Bonytail Refugia at Mora National Fish Hatchery

Nate Wiese, Mora National Fish Hatchery
1,267 Bonytail were transferred to Mora NFH on March 18, 2016 from Southwestern Native ARRC in Dexter, NM
Refugia Population

- On-station survival has been 99.5% to date
Mora National Fish Hatchery

- Located in Northern New Mexico in the Sange Cristo Mountains
- Sole propagation facility for Gila trout
- 95% re-use facility
Source Water

- Water originates from 4 groundwater wells (max flow of 600 gpm)
Recirc System Components
De-gassing

- Vacuum Degassing Towers for well water
- Lower Nitrogen supersaturation from 130% to 98%
- Make-up water of 20 gpm
Pump Bank

- Two, 3-hp pumps for tank water
- One ¾ hp pump for CO2 stripping and Oxygen tower
Biofilters

- Four biofilters to convert Ammonia to Nitrite and finally Nitrate
UV System

- Treat up to 200 gpm with 105,000 millijoules
Circular Tanks

- Center drains to provide continuous cleaning and swimming (625 gal tank)
Feeding System

- Belt feeders for 8-hour daily feeding of Razorback and BioDiet combination
Microscreens

- Screen at 150 microns for large solids
Water Quality Monitoring

- YSI 5500 and Aquamanager program for continuous monitoring of O₂, flow, temp, N₂ saturation
- Ammonia, pH, and CO₂ monitored as needed
Mora National Fish Hatchery
Bonytail Refugia!

Bonytail at transfer on March 18, 2016