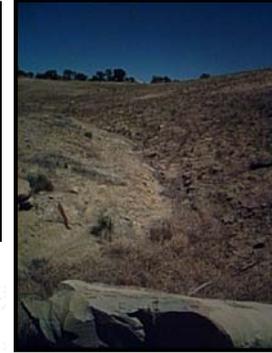




## TIPS

Technical Innovation  
And Professional  
Services



# RUSLE

**Revised Universal Soil Loss Equation** (U.S. Department of Agriculture, Agricultural Research Service): This software is used to predict the amount of sediment erosion that may occur at any site disturbed by man-made construction. It uses the soil-type information and slope configurations and applies them to standard mathematical formulas. These erosion prediction technologies, which are referred to as erosion models, are widely used to estimate rates of soil erosion caused by rainfall and associated overland flow. RUSLE1 and RUSLE2 are used by governmental agencies around the world to assess and inventory erosion to assist public policy development. Both RUSLE1 and RUSLE2 are land-use independent and can be used on cropland, disturbed forestland, rangeland, construction sites, mined land, reclaimed land, military training grounds, landfills, waste disposal sites, and other lands where rainfall and its associated overland flow cause soil erosion. *(modified from Vendor Description)*

### SELECTED FEATURES:

- Time-varying approach for soil erodibility
- Uses a subfactor approach for evaluating the cover-management factor
- Incorporates new conservation-practice values
- Uses the same formula as USLE but with several improvements in determining factors
- Utilizes new and revised isoerodent maps
- Revised equation that incorporates slope length and steepness

### RUSLE

(Revised Universal Soil Loss Equation)

#### Obtaining Software

This software is free! OSM recommends that you visit the (USDA)-Agricultural Research Service's RUSLE support site at:  
<http://www.ars.usda.gov/Research/docs.htm?docid=5971>

#### SMCRA Benefits and Uses

- \* Engineers, geologists, hydrologists and soil scientists use this program to evaluate potential soil loss due to mining and reclamation activities.

#### TIPS Training Classes

There are no TIPS training classes currently offered for RUSLE

#### Need Help????

Contact RUSLE Software Manager  
Danny Rahnema, [drahnema@osmre.gov](mailto:drahnema@osmre.gov)  
(865) 545- 4103 ext. 167

### U.S. Department of the Interior, Office of Surface Mining

1999 Broadway, Suite 3450, Denver, CO 80201 Ph: 303-293-5069 [www.tips.osmre.gov](http://www.tips.osmre.gov)