

KEVIN M. HEINTZ
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PROFESSIONAL PREPARATION

University of Nevada, Las Vegas	Las Vegas, NV	Hydrogeology	M.S.
Northern Arizona University	Flagstaff, AZ	Hydrogeology	B.S.

PROFESSIONAL EXPERIENCE

2016 – Present *Assistant Research Scientist Hydrology*, (2020-Present); *Staff Research Scientist Hydrology*, (2016-2019); Desert Research Institute (DRI), Division of Hydrologic Sciences, Las Vegas, NV

2013 – 2016 *Hydrologic Technician*, U.S. Department of Agriculture- Agricultural Research Service, Southwest Watershed Research Center, Tucson, AZ

RELEVANT WORK SCOPE

Hydrologic and Engineering Field Projects: Responsibilities include field project lead or field support on federally managed lands - typically in remote settings - as well as data analysis and documentation.

- Field investigations requiring data acquisition and analysis for surface water, groundwater, and meteorological applications. I have conducted hydrologic field investigations including spring/seep characterizations, surface water flow and chemistry monitoring, as well as channel morphology studies.
- Research interests have included rainfall-runoff modeling for hydraulic engineering analysis, culvert/basin assessment, and floodplain mapping.
- Technical field skills involve installation, operation, and maintenance of environmental data acquisition instrumentation including surveying, datalogger programming, sensor calibration, telecommunication integration, fabrication, and equipment diagnostics/repair.
- Formally communicating results including data post-processing, data quality control, integrating contributions, compiling findings, publishing presentation quality maps, organizing internal reviews, and report finalization.
- Proficiency with ArcGIS, Loggernet, AQTESOLV, CAD/CAM software as well as programming skills in CRBasic and MATLAB.

SELECT PUBLICATIONS

Technical Reports:

- Heintz, K. M.** 2022. Hydrogeologic Heterogeneity Identification: Using Inverse Modeling of Synthetic Borehole Temperatures to Predict Groundwater Flux [M.S. thesis], 53, University of Nevada, Las Vegas
- Heintz, K. M.**, Miller, J. J., 2020: Flood Assessment for the Northwest Corner of Edwards Air Force Base, California, Paginated by section, DRI Publication #41278.

- Hershey, R. L., Parashar, R., Cooper, C. A., **Heintz, K. M.**, Pham, H. V., Lyles, B. F., 2020: Evaluation of Timber Mountain Recharge and Groundwater Flow in Relation to Pahute Mesa-Oasis Valley Flow System, Desert Research Institute, DOE/NV/0003590-56, <https://doi.org/10.2172/1727435>.
- Miller, J. J., Etyemezian, V. R., Adams, K. D., Berli, M., Kruger, B. R., Stillman, S., Cablk, M. E., **Heintz, K. M.**, Nikolich, G., Moser, D. P., 2020: Lakebed Health and Feasibility of Use Study, including Inundation Frequency Analysis of Rogers and Rosamond Dry Lakes, Edwards Air Force Base, California, Paginated by section, DRI Publication #41279.
- Miller, J. J., **Heintz, K. M.**, 2020: Mojave Creek Flood Assessment Update, Edwards Air Force Base, California, DRI Publication #41277.
- Nikolich, G., **Heintz, K. M.**, Mizell, S. A., McCurdy, G. D., Chapman, A., Miller, J. J., Stillman, S., 2020: NNSS Soils Monitoring: Plutonium Valley (CAU 366) FY2019, paginated by section, DRI 45293; DOE/NV/0003590-52.
- Mizell, S. A., McCurdy, G. D., **Heintz, K. M.**, Miller, J. J., 2019: Monitoring Potential Transport of Radioactive Contaminants in Shallow Ephemeral Channels: FY2018, DRI 45287; DOE/NV/0003590-32.
- Miller, J. J., **Heintz, K. M.**, Bacon, S. N., 2018: Flood Assessment for the Area 6 Device Assembly Facility, Nevada National Security Site, Nevada, DOE/NV/0003590-15.
- Heintz, K. M.**, Meyer, W. J., Miller, J. J., 2017: Comparison of a Historic Storm with Natural Resources Conservation Service Curve Number Simulations, DRI 41268.
- Pohlmann, K. F., **Heintz, K. M.**, 2017: Investigation of the Sources of Selected Springs in the Lake Mead National Recreation Area using Stable Isotopes, DRI 41271.

Conference Presentations, Proceedings:

- Boisramé, G., **Heintz, K. M.**, 2020: Characterizing the Hydrology of the Amargosa River Headwaters, DHS Colloquium: DRI Teams Meeting, December 4, 2020. Presented.
- Hershey, R. L., Parashar, R., Pham, H. V., Lyles, B. F., Cooper, C. A., **Heintz, K. M.**, 2019: Evaluation of Timber Mountain Recharge and Groundwater Flow in Relation to Pahute Mesa Groundwater Flow, Department of Energy, Underground Test Area Activity, Technical Information Exchange, August 29, 2019.
- Pohlmann, K. F., **Heintz, K. M.**, 2018: Springs and their sources at the Lake Mead National Recreation Area, Lower Colorado River Science Symposium: Las Vegas, Nevada, March 8, 2018.
- Pohlmann, K. F., **Heintz, K. M.**, 2018: Responses of Low-Elevation Springs to Climate Conditions: Examples from Southern Nevada, Devils Hole Workshop: Beatty, Nevada, May 2, 2018-May 4, 2018.
- Heintz, K. M.**, Nichols, M. H., 2016: Sediment transport and redistribution study of a small semiarid watershed near Tombstone, Arizona, Vol. 48, No.7, Geological Society of America - Abstracts with Programs: Denver, CO, September 25, 2016. Presented.