

USGS Streamgaging Program



Streamgauge Operation



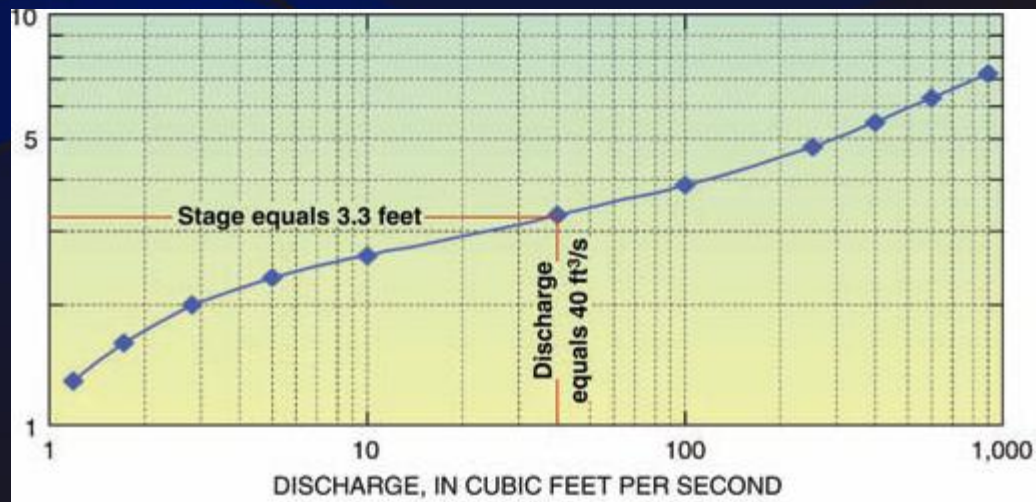
- Gage height (not discharge) is collected every 15 minutes.
- Transmitted once an hour via GOES



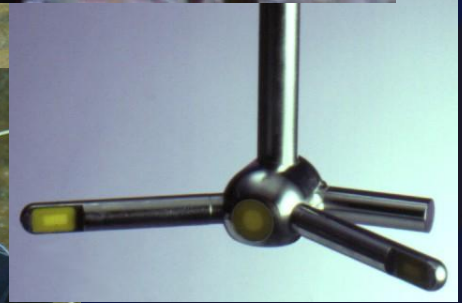
Streamgauge Operation



- Sites are measured approximately 9 times per year.
- Use measurements to determine stage-discharge relationship
- Also use measurements to determine “shifts” to the rating
- Measurements are also used to aid in estimating flows.



HydroAcoustics Traditional method: AA and meters

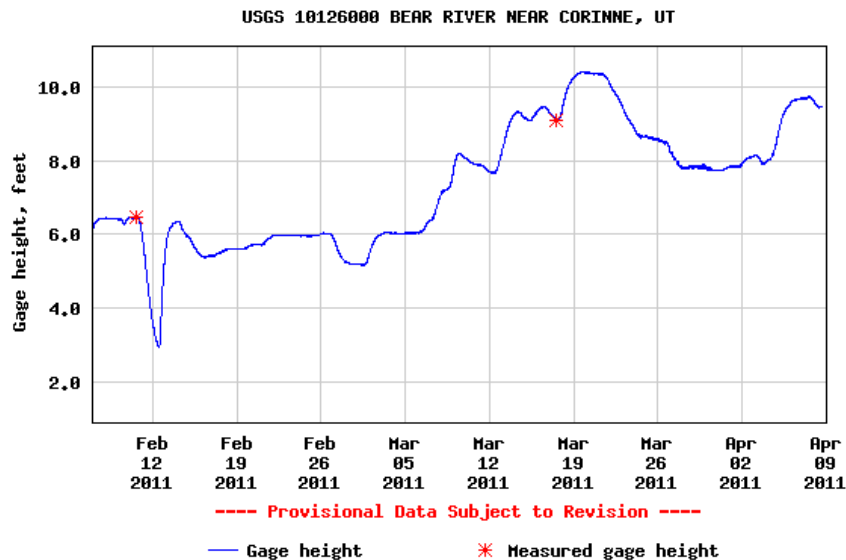


Streamgage Operation

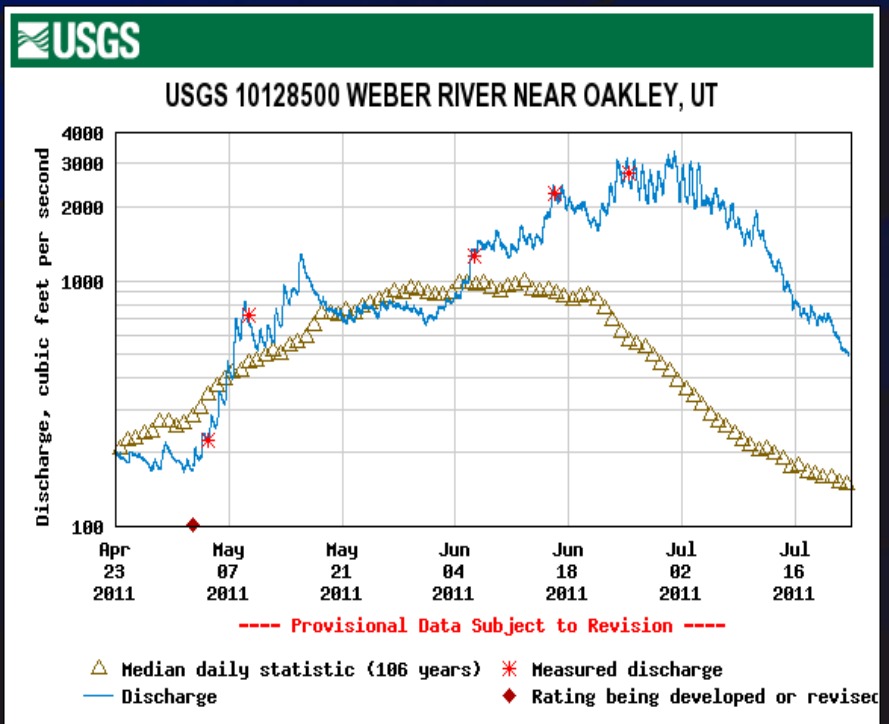
- Gaging “natural” channels in most cases.
- Subject to change through time – scour, fill, vegetation growth
- Records are given a rating as reviewed and approved (incrementally), excellent (+/- 5% - about 95% of the daily discharges are within 5% of the true value), good (+/- 10%) fair (> 15%), etc.



Streamgauge Operation

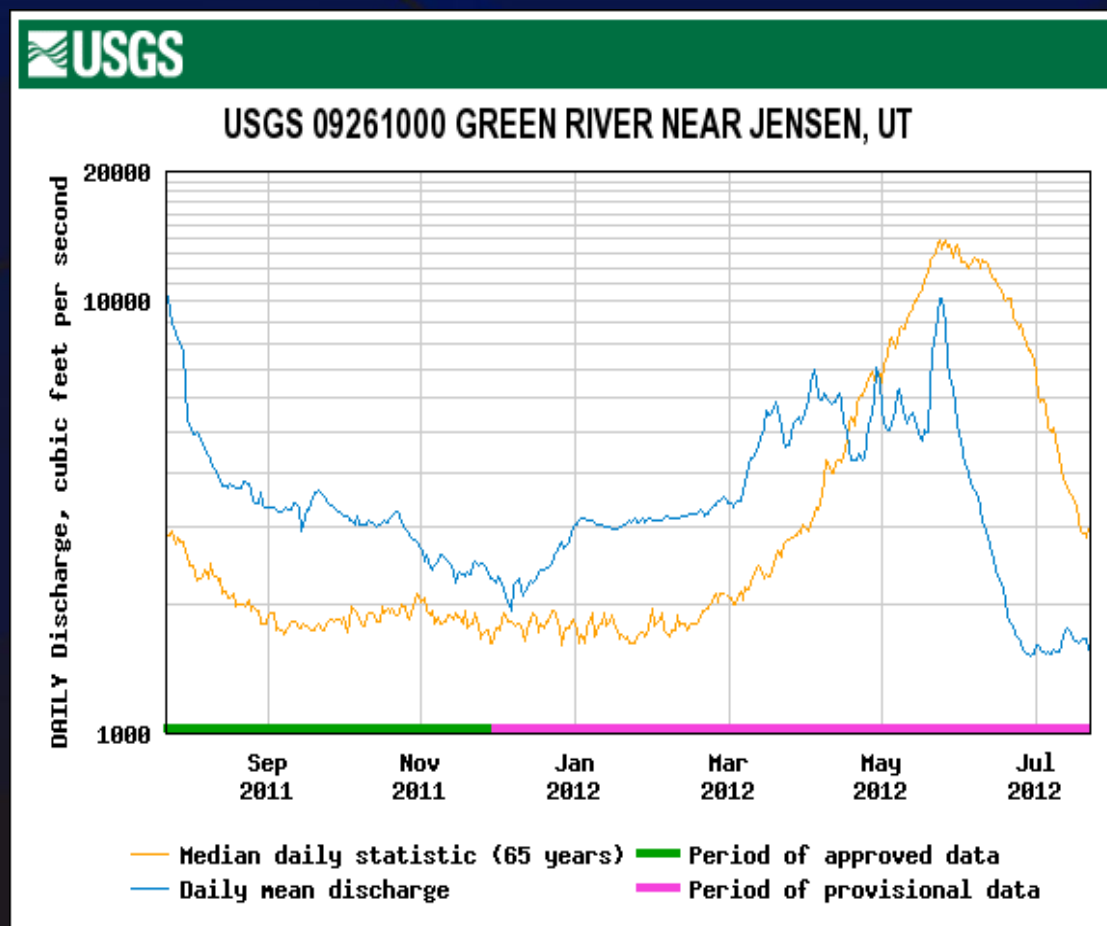


- Data is most accurate just before and after measurements.
- Real-time data displayed on the web is provisional and subject to change.



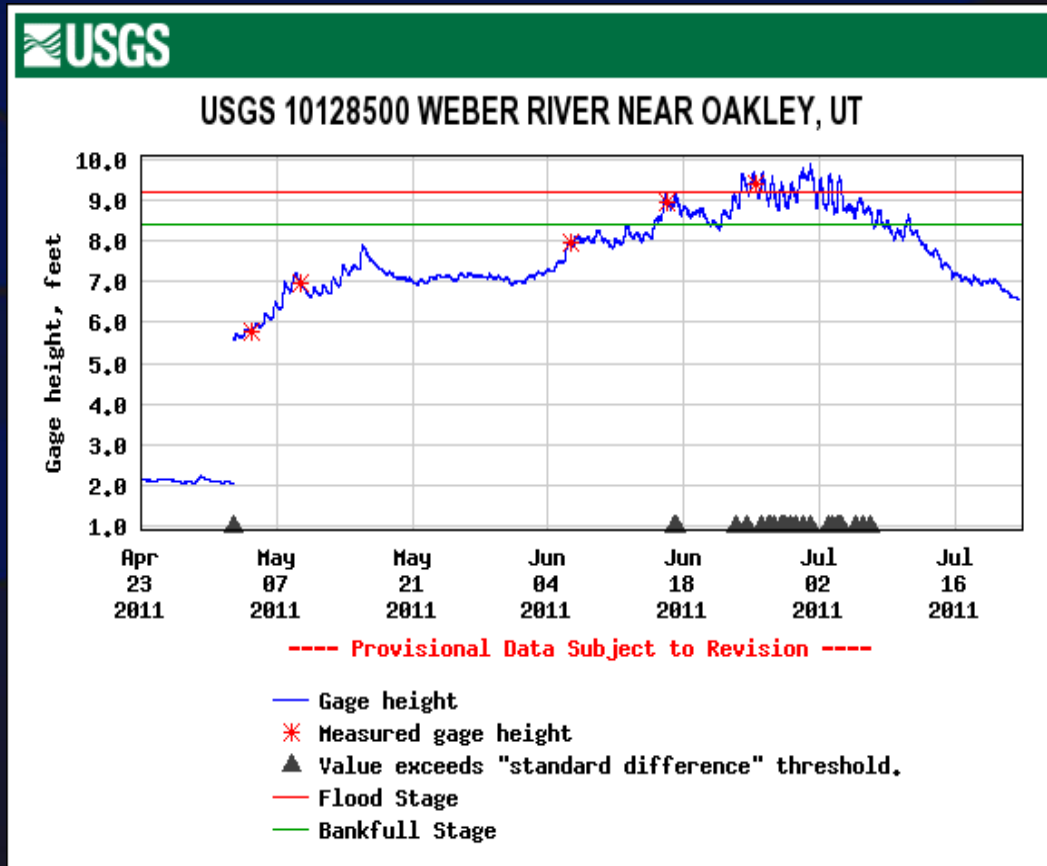
Streamgauge Operation

- Daily data approved incrementally during the year.
- Published after end of WY.



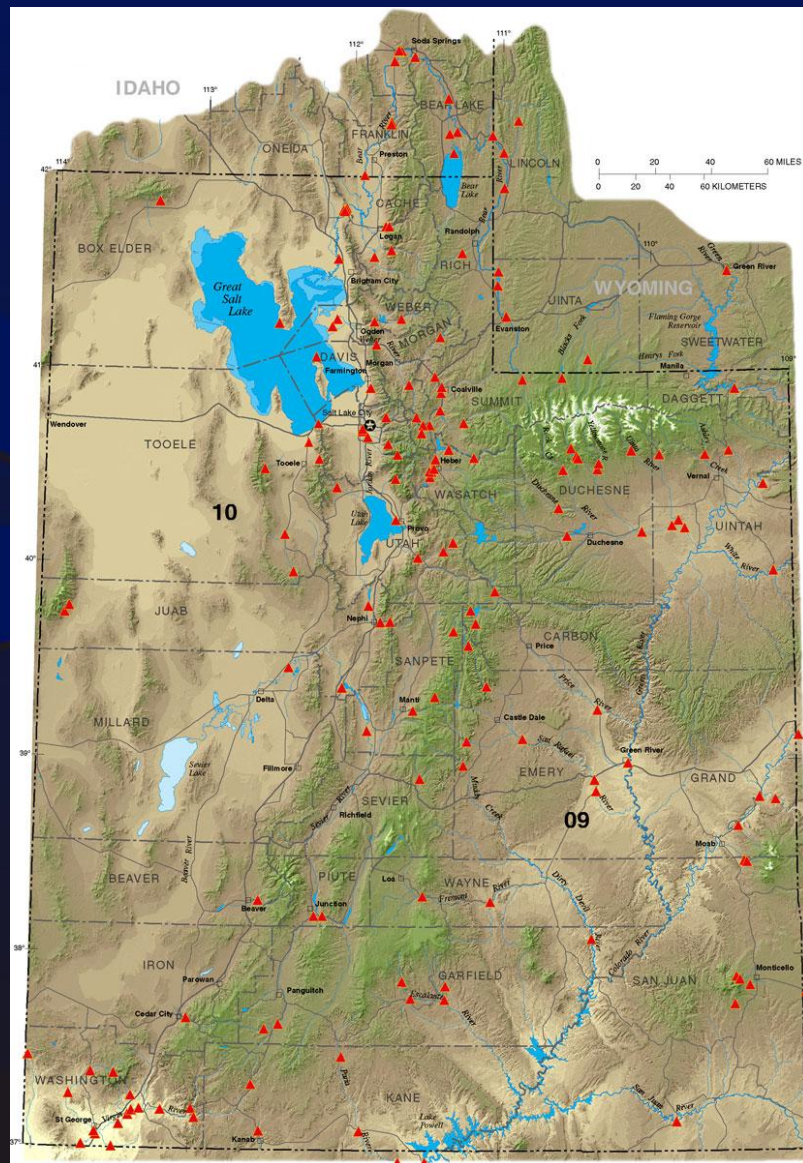
WaterAlert

- Threshold notification system.
- Subscribe on station page.
- Sends email or text.
- Hourly or daily.
- Works for:
 - Stage
 - Discharge
 - QW parameters



Utah Data Network

- Began in late 1800's (1889 – Weber R. at Gateway)
- 153 Active streamgages
- 618 Historic streamgages



Cooperators

- Utah Department of Natural Resources
 - Division of Water Rights
 - Division of Water Resources
- Utah DEQ
- Central Utah Water Conservancy District
- Bear River Commission
- NSIP
- U.S. Bureau of Reclamation
- BLM
- 13 Local entities

Questions?

