1.125			
RBT																
1-YCA-87	0	0	2.810	257.4	2,234	2,689	828.11	1.20	0.37	3.25	16.67	33.00	0.745			
STT																
1-YID-88	74.6	2,601	4.678	0	2,573	2,849	808.88	1.11	0.31	10.86	16.53	61.00	1.081			
TOTALS																
AVERAGES																

Total Flow 13,166

Flow Index 0.434

Density Index 0.134

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Hagerman National Fish Hatchery

Period Covered

October 1, 1980 through September 30, 1981

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HATCHERY PRODUCTION SUMMARY

Species and Lot	Density Index		Fish on hand End of Month		Fish shipped this F.Y.		Gain this F.Y. Weight		Fish Feed Expended		Conversion	Unit Feed Cost		T.U. Per Inch	T.U. to Date	Length increase 30 day month Inches
	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			
SIT	455 ✓			✓	✓	✓	✓									
1-YID-89	454.7	19,894	5.046	118.4	22,327	26,980	7,558.15	1.21	0.34	14.72	14.79	61.00	1.259			
SIT	✓			0	1,535	1,916	586.20	1.25	0.38	8.02	19.76	58.50	0.818			
1-DW-90	73.4	1,567	3.973													
TOTALS	616.4	28,367		1,853.5	232,925	344,188	85,660.66	1.48	0.37	34.71	16.20	98.04	1.071			
AVERAGES			4.961													

Total Flow  
13,166

Flow Index  
0.434

Density Index  
0.134