**Reynolds Creek, Great Basin (IRON, domain 15)**

Location: **Reynolds Creek**, Great Basin (IRON, domain 15), REY_ID_IRON
Contact person: Fred Pierson, 208-422-0720, fpierson@nwrc.ars.usda.gov
Webpage: http:// neon-iron.org, http://ars.usda.gov/Main/site_main.htm?modecode=53-62-00-00

Location within domain:


Latitude: 43.08
Longitude: -116.72
Ownership: ARS, USDA
Access: open

Aquatic features: 3rd order stream

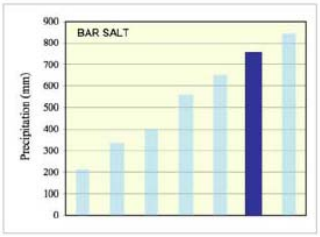
Contributions to national gradient: drought, land cover, invasives, infectious disease

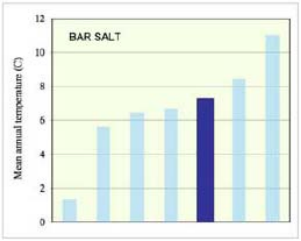
**History**: Since 1960, Reynolds Creek Experimental Watershed has provided continuous watershed-scale records of hydrologic inputs and outputs, one of the longest records in the Great Basin. ARS-USDA research has focused on both achieving a complete hydrologic understanding of this rangeland watershed as well as understanding the mechanistic controls on transpiration by different vegetation components. These extensive records provide a key foundation for regional climate change studies.

**Key characteristics**: The Reynolds Creek watershed is 239 km2. Sagebrush and grassland communities dominate most of the watershed; aspen and conifer forested vegetation occurs at higher elevations as is typical of the Great Basin.

Climatic location of Reynolds Creek within the BAR SALT gradient are shown in blue.

Contributions to national gradients: drought, land cover, invasives, infectious disease




**Existing infrastructure**: This site has extensive distributed networks of meteorological stations, eddy covariance and transpiration measurement systems, rain gauges, and weirs. Additionally, there are long records of stream discharge, groundwater, sediment loads, lysimetry, and soil microclimate and moisture content. Detailed descriptions of the vegetation, soils, and geology are available. All data records are integrated into a spatial database and GIS.

**Facilities**: There are no laboratory facilities on site, but laboratory and storage space is available nearby in Boise, ID.