Table 14. General Guidelines for Broad Level High Risk of Mass Wasting Potential (slump-earthflow) (debris avalanche – debris torrent) (WRENSS, EPA, 1980)

Identification of Unstable Terrain Associated With Mass Wasting (use air photos, topographic maps and

geologic maps)

geologic maps)		
Guideline for Various Slopes	Slump Earthflow	Debris/Avalanche, Debris Torrent
Landform features	<u>2° → Steep</u>	Steep
Slope gradient	Hummocky	Concave
Slope shape	Irregular	
Soil Characteristics	Deep	Shallow
Depth	Deeply weathered	Residual or colluvium
Type	Fine grained	Coarse-grained
	Presence of mica	
	High clay content	
Hydrologic Characteristics of Site		
Concentration of ground water	Saturated depressions Bowls	Linear depressions perpendicular to
	Springs	the slope
	"Elk wallows"	
Deal Tors	Valancia ask	Hard, resistant volcanic rock
Rock Type	Volcanic ash Breccias	Granites Diorites
	Silt sandstones	Dionles
	Mudstones	
	Highly weathered rock	
	Attitude (dip of beds, parallel to	
	slope)	
		Rooting depth impacts
Vegetative Cover	Indication of wet clear cuts	
	increase risk. Old age new stands	
	indication of activity	
	Leaning trees	
Draginitation	Lligh intensity	
<u>Precipitation</u>	High intensity Long duration	
	Long duration	

Risk Rating:

Any surface disturbance activities that occur on high risk hazard for mass-wasting (slump-earthflow) and/or debris avalanche/debris torrent that influence vegetative cover, flow interception and routing, such as stand conversion, roads, skidding and yarding, land clearing and related activities is to be considered as a high risk for erosion potential.

Sediment delivery ratings for potential sediment contribution must be evaluated using the relations in Figure 80, Figure 81, and Table 15.