

## MICHELLE LEINFELDER-MILES

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### EDUCATION

**Ph.D.**, 2010, Horticulture, Cornell University, Ithaca, NY  
**M.S.**, 2005, Horticulture, Cornell University, Ithaca, NY  
**B.S.**, 2001, Crop Science and Management, University of California, Davis, Davis, CA

### EXPERIENCE

**Associate Advisor, Delta Crops Resource Management** (July 2014 – Current)  
 University of California Cooperative Extension; Stockton, CA  
**Assistant Advisor, Delta Crops Resource Management** (Jan. 2012 – July 2014)  
 University of California Cooperative Extension; Stockton, CA

### SELECT PUBLICATIONS

Aegerter, B. and **M. Leinfelder-Miles**, 2016. Salinity management in field crops and vegetables. CAPCA Adviser. California Association of Pest Control Advisers. Sacramento, CA. XIX(1): 30-32.

Mitchell, J. R. H., G. Sposito, A. Shrestha, D. Munk, G. Miyao, R. Southard, H. Ferris, W. Horwath, E. Kueneman, J. Fisher, M. Bottens, P. Hogan, R. Roy, J. Komar, D. Beck, D. Reicosky, **M. Leinfelder-Miles**, B. Aegerter, J. Six, T. Barcellos, D. Giacomazzi, A. Sano, J. Sanchez, M. Crowell, J. Diener, D. Cardova, T. Cordova, and J. Rossiter, 2016. Conservation agriculture: Systems thinking for sustainable farming. *California Agriculture* 70(2): 53-56.

Aegerter, B. and **M. Leinfelder-Miles**, 2015. Evaluation of irrigation practices on water use, soil salinity, and tomato productivity in the Delta. 2015 Annual Project Report - California Tomato Research Institute.

**Leinfelder-Miles, M.**, 2015. Leaching fractions achieved in south Delta soils under alfalfa culture. 12th Biennial State of the San Francisco Estuary Conference. Sept. 17-18, 2015. Oakland, CA. (abstract)

**Leinfelder-Miles, M.**, 2014. Seed treatments for wireworm control in field corn. California Alfalfa and Grains Symposium Proceedings. December 10-12, 2014. Long Beach, CA.

**Leinfelder-Miles, M.**, 2014. Evaluation of surface water quality on soil leaching fraction and alfalfa yield in the Sacramento-San Joaquin River Delta. Third International Salinity Forum. June 16-18, 2014. Riverside, CA. (abstract)

**Leinfelder, M.M.**, Merwin, I.A., and Brown, M.G., 2012. Soil health indicators, apple tree growth, and carbon sequestration differ among orchard groundcover management systems. *Acta Horticulturae* 938:333-340.

**Leinfelder, M.M.** and I.A. Merwin. 2006. Rootstock selection, pre-plant soil treatments, and tree planting positions as factors in managing apple replant disease. *HortScience*. 41(2): 394-401.

- American Society for Horticultural Science Outstanding Extension Publication

## PROJECTS

### P.I. Projects

Leaching Fractions Achieved in South Delta Soils under Alfalfa Culture. 2013-2016. California Institute for Water Resources (\$24,250) and South Delta Water Agency (\$15,000). Investigates soil salinity conditions of the south Delta under the perennial cropping of alfalfa, as influenced by surface water quality, rainfall, and groundwater depth and quality.

Field Corn Variety Trial. 2013-2016. Seed companies (\$7500). Examines commercial seed varieties for productivity and disease susceptibility.

Sorghum Seeding Rates for Optimum Productivity. 2016. Investigates optimum seeding rates for grain sorghum in the Delta environment.

### Other Collaborative Projects

Rice Variety Trial. 2014-2016. Rice Research Board. P.I.: B. Linquist. Examines commercial and preliminary rice varieties of rice for productivity and cold tolerance.

Making California Agriculture More Productive and Sustainable through Improved Soil Health. 2016. USDA-NRCS Conservation Innovation Grant. P.I. J. Mitchell. Surveys soils from throughout California under varying conservation practices for improved soil properties and crop yields.

Crop Consumptive Use Estimation in the Sacramento-San Joaquin Delta. 2016. Office of the Delta Watermaster. P.I. J. Medellin-Azuara. Measures and models crop water use of three widely planted Delta crops – pasture, alfalfa, and corn.

Development of a Tool to Estimate Site-Specific Soil N Mineralization for Improved Fertilizer N Use Efficiency. 2016. CDFA-FREP. P.I. D. Geisseler. Measures N mineralization to be used in calibrating models for improved efficiency of fertilizer applications.

### Recent Past Projects (P.I.)

Seed Treatments for Wireworm Control in Field Corn. 2013-2015. DuPont (\$35,000). Evaluated chemical seed treatment alternatives to neonicotinoid seed treatments. Neonicotinoids have been linked with bee population declines. Finding alternative chemistries to neonicotinoids gives corn growers more options for combatting wireworm pests, which can completely devastate corn crops in the Delta.

Evaluation of Irrigation Practices on Water Use, Soil Salinity, and Tomato Productivity in the Delta. 2013-2015. California Tomato Research Institute (\$25,800). Co-PI: B. Aegerter. Investigated effects of drip irrigation on soil salinity and tomato productivity in the Delta, where conversion to drip irrigation is not as widespread as in other regions of California, due to organic soils, shallow groundwater, and salinity conditions.