

RECLAMATION

Managing Water in the West

Red Bluff Technical Teams - 2010 Activities



U.S. Department of the Interior
Bureau of Reclamation

Two Red Bluff Technical Teams:

- **Diversion Dam Operations**
 - **Minimum Gate Openings**
- **Green Sturgeon Research**
 - **Coordination Among Agencies**
 - **ACOE, UCD, DWR, USFWS, USBR, CDFG, NMFS**
 - **Coordination among Cooperators for Biological Opinion-Related Research**

Red Bluff Diversion Dam Operations Team



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Dam Operations



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Dam Operations



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Dam Operations

- **Team Considered Reducing the Minimum Gate Openings to About 12 Inches for the Gates Adjacent to the Fish Ladders in Late July or August, in an Attempt to Improve Attraction Flows**
- **Team Considered Whether to Install the Temporary Fish Ladder in the Center of the Dam**

Dam Operations

- **Dam Gates Were Raised Early on August 20, Rather than August 31**
- **Minimum Gate Openings Remained at 18 Inches for the Entire “Gates In” Period (June 15 to August 20)**
- **Temporary Center Ladder Was Not Installed**

Green Sturgeon Research

- **RPA Prescribed Research:**
 - Genetic Evaluation of Spawning Population
 - Telemetric Studies of Adult Movements
 - Characterization of Spawning Habitat in Sac. River
 - Telemetric Studies of Juveniles; Identify Rearing Habitat
 - Spawning Wild-Caught Sturgeon and Rearing Juveniles
 - Evaluation of Fish Screen Performance and Alternative Fish Exclusion Technologies
- **Three-Year Research Program**

Green Sturgeon Research

- **New Cooperative Agreement With U.C. Davis**
- **Continued Cooperation With USFWS**
- **Research Activities Continued During 2010:**
 - **Adults Were Tagged With Sonic Transmitters**
 - **Adults Were Tracked With Fixed and Mobile Receivers**
 - **Spawning Areas Are Being Identified and Characterized**
 - **Larval and Juvenile Sturgeon Were Captured in Traps and Benthic Nets, and Are Being Reared for Telemetric Studies**
 - **Mortalities are being used for Genetic Studies**