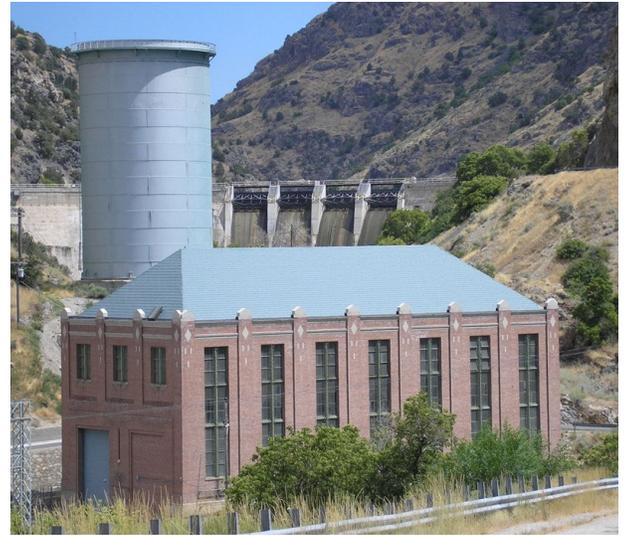


Cutler Hydroelectric Project

The Cutler Project (P-2420) Dam is located in Box Elder County, Utah, approximately 13 miles northwest of the town of Logan, in Cache County, Utah, although the vast majority of the project lands are located in Cache County. The project lands take up much of the western portion of the Cache Valley.

Finished in 1924, Cutler is the last PacifiCorp hydroelectric facility on the Bear River and has 2 generation units producing a combined 30 MW at a flow rate of 3,600 cfs. The historic Cutler powerhouse is a three story steel framed brick building. It is located on the north bank of the river below the dam.



In addition to natural flow, the Cutler project receives water from the Bear Lake Irrigation Project that pumps water from Bear Lake into the river during the irrigation season. This water is used to supply water to two irrigation canals which divert water from the north and south sides of Cutler Dam during the irrigation season, which reduces or eliminates power generation during the summer months.

Cutler dam is a concrete gravity arch dam. It has an overall crest length of 545' and is 109' high. The concrete spillway consists of four 30' wide by 14'. PacifiCorp delivers irrigation water to Bear River Canal Company through two headgates on the dam to the Westside and Hammond (East) Canals during from May 1 – October 31 for irrigation and up to 150 cfs for stock water November 1 – April 30, but diversions usually cease in early December. Typical maximum canal flows are 750 cfs in the Westside and 150 cfs in the Hammond (East) Canal, limited to 900 cfs total.

Cutler reservoir extends about 12 miles upstream from the dam and has an area at normal water elevation (4407.5') of 4,500 acres. The reservoir has a usable storage volume of 7,800 acre-feet as allowed in the current Federal Energy Regulatory Commission license. The reservoir level is kept within a narrow range year-round: 4,405.5 to 4,407.75 feet.

There are approximately 9,200 acres of project-land habitat around the reservoir. This vast emergent marsh wetland and adjacent uplands area supports abundant water fowl, shorebirds, and other wildlife. In consideration of the importance of this habitat, water fluctuations of the reservoir are maintained within specific guidelines. Every five years PacifiCorp reports to federal, state and non-governmental partners the monitoring results of its license implementation activities related to the management of these habitat lands.

The Federal Energy Regulatory Commission issued a 30-year license for the Cutler Project on April 29, 1994 (FERC License No. 2420) and is currently on a default annual renewal until a new license is issued. The license requires the provision of a Cutler Resource Management Plan and specifies recreational enhancements, shoreline buffers, bank stabilization, fencing, fish habitat structures, wildlife habitat and water quality enhancements, improvements to agricultural leases, mitigation for impacts on wetlands, and the preparation of a cultural resource plan.

Additional hydrologic information is provided below.

Cutler Reservoir, Plant and Streamflow Gages

All water from runoff and tributaries in Cache Valley flow into Cutler Reservoir



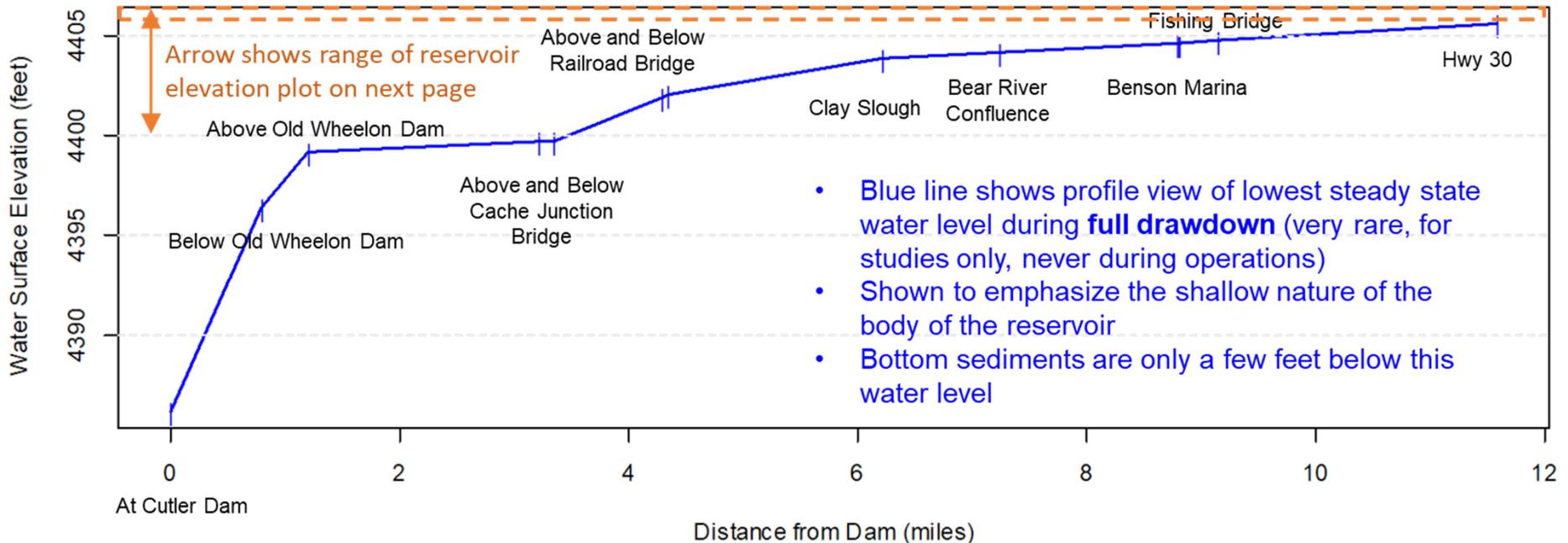
Cutler Reservoir Elevation Profile

This profile follows the curving centerline of the reservoir from the dam up to Highway 30 (Valley View highway)

- **Normal elevation range in orange**
- **Bottom sediments a few feet below blue line**
- Reservoir is very shallow in wetland area but very deep near dam
- Water surface elevation profile when completely drawn down (blue line)
- Orange rectangle shows normal elevation range

Very narrow orange rectangle at very top shows normal elevation range

Historical variations shown on next page

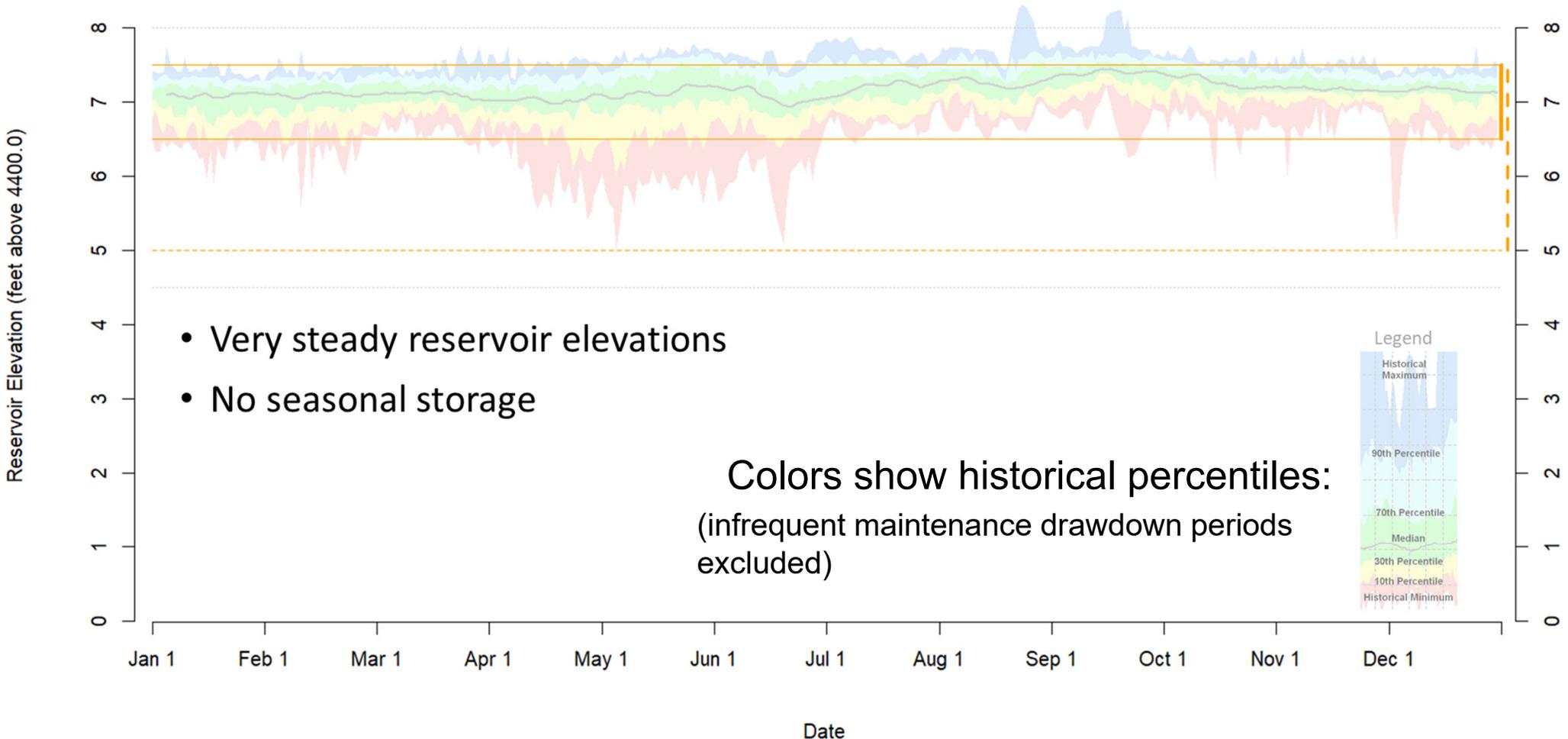


- Blue line shows profile view of lowest steady state water level during **full drawdown** (very rare, for studies only, never during operations)
- Shown to emphasize the shallow nature of the body of the reservoir
- Bottom sediments are only a few feet below this water level

Cutler Reservoir Typical Elevations and Historical Statistics (at Benson Marina Elevation Gage)

Highlights narrow range of typical operations

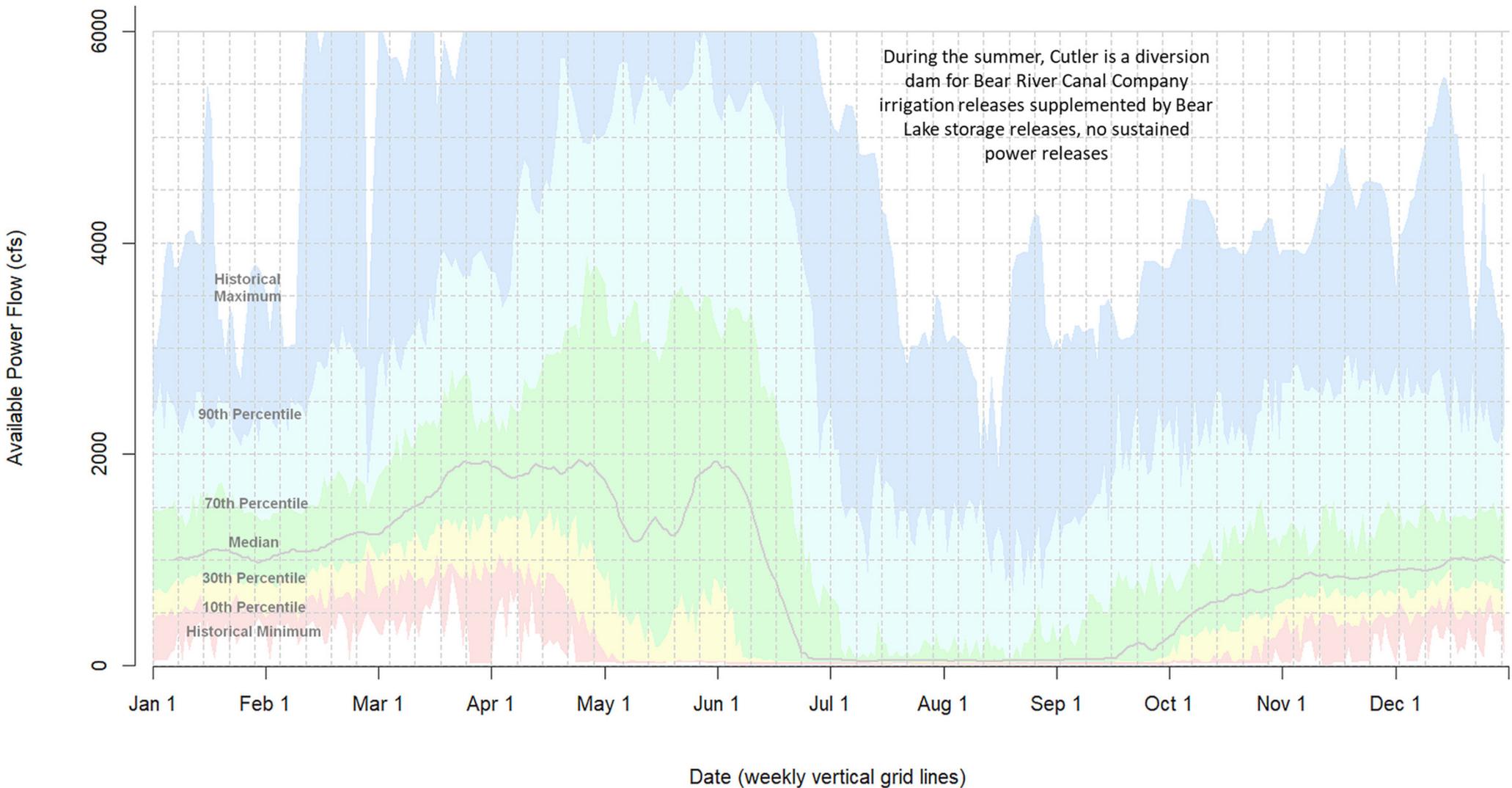
Median Daily Cutler Reservoir Elevation
Showing 2002-2022 Percentiles



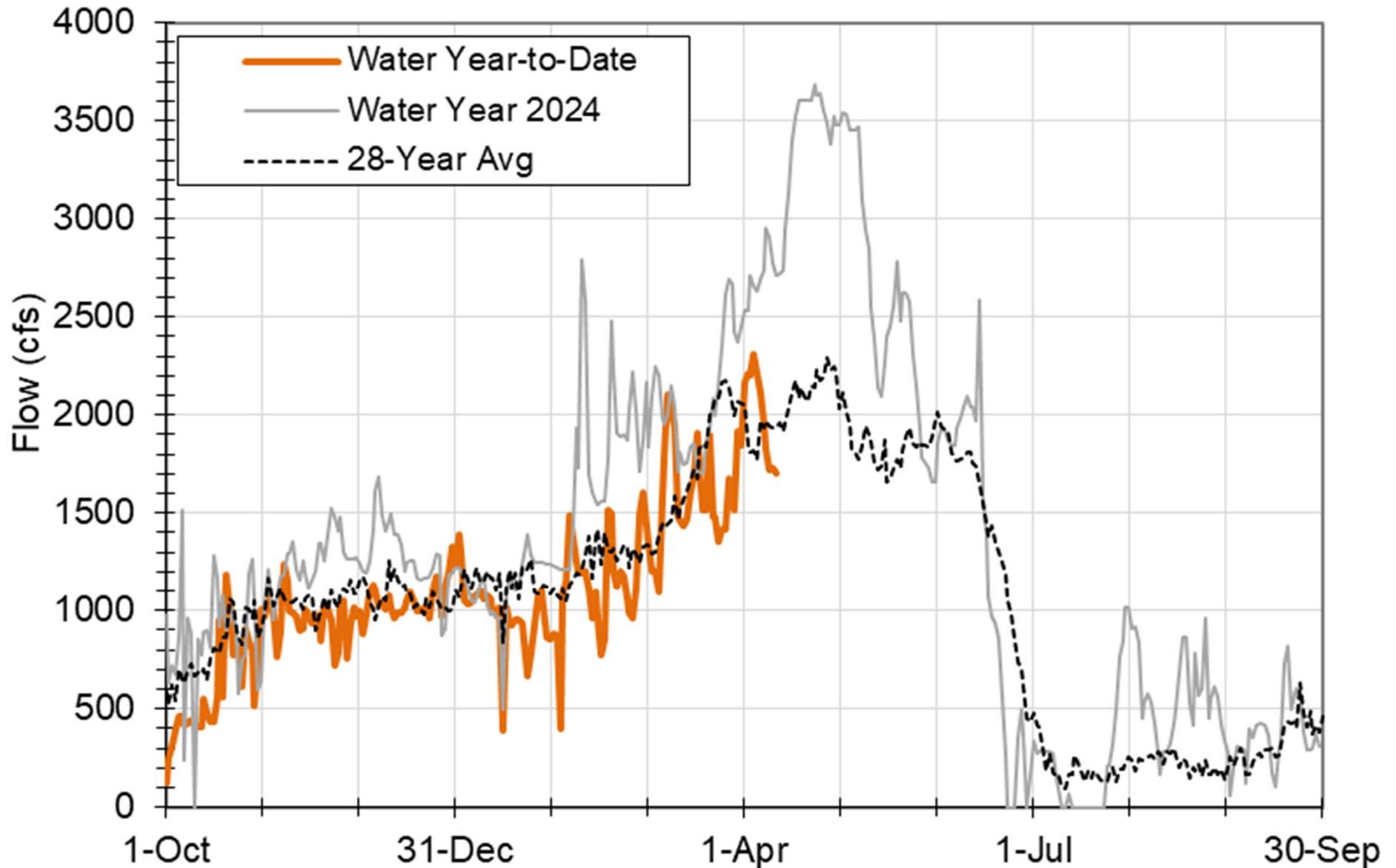
Power Releases from Cutler Hydroelectric Plant

Long-Term Median and Historical Statistics

Median Daily Flow below Cutler Plant
Showing 1980-2022 Percentiles

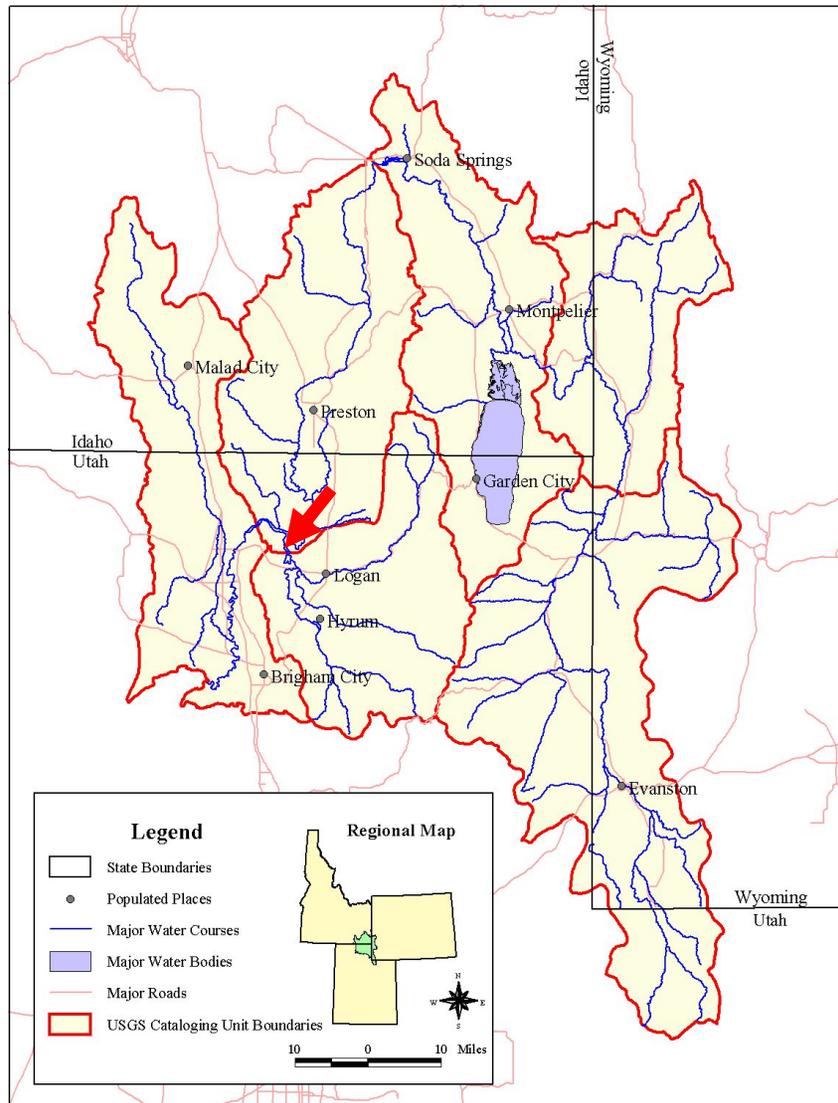


RECENT Cutler Hydroelectric Plant Power Flows (CFS) (excludes irrigation releases from dam) Water Year 2025, Last Year, and Recent 28-Year Average

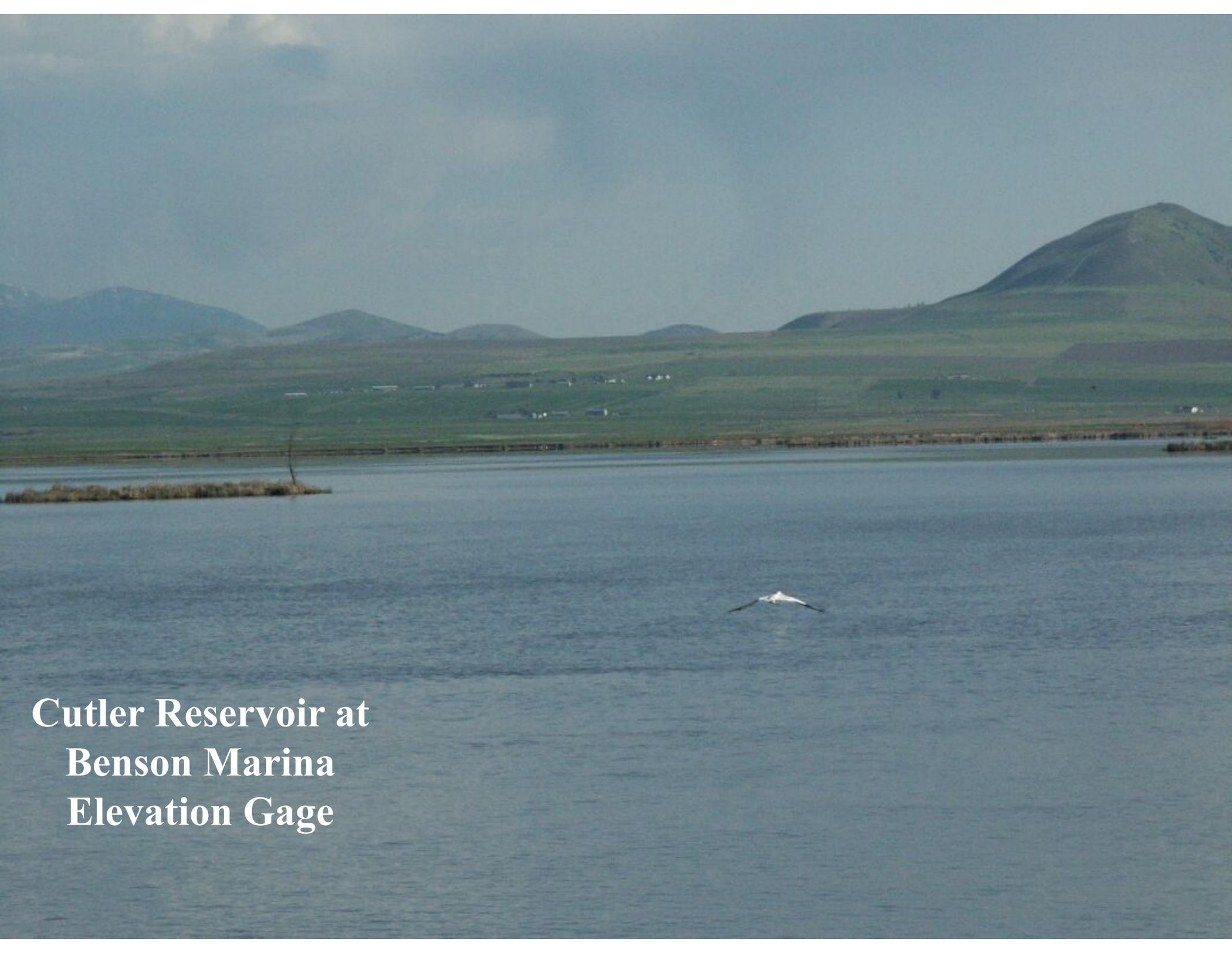


Pictures of Cutler Reservoir, Plant and Gages

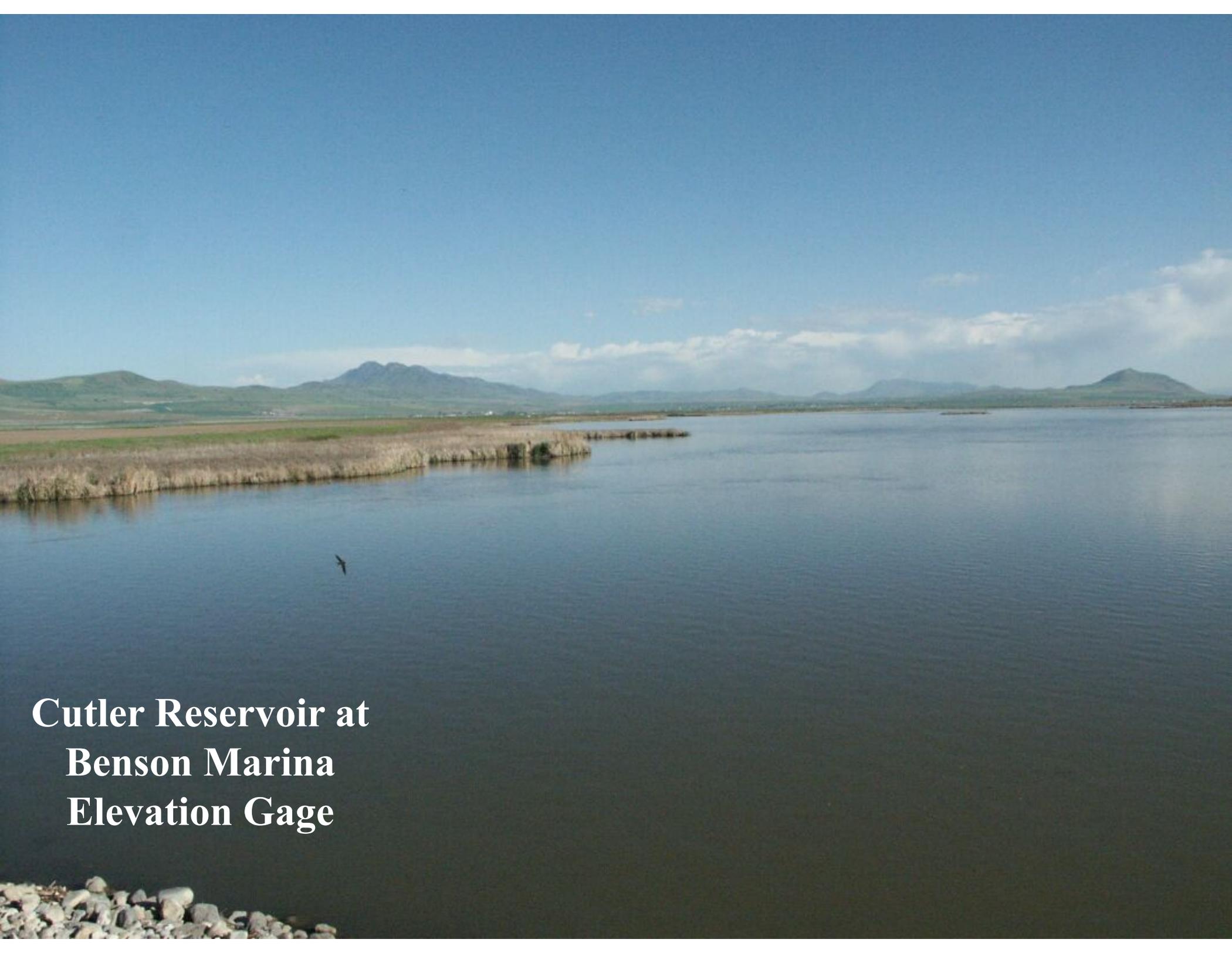
Main Body of Cutler Reservoir, Plant and Cutler Reservoir Elevation Gage at Benson Marina



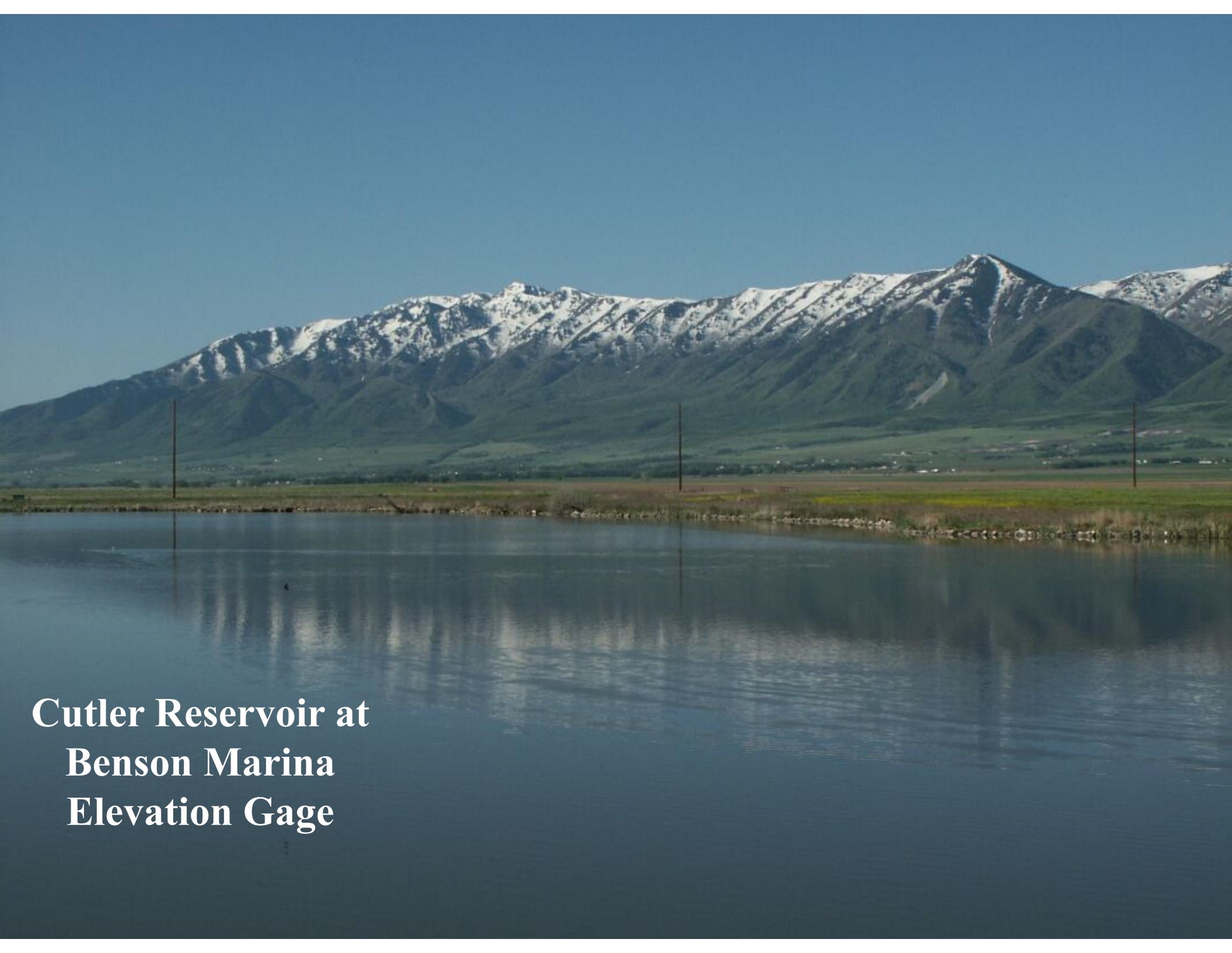
Pictures that follow
were taken at the
location indicated by
the red arrow



**Cutler Reservoir at
Benson Marina
Elevation Gage**

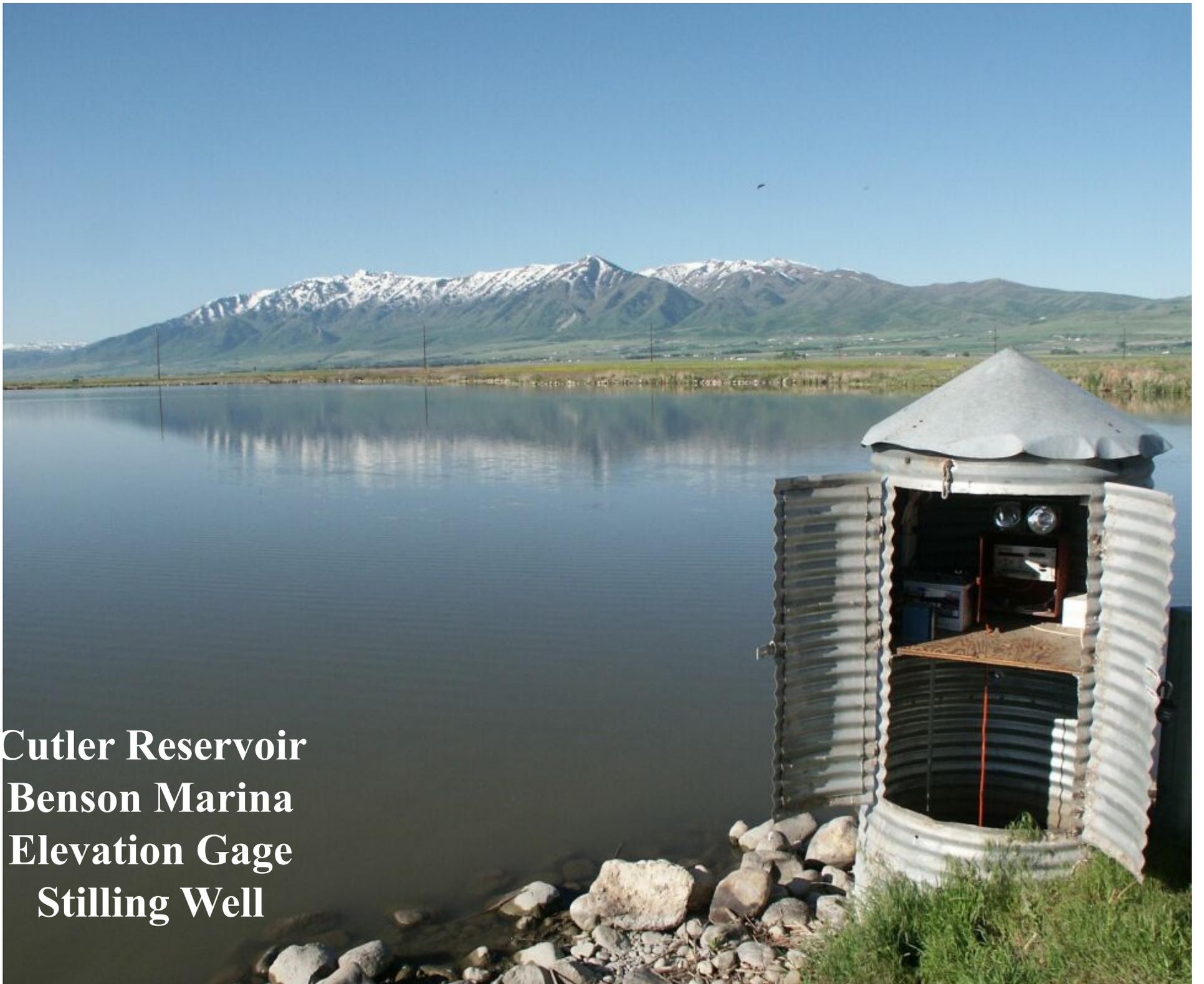


**Cutler Reservoir at
Benson Marina
Elevation Gage**

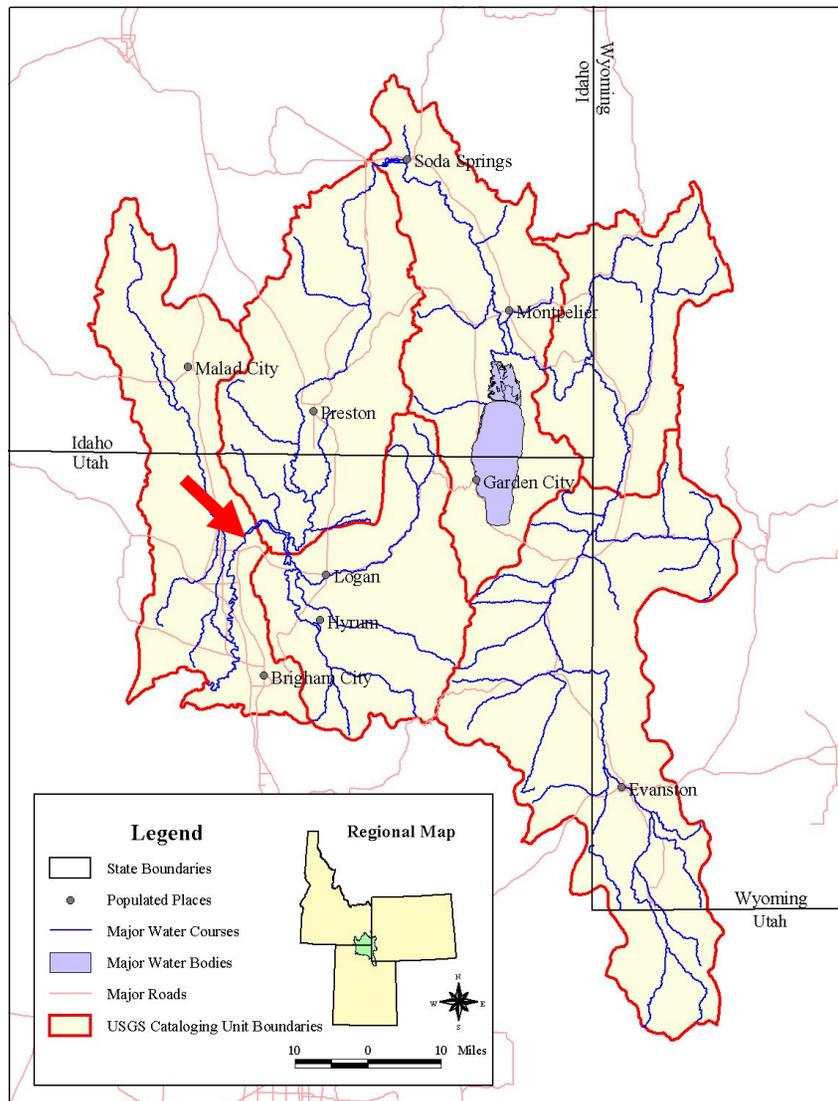


**Cutler Reservoir at
Benson Marina
Elevation Gage**

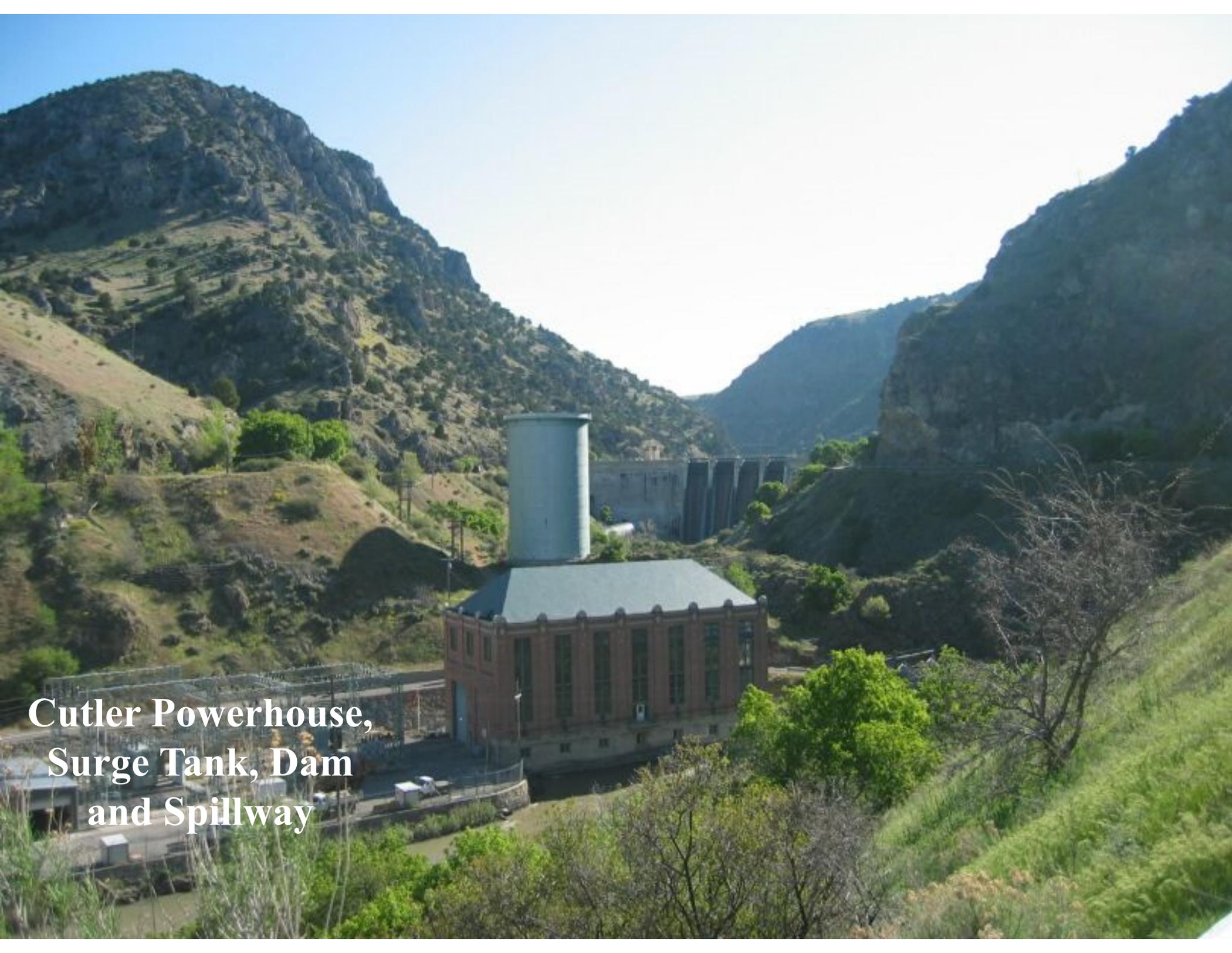
**Cutler Reservoir
Benson Marina
Elevation Gage
Stilling Well**



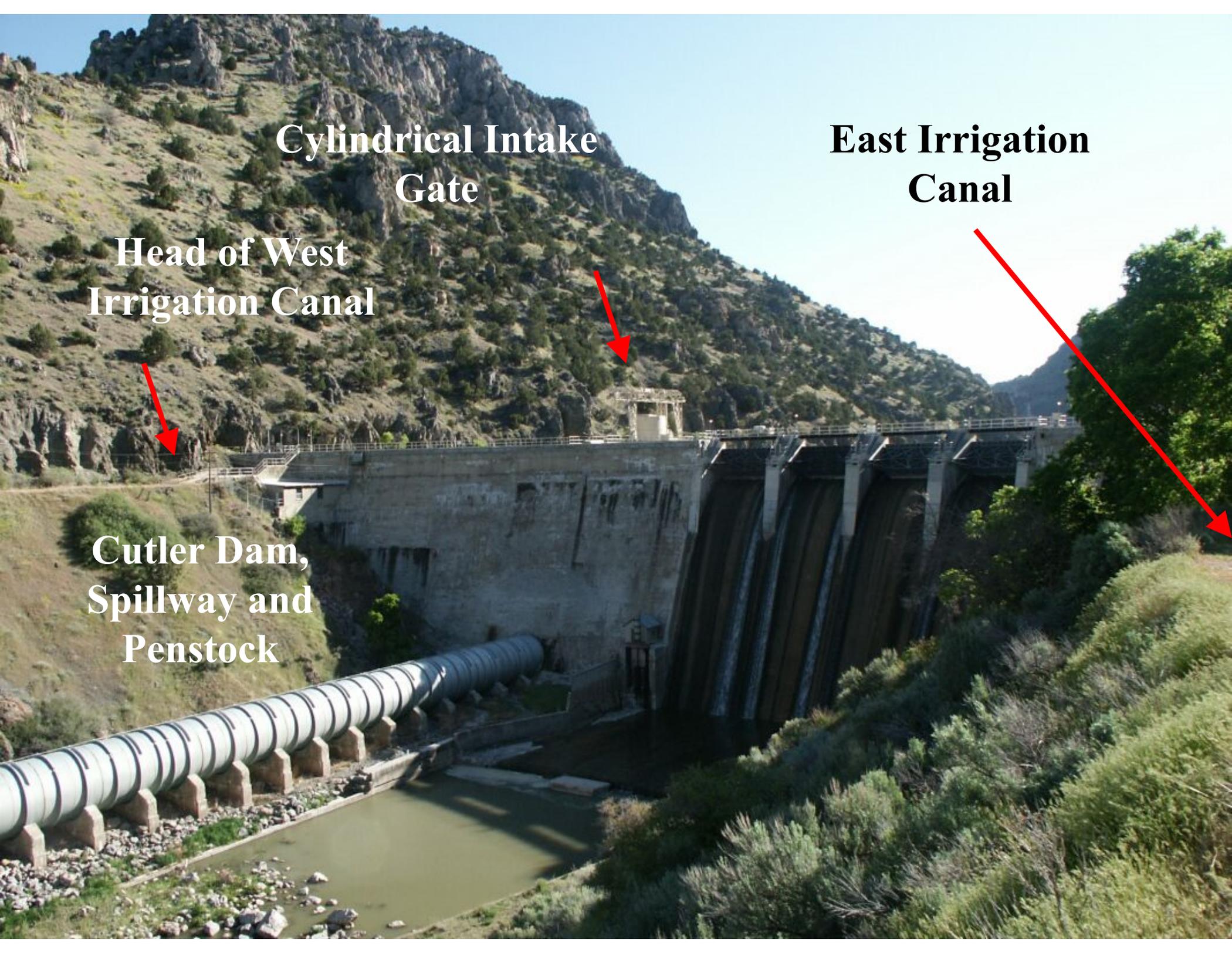
Cutler Plant



Pictures that follow were taken at the location indicated by the red arrow



**Cutler Powerhouse,
Surge Tank, Dam
and Spillway**



**Cylindrical Intake
Gate**

**East Irrigation
Canal**

**Head of West
Irrigation Canal**

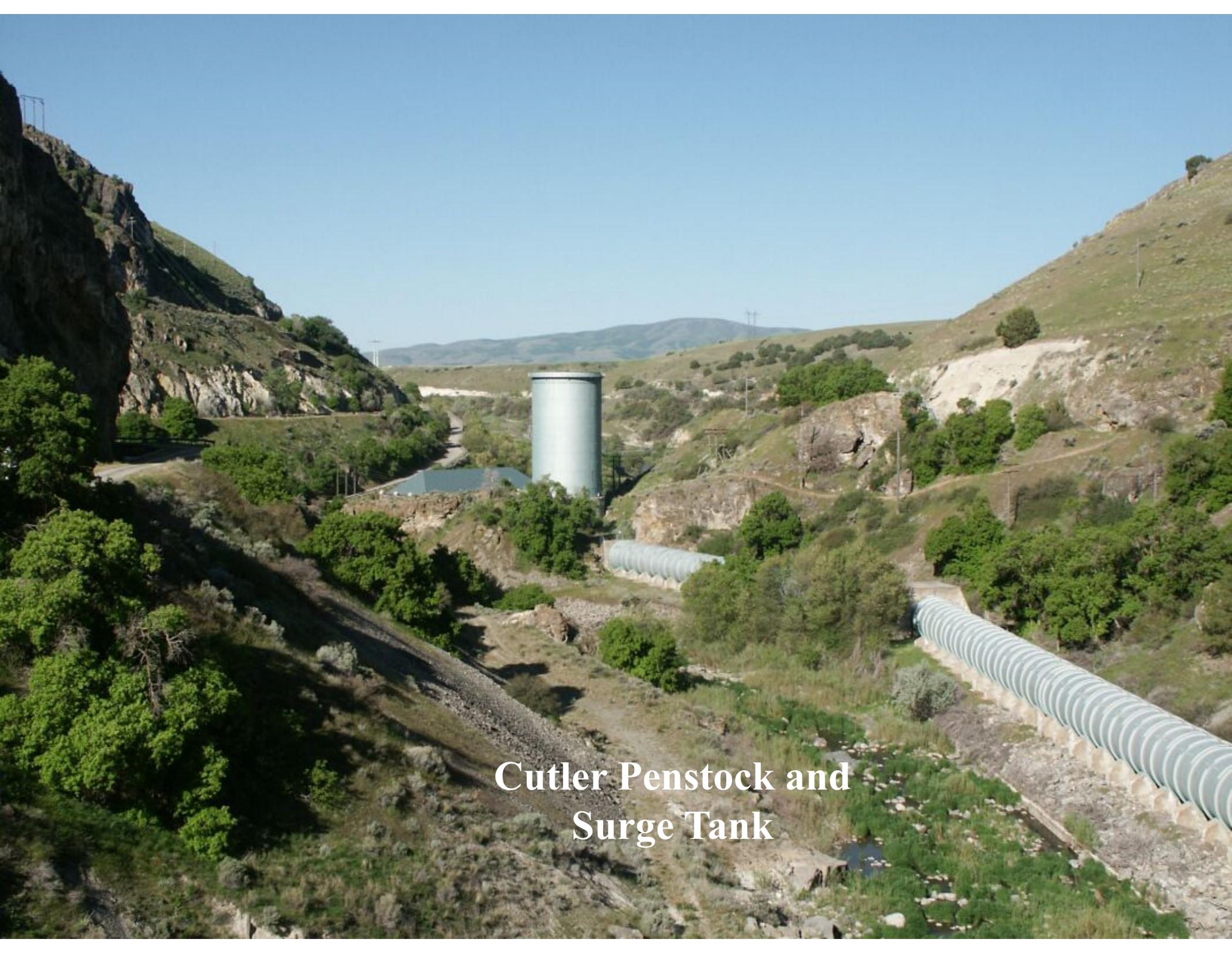
**Cutler Dam,
Spillway and
Penstock**



Cutler Reservoir



Cutler Reservoir



Cutler Penstock and
Surge Tank

Inside Cutler Plant

