

RESEARCH ABSTRACT

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**Study Title:** Studies of hillslope erosion in the eastern part of the blast zone.

**Key Words:** physical            terrestrial            geomorphology    erosion            upland  
riparian            soil            watersheds            blowdown zone    archives

**Abstract:** We have been measuring tephra/soil erosion rates in the Smith, Bean, Clearwater, Upper Green River areas of the eastern part of the blast zone. Debris slides and debris flows have been inventoried based on field observations and interpretation of aerial photographs for the 1967 to 1984 period. Sheet and rill erosion was measured with arrays of erosion pins. Repeat photography of hillslope, channel, and revegetation changes has been done at a variety of locations. The intensity of measurements has been reduced through time, but all sites could be revisited and longer-term trends in erosion rates estimated.

**Type of Measurement(s):** (See abstract) Methods and results summarized in American Geomorphological Field Group field trip guidebook.

**Frequency of Measurement(s):** Annual or less frequent.

**Data Storage:** Data in permanent storage in the Forest Science Data Bank, Oregon State University, Forestry Sciences Lab, Corvallis, Oregon.

**Long-term plans:** Data available for collaborative efforts: Data and field sites are available for use by others.