

6 References

- Agency for Toxic Substances and Disease Registry (ATSDR). 2010. Toxicological profile for Boron. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service. Available from: https://www.atsdr.cdc.gov/ToxProfiles/tp26.pdf
- Allen, A. and Chapman, D., 2001. Impacts of Afforestation on Groundwater Resources and Quality. *Hydrogeology Journal*, 2001: Vol 9: 390-400.
- Bachand and Associates, Carlton Hydrology. 2020. Groundwater relationships to pumping, precipitation and geology in high-elevation basin, Sierra Valley, CA. For Feather River Land Trust (FRLT) in fulfillment of Deliverable #1: Groundwater Report.
- Bachand & Associates, in collaboration with U.C. Cooperative Extension, 2020, LESA System Provide Uncertain Efficiency Improvements for Alfalfa Irrigation, Sierra Valley Irrigation Tests, 2018-2019, presentation to the Sierra Valley Groundwater Management District, June 2020.
- Bachand, P.A.M., Burt, K.S., Carlton, S., and Bachand, S.M. 2019. Sierra Valley, CA A White Paper on the Opportunities and Challenges for Management of Groundwater under SGMA. Report to Feather River Land Trust with support from Bachand and Associates. Available from: https://www.bachandassociates.com/ and https://www.frlt.org/
- Berry, D.T. 1979. Geology of the Portola and Reconnaissance Peak Quadrangles, Plumas County, California. Master of Science Thesis, University of California, Davis. 87 p.
- Blankinship, J., & Hart, S. (2014). Hydrological Control of Greenhouse Gas Fluxes in a Sierra Nevada Subalpine Meadow. *Arctic Antarctic and Alpine Research*, *46*(2), 355-364.
- Bohm, B. 2016a. Inventory of Sierra Valley Wells and Groundwater Quality Conditions. Available from:
 - http://www.sierravalleygmd.org/files/c6bf042c7/Sierra+Valley+Wells+and+GW+Quality+-+Bohm+-+11-29-16.pdf
- Bohm, B. 2016b. Sierra Valley Aquifer Delineation and Ground Water Flow. Available from: http://www.sierravalleygmd.org/files/95dd7ff5b/Sierra+Valley+Aquifer+Delineation+and+GW+Flow+-+Bohm+-+12-27-16.pdf
- Bonneville Power Administration. No date. Low Elevation Sprinkler Application. https://www.bpa.gov/EE/Sectors/agriculture/Pages/LEPA%20and%20LESA.aspx
- California Department of Fish and Game (CDFG). 2003. Atlas of the biodiversity of California.
- CDFW (California Department of Fish and Wildlife). 2020a. Special Vascular Plants, Bryophytes, and Lichens List. Accessed November 2020.
- CDFW (California Department of Fish and Wildlife). 2020b. Sensitive Natural Communities List. Accessed October 2020.



- CDFW (California Department of Fish and Wildlife). 2020c. California Natural Diversity Database. RareFind 5 [Internet], Version 5.1.1. [accessed: October 2020].
- CDFW (California Department of Fish and Wildlife). 2021a. California's Known Wolves Past and Present. October. Available from: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=195469&inline
- CDFW (California Department of Fish and Wildlife). 2021b. Biogeographic Information and Observation System (BIOS). https://wildlife.ca.gov/Data/BIOS. Accessed October 2021.
- California Department of Transportation (CalTrans). 2016. Record of Survey No. 2017-004.
- California Department of Transportation (CalTrans). 2021. Geotechnical Memo Pavement Cracking Assessment and Recommendations. File, 02-PLU-70-85.7/89.35, 0218000068. May 25, 2021.
- California Department of Water Resources (DWR). 1963. Northeastern Counties Investigation, Volume 2, Plates. California Department of Water Resources. Bulletin 98.
- California Department of Water Resources (DWR) 1973. An interagency-multidisciplinary investigation of the natural resources of the Sierra Valley study area. Sacramento, California.
- California Department of Water Resources (DWR). 1983. Sierra Valley Ground Water Study. Northern District Memorandum Report. California Department of Water Resources. Bulletin 118-80.
- California Department of Water Resources (DWR). 1998. Contribution of Frenchman Lake spill to the fishery of Little Last Chance Creek. DWR Northern District. December.
- California Department of Water Resources (DWR). 2004a. Sierra Valley Ground Water Study Update Sierra Valley Subbasin. Northern District Memorandum Report. California Department of Water Resources. Bulletin 118-80. Available from: https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Bulletin-118/Files/2003-Basin-Descriptions/5_012_01_SierraValleyGroundwaterSubbasin.pdf
- California Department of Water Resources (DWR). 2004b. Sierra Valley Ground Water Study Update Chilcoot Subbasin. Northern District Memorandum Report. California Department of Water Resources. Bulletin 118-80. Available from:

 https://www.water.ca.gov/LegacyFiles/groundwater/bulletin118/basindescriptions/5-12.02.pdf
- California Department of Water Resources (DWR). 2016. Best Management Practices for the Sustainable Management of Groundwater. Monitoring Network and Identification of Data Gaps. Sustainable Groundwater Management Program. December 2016. https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-2-Monitoring-Networks-and-Identification-of-Data-Gaps ay 19.pdf



- California Department of Water Resources (DWR). 2018a. Climate Change Data and Guidance for Use During Groundwater Sustainability Plan Development. https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/Resource-Guide-Climate-Change-Guidance v8 ay 19.pdf
- California Department of Water Resources (DWR). 2018b. Statewide Crop Mapping. Available from: https://data.cnra.ca.gov/dataset/statewide-crop-mapping
- California Department of Water Resources (DWR). 2019. SGMA Basin Prioritization Process and Results. https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization
- California Department of Water Resources (DWR). 2020. Natural Communities Commonly Associated with Groundwater. Available from: https://data.cnra.ca.gov/dataset/natural-communities-commonly-associated-with-groundwater
- California Farm Bureau Federation (CFBF). 2021. Plumas-Sierra County Farm Bureau. Available from https://www.cfbf.com/countyfb/plumas-sierra/.
- CNPS (California Native Plant Society). 2021. A Manual of California Vegetation, online edition. http://www.cnps.org/cnps/vegetation/ [Accessed April 2021]. California Native Plant Society, Sacramento, California
- Campos, BR, RD Burnett, HL Loffland, RB Siegel. 2020. Bird Response to hydrologic restoration of montane riparian meadows. Restoration Ecology. 28(5): 1262-1272. https://doi.org/10.1111/rec.13212
- Carter, R.W. and Davidian, J. 1968. Techniques of Water-Resources Investigations of the United States Geological Survey: General Procedure for Gaging Streams. https://pubs.usgs.gov/twri/twri3-A6/pdf/twri 3-A6 a.pdf
- Davis, J., Blesius, L., Slocombe, M., Maher, S., Vasey, M., Christian, P. and Lynch, P., 2020. Unpiloted aerial system (UAS)-supported biogeomorphic analysis of restored Sierra Nevada montane meadows. Remote Sensing, 12(11), p.1828.
- Drake, K, M Hogan, R McCullough, B Moss, D Triplat, L Worster, L Downing, N Brautigam, and G Layh. 2013. Watershed Management Guidebook: A guide to Outcome-Based Watershed Management. An Integrated Environmental Restoration Services, Inc. Produced in collaboration with the Tahoe Resource Conservation District and Lahontan Regional Water Quality Control Board.
- eBird. 2021. eBird: An online database of bird distribution and abundance. Website [accessed April 2021]. eBird, Cornell Lab of Ornithology, Ithaca, New York.
- Elliot, Daniel, MA. Brief History of the Ramelli Ranch Vicinity, Sierra Valley, CA. February 8, 2021 (also Appendix 2-2).
- Farr, T.G., Jones, C.E., Liu, Z. 2017. Progress Report: Subsidence in California, March 2015 September 2016. Jet Propulsion Laboratory. California Institute of Technology. Available from:



- https://water.ca.gov/LegacyFiles/waterconditions/docs/2017/JPL%20subsidence%20report%20final%20for%20public%20dec%202016.pdf
- Feather River Land Trust. n.d. Sierra Valley Birders Guidebook. Feather River Land Trust and Plumas Audubon Society, Quincy, California.
- Foglia, L., McNally, A., Hall, C., Ledesma, L., & Hines, R. 2013. Scott Valley Integrated Hydrologic Model: Data collection, analysis, and water budget (Technical report). Davis: University of California. https://ucanr.edu/sites/groundwater/files/165395.pdf
- GeothermEx, Inc. 1986. Results of Temperature Gradient Hole Drilling in Sierra Valley, California. Attachment B. For County of Sierra.
- Glazer, A. and Likens, G., 2012. The Water Table: The Shifting Foundation of Life on Land. Royal Swedish Academy of Sciences. *Ambio*, 2012: Vol 41: 657-669.
- <u>Grismer</u>, M.E., <u>and Hogan, M.P.</u> 09 December 2004. Simulated Rainfall Evaluation of Revegetation/Mulch Erosion Control in the Lake Tahoe Basin 1: Method Assessment. Land Degradation and Development. https://doi.org/10.1002/ldr.640
- Hammersmark C.T., Rains M.C., Wickland A.C. & Mount J.F. 2009. Vegetation and water-table relationships in a hydrologically restored riparian meadow. Wetlands, 29, 785-797.
- Harbaugh, A.W., 2005. MODFLOW-2005, the US Geological Survey modular ground-water model: the ground-water flow process (pp. 6-A16). Reston, VA: US Department of the Interior, US Geological Survey.
- Harnach, W. 2016. Annotated checklist of the flora of the Sierra Valley region of Sierra and Plumas counties, California. Phytoneuron 2016-13: 1–121. Published 17 February 2016. ISSN 2153 733X.
- Harter, T., K. Dzurella, G. Kourakos, A. Hollander, A. Bell, N. Santos, Q. Hart, A. King, J. Quinn, G. Lampinen, D. Liptzin, T. Rosenstock, M. Zhang, G.S. Pettygrove, and T. Tomich, 2017. Nitro gen Fertilizer Loading to Groundwater in the Central Valley. Final Report to the Fertilizer Research Education Program, Projects 11-0301 and 150454, California Department of Food and Agriculture and University of California Davis, 333p., http://groundwaternitrate.ucdavis.edu
- Hopkins, J. and Anderson, B. 1994. Explanation of the Texas Water Development Board groundwater level monitoring program and water-level measuring manual: UM-52, 53 p. http://www.twdb.texas.gov/groundwater/docs/UMs/UM-52.pdf
- Hunt, L.J.H., Fair, J., and Odland, M. 2018. Meadow Restoration Increases Baseflow and Groundwater Storage in the Sierra Nevada Mountains of California. Journal of the American Water Resources Association, Vol. 54, Issue 5. https://doi.org/10.1111/1752-1688.12675
- Jepson Flora Project. 2020. Jepson eFlora. Website. http://ucjeps.berkeley.edu/eflora [Accessed October 2020].
- Klausmeyer K., J. Howard, T. Keeler-Wolf, K. Davis-Fadtke, R. Hull, A. Lyons. 2018. Natural Communities Commonly Associated with Groundwater (NCCAG) Dataset Viewer. The



- Nature Conservancy and California Department of Water Resources. https://gis.water.ca.gov/app/NCDatasetViewer/ [Accessed March 2021]
- Klausmeyer, K.R., T. Biswas, M.M. Rhode, F. Schuetzenmeister, N. Rindlaub, I. Housman, J.K. Howard. 2019. GDE Pulse: Taking the Pulse of Groundwater Dependent Ecosystems with Satellite Data. The Nature Conservancy, California. Available at: https://gde.codefornature.org/assets/GDE-Pulse-Methods-Report.pdf [Accessed October 2021].
- Loheide, S.P., Deitchman, R.S., Cooper, D.J., Wolf, E.C., Hammersmark, C.T. & Lundquist, J.D. 2009). A framework for understanding the hydroecology of impacted wet meadows in the Sierra Nevada and Cascade Ranges, California, USA. *Hydrogeology Journal, 17*, 229-246.
- Lord M.L., Jewett D.G., Miller J.R., Germanoski D. & Chambers J.C. 2011. Hydrologic Processes Influencing Meadow Ecosystems. USDA Forest Service General Technical Report RMRS-GTR- 258, 44-67.
- Lowry, C.S., Loheide, S.P., Moore, C.E., & Lundquist, J.D. 2011. Groundwater controls on vegetation composition and patterning in mountain meadows. *Water Resources Research.*, 47, 16.
- Lubetkin, KC, A L Westerling, LM Kueppers. 2017. Climate and landscape drive pace and pattern of conifer encroachment into subalpine meadows. Ecological Applications 27(6): 1876-1887.
- Markstrom, S.L., Regan, R.S., Hay, L.E., Viger, R.J., Webb, R.M.T., Payn, R.A., and LaFontaine, J.H., 2015, PRMS-IV, the precipitation-runoff modeling system, version 4: U.S. Geological Survey Techniques and Methods, book 6, chap. B7, 158 p., https://doi.org/10.3133/tm687
- McKelvey, K.S., Skinner, C.N., Chang, C., Erman, D.C., Husari, S.J., Parsons, D.J., van Wagtendonk, J.W., & Weatherspoon, C.P. (1996). *An overview of fire in the Sierra Nevada. Sierra Nevada Ecosystem Project: Final Report to Congress. Vol II.* Davis, CA: University of California, Centers for Water and Wildland Resources.
- Moyle, P.B., P.J. Randall, and R.M. Yoshiyama. 1996. Potential aquatic diversity management areas in the Sierra Nevada. Chapter 9 in Sierra Nevada Ecosystem Project: Final report to Congress, Volume II. University of California, Davis.
- NAS (National Audobon Society). 2008. Important Bird Areas Sierra Valley California. https://www.audubon.org/important-bird-areas/sierra-valley. Accessed June 2021.
- Natural Resources Conservation Service (NRCS), 2016. Sierra Valley Conservation Partnership Project. Awarded 2016.
 - https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/programs/farmbill/rcpp/?cid=nrcseprd12 95237



- Natural Resources Conservation Service (NRCS), United States Department of Agriculture. 2019. Soil Survey Geographic (SSURGO) Database. Available online at https://sdmdataaccess.sc.egov.usda.gov. Accessed [3/1/2020].
- Niswonger, R.G. and Prudic, D.E., 2005. Documentation of the Streamflow-Routing (SFR2) Package to include unsaturated flow beneath streams-A modification to SFR1 (No. 6-A13). US Geological Survey. https://pubs.usgs.gov/tm/2006/tm6A13/pdf/tm6a13.pdf
- OCM Partners. 2021. 2018 2019 USGS Lidar: Northern California Wildfire QL2, https://www.fisheries.noaa.gov/inport/item/58957.
- Poland, J.F. and Davis, G.H. 1969. Land Subsidence Due to Withdrawal of Fluids. Reviews in Engineering Geology, 2, 187-269. http://dx.doi.org/10.1130/REG2-p187
- PRISM Climate Group. 30-Year Precipitation Normals. Oregon State University, http://prism.oregonstate.edu, Accessed [3/1/2020].
- Prudic, D.E., Konikow, L.F. and Banta, E.R., 2004. A new streamflow-routing (SFR1) package to simulate stream-aquifer interaction with MODFLOW-2000. Available from: https://pubs.usgs.gov/of/2004/1042/ofr2004-1042.pdf
- Puls, R W. and Barcelona, M.J. 1996. Ground Water Issue: Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. U.S. Environmental Protection Agency, Washington, DC, EPA/540/S-95/504 (NTIS 97-118822).
- Reed, CC. 2020. Soil carbon dynamics in montane meadows of the Sierra Nevada and southern Cascade mountain ranges. 2020. (Ph.D. diss.). University of Nevada, Reno.
- Rice, E.W., Baird, R.B., Eaton, A.D., Clesceri, L.S. 2012. Standard Methods for the Examination of Water and Wastewater. 22nd Edition.
- Rodriguez, K., Swanson, S. and McMahon, A., 2017. Conceptual models for surface water and groundwater interactions at pond and plug restored meadows. Journal of Soil and Water Conservation, 72(4), pp.382-394.
- Rogers, V., K. Roby, and M. Kossow. 2018. Upper Feather River Basin fisheries assessment and restoration strategy.
- Rohde, M. M., S. Matsumoto, J. Howard, S. Liu, L. Riege, and E. J. Remson. 2018.

 Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act:
 Guidance for Preparing Groundwater Sustainability Plans. The Nature Conservancy, San Francisco. California.
- Rohde, M. M., B. Seapy, R. Rogers, X. Castañeda, editors. 2019. Critical Species LookBook: A compendium of California's threatened and endangered species for sustainable groundwater management. The Nature Conservancy, San Francisco, California.
- Saucedo, G. J., and Wagner, D.L. 1992. Geologic Map of the Chico Quadrangle, California, California Division of Mines and Geology.



- Sawyer, T.L. 1995. Quaternary faults and fold database of the United States [online]. Fort Collins, Colorado: Available from: https://doi.org/10.5066/F7S75FJM
- Schmidt, K. 1999. 1994 1998 Sierra Valley Groundwater Update.
- Schmidt, K. 2003. Technical Report on 1998-2003 Hydrogeologic Evaluation for Sierra Valley.
- Schmidt, K. 2005. Technical Report on 2003-2005 Hydrogeologic Evaluation for Sierra Valley.
- Schmidt, K. 2012. Technical Report on 2005-2011 Hydrogeologic Evaluation for Sierra Valley.
- Schmidt, K. 2015. Technical Report on 2012-14 Hydrogeologic Evaluation for Sierra Valley.
- Schmidt, K. 2017. Technical Report on 2015-16 Hydrogeologic Evaluation for Sierra Valley.
- SVGMD, 2019. Personal communications between Bachand et al. (2020) and Kristi Jamason. February 2019.
- Smith R., Knight, R., Fendorf, S. 2018. Overpumping leads to California groundwater arsenic threat. Nature Communications. 9, Article number: 2089 (2018). June 5, 2018.
- Sophocleous, M., 1983. Groundwater observation network design for the Kansas groundwater management districts, USA: Journal of Hydrology, vol.61, pp 371-389.
- State Water Resources Control Board. 2021. California Code of Regulations, Title 23. Available from: https://www.waterboards.ca.gov/laws_regulations/docs/wrregs.pdf
- Tague, C. L., Moritz, M. A., and Hanan, E. (2018). The changing water cycle: the eco-hydrologic impacts of forest density reduction in Mediterranean (seasonally dry) regions. *WIRES Water* 6: e1350. doi: 10.1002/wat2.1350
- The Nature Conservancy. 2021. Freshwater species list for Sierra Valley Groundwater Basin. https://groundwaterresourcehub.org/sgma-tools/environmental-surface-water-beneficiaries. [Accessed January 2021]
- Tolley, D., Foglia, L. and Harter, T., 2019. Sensitivity Analysis and Calibration of an Integrated Hydrologic Model in an Irrigated Agricultural Basin With a Groundwater-Dependent Ecosystem. Water Resources Research, 55(9), pp.7876-7901. https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2018WR024209
- Towill. 2020. InSAR Data Accuracy for California Groundwater Basins CGPS Data Comparative Analysis January 2015 to October 2020. Available at:

 https://data.cnra.ca.gov/dataset/5e2d49e1-9ed0-425e-9f3e-2cda4a213c26/resource/a1949b59-2435-4e5d-bb29-7a8d432454f5/download/insar-data-accuracy-report-towill.pdf
- TRE Altamira. 2021. InSAR Land Surveying and Mapping Services to DWR supporting SGMA 2020 update. https://data.cnra.ca.gov/dataset/5e2d49e1-9ed0-425e-9f3e-2cda4a213c26/resource/2535a9b9-ed25-4b19-9734-4b1409e3fdce/download/insar-data-report-tre-altamira.pdf



- UCCE (University of California Cooperative Extension). 2021. Sierra Valley Ground Water Cross-Sectional Analysis – September 14, 2021. https://ucanr.edu/sites/Rangelands/files/358503.pdf
- United States Army Corps of Engineers (USACE). 2012. Survey Markers and Monumentation. EM 1110-1-1002.
 - https://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM_1110 -1-1002.pdf?ver=tb31W4-X5y3Xh-ToIBELEQ%3d%3d
- USDA (U.S. Department of Agriculture). 2014. Classification and Assessment with Landsat of Visible Ecological Groupings (CalVeg). Region 5: Central Coast: Imagery date: 1997–2013. https://data.fs.usda.gov/geodata/edw/datasets.php?xmlKeyword=calveg_[Accessed March 2021].
- USDA (United States Department of Agriculture) Forest Service. 2021. Plumas National Forest fish distribution data. Shapefile provided by C. Kane, Wildlife, Fish, and Rare Plants Program Manager, Plumas National Forest.
- USDA US Forest Service Region 5 Ecology Program. 2021. Tahoe National Forest Climate Change Trend Summary. Unpublished Report.
- USFS (U.S. Forest Service). 2011. FSM 2600 Wildlife, Fish, and Sensitive Plant Habitat Management, Chapter 2670 Threatened, Endangered, and Sensitive Plants and Animals. Forest Service Manual Rocky Mountain Region (Region 2). Denver, Colorado.
- USFWS (U.S. Fish and Wildlife Service). 2014. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for Ivesia webberi; Final Rule. Federal Register 79: 106, 32126 32155.
- USFWS (U.S. Fish and Wildlife Service). 2018. National Wetlands Inventory Version 2.0 (NWI). Imagery date: 1984. https://www.fws.gov/wetlands/ [Accessed March 2021].
- USFWS (U.S. Fish and Wildlife Service). 2021. Information for Planning and Consultation (IPaC) portal. https://ecos.fws.gov/ipac/ [Accessed March 2021].
- United States Geological Survey (USGS). 2000. Use of Passive Diffusion Samplers for Monitoring Volatile Organic Compounds in Ground Water. https://pubs.usgs.gov/fs/fs-088-00.pdf
- United States Geological Survey (USGS). 2015. National Field Manual for the Collection of Water-Quality Data (NFM). https://www.usgs.gov/mission-areas/water-resources/science/national-field-manual-collection-water-quality-data-nfm#overview
- Vestra. 2005. Sierra Valley Watershed Assessment. Prepared for Sierra Valley Resource Conservation District. April. Available from:

 http://featherriver.org/ db/files/212 FINAL SIERRAVALLEY WATERHSED ASSESSMEN T.pdf
- Wilson, J.L. and H. Guan. 2004. Mountain-Block Hydrology and Mountain-Front Recharge. https://agupubs.onlinelibrary.wiley.com/doi/pdfdirect/10.1029/009WSA08



Woltemade, C.J. (2000). Ability of restored wetlands to reduce nitrogen and phosphorus concentrations in agricultural drainage water. *Journal of Soil and Water Conservation*, *55*, 303-3