

2017

Great Basin Surface Water and Precipitation Isotope Data

Larry Benson

U.S. Geological Survey, great.basin666@gmail.com

Follow this and additional works at: <https://digitalcommons.unl.edu/usgsdata>

 Part of the [Fresh Water Studies Commons](#), [Geochemistry Commons](#), [Hydrology Commons](#), and the [Sedimentology Commons](#)

Benson, Larry, "Great Basin Surface Water and Precipitation Isotope Data" (2017). *Data Sets for USGS Research*. 2.
<https://digitalcommons.unl.edu/usgsdata/2>

This Article is brought to you for free and open access by the US Geological Survey at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Data Sets for USGS Research by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

In the Great Basin Surface Water and Precipitation Isotope Data folder:

Farad, Nixon, and Pyramid Lake 18O data were reported in:

Benson, L.V., 1994, Stable isotopes of oxygen and hydrogen in the Truckee River-Pyramid Lake surface-water system. 1. Data analysis and extraction of paleoclimatic information: Limnology and Oceanography, vol. 39, p. 344-355.

<https://digitalcommons.unl.edu/usgsstaffpub/1015>

Spring chemistry around Pyramid Lake data were reported in:

Benson, L.V., 1994, Carbonate deposition, Pyramid Lake subbasin, Nevada: 1. Sequence of formation and elevational distribution of carbonate deposits (tufas): Palaeogeography, Palaeoclimatology, Palaeoecology, vol. 109, p. 55-87.

Benson, L.V., Kashgarian M., and Rubin, M., 1995, Carbonate deposition, Pyramid Lake subbasin, Nevada: 2. Lake levels and polar jet stream positions reconstructed from radiocarbon ages and elevations of carbonate deposits (tufas): Palaeogeography, Palaeoclimatology, Palaeoecology, vol. 117, p. 1-30. <https://digitalcommons.unl.edu/usgsstaffpub/1014>

Tahoe precipitation isotope data were reported in:

Benson, L.V., 1994, Stable isotopes of oxygen and hydrogen in the Truckee River-Pyramid Lake surface-water system. 1. Data analysis and extraction of paleoclimatic information: Limnology and Oceanography, vol. 39, p. 344-355.

<https://digitalcommons.unl.edu/usgsstaffpub/1015>

Walker Lake open water isotope data were in part reported in:

Benson, L.V., 1988, Preliminary paleolimnologic data for the Walker Lake subbasin, California and Nevada: U.S. Geological Survey Water-Resources Investigations Report 87-4258, 50p. <http://digitalcommons.unl.edu/usgspubs/132>

However, much of this data has not been previously published.

Western Great Basin surface water and precipitation data were in part reported in:

Benson, L.V., 1994, Stable isotopes of oxygen and hydrogen in the Truckee River-Pyramid Lake surface-water system. 1. Data analysis and extraction of paleoclimatic information: Limnology and Oceanography, vol. 39, p. 344-355.

<https://digitalcommons.unl.edu/usgsstaffpub/1015>

However, much of this data have not been previously published.

Name	Date modified	Time modified	Size MB	Extension
Z:\Uploadables and Archive\USGS\Benson data\Great Basin Surface Water and Precipitation Isotope Data\Farad, Nixon, and Pyramid Lake O18 and 2H data.xls	11.11.2017	22:34:40	0.24	xls
Springs around Pyramid Lake.xlsx	12.11.2017	16:23:02	0.01	xlsx
Tahoe precip isotope data.xlsx	09.11.2017	20:56:40	0.02	xlsx
Walker Lake open water isotope data.xlsx	12.11.2017	15:57:30	0.01	xlsx
Western G. Basin Lake, River, and Precip isotope data.xlsx	27.01.2018	00:54:12	0.09	xlsx

General Comment: in most cases an age model based on ¹⁴C analyses is not included with the data sets although ones were created for the original publications. Given the general problems with ¹⁴C ages in the lakes of the Great Basin, age models based on paleomagnetic secular variation (PSV) are much preferred. However the original ¹⁴C data are included below so that the reader may create their own age models. Most of the calibrated ages in this data base have been done more recently than the times of original publication so they may not exactly match the dates in the publications.