

Listed are Publications and Presentations by Sid Davis

2018 – Davis, S. W. *Walnut Tree Soil Interpretation. Criteria for cultivation of walnuts in CA and AZ with SSURGO raster maps and database.* Davis2 Consulting Earth Scientists, Inc.

2018 – Davis, S. W. and Denny Churchill. *Ledbetter Land Capability Challenge, Lake Tahoe CA.* Report and Map presented to the Tahoe Regional Planning Agency delimiting Land Capability Districts, Stream Environment Zones, and Backshore boundary for impervious land coverage assessment. Douglas County, NV.

2018 – Davis, S. W. and Steven Campbell, *Hop Soils Interpretation, Criteria for growth matrix, and SSURGO raster map for CA.* NRCS, State Office, CA.

2017- Davis, S. W., Phil Smith and Kerry Arroues. *Collegiate Soil Judging at the W W Ranch.* Cal Poly, Fresno State, Chico State competition. Assisted with score sheets and soil pit interpretations. Woodlake, CA.

2017- Davis, S.W. and Marie L.E. Davis. *Rise of Agriculture in the Southwest USA. Post-Glacial Fill and Subsequent Incision in Colorado Plateau Rivers and Tributaries.* Southwest Seminars, Hotel Santa Fe, Santa Fe, NM.

2017- Davis, S. W., *Field Trip Guide Book, Soil Health Practices at the NRCS Plant Materials Center and Farming Below Sea Level for Sand Hill Crane Habitat.* Professional Soil Scientists Association of California. In Cooperation with NRCS Plant Materials Center, Lockeford, CA and the Nature Conservancy. Staten Island, Sacramento County, CA.

2017- Davis, S. W. and Steven Campbell. *Assessment of Vertisols after 2014 “Calculation” that went from Hydrologic Group D to C.* Digital maps and database documenting changes. NRCS, State Office, CA.

2017- Davis, S. W. *California High Speed Rail Prime Farmland Loss Assessment,* Federal Farmland Protection Act for Kern, Santa Clara and Merced Counties. USDA, State Office, NRCS, CA.

2017- Davis, S. W. *Alturas wetlands assessment of Farmed Wetlands-Hayes Project site.* Food Security Act, whistle blower complaint. NRCS, State Office, CA.

2016- Davis, S. W. *California High Speed Rail Prime Farmland Loss Assessment,* Federal Farmland Protection Act for Merced and Madera Counties. USDA, State Office, NRCS, CA.

2015- Davis, S. W. *Field Tour of Mendocino, Sonoma and Napa Counties*. Coordinated field trip stops: CIG Biochar project in Sonoma County; Napa River Restoration Project in the City of Napa. Soil Science Society of America, S-12, Consulting Soil Scientists.

2015- Davis, S. W., D. Chessman, K. Oster, W. Loftis, M. Koprel-Smith. *Soil Health Field Assessment Worksheet*. Developed for Conservationists and Planners to evaluate soil health in the planning process. Davis, CA.

2015 – Davis, S.W. and S. Campbell. *Weighted Value Tables for Revised Storie Index Rating To Evaluate FPPA in CA*. Davis, CA.

2015 – Davis, S.W., R.A. Almaraz. *Distribution of Durixeralfs / Paleixeralfs / Soils with Aquic Suborders in WHEP Counties, N. CA*. Internal interpretation for Waterbird program. NRCS, CA.

2014 – Davis, S.W., W. Reed, R. Almaraz, and S. Campbell. *Highly Erodible Lands (HEL) Map of CA*. Spatial representation of HEL lands in CA. Davis, CA. Internal NRCS document.

2014- Campbell, S., S. Splean, S. W. Davis, S. Smith, and J. Wood. *A Digital Surface Soil Erosion Hazard Rating for California Forest Soil Management using SSURGO and Digital Spatial Data*. Soil Science Society of America. Poster. Long Beach, CA.

2014 – Davis, S. W., S. Campbell. *Drought Hazard Rating for California*. Developed to assist with ranking EQIP Program funding. Davis, CA. Internal NRCS document.

2013 – Davis, S. W., S. Campbell. *N-Leaching Hazard Rating for CA*. Interpretation developed to assist with practice 590. Davis, CA. Internal Document.

2012 - Smith, D. W, S. W. Davis, A.T. O'Geen. *West Regional Cooperative Soil Survey Conference*. Facilities planning, development of conference agenda, poster sessions, field trip logistics. Davis, CA.

2012 – Davis, S. W., R. A. Almaraz. *Map of Distribution of Durixeralfs / Paleixeralfs in CA*. Poster Session, West Regional Cooperative Soil Survey Conference. Davis, CA.

2012 – Southard, R., S.W. Davis, S. Campbell. *Dust Hazard Rating for Mojave Desert*. Poster Session, West Regional Cooperative Soil Survey Conference. Davis, CA

2011- Davis, S.W. *TMDLs – Sources*. California Department of Water Resources Presentation, California Water Plan. PowerPoint.

2011- Oster, Ken, S.W. Davis, S. Campbell, Soils for Conservationists. NRCS Area 2 and 3, Modesto Service Center. Three-day class room / field training sessions.

2004- Davis, S.W. and M.E. Davis. *Holocene Aggradation of the Colorado in Grand Canyon*. Geological Society of America. Annual Meeting, T-97. Geological History and Processes of the Colorado River (GSA Quaternary Geology and Geomorphology Division)

2002 - J. H. Rogers, G. M. Kennedy, S.W. Davis. *Comparison Of K Factor Determinations Using Erickson's Textural Triangle and Wischmeier's Soil Erodibility Nomographs In The Lake Tahoe Basin, California-Nevada*. Soil Horizons, Soil and Water Conservation Society, Vol. 43, No. 2, Summer.

2001- Davis, S.W., M.E. Davis, I. Lucchitta, T.C. Hanks, R.C. Finkel, M. Caffee. *Erosional History of the Colorado River Through Glen and Grand Canyons*. In Young, R.A. and Spamer, E. E., eds. The Colorado River Origin and Evolution: Proceedings of a Symposium Held at Grand Canyon National Monument, Grand Canyon Association Monograph #12, Grand Canyon Association, Grand Canyon National Park, Arizona, 280 p.

2001 – Hanks. T.C., I. Lucchitta, S.W. and M.E. Davis, R.C. Finkel, S.A. Lefton, C.D. Garvin. *The Colorado River and the Age of Glen Canyon*. In Young, R.A. and Spamer, E. E., eds. The Colorado River Origin and Evolution: Proceedings of a Symposium Held at Grand Canyon National Monument, Grand Canyon Association Monograph #12, Grand Canyon Association, Grand Canyon National Park, Arizona, 280 p.

2000- Davis, S.W. and M.E., I. Lucchitta, Finkel, R., Caffee, M. *Early Agriculture in the Eastern Grand Canyon of Arizona, U.S.A*. Geoarchaeology: An International Journal, Vol. 15, No. 8, December.

2000 – Lucchitta, I., G. H. Curtis, M.E and S.W. Davis, and B. Turrin. *Cyclic Aggradation and Downcutting, Fluvial Response to Volcanic Activity and Calibration of Soil-Carbonate Stages in the Western Grand Canyon, Arizona*. Quaternary Research 53, 23-33.

2000 – Davis, S.W., M.E. Davis, I. Lucchitta and R.C. Finkel. *Cenozoic Fluvial Geomorphology Of Grand Canyon, Arizona*. The Colorado River Origin and Evolution. Abstracts , unreviewed, coordinated by R. A. Young, Department of Geological Sciences, State University of New York at Geneseo.

1996 - I. Lucchitta, T. H. Hanks, M. Caffee, R.L. Finkel, M.. E. and S. W. Davis, C.M. Dehler - *Latest Pleistocene Environment As Deduced From Alcove Deposits In The Rainbow Plateau, Utah*. American Quaternary Association, Flagstaff, AZ. Poster presentation.

1996 - Lucchitta, I., S.W. and M.E. Davis, R.B. Finkel, J. Hasbargen. *Holocene Aggradation and Paleoagriculture in the Southwest Colorado Plateau*. American Quaternary Association, Flagstaff, AZ. Poster presentation.

1996 - Smith, S.J., I. Lucchitta, S. W. Davis, T. H. Hanks, R. L. Finkel. *Late Pleistocene and Early Holocene Pollen Record From Oak Alcove, Rainbow Plateau, Utah*. American Quaternary Association, Flagstaff, AZ. Poster presentation.

1995 – Lucchitta, I., C. M. Dehler, M. E. Davis, K. J. Burke, and P. O. Basdekas. *Quaternary Geologic Map of the Palisades Creek-Comanche Area, Eastern Grand Canyon, Arizona*. U.S. Geological Survey, Flagstaff, AZ. Open-file Report 95-832.

1995 - Davis, S.W. and M.E., I. Lucchitta, Caffee, M., Finkel, R.L. *Soils Map of Quaternary Flood Plain of Colorado River, From Palisades to Unkar, Grand Canyon National Park*. Detailed soil map of Quaternary flood plain of the Colorado River from Palisades to Unkar, Grand Canyon National Park, as part of United States Bureau of Reclamation, Glen Canyon Environmental Studies Environmental Impact Statement on Operation of Glen Canyon Dam.

1995 - Davis, S.W. and M.E., Caffee, M., Finkel, R.L., Hanks, T.C., Lucchitta, I. *Soil Development Correlating With Cosmogenic Radionuclide Dating Techniques on Quaternary Alluvial Surface, Rainbow Plateau, Utah*. A part of the Gilbert Fellowship Quaternary (?) Deposits On The Rainbow Plateau, T. Hanks, I. Lucchitta, Co-investigators, U.S. Geological Survey, Menlo Park, CA.

1995 - Lucchitta, Ivo, Garniss Curtis, Marie and Sidney Davis, Brent Turrin, *Quaternary Geology Of The Granite Park Area, Grand Canyon: Aggradation-downcutting Cycles, Calibration Of Soil Stages, And Response Of Fluvial System To Volcanic Activity*. Glen Canyon Environmental Studies, Quaternary Geology-Geomorphology Program, (U.S.G.S. Open File Report).

1994 - Davis, S. and M., Caffee, M., Finkel, R. Curtis, G. Lucchitta, I, Hanks, T., Turrin, B. *Relations Between Soils and Geomorphic Age in the Grand Canyon, Arizona and Rainbow Plateau, Utah*, Geological Society of America, Seattle, WA, October, 1994.

1994 - Sugnet, P., Davis, S., Rogers, J., Smith, D., *Geographic/Edaphic Distribution of Vernal Pool Habitat in the Central Valley of California*. Society of Wetland Scientists, Portland, OR.

1994 - Davis, S. W.; Sugnet, P.W., Rogers, J. H.; Smith, D. W. *Historic Distribution of Vernal Pool Complex Soils in the Great Central Valley of California*, Professional Soil Scientists Association of California, Napa, CA.

1994 -Davis, S. and M., Lucchitta, I.; Caffee, M., Finkel, R.L. *Relative Soil Development and Age Dating of Holocene-Pleistocene Alluvial Surfaces In The Grand Canyon*, Arizona, Professional Soil Scientists Association of California, Napa, CA.

1994 - Lucchitta, I, T.C. Hanks, .S.W. and M.E. Davis, R. Finkel. *Downcutting Rate of the Colorado and San Juan Rivers on the Rainbow Plateau, Utah*, Geological Society of America, Durango, CO, May 5, 1994.

1993 – Davis, S.W. *Hydric Soil Determinations and Regulatory Procedures, A Case Study*. Presentation to the Annual Conference, National Society of Consulting Soil Scientists, Portland, OR.

1992 – Davis, M.E., California Department of Water Resources and Sierra Hydrotech Engineering Consultants. Georgetown Divide Water Management Study, California Department of Water Resources and Georgetown Divide Public Utility District. *In-depth analysis of historic, present, and projected water use of 275 square miles of the Sierra Nevada Foothills*. Directed by California Assembly Bill 2887, 1992. 68 pp. Six years in preparation.

1992- Davis, S.W., P.W. Sugnet. *Wetland Mitigation and Monitoring Plan, Elliott Ranch*. VIII International Soil Management Workshop, Utilization of Soil Survey Information for Sustainable Land Use, Guide Book for California, July 11 - 24, 1992. pp. 160 - 181.

1991- Davis, S.W., M. E. Davis, Ivo Lucchitta. *Quaternary Geology, Geomorphology, and Erosional Processes, Eastern Grand Canyon, Arizona*. U.S. Geological Survey. Soil and geologic interpretation of Grand Canyon National Park, as part of United States Bureau of Reclamation, Glen Canyon Environmental Studies Environmental Impact Statement on Operation of Glen Canyon Dam, Arizona, U.S.G.S.

1990 - Davis, S.W. and Questa Engineering Corporation, *Onsite Wastewater Treatment and Disposal, Design and Field Training Course*. Napa, Santa Cruz, Auburn and Placerville, CA. Two day training for engineers, sanitarians, soil scientist and geologists.

1989 – Davis, S.W. and J. H. Rogers. *Soil Investigation of the Lake Tahoe Airport*. Tahoe Regional Planning Agency. Soil mapping, classification, land capability district and stream environment zone delineation. 18 pp.

1989- Davis. S.W. and Rogers, J.H. *Soil Investigation of Zephyr Cove, Lake Tahoe*. Nevada. U. S. Forest Service, Tahoe National Forest. Soil mapping and classification, land capability districts and stream zone environment zone delineation. 9 pp.

1989 - Davis, S.W., Kennedy, G.M. and Rogers, J.H. *Soil Investigation for Camp Richardson, Lake Tahoe, California*. U.S. Forest Service, Tahoe National Forest. Detailed soil mapping, classification, land capability district and stream environment zone delineation. 17 pp.

1989 - Davis, S.W., Begg, E.L., Huntington, G.L., Rogers, J.H., Kennedy, G.M., Welch, Hoppes, R. and Kelley, D.B. *Field Identification of Hydric Soils*. Professional Soil Scientists Association of California, U.S. Army Corps of Engineers, U.S.D.A. Soil Conservation Service, University of California, Davis. Field guide, trip log and day tour of Sacramento - San Joaquin Delta area examining and identifying Hydric soils. 61 pp.

- 1989 – Davis, S.W. - *Soils Training Seminar for Onsite Sewage Waste Disposal*. Placer and Nevada County, CA, Environmental Health Departments. Lecture / laboratory procedures; field trip for site evaluations, 3 - 1/2 day sessions.
- 1988 – Davis, M.E. with other members of the American River Committee* *Instream Flow Requirements of the American River. A technical analysis of the present uses of the American River, and projection of effects of a proposed federal dam at Auburn, California*. For presentation to the Governor's investigative committee. 119 pp.
* A blue ribbon statewide panel assembled by Supervisor Sandra Smoley, Sacramento County, California.
- 1988 – Davis, M.E. and R. N. Prince. *On-site Systems Management*. In Proceedings, February 1988, National Symposium on On-site Wastewater Management and Groundwater Protection. National Environmental Health Association. 11 pp.
- 1988 – Davis, S.W. *Soil Suitability for Onsite Sewage Waste Disposal, Presentation and Seminar*. California Environmental Health Association, Redwood Chapter, Santa Rosa, CA. Two day presentation: lecture / laboratory techniques and field interpretations.
- 1987 - Davis, S.W., G. M.. Kennedy, L.E. Welch and C.M. Skau. *Soil and Land Capability Map of Tahoe City and Lake Forest, California*. Tahoe Regional Planning Agency.
- 1987 - Davis, S.W. and Questa Engineering Corporation. *Onsite Sewage Waste Treatment and Disposal Seminar*. California State Regional Water Quality Control Board, Central Valley Region. Two day seminar evaluating site suitability and experimental system design (mounds, sand filters, pressure dosing).
- 1986 – Davis, M.E. and R. N. Prince. *Evolution of an On-Site Wastewater Management Program*. American Society of Agricultural Engineers. In Proceedings, 1986. Summer Meeting. K. Mancl, Ed. Paper No. 86-2137, 7 pp.
- 1985 – Davis. M.E. and R. N. Prince. *Interdisciplinary Analysis of Site Suitability in an On-Site Waste Management District, in On-Site Wastewater Treatment*. American Society of Agricultural Engineers, Publication No. 07-85, pp.230 - 237.
- 1985 - Davis, S.W., M. E. Davis and R. N. Prince. *Soil Suitability for Onsite Waste Disposal*. Professional Soil Scientists Association of California. A field guide pertaining to soils of the Sierra Nevada Foothills. 60 pp.
- 1984 – Davis, M.E. *Map of Geology, Soils, and Waste Disposal Management Units, Auburn Lake Trails, California*. Georgetown Divide Public Utility District. Scale 1:4800 map, reduced from original 1:1200 scale, 3000 acres near Auburn, California; mapped at a depth of five feet using 4500+ excavations. Six years in preparation.
- 1984 – Davis, M.E. and R. N. Prince. *Wastewater Disposal Capabilities and Appropriate Technology in Major Lithologic Units of the Foothill Fault System and Melange Terrane, Auburn, California*. Geological Society of America Abstract 16:483.

1983 – Davis, M.E. with Geil Engineering and Transamerica Development Company. *Technical Feasibility of Assimilating Waste-Incapable Lots into the Carrying Capacity of Available Land, Auburn Lake Trails, California.* Georgetown Divide Public Utility District. 48 pp.

1981 – Davis, M.E. and R. N. Prince. *Soil Evaluation: Imperative Tool in Onsite Waste Management.* American Society of Agricultural Engineers, Proceedings of 1980 Summer Meeting.

1980 – Davis, M.E. and R. N. Prince. *Soil Suitability for On-Site Waste Disposal, Auburn Lake Trails, Cool, California.* Georgetown Divide Public Utility District. Site-specific soil and geologic analysis of 1500 proposed rural homesites. 168 pp.,

1979 - Davis, S.W., G.M. Kennedy, G. Shipman, and E. P. Small. *Soil Survey of A Portion of Plumas National Forest, California.* Atteberry and Associates, private contract with U.S. Forest Service. Order III Soil Resource Inventory, 200,000 acres, Lake Almanor to Quincy, CA.

1975 – Davis, M.E. and A. Andresen. *Geologic Map of Hardangarviddar and Vicinity.* Norwegian Geological Survey, Open File Report.