



# Mora National Fish Hatchery

February 2015

## Spawning Begins

The 2015 spawning season kicked off on February 23. Hatchery staff continued with weekly checks during February, and the first fish of the season were found to be ready in the four-year old South Diamond lot. These fish are not part of the broodstock collection, and will be used in egg care research trials. The hatchery is trying several approaches this year to increase egg fertilization and eye-up, which averages 15-20% annually, but can range from 5 to 50%



## Upwelling Incubators Installed

Several of the upwelling incubators obtained from Dworshak NFH, have been installed in preparation of spawning season. These units will be used for experimental egg rearing in the upcoming season.

## Drum Filter Progress

Hatchery staff continued to rehabilitate the drum filter in February. After much searching, it was found out the manufacturer of drum seal has been out of business since 1998. The old seal was re-installed, and staff is continuing search for a suitable replacement. New filter panel and level sensor were installed.





## New UV System Installation

Richie Garcia, Maintenance Mechanic along with Stuart Wilkins, BioTech, built a uni-strut stand to support the new System 3 UV System. The UV system install will be completed in March. This system will treat up the entire System 3 flow, rather than the side-stream of flow that has been treated thus far.

## Coldwater Course at NCTC

Grant Langmaid, Fish Biologist, and Nate Wiese, Project Leader, attended the Coldwater Fish Culture Course at the National Conservation Training Center in West Virginia. This is the fifth Coldwater course that Nate has helped teach. The class took tours to the USDA coolwater research lab in Leetown and the Freshwater Institute in Shepherdstown. Despite the cold weather, some of the class even toured the Washington Mall over the weekend.



## Whiskey Creek Salt Bath

The Age-0 Whiskey Creek lineage Gila Trout were given a salt bath treatment after the staff noticed excessive “flashing” and mucous in this raceway. The initial treatment was successful, no follow-up treatments were needed, and mortality remained very low for the month.

## New Aquarium Frames Painted

Richie Garcia, Maintenance Mechanic, continued working on the new aquariums frames that will expand the hatchery’s family capacity. The frames were sand blasted, primed, and painted.







Production Lineage	Brood Year	Purpose	Location	Number	Mortality	Sample (fpp)	Length (in)	Biomass (lbs)
Main Diamond	2010	Wild	Visitor Center	18	1	0.3	20.0	69
	2011	Brood	Raceway 2B	72	0	0.3	18.6	212
	2012	Brood	Raceway 2T	234	2	0.7	15.3	327
	2013	Brood	Raceway 1T	523	1	0.9	14.0	577
	2013	Recovery	Raceway 1B	196	0	0.9	14.1	216
	2014	Brood	Raceway 5T	1123	0	8.05	6.8	140
	<b>Total</b>				<b>2166</b>	<b>4</b>	<b>1.4</b>	<b>12.1</b>

South Diamond	2011	Brood	Raceway 4B	69	1	0.3	19.2	212
	2012	Wild	Shady Acres	148	0	2.3	10.3	64
	2012	Brood	Raceway 4T	227	0	0.6	15.8	356
	2013	Brood	Raceway 3T	412	1	1.0	13.7	424
	2013	Recovery	Raceway 3B	84	0	1.5	11.4	56
	2014	Brood	Raceway 7T	740	0	10.8	6.1	69
	2014	Recovery	Raceway 7B	1295	0	13.2	6.4	133
<b>Total</b>				<b>2975</b>	<b>2</b>	<b>2.4</b>	<b>10.1</b>	<b>1314</b>

Whiskey Creek	2011	Wild	Whiskey Creek	91	4	0.4	17.0	194
	2011	Wild	Visitor Center	40	0	0.4	17.0	80
	2014	Brood	Raceway 8T	649	0	9.9	6.3	66
	<b>Total</b>			<b>780</b>	<b>4</b>	<b>2.4</b>	<b>10.1</b>	<b>340</b>

Spruce Creek	2010	Wild	Spruce Creek	31	11	4.2	8.4	10
	2013	Wild	Spruce Creek	18	1	12	5.1	2
	2014	Brood	RW Circular	58	0	4.9	8	13
	2014	Wild	Spruce Creek	13	1	30	4.3	0
	<b>Total</b>			<b>120</b>	<b>13</b>	<b>6.3</b>	<b>7.4</b>	<b>21</b>

Iron Creek	2011	Wild	Shady Acres	40	0	1.4	12.1	28
	<b>Total</b>			<b>40</b>	<b>0</b>	<b>1.4</b>	<b>12.1</b>	<b>28</b>

<b>Total All Lineages</b>				<b>6081</b>	<b>23</b>	<b>1.9</b>	<b>11.0</b>	<b>3244</b>
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## Drum Filter Seals

Hatchery staff completed installing new seals for the drum filter panels. These new seals will provide tighter contact between the filter panel and the drum filter frame, more effectively removing debris from the re-used water.



## In Brief

- Nate Wiese and Lori Casados attended the Administrative Professionals Workshop On March 9 13
- Hatchery staff attended the District Fire meeting on February 18.
- Hatchery staff attended Gila trout agency meeting on February 24
- Jeff Conway attended Inspiring Leadership Through Emotional Intelligence training in the RO.
- Hatchery Staff visited the Mescarlero Tribal hatchery on February 27 to provide recommendations for their culture program.

## Upcoming Events

- Spawning Begins
- Bill Wayman and staff from Warm Springs FTC will be at Mora for cryo-preservation of milt from the rare lineages of Gila trout on March 16-20
- Ed Stege and staff from Leadville NFH will visit Mora to observe spawning operations on March 10
- Jeff Conway will be at the Project Leader's Academy on March 9-20

### Hatchery Staff

Nate Wiese, Project Leader  
Lori Casados, Admin. Assistant  
Jeff Conway, Fish Biologist  
Grant Langmaid, Fish Biologist  
Richie Garcia, Maintenance Worker  
Stuart Wilkins, Biological Technician  
Daniel Gallegos, Intern

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