Engineering for Sustainable Forestry

Following is a selection of published journal papers and theses, within the Engineering for Sustainable Forestry Area of Concentration, which have been published by graduate students and FERM faculty in recent years. These have been selected to show both the breadth of the area of concentration and some specific examples of projects undertaken. More information can be obtained by going to the web-pages of individual faculty members (shown in bold).

**Journal Papers**


**Segura, C.**, Lazzati D., and Arumugam, S. (2013), The use of broken power-laws to describe the distributions of daily flow above the mean annual flow across the conterminous US. *Journal of Hydrology* 505, 35-46

**Segura, C.,** Sun, G., McNulty, S., and Zhang, Y. (2013), Climate change impacts on soil erosion vulnerability across the conterminous U.S. In press in *Journal of Soils and water Conservation*


Theses


Thompson, Matthew P. 2009. Contemporary forest road management with economic and environmental objectives, PhD. Oregon State University, 302 pp.

Surfleet, Christopher. 2008. Uncertainty in forest road hydrologic modeling and catchment scale assessment of forest road sediment yield, PhD, Oregon State University, 251 pp.

Toman, Elizabeth. 2007. Reducing sediment production from forest roads during wet-weather use, PhD. Oregon State University. 175 pp.


Bord, Andrea J. 2006. Field and Laboratory Strength Analysis of a Forest Road in NW Oregon and its Association with the Formation of Ruts, MS, Oregon State University

Coulter, Elizabeth Dodson. 2005. Setting forest road maintenance and upgrade policies based on environmental effects and expert judgment, PhD. Oregon State University, 199 pp.