



# Mora National Fish Hatchery

September 2016

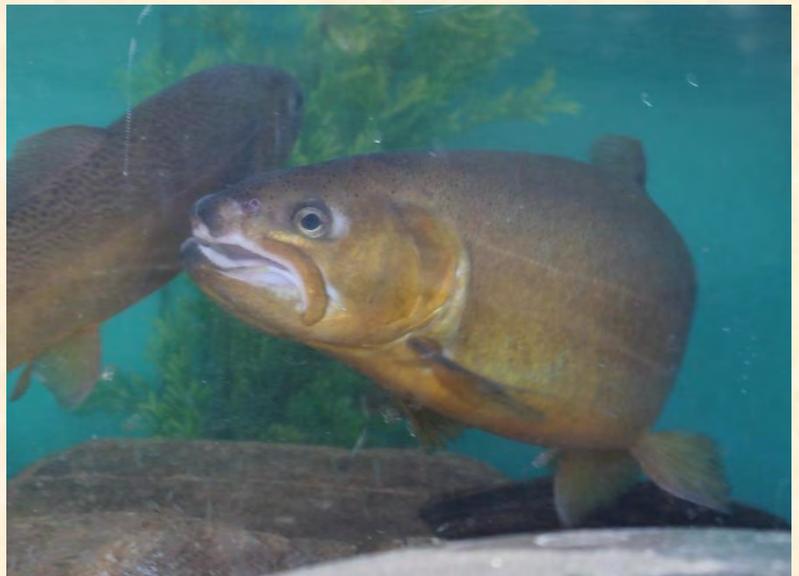
## Educational Events

Staff represented the Hatchery at three educational events held throughout the State of New Mexico in September. The events included an Outdoor Classroom in Silver City attended by approximately 150 people, Valle de Oro National Wildlife Refuge's 4th Anniversary which was attended by approximately 200 people, and the Las Vegas National Wildlife Refuge's Concert for the Birds which was attended by approximately 120 people. Interest in the Living Stream display and the Hatchery's mission was high at all events.

Photos: Top—Project Leader Nate Wiese and Biologist Jeff Conway discuss Gila trout recovery with visitors at Las Vegas NWR's annual Concert for the Birds.

Upper Right—Adult Gila trout in the Hatchery's Living Stream.

Lower Right—Visitors at Valle de Oro NWR's 4th anniversary event examine the Gila trout display.





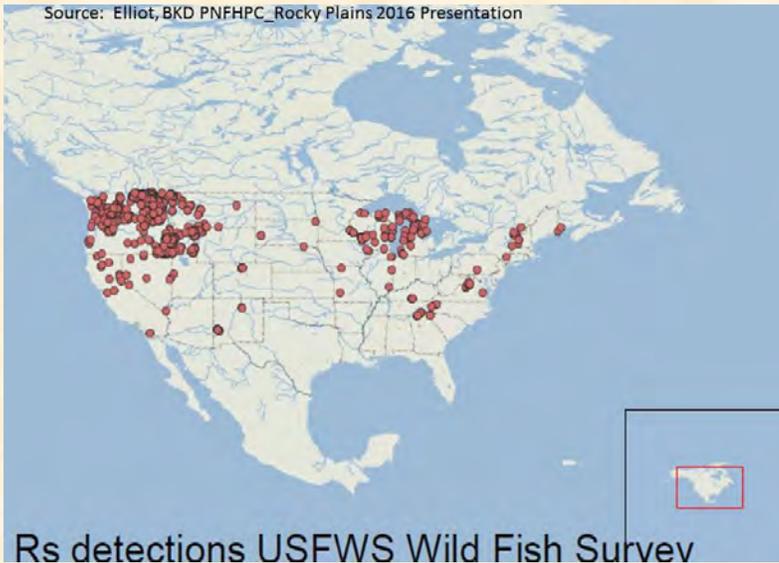
Project Leader Nate Wiese and his daughters Emersyn (L) and Harley (R) pose after getting their faces painted at annual Concert for the Birds held at the Las Vegas National Wildlife Refuge on September 25, 2016.

Administrative Support Assistant Lori Casados talks with a visitor at the Valle de Oro National Wildlife Refuge's 4th Anniversary event on September 24, 2016. The Hatchery supplied the Living Stream display for the event and provided information about the Gila trout recovery program.



Biological Science Technician Dustin Wagner demonstrates how the stocking tanks operate to students from La Plata Middle School in Silver City, NM. The La Plata Middle School hosted an Outdoor Classroom at the Lower Gila Box Canyon. The event was held over two days on September 6 & 7, 2016.

Source: Elliot, BKD PNFHPC\_Rocky Plains 2016 Presentation



## Wild BKD Distribution

Hatchery staff attended several meetings throughout the month dealing with the finding of BKD at the Hatchery. Although there seems to be a recent uptick in BKD incidences in the Southwest, historical wild fish surveys have detected BKD in a relatively widespread distribution across the United States. Large clusters occur around heavily sampled areas of the Pacific Northwest and Midwest salmon locations.

## Grant on Detail

Biologist Grant Langmaid performed a detail at the Norfolk National Fish Hatchery during September 6 through September 16, 2016. Grant assisted Norfolk staff with inventorying, sample counting, raceway cleaning, and stocking. Grant also assisted with Norfolk NFH's annual Outdoor Adventure Event that had over 600 people attending. The event included a fishing derby and outdoor educational stations.



## Pump Replacement

Hatchery staff replaced water pumps in several wild fish isolation areas during September. The replacement cycle for these pumps is on a three year rotation, where the pump is replaced after the third year. This ensures that the water processing infrastructure for these rare wild fish is always in well maintained condition.



Production Lineage	Brood Year	Purpose	Location	Number	Mortality	Sample (fpp)	Length (in)	Biomass (lbs)
Main Diamond	2014	Brood	Raceway 1B	433	1	0.5	17.4	884
	2014	Wild	VC East 2	52*	13*	2.0	10.8	26
	2015	Brood	Raceway 1T	816	1	2.1	10.2	389
	2016	Brood		0	0	0	0	0
	2016	Recovery		0	0	0	0	0
	<b>Total</b>				<b>1,301</b>	<b>15</b>	<b>1.0</b>	<b>13.6</b>
South Diamond	2014	Brood	Raceway 2B	499	2	0.5	17.3	1018
	2015	Brood	Raceway 2T	720	2	2.3	10.2	316
	2016	Brood	380	978	2	43	3.9	23
	2016	Recovery	SR, 250, 96, 2500	21,239	18	43	3.9	494
	<b>Total</b>			<b>23,436</b>	<b>24</b>	<b>12.7</b>	<b>5.8</b>	<b>1,851</b>
Whiskey Creek	2014	Brood	Raceway 3B	428	2	0.7	14.6	606
	2015	Brood	Raceway 3T	522	2	2.4	9.6	220
	2015	Recovery	Raceway 4T	745	3	2.4	9.6	314
	2016	Brood	380	785	2	45	3.8	17
	2016	Recovery	250	988	5	45	3.8	22
	<b>Total</b>			<b>3,468</b>	<b>14</b>	<b>2.9</b>	<b>9</b>	<b>1,179</b>
Spruce Creek	2011-2014	Wild	Spruce Creek 1-2	36	0	0.8	~13.5	45
	2014	Brood	Spruce Creek 3-4	33	0	0.6	16.0	55
	2016	Brood	C8	28	0	71	3.3	1
	<b>Total</b>			<b>97</b>	<b>0</b>	<b>1.1</b>	<b>13.2</b>	<b>91</b>
Iron Creek	2011	Wild	Spruce Creek 3,4	25	0	0.6	16.1	42
	2013	Wild	VC East 3,4	87*	4*	3.0	9.4	29
	<b>Total</b>			<b>112</b>	<b>4</b>	<b>1.8</b>	<b>11.2</b>	<b>65</b>
<b>Total All Lineages</b>				<b>28,414</b>	<b>57</b>	<b>6.3</b>	<b>7.4</b>	<b>4,485</b>

\*Inventory updated

<b>BonyTail</b>	2011	Wild	Shady Acres	1,261	0	3.4	10.2	371
	<b>Total</b>			<b>1,261</b>	<b>0</b>	<b>3.4</b>	<b>10.2</b>	<b>371</b>

<b>Desert and Sonoran Suckers</b>	Mixed	Wild	VC East 3	35*	0	1	13	35
	<b>Total</b>			<b>35</b>	<b>0</b>	<b>1</b>	<b>13</b>	<b>35</b>

\*Inventory updated



## Gila Trout Predation

The Hatchery transferred in approximately 210 wild Desert and Sonoran suckers in June 2015 for poly-cultural purposes. Sixty fish were sent to the Southwestern Fish Health Unit for fish health sampling. The remaining fish were quarantined for 90 days before excess fish from the DFP 2015 rearing study were added for poly-cultural system testing. Observed sucker mortalities were low during the quarantine and poly-culture period. However, approximately 75% of the suckers were missing after the polyculture testing and were presumed to be victims of Gila trout predation. Since the most recent inventory, the suckers have been re-isolated for further growth before re-acclimating with Gila trout.

## Upcoming Events

- Term Maintenance Worker Gilbert Garcia starts on October 3
- Partner BKD meeting on October 6
- Dustin Wagner will be attending the Aquaculture Reuse Course in Wenatchee, WA on October 18-20
- Andy Dean, NMFWCO, to assist with PIT tagging on October 19.
- Hatchery Staff to attend the R2 Leadership Meeting on October 25-28.
- Lori Casados to attend FAC-COR training on October 31—November 3

## In Brief

Mike Sloane and Roddy Gallegos from the New Mexico Department of Game and Fish and Tom Sinclair from the Fish and Wildlife Conservation Office visited the Hatchery on September 20.

Congressional Candidate Michael Romero visited the hatchery on September 22.

Hatchery staff attended a BKD Partnership Gathering hosted by the Southwest Tribal Fisheries Commission in Albuquerque on September 27.

## Hatchery Staff

Nate Wiese, Project Leader  
Lori Casados, Admin. Assistant  
Jeff Conway, Fish Biologist  
Grant Langmaid, Fish Biologist  
Richie Garcia, Maintenance Worker  
Dustin Wagner Biological Technician  
Gilbert Garcia, Maintenance Worker  
Daniel Gallegos, Intern  
Jeremiah Olivas, Bio. Technician  
Sandy Kalb, Volunteer

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