



Northern California Ranch Update



Workshop Announcement

Water Quality, Range, Pasture, and Livestock Management Workshop

January 14, 2009, 9:00am

UC Sierra Foothill Research and Extension Center
Browns Valley, CA

The purpose of this program is to share recent applied research results from northern California on the:

- 1) quality of water in pasture and rangeland runoff, streams and rivers, and the Sacramento/San Joaquin Delta,
- 2) potential risks range and pasture management pose to water quality and management options to reduce these risks; and
- 3) use of vegetative filter strips and wetlands to clean-up agricultural runoff. Provide practical management options to protect water quality, and comply with water quality regulatory programs.

Anyone interested in water quality, range, and pasture management would benefit from this program. This includes livestock/range/pasture managers, agricultural water quality coalitions, agricultural and environmental advocacy organizations, irrigation districts, resource conservation districts, municipal water districts, water quality regulatory agencies, natural resources management and conservation organizations, and environmental consulting firms among others.



Please RSVP at 530-639-8800 or cafeddersen@ucdavis.edu
to allow for enough lunches for all attendees.
For directions go to: <http://groups.ucanr.org/sierrafoothill/>

Agenda

9:00–9:30am Registration – Coffee

9:30am - Water quality concerns associated with livestock, range and irrigated pasture management.

Dr. Rob Atwill

Professor of Environmental Animal Health and Medical Ecology, School of Veterinary Medicine, UC Davis

Ambient conditions and monitoring strategies for waterborne pathogens and indicators in California waterways. Material to be covered will include animal-derived microbial pollutants of concern for drinking water; which pathogens cause waterborne outbreaks in the U.S.; background levels of bacterial indicators and various pathogens in California surface water supplies ranging from high Sierra meadows down to the Delta; validity of using bacterial indicators to signal the presence of pathogens and why indicators often do not work.

Dr. Randy Dahlgren

Professor of Biogeochemistry, Department of Land Air and Water Resources, UC Davis

Ambient conditions and monitoring strategies for nutrients in California waterways. Material will cover nutrient pollutants of concern (e.g., carcinogenic by-product formation from DOC/DON, nitrate and ammonia toxicity). It will incorporate information from the small sub-watershed to large basin scale. The temporal variation in these pollutants – inter-annual, seasonal, and storm event will be discussed.

10:30am Break

10:45am Livestock, range, and pasture management practices to decrease risks to water quality.

Dr. Rob Atwill

Professor of Environmental Animal Health and Medical Ecology, School of Veterinary Medicine, UC Davis

Herd health management practices for improving microbial water quality. Material to be covered will include animal-related management strategies to reduce animal infection and pasture runoff with waterborne pathogens (e.g., vaccination, calving season, sources of infection).

Dr. Ken Tate

Rangeland Watershed Specialist, Department of Plant Sciences, UC Davis

Grazing and irrigation management practices for improving pasture and rangeland runoff water quality. Material to be covered will include grazing and irrigation management risk factors on rangeland and irrigated pastures, and management options to mitigate these risk factors.

Dr. Toby O'Geen

Soil Resource Specialist, Department of Land Air and Water Resources, UC Davis

Water quality contaminant transport from soils to surface water in annual rangelands. Discuss the critical soil properties, soil landscape relationships, hydrologic flow paths, and temporal dynamics in soil moisture determining pollutant transport.

12:30 Lunch

1:30 pm Tour of research plots at SFREC immediately following lunch - Rain or Shine, bring rain gear and mud boots

This newsletter contains articles written by University of California Farm Advisors, Specialists, and Program Representatives. Our aim is to provide the ranching community in the Sacramento Valley with science based information. We welcome your feedback and encourage you to call or email us.

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