



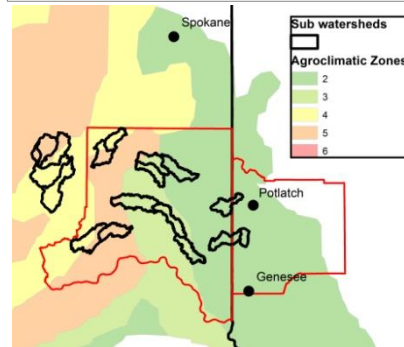
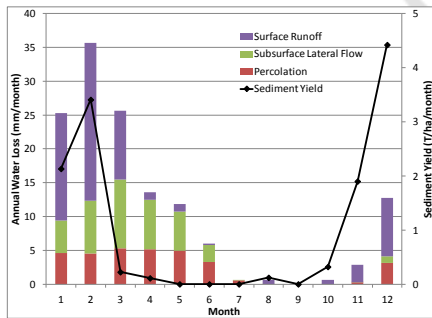
**REACCH**  
Regional Approaches  
to Climate Change –  
PACIFIC NORTHWEST AGRICULTURE

**Annual  
Meeting 2013  
Speed Science  
Presentations**



# The Hydrologic Characterization Tool: Hillslope-scale transport of water, soil, and carbon across AEZs

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Top: A monitoring station measured soil carbon transport from a small catchment in Idaho  
Middle: Simulated monthly water flux and sediment yield  
Bottom: An AEZ map showing sub-watershed sampling points.

A site specific web-based decision support tool originally to evaluate the effect of management practices in the Conservation Effects Assessment Program is being developed to help managers understand the relationship between cropping practices, topography, soil characteristics, and climate in each of the major AEZs in the REACCH project. The tool will help visualize and quantify the effects of management in each region on hydrologic, soil, and particulate organic carbon transport by water. The tool allows educators to understand the dominant hydrologic and sediment fluxes both at the outlet of a hillslope and within up-slope, mid-slope, and toe-slope sections of a hillslope. The tool will be parameterized through an extensive regional sampling program to establish linkages between soil organic matter and delivered soil carbon.

This presentation was given at REACCH 2013 Annual Meeting. This handout and supplemental video are available at [reacchpna.org](http://reacchpna.org). Funded through Award # 2011-68002-30191 from the USDA National Institute for Food and Agriculture.



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