



Mora
National
Fish
Hatchery

July 2015

Rocky Mountain Youth Corp

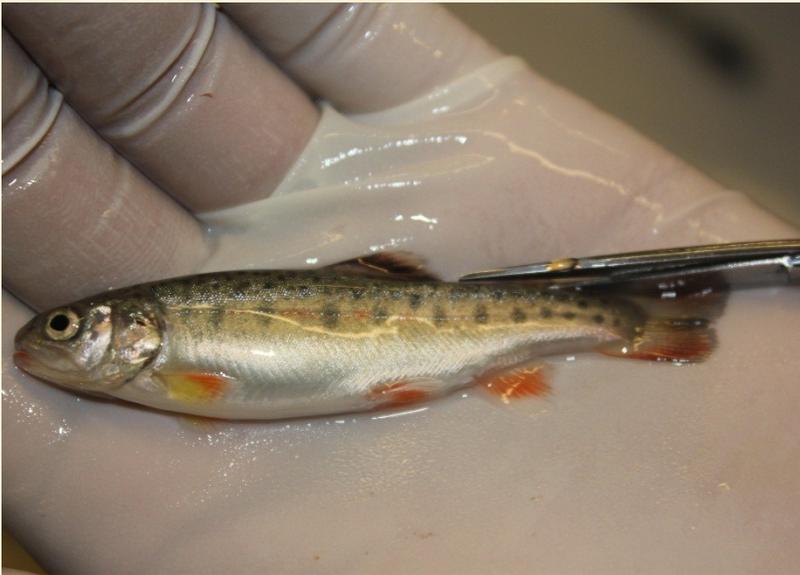
Mora National Fish Hatchery and Rio Mora National Wildlife Refuge co-funded a crew from the Rocky Mountain Youth Corp (RMYC) for the summer. Each site hosted the crew for approximately four weeks. The team undertook fuel reduction projects on the hatchery grounds beginning on July 13. Staff identified the most critical areas for clearing and obtained a better brush chipper from Sevilleta NWR to speed the removal efforts. Hatchery staff was very pleased with the crew's work ethic and was surprised with how much was accomplished. Mora has submitted a proposal to procure the crew for next year. Great work RMYC!

Before



After





Fin Clipping

Hatchery staff and the Rocky Mountain Youth Corp personnel fin clipped approximately 11,000 fish for recovery efforts in New Mexico and Arizona. These fish will be used to assess the effectiveness of several barriers and the amount of contribution the hatchery fish have to the resident population.

Richie on Detail

Richie Garcia, Maintenance Worker for Mora NFH, accepted a detail position at the Las Vegas National Wildlife Refuge starting on July 28. The detail will be for approximately four weeks as he helps the refuge's staff with critical projects that have been postponed due to injured staff. Richie also coordinated borrowing a brush chipper from Sevilleta National Wildlife Refuge for the RMYC fuel reduction project.



Pollinator Gardens

Volunteer Priscilla Jansen-Toland created several small pollinator gardens around the hatchery's property. She identified suitable natural occurring vegetation which she transplanted into these gardens. Appropriate native seeds were also purchased and planted after the soil was properly prepared. The hatchery will expand these areas as staffing allows.



Mora's YCCs at Las Vegas NWR

Tristen and Kimberly assisted staff from the Las Vegas National Wildlife Refuge on July 15 with tree planting, installing fencing, and placing water gates on the refuge's property. This exchange of personnel allows our YCC's to experience some of the wide range of activities that the U.S. Fish and Wildlife Service undertakes.

Daniel on Detail

Daniel Gallegos, Pathways intern, completed a one week work detail at the Tishomingo National Fish Hatchery in Tishomingo, Oklahoma from July 13-17. Daniel assisted with the coded wire tagging of paddlefish and helped stock 13,000 paddlefish to local lakes. He also moved adult alligator snapping turtles on station from one of the holding houses to round tanks outside. Mora sends a thank you to Tishomingo NFH for hosting Daniel!



Pollinator Walking Trail Created

Volunteer Priscilla Jansen-Toland and hatchery staff designed and created a walking trail that allows visitors to observe pollinators in their natural habitat. The trail was created by using the chipped wood byproduct of the fuel reduction project. Volunteer Sandy Kalb created a park bench at the end of the trail that overlooks the hatchery's polishing pond. Priscilla also transplanted naturally occurring vegetation that will grow and expand in the future to provide more habitat.

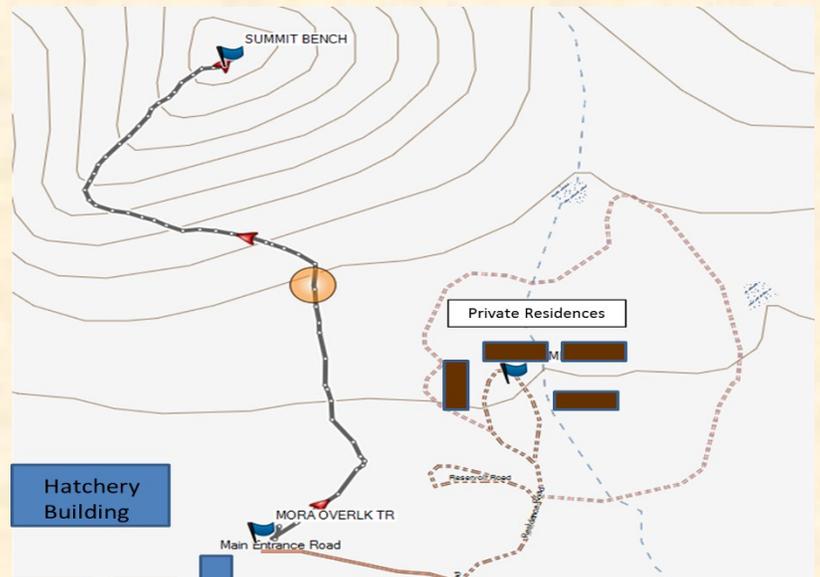


Daniel Gallegos Highlighted

Daniel Gallegos, Pathways intern, was highlighted by the Southwest Region of the US Fish and Wildlife Service for his transition from Youth Conservation Corps to staff member at the Mora National Fish Hatchery. The entire article can be found here http://www.fws.gov/southwest/fisheries/currents/stories/Daniel_Gallegos_YCC_to_Career/index.html. Congratulations Daniel!

Hatchery Hiking Trail

The Mora National Fish Hatchery overlook trail has been updated and improved. The trail is one mile round-trip and about 500 feet of elevation gain to a breathtaking view of the Mora Valley and the Sangre de Cristo Mountains. Staff have installed guideposts to guide visitors, and a map of the trail can be found on our website. Happy hiking!



Audubon Summer Camp

Grant Langmaid represented the hatchery at the Audubon Society's annual youth summer camp in Santa Fe, NM, on July 29. Included in his presentation was Mora's Living Stream display that allows the public to view the rare Gila trout.



| Production Lineage | Brood Year | Purpose | Location | Number | Mortality | Sample (fpp) | Length (in) | Biomass (lbs) |
|--------------------|--------------|----------|-------------|--------|---------------|--------------|-------------|---------------|
| Main Diamond | 2013 | Brood | Raceway 6B | 483 | 5 | 0.6 | 15.7 | 807 |
| | 2014 | Brood | Raceway 6T | 1,118 | 1 | 2.1 | 10.6 | 532 |
| | 2015 | Brood | AQ, 30 | 1,336 | 3 | 130 | 2.7 | 10.7 |
| | 2015 | Recovery | SR, 96, 250 | 17,051 | 260 | 130 | 2.7 | 131.3 |
| | 2015 | Exper. | 2500-3 | 2,295 | 67 | 160 | 2.5 | 14.3 |
| | Total | | | | 22,283 | 335 | 14.9 | 5.5 |

| | | | | | | | | |
|---------------|--------------|----------|-------------|--------|---------------|------------|-------------|------------|
| South Diamond | 2012 | Wild | Shady Acres | 112 | 1 | 1.5 | 11.9 | 75 |
| | 2013 | Brood | Raceway 7B | 396 | 1 | 0.6 | 15.1 | 661 |
| | 2014 | Brood | Raceway 7T | 739 | 1 | 1.9 | 11.0 | 392 |
| | 2015 | Brood | AQ, 30 | 1,195 | 0 | 120 | 2.75 | 9.9 |
| | 2015 | Recovery | SR, 250 | 12,249 | 97 | 120 | 2.75 | 101.7 |
| | 2015 | Exper. | 380, SR | 9,230 | 70 | 140 | 2.6 | 64.6 |
| | Total | | | | 23,921 | 170 | 18.1 | 5.7 |

| | | | | | | | | |
|---------------|--------------|----------|---------------|-------|--------------|------------|-------------|------------|
| Whiskey Creek | 2011 | Wild | Whiskey Creek | 114 | 0 | 0.38 | 17.6 | 300 |
| | 2014 | Brood | Raceway 8T | 636 | 6 | 2.1 | 10.6 | 303 |
| | 2015 | Brood | AQ | 641 | 3 | 140 | 2.6 | 4.6 |
| | 2015 | Recovery | SR, 96 | 6,350 | 141 | 140 | 2.6 | 45.1 |
| | Total | | | | 7,741 | 150 | 11.9 | 5.9 |

| | | | | | | | | |
|--------------|--------------|-------|--------------|----|------------|----------|------------|-------------|
| Spruce Creek | 2010 | Wild | Spruce Creek | 24 | 1 | 2.5 | 10 | 9.6 |
| | 2013 | Wild | Spruce Creek | 18 | 0 | 4 | 7.9 | 4.5 |
| | 2014 | Brood | RW Circular | 51 | 0 | 1.5 | 11.9 | 34.2 |
| | 2014 | Wild | Spruce Creek | 13 | 0 | 10 | 6.3 | 1.3 |
| | Total | | | | 106 | 1 | 2.1 | 10.6 |

| | | | | | | | | |
|------------|--------------|------|-------------|----|-----------|----------|------------|-------------|
| Iron Creek | 2011 | Wild | Shady Acres | 32 | 0 | 1.2 | 12.8 | 27 |
| | Total | | | | 32 | 0 | 1.2 | 12.8 |

| | | | | | | | | |
|---------------------------|--|--|--|---------------|------------|-------------|------------|--------------|
| Total All Lineages | | | | 54,083 | 656 | 15.3 | 5.5 | 3,529 |
|---------------------------|--|--|--|---------------|------------|-------------|------------|--------------|

Inventories were completed this month on most 2015 year class fish, and stock on hand has been updated

Daniel and Mora YCC's Last Day

July 31st marked Tristen and Kimberly's last day working as Youth Conservation Corp students at the Mora National Fish Hatchery. It was also Daniel's last day until this year's winter break since he will be attending Eastern New Mexico State University during the fall. Thank you for the GREAT JOB this summer!



Upcoming Events

- Nate Wiese will be instructing the Coldwater Fish Culture Course in Casper, Wyoming from August 10-20.
- Mora's annual fish health inspection will take place on August 10 and 11.
- Staff will assist the New Mexico FWCO with field work and Main Diamond broodstock collection from August 26-28.
- Mora's first distribution trip of the season is tentatively scheduled for August 28, and 3,500 fingerlings will be released into Black Canyon Creek, NM.

In Brief

Nate Wiese and Jeff Conway teleconferenced with the EPA on July 8 concerning Mora's Administrative Order.

Nate Wiese attended two teleconferences in July coordinating the Cold Water Fish Culture curriculum.

Priscilla Jansen-Toland's last day was July 21.

Nate Wiese, Jeff Conway and Morgan Brizendine attended the summer Gila Trout Recovery Team Meeting on July 21. Morgan presented preliminary data from her DFP research project to the group.

The Bonytail Chub Evaluation Team visited Mora on July 22.

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, Pathways intern
Sandy Kalb, Volunteer
Morgan Brizendine, DFP Candidate
Tristen Valdez, YCC student
Kimberly Padilla, YCC student

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