Snowpack Conditions, Station Information and Data Acquisition/Analysis

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Warm and drier March 2017 leads to early snowmelt and high flow volumes (outside April-July Target)
Spring Mountain Precipitation, 2017
October 1-November 14 Precipitation, 2017
SNOTEL Network Updates, WY 2018
Colorado Basin and Great Basin

Red Mountain Pass Snotel – Land Ownership Issue

• Site is on private land and landowner wants it removed
• Red Mountain Pass Snotel is a long term, high elevation site
• Critical for water supply forecasting in the Dolores, Gunnison and San Juan River Basins
• Option to purchase land and preserve site actively being negotiated. More news by February.
Slumgullion Snotel – Forest Disturbance, 2016. Stationarity impact unknown
Trapper Lake Snotel, White River Basin, Colorado

Burned in 2002 – obvious impact to data stream noticed in 2016 (windy winter?). Normals removed.
Snotel Air Temperature Bias

- Warm bias in historic record detected associated with sensor change in 1990’s-2000’s
- Efforts to correct the recent bias through use of new conversion equation
- Other less quantifiable biases in early air temperature record associated with radiation shield and sensor placement issues
- Efforts to identify a better sensor and shield combination going forward
SNOTEL and AWDB Data Access

• Report Generator
  http://wcc.sc.egov.usda.gov/reportGenerator/

• AWDB Web Service:
Data Analysis and Mapping

• Interactive Map: http://www.wcc.nrcs.usda.gov/snow/snow_map.html

• Snotel Update Report: http://wcc.sc.egov.usda.gov/reports/SelectUpdateReport.html
Contact NRCS Snow Survey and Water Supply Forecasting Program

- [http://www.wcc.nrcs.usda.gov/contact/index.html](http://www.wcc.nrcs.usda.gov/contact/index.html)
- The Contact Help Center offers comprehensive contact choices based on subject matter
- And of course, you can always contact me directly: angus.goodbody@por.usda.gov