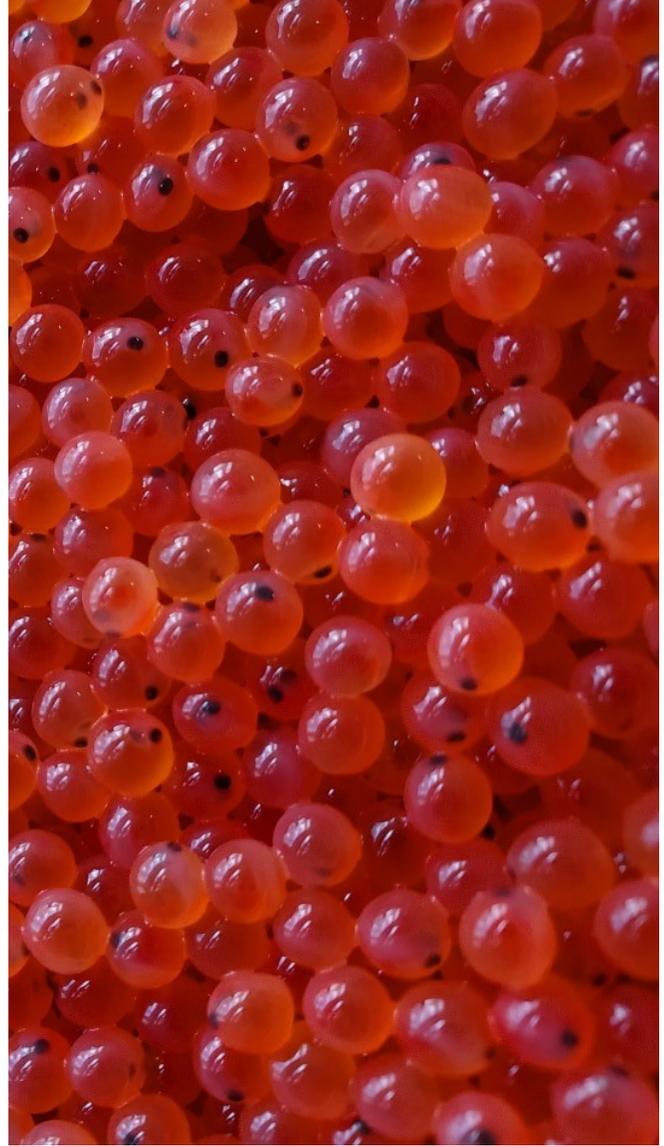
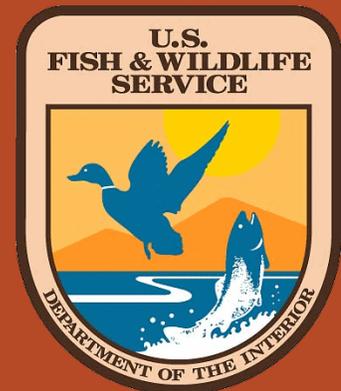

Ennis National Fish Hatchery



JANUARY 2020 MONTHLY REPORT

Prepared by: J. Helseth



Spawning Operations

Hatchery staff continued spawning age 2 and age 3 Eagle Lake, McConaughy, and Shasta strain rainbow trout throughout January. Spawning of age 2 and age 3 Fish Lake strain rainbow trout started on January 15.



Eyed eggs were shipped to multiple state and federal facilities, and to schools for the *Trout in the Classroom* program. Triploid (3N) eggs were produced from Eagle Lake and McConaughy strains of rainbow trout.

A total of 631,421 3N net eyed eggs were collected from Eagle Lake strain and 328,981 3N net eyed eggs were collected from McConaughy strain in January, 2020.

Above: Hatchery staff are sorting through Fish Lake strain rainbow trout. Staff are checking for ripeness, and placing ripe fish into corresponding segregation cells for spawning that will occur the following day.

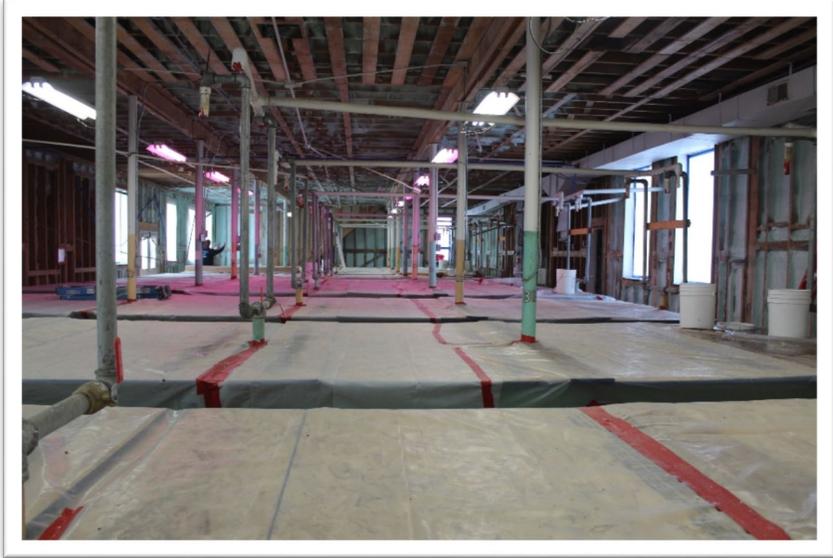
Table 1. Summary of January, 2020 spawning operations at Ennis National Fish Hatchery.

Strain	Lot Number	Net Eyed Eggs¹	Estimated Eggs²	Fecundity³
Fish Lake	RBT-FLD-17-ENN	27,730	147,000	2,521
Fish Lake	RBT-FLD-18-ENN	486,932	600,000	2,254
Eagle Lake	RBT-ELD-17-ENN	200,635	90,000	2,205
Eagle Lake	RBT-ELD-18-ENN	412,786	156,000	1,625
McConaughy	RBT-MCD-17-ENN	130,019	66,000	2,549
McConaughy	RBT-MCD-18-ENN	198,962	148,000	1,631
Shasta	RBT-SSD-17-ENN	553,114	345,000	4,648
Shasta	RBT-SSD-18-ENN	856,429	244,000	3,184
Total		2,866,607	1,796,000	

1. Net eyed eggs includes diploid and triploid eggs from January 8th and 15th spawns.
2. Estimated eggs are from January 22nd and 29th spawns.
3. Fecundity estimates are for January 8th and 15th spawns. January 22nd and 29th spawns are pending inventories.

Construction Projects

Progress continued on the incubation building mold / asbestos remediation project throughout January, 2020. Contractors worked throughout the month and installed spray foam insulation and water resistant drywall in the west side of the incubation building.



January 6th, 2020



January 29th, 2020

Contractors began painting the walls of the incubation building after the insulation and drywall was installed. Work will continue into February, 2020.

Construction – Continued

Another construction project occurred in late January, 2020. Staff from the Bozeman Fish Technology Center visited Ennis National Fish Hatchery and began installing an experimental Radon degassing system.



January 29th, 2020

This experimental Radon degassing system was installed in Raceway 15. An electric fan is used in this system.

A new water valve was also installed on the main water manifold to enable use of this system.

The experimental unit was completed during the last week of January.

Summary of Fish on Station

Strain	Lot Number	Number of Fish	FPP	Raceway Weight (Pounds)	Total Length (Inches)	January Mortality
Arlee	RBT-ARD-16-ENN	232	<i>0.20</i>	<i>1,160</i>	23.2	46
Arlee	RBT-ARD-17-ENN	1,845	<i>0.40</i>	<i>4,613</i>	18.4	116
Arlee	RBT-ARD-18-ENN	1,539	0.75	2,052	14.9	2
Erwin X Arlee	RBT-EED-17-ENN	364	0.34	1,071	19.5	8
Erwin X Arlee	RBT-EED-18-ENN	2,863	0.72	3,976	15.2	5
Eagle Lake	RBT-ELD-17-ENN	397	<i>0.40</i>	<i>993</i>	18.4	77
Eagle Lake	RBT-ELD-18-ENN	3,180	<i>0.50</i>	<i>6,360</i>	17.1	295
Eagle Lake	RBT-ELD-19-ENN	3,065	1.66	1,846	11.5	10
Fish Lake	RBT-FLD-17-ENN	320	<i>0.30</i>	<i>1,067</i>	20.3	5
Fish Lake	RBT-FLD-18-ENN	2,738	<i>0.40</i>	<i>6,845</i>	18.4	52
Fish Lake	RBT-FLD-19-ENN	2,775	2.27	1,222	10.3	0
McConaughy	RBT-MCD-17-ENN	155	<i>0.25</i>	<i>620</i>	21.5	21
McConaughy	RBT-MCD-18-ENN	1,128	<i>0.40</i>	<i>2,820</i>	18.4	57
McConaughy	RBT-MCD-19-ENN	740	2.42	306	10.1	3
Shasta	RBT-SSD-17-ENN	515	<i>0.20</i>	<i>2,575</i>	23.2	17
Shasta	RBT-SSD-18-ENN	1,796	<i>0.30</i>	<i>5,987</i>	20.3	58
Shasta	RBT-SSD-19-ENN	994	1.09	912	13.1	1

1. *Italic denotes estimate*

Education and Outreach Activities

On January 8th, 2020 hatchery staff presented a tour to approximately 30 students. The students were from Sheridan Elementary School and ranged from 1st to 2nd grade.

On January 27th, Jared Knott and Joe Helseth participated as guest judges at the Ennis School District science fair.



Photo Credit: Ennis School Dist.

Jared and Joe evaluated projects from a wide range of students and topics. Projects were submitted by 4th through 10th grade students.

6th grade student giving a presentation on water quality in a local watershed.

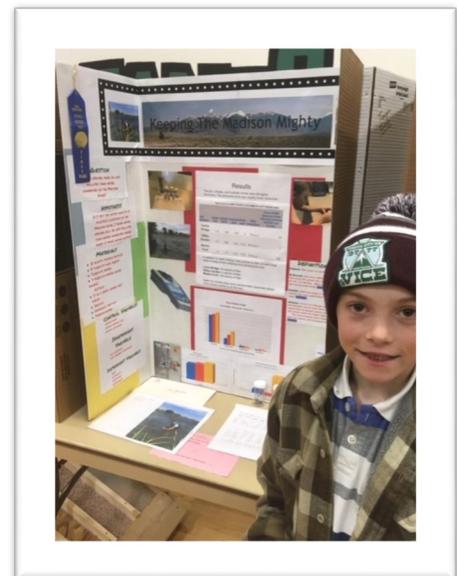


Photo Credit: Ennis School Dist.

Employee Development

Kristen Cook continues to work towards her Master's Degree. Kristen is conducting research on western pearlshell mussels in southwestern Montana watersheds.



Kristen was also awarded two grants towards her research of western pearlshell mussels. Kristen received grants from *Trout Unlimited* and the *Montana Water Center* for supplies for her research project.

Jared Knott was appointed as the Ennis National Fish Hatchery CDSO. Jared will be attending formal training in April.

Upcoming Activities

- Work will continue on the incubation building mold / asbestos remediation project in February.
- In February, Jim McFall will be attending the Wage Grade conference in Albuquerque, NM.
- Ennis National Fish Hatchery will be welcoming employees from various agencies in February to perform work details.



Above: Contracting crew installing drywall in the Ennis National Fish Hatchery incubation building.

Current Hatchery Staff

- Ron Hopper – Acting Project Leader
- Kristen Cook – Fish and Wildlife Biologist
- Joe Helseth – Fish Biologist
- Jared Knott – Biological Science Technician
- Jim McFall – Biological Science Technician
- Steve Neslon – Maintenance Worker

Contact Information

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