JSRIP Formation

- Cooperative efforts between state, federal, and local agencies
- Comply with the Endangered Species Act
- Goals
  - Recover the June sucker
  - Allow for current and future water development and use
JSRIP Partners

- U.S. Fish and Wildlife Service
- Utah Department of Natural Resources
- Utah Reclamation, Mitigation, and Conservation Commission
- U.S. Department of Interior – CUPCA Office
- Central Utah Water Conservancy District
- U.S. Bureau of Reclamation
- Provo Reservoir Water Users Company
- Provo River Water Users Association
- Outdoor and Environmental Interests
Ecosystem Approach to Recovery
Past Research Highlights

• Impacts of non-native fish on June sucker recovery
  – Initiated development of carp control strategy

• Assessment of Utah Lake tributaries
  – Led to ongoing habitat work on Hobble Creek

• Flow recommendations for Provo River and Hobble Creek
  – Guide the release of supplemental flows in both tributaries

• Utah Lake Level Fluctuation Study
  – Fluctuations reduced as reach full demand

• Utah Lake Food Web
  – Predicting carp removal responses
Past Research Highlights Continued

- June sucker culture research
  - Temperature, diet, rearing densities
  - Stocking survival
  - Use of grow out facilities
- Genetic health of June sucker
- June sucker life history
  - Movement
  - Spawning needs
  - Early life history needs
- Public opinion survey
  - Messaging effectiveness
Ongoing Research

• Northern pike impacts in Utah Lake
  – Bioenergetics model and diet
  – Movement
  – Management strategy

• Carp population research/monitoring
  – Annual monitoring of carp density
  – Control methods research (YY Technology, species specific piscicides)
  – Population modeling
Ongoing Research Continued

- Flow monitoring
  - USGS gauges in Hobble Creek and Provo River
- June sucker population research and monitoring
  - Annual monitoring of spawning runs
  - Population viability analysis preparations
  - Origins of unmarked June sucker
Ongoing Research Continued

- Ecosystem Monitoring
  - Monitoring of variables in response to management actions
  - Water quality, zooplankton, macrophytes, macroinvertebrates, fishes
  - Primarily conducted by Utah State University with assistance from UDWR and UDWQ
  - Various approaches, but consistent datasets since 2011
2019 Water Quality Related Research

- Paleo habitat shifts and implications for June sucker
  - Through Utah State University
  - Analysis of sediment cores
- Harmful Algal Bloom effect on June sucker
  - Initial literature review
  - Past research conducted through USGS in Upper Klamath Lake
Ecosystem Approach to Recovery

- Maintain a broad based program
- Willing to cooperate on research funding moving forward
  - Answer additional questions
- Annual assessment meeting held each spring
  - 2019: April 9th and 10th at DNR building