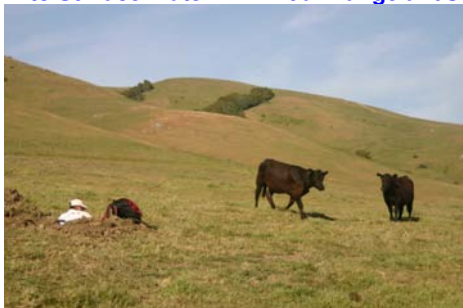
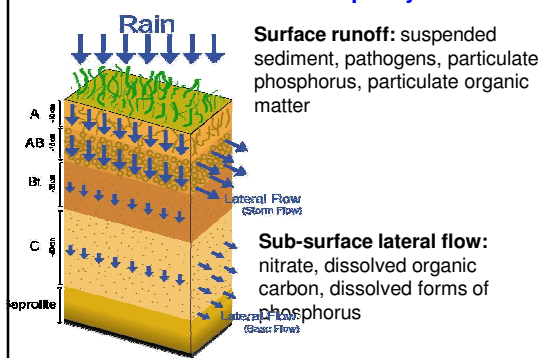


Water Quality Contaminant Transport from Soils to Surface Water in Annual Rangelands

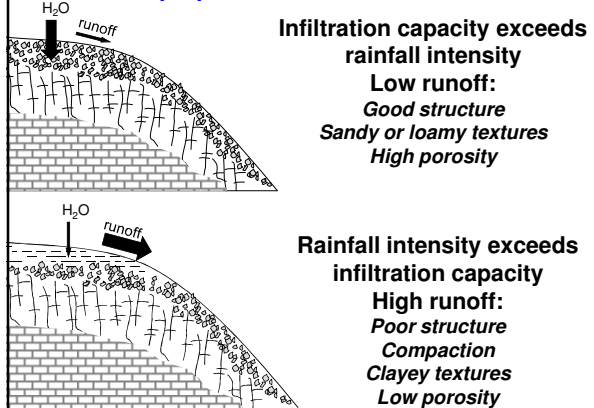


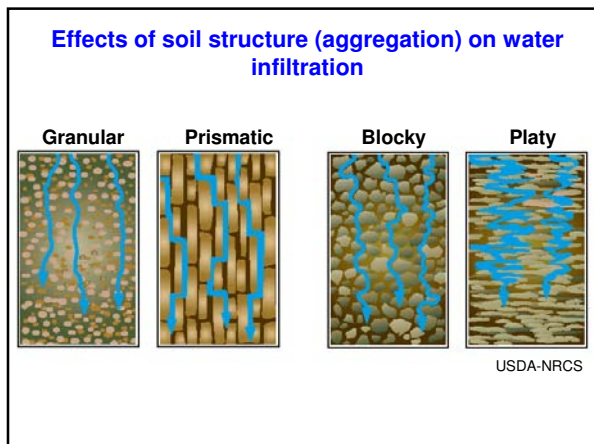
Toby O'Geen
Department of Land, Air and Water Resources
University of California, Davis

Hydrologic flowpaths in soil effect surface water quality

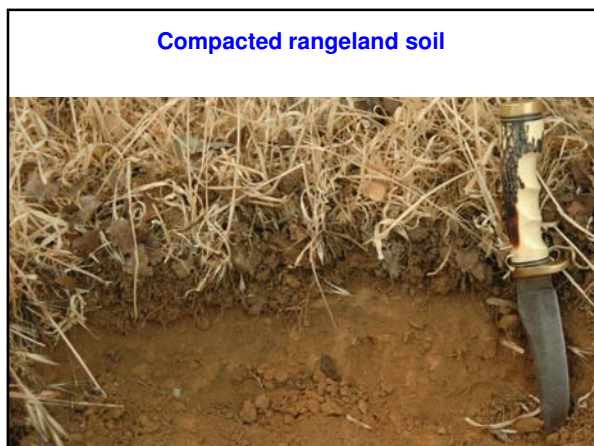


Soil properties influence surface runoff









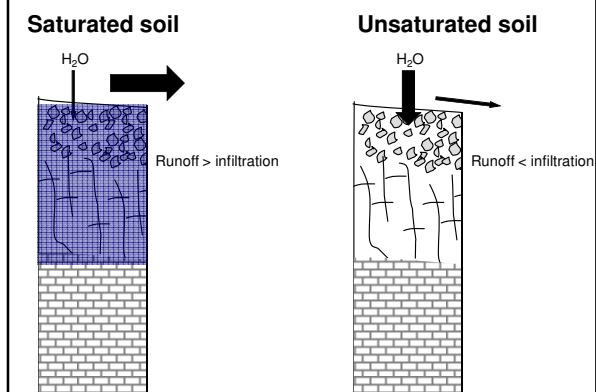
Evidence of poor drainage in compacted soil horizon "cow pan"



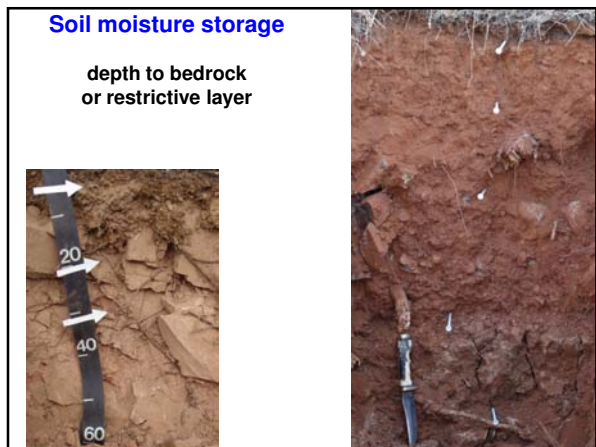
Evidence of poor drainage in compacted soil horizon "cow pan" in Coast Range



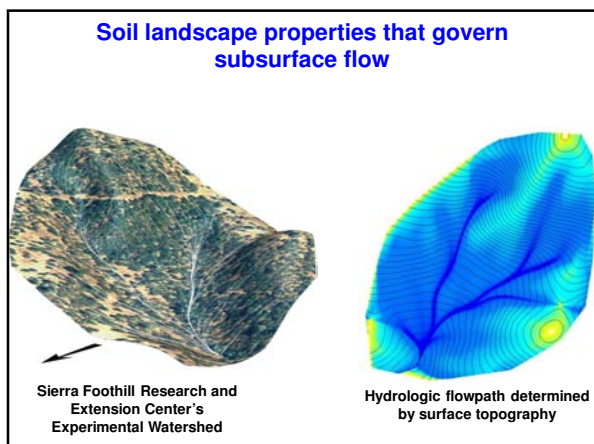
Effects of soil moisture storage on runoff

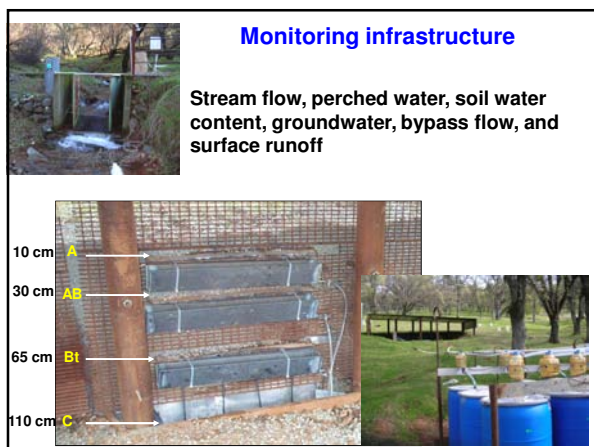


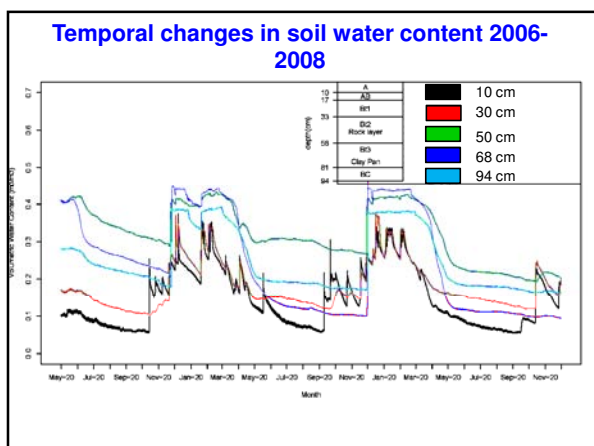


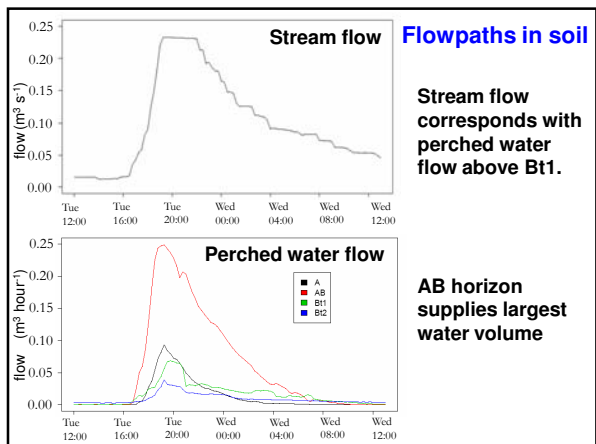


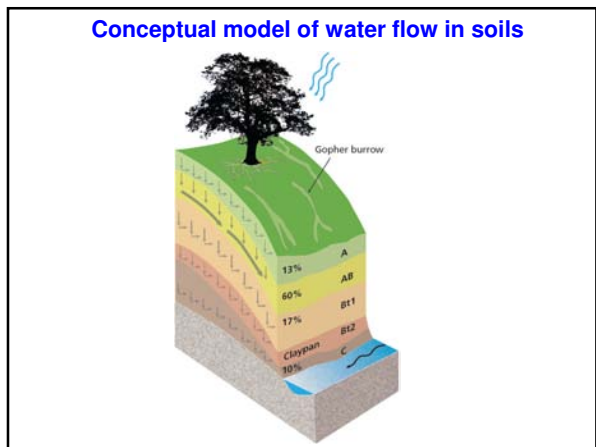


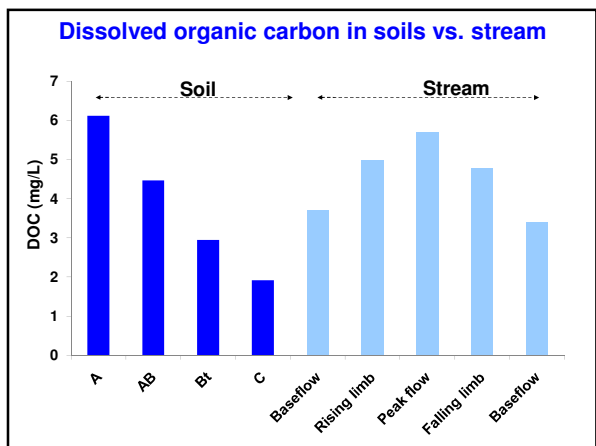


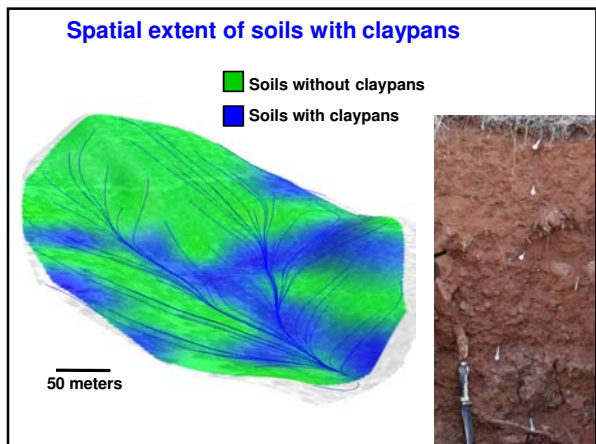


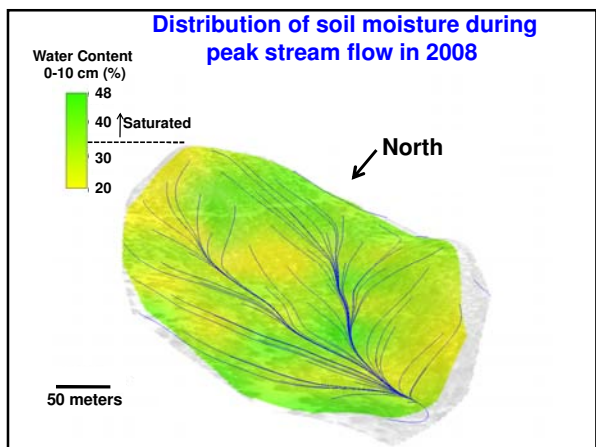


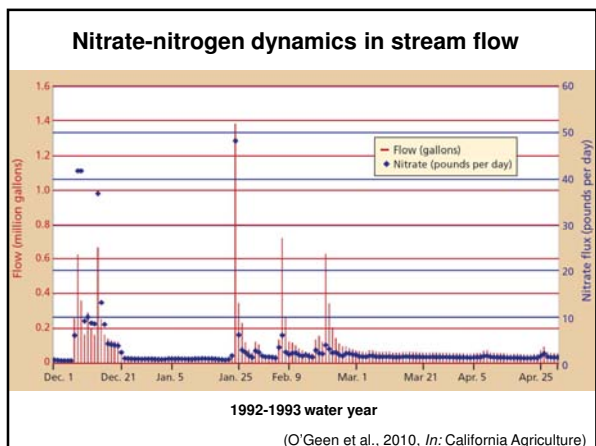












<http://casoilresource.lawr.ucdavis.edu/soilsurvey>

California Soil Resource Lab

Home Links Online Soil Survey People Projects Software Site Map

SoilWeb: An Online Soil Survey Browser

Our online soil survey can be used to access MCRS NCES 1:24,000 scale detailed soil survey data (SURGO) in many parts of the lower 48 states. Where the data is not yet available, 1:250,000 scale generalized soil data (STATSO) can be accessed instead (AZ, CA, NV only). An interactive map interface allows for panning and zooming, with highways, streets, and aerial photos for easier navigation (Figure 1). Soil polygons become visible near a scale of 1:20,000. Alternatively, a GPS point, CA ZIP code, or a street address can be used to zoom in on a specific location. General usage notes and information on how our online soil survey work can be found [here](#). Statistics on who is using our online soil survey can be found [here](#). Technical details on SoilWeb can be found in the publication.

Data Available for SoilWeb

Select an interface to SoilWeb

- An HTML app for real-time, location-based soil queries
- Google Earth interface**
- A Java app interface to SURGO

Google Earth

SoilWeb Data

Google Earth

Water quality policy and best management practices for annual rangelands should consider the systematic variation of soil properties



Thank You



<http://casoilresource.lawr.ucdavis.edu/soilsurvey>

Thank you: Dylan Beaudette, Alex Swarowsky, Jiayou Deng, Donna Dutra, Tony Orozco, Dustin Flavell, Martin Beaton, Jeannie Evatt and SFREC Crew.
