

## Appendix B - A-3 Mass Wasting Summary Tables

Landslides used for Appendix B exclude all questionable mass wasting features, all deep-seated landslides, and all probable mass wasting features from the oldest (1979) photo set, as per the LHZ protocol.

<b>Mass Wasting Summary table: Landform 1 - Inner gorges</b>									
Activity	Shallow-undifferentiated Landslides	Debris Flows	Debris Slides	Rock Topple and Fall	Snow avalanche	Total Number of Landslides	Total Failure Area of Landslides (Acres)	Total 'Delivering' Landslides	Total Failure Area of 'Delivering' Landslides (Acres)
Clear Cut (timber 0-5 Yrs.)	13	8	4			25	14.4	25	14.4
Young Timber (5-15 yrs.)	1	4	1			6	4.4	6	4.4
Submature Timber (15-50 yrs.)		1				1	1.4	1	1.4
Mature Timber (>50 yrs.)						0			
Road Related		1				1	0.6	1	0.6
Partial Cut						0			
Yarding						0			
Alpine						0			
Other						0			
<b>Landform Totals</b>	<b>14</b>	<b>14</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>20.8</b>	<b>33</b>	<b>20.8</b>

<b>Mass Wasting Summary table: Landform 2 - Bedrock hollows</b>									
Activity	Shallow-undifferentiated Landslides	Debris Flows	Debris Slides	Rock Topple and Fall	Snow avalanche	Total Number of Landslides	Total Failure Area of Landslides (Acres)	Total 'Delivering' Landslides	Total Failure Area of 'Delivering' Landslides (Acres)
Clear Cut (timber 0-5 Yrs.)	19	32	43			94	50.2	84	48.2
Young Timber (5-15 yrs.)		20	17			37	13	37	13
Submature Timber (15-50 yrs.)		2				2	0.9	2	0.9
Mature Timber (>50 yrs.)						0			
Road Related	3	9	17			29	22.9	28	22.7
Partial Cut						0			
Yarding						0			
Alpine						0			
Other						0			
<b>Landform Totals</b>	<b>22</b>	<b>63</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>162</b>	<b>87</b>	<b>151</b>	<b>84.8</b>

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<b>Mass Wasting Summary table: Landform 10 - Slopes steeper than 55%</b>									
Activity	Shallow-undifferentiated Landslides	Debris Flows	Debris Slides	Rock Topple and Fall	Snow avalanche	Total Number of Landslides	Total Failure Area of Landslides (Acres)	Total 'Delivering' Landslides	Total Failure Area of 'Delivering' Landslides (Acres)
Clear Cut (timber 0-5 Yrs.)	14	1	14			29	14.1	25	13.3
Young Timber (5-15 yrs.)		1	1			2	0.4	2	0.4
Submature Timber (15-50 yrs.)			3			3	0.3	2	0.3
Mature Timber (>50 yrs.)						0			
Road Related	9	4	6			19	15.2	16	14
Partial Cut						0			
Yarding						0			
Alpine						0			
Other						0			
<b>Landform Totals</b>	<b>23</b>	<b>6</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>53</b>	<b>30</b>	<b>45</b>	<b>28</b>

<b>Mass Wasting Summary table: Landform 11 - Highly convergent slopes</b>									
Activity	Shallow-undifferentiated Landslides	Debris Flows	Debris Slides	Rock Topple and Fall	Snow avalanche	Total Number of Landslides	Total Failure Area of Landslides (Acres)	Total 'Delivering' Landslides	Total Failure Area of 'Delivering' Landslides (Acres)
Clear Cut (timber 0-5 Yrs.)	20	3	16			39	15.9	36	15.1
Young Timber (5-15 yrs.)	6	4	7			17	3.9	17	3.9
Submature Timber (15-50 yrs.)		1	3			4	2.7	3	2.5
Mature Timber (>50 yrs.)						0			
Road Related	2	4	10			16	11.1	16	11.1
Partial Cut						0			
Yarding			1			1	1	1	1
Alpine						0			
Other						0			
<b>Landform Totals</b>	<b>28</b>	<b>12</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>34.6</b>	<b>73</b>	<b>33.6</b>

## Appendix B - Form A-3: Mass Wasting Summary Tables

<b>Mass Wasting Summary table: Landform 12 - Divergent and planar slopes (10 - 55%)</b>									
Activity	Shallow-undifferentiated Landslides	Debris Flows	Debris Slides	Rock Topple and Fall	Snow avalanche	Total Number of Landslides	Total Failure Area of Landslides (Acres)	Total 'Delivering' Landslides	Total Failure Area of 'Delivering' Landslides (Acres)
Clear Cut (timber 0-5 Yrs.)	6		5			11	2.2	10	2.1
Young Timber (5-15 yrs.)						0			
Submature Timber (15-50 yrs.)						0			
Mature Timber (>50 yrs.)			1			1	0.3	1	0.3
Road Related	6	4	1			11	3.9	8	3
Partial Cut						0			
Yarding						0			
Alpine						0			
Other						0			
<b>Landform Totals</b>	<b>12</b>	<b>4</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>6.4</b>	<b>19</b>	<b>5.4</b>

## Appendix D - Form A-4: Landform Hazard Rating Table

Landslides used for Appendix B exclude all questionable mass wasting features, all deep-seated landslides, and all probable mass wasting features from the first (1979) photo set, as per the LHZ protocol.

<b>LANDFORMS</b>	<b>1 - Inner Gorges</b>	<b>2 - Bedrock Hollows</b>	<b>8 - Active Deep-seated Landslides</b>	<b>10 - Slopes steeper than 55%</b>	<b>11 - Highly Convergent Slopes</b>	<b>12 - Divergent and planar slopes between 10 &amp; 55%</b>	<b>19 - Ridge Tops</b>	<b>20 - Valley Bottoms and Low Lying Flat Areas</b>	<b>KALALOECH WATERSHED ADMINISTRATIVE UNIT</b>
<b>Area of Landform (acres)</b>	147	170	37	843	1305.1	6523	456	1545.2	11027
<b>Number of Shallow Landslides</b>	33	162	0	53	77	23	0	0	348
<b>Landslide Frequency Rate</b> (Number of slides/Landform Area/26 Years) x 10 <sup>6</sup>	8630.1	36585	0	2417	2269.3	136	0	0	1215
<b>Number of 'Delivering' Landslides</b>	33	151	0	45	73	19	0	0	321
<b>Area of 'Delivering' Landslides (acres)</b>	21	85	0	28	34	5	0	0	172
<b>Landslide Area Rate for Delivery</b> (Area of Delivering Landslides/Landform Area/26 Years) x 10 <sup>6</sup>	5418.7	19162	0	1273.3	991.99	31	0	0	602
<b>Overall Hazard Rating</b>	<b>VERY HIGH</b>					<b>LOW</b>			<b>VERY HIGH</b>
<b>Area of Hazard Rating</b>	2503 acres					8524 acres			11027
<b>% of WAU Area</b>	22.70%					77.30%			100%

**County: Jefferson**

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