Appendix A: Geology

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
1	77	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
2	38	-	Y	-	-	Y	N	Y	N	?	Y	-	Y	-
3	37	-	Y	-	-	Y	N	Y	N	?	Y	-	Y	-
4	39	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
5	72	-	Y	-	-	Y	N	?	?	?	?	-	Y	-
6	56	-	Y	-	-	?	?	?	?	?	?	-	Y	-
7	66	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
8	67	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
9	-	-	Y	-	-	Y	N	Y	N	?	Y	-	Y	-
10	68	-	Y	-	-	Y	N	N	N	N	N	Y	-	-
11	65	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
12	40	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
13	42	-	Y	-	-	Y	N	Y	N	Y	?	-	Y	-
14	-	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
15	43	-	Y	-	-	?	?	Y	N	?	?	-	Y	-
16	41	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
17	64	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
18	31	-	Y	-	-	N	Y	N	Y	N	?	-	Y	-
19	71	-	Y	-	-	?	?	?	?	?	?	-	Y	-
20	56	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
21	57	-	Y	-	-	N	Y	N	Y	?	?	-	Y	-
22	33	-	Y	-	-	Y	N	N	Y	Y	Y	-	Y	-
23	63	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
24	29	-	Y	-	-	Y	N	N	Y	?	?	-	Y	-
25	34	-	Y	-	-	?	?	Y	N	N	N	Y	-	-
26	30	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
27	32	-	Y	-	-	?	?	Y	N	?	?	-	Y	-
28	55	-	Y	-	-	?	?	N	N	Y	?	-	Y	-
29	35	-	Y	-	-	?	?	N	N	Y	?	-	Y	-
30	54	-	Y	-	-	Y	N	N	Y	?	?	-	Y	-
31	53	-	Y	-	-	?	?	?	?	?	?	-	Y	-
32	69	-	Y	-	-	?	?	N	N	Y	?	-	Y	-
33	52	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
34	51	-	Y	-	-	Y	N	Y	N	N	N	-	Y	-

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
1	1	1816	-	19	2	6	SW	5	23	Boundary	-	Occurred in 89 storm. 86 ERFO.
2	1	-	-	19	2	6	SE	4	212	-	-	
3	1	1816 174	0.9	19	2	6	SE	4	212	-	-	Comp 30 SSI.
4	1	1816	1.7	18	2	31	SE	1	25	-	-	Chain Link Retainiing Wall. 86 ERFO.
5	1	-	-	19	2	5	SE	1	235	Timber	-	Occurred in 89 storm.
6	1	1830 405	-	18	3	8	SE	5	162	N. Fall	-	Total road width gone, some into N. Fork Fall Ck.
7	1	-	-	19	2	9	NW	3	602	Timber	30 Weight # 6	
8	1	-	-	19	2	9	NW	3	602	Timber	Gondor #6	
9	1	-	-	19	2	4	SW	4	212	Timber	-	
10	1	-	-	18	2	28	NE	2	235	Fall	-	Along Fall Ck. Trail
11	1	-	-	19	2	11	NW	4	212	Andy	Scarsdale # 6	
12	1	-	-	19	2	2	NE	1	25	Andy trib.		Rub Andy SSI.
13	2	-	-	18	2	36	NW	4	212	Portland		Welded Wire Retaining Wall.
14	4	-	-	18	2	1	SE	4	313	Alder		Took out CMP below on road 1817 406 M.P. 2.0.
15	4	1800	17.8	18	2	25	NE	5	15	PUMA		Puma SSI.
16	2	-	-	18	2	36	NE	4	212	Portland		Pumarine SSI.
17	2	-	-	19	2	12	NE	3	201	Rubble	Gambler # 3	
18	2	1825	6	19	3	18	SE	2	235	Nevergo		Mica High SSI.
19	4	1830	5.3	18	3	5	SW	4	212	Pernot		
20	4	1830 405	-	18	3	8	SE	4	212	Hehe		Moonshine SSI.
21	4	1830	2.6	18	3	17	SW	4	212	Sunshine		Sunshine SSI.
22	2	1825	5.1	19	3	8	SW	3	201	Gales		Mica Low SSI. Buttress.
23	2	-	-	19	3	20	NW	1	25	Nevergo	Nevergo # 6	Goes all the way down into Nevergo Ck.
24	2	1825	-	19	3	20	SW	1	25	Nevergo		Look SSI.
25	2	-	-	19	3	16	NW	3	201	Portland		Alpine SSI. GPS # 050921A. Went across Portland Ck.
26	2	-	-	19	3	21	NW	4	212	Portland		89 Storm
27	2	1835	11.5	19	3	9	SE	3	201	Portland		GPS # 042521B.
28	4	-	-	18	3	10	SW	3	21	Hehe		Occurred in 89 storm.
29	2	-	-	19	3	10	NE	3	201	Logan		Occurred in 89 storm.
30	4	1831 342	4.9	18	3	2	SW	3	301	Hehe		86 ERFO
31	4	1832 342	0.1	18	3	11	SE	3	201	Tiller		Blowout Ck. SSI. 86 FO.
32	3	-	-	18	3	12	SE	3	201	Saturn	Quartz # 6	
33	4	1832 395	3.3	18	3	13	NW	4	212	Fall		Nugget SSI.
34	4	1834	3.7	18	3	13	NE	3	201	Nine Mile		86 ERFO.

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
35	50	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
36	44	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
37	45	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
38	49	-	Y	-	-	?	?	?	?	?	?	-	Y	-
39	47	-	Y	-	-	?	?	?	?	?	?	-	Y	-
40	-	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
41	-	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
42	-	-	Y	-	-	Y	N	N	N	Y	N	-	Y	-
43	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
44	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
45	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
46	-	-	Y	-	-	?	?	N	Y	?	?	-	Y	-
47	-	-	Y	-	-	?	?	N	Y	?	?	-	Y	-
48	-	-	y	-	-	?	?	Y	N	?	?	-	Y	-
49	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
50	-	-	Y	-	-	?	?	N	Y	?	?	-	Y	-
51	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
52	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
53	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
54	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
55	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
56	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
57	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
58	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
59	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
35	4	-	-	18	3	13	SE	4	212	Nine Mile		89 Flood.
36	3	1835	0.3	18	4	19	NE	3	201	Gold		Falling Gold SSI.
37	3	1800	25.4	18	4	19	NE	3	8	Fall		
38	4	1832	-	18	4	9	SW	3	201	Breim		86 ERFO. Blocked 1832 365.
39	4	1800	0.1	18	4	16	SW	2	335	Buzzard		Buzzard SSI.
40	3	-	-	18	4	21	NE	3	201	Fall		Caused pipe to plug and fill to fail below on road 1844.
41	4	-	-	18	4	16	NE	3	201	Fall		Washed out the fill on 1800, MP 29.4. 86 flood.
42	4	-	-	18	2	12	NE	3	201	Alder trib		occured during 86 flood.
43	4	1817	-	18	3	6	SE	3	61	Alder trib		Whole road width gone.
44	4	1831 386	-	18	3	4	NW	3	201	Pernot		Whole road width gone.
45	3	1839 553	-	19	4	5	NE	3	21	Delp		
46	4	1830 407	-	18	3	9	SE	4	212	Hehe trib		Part of larger earthflow.
47	2	1835	-	19	3	10	SW	4	212	Logan trib		Possibly part of larger earthfall.
48	2	1835	11.64	19	3	16	SW	3	212	?		Road surface downdropped about 12 inches.
49	2	1835 240	-	19	3	16	NE	4	212	Portland trib		150' wide, 10' of road width left.
50	2	1835	-	19	3	16	SW	3	201	Nevergo		GPS # 051100A and 0510233A. 2 slides about 50' apart.
51	4	1839	1.17	18	4	20	SE	3	212	Delp		On Retaining Wall Inventory. Sheet-pile .
52	4	1839	1.18	18	4	20	SE	3	212	Delp		On Retaining Wall Inventory. Sheet-pile .
53	4	1839	1.19	18	4	20	SE	3	212	Delp		On Retaining Wall Inventory. Sheet-pile .
54	4	1839	1.21	18	4	29	NW	3	201	Delp		On Retaining Wall Inventory. Sheet-pile .
55	4	1839	1.23	18	4	29	NW	2	235	Delp		On Retaining Wall Inventory. Sheet-pile .
56	4	1839	1.26	18	4	29	NW	2	235	Delp		On Retaining Wall Inventory. Sheet-pile .
57	4	1839	1.49	18	4	29	NW	3	212	Delp		On Retaining Wall Inventory. Sheet-pile .
58	4	1839	1.83	18	4	29	NW	3	212	Delp		On Retaining Wall Inventory. H-pile.
59	3	1839 381	-	18	3	24	SW	4	212	Fall		On Retaining Wall Inventory. Concrete, 600 square feet.

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA A	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
60	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
61	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
62	-	-	Y	-	-	Y	N	Y	N	?	?	-	Y	-
301	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	N
301a	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	N
301b	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	N
302	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	N
303	-	-	-	1949/55	-	Y	N	Y	N	N	Y	-	Y	E
304	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	NW
305	-	-	-	1949/55	-	Y	N	N	N	Y	N	-	Y	E
306	-	-	-	1949/55	RE 21-10	N	Y	N	Y	Y	N	-	Y	SE
307	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	S
308	-	-	-	1949/55	LC3 RE 21-	N	Y	N	N	N	N	Y	-	S
309	-	-	-	1949/55	LC3 36-35	Y	N	Y	N	N	Y	-	Y	S
310	-	-	-	1949/55	LC3 36-48	Y	N	Y	N	N	Y	-	Y	SE
310a	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	E
310b	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	E
310c	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	E
310d	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	E
310e	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	E
310f	-	-	-	1949/55	-	Y	N	N	N	N	N	Y	-	E
310g	-	-	-	1949/55	-	Y	N	N	N	Y	N	-	Y	N
310h	-	-	-	1949/55	-	Y	N	N	N	Y	N	-	Y	N
310j	-	-	-	1949/55	-	Y	N	N	N	Y	N	-	Y	N
384	-	Y	-	1959	EG1 26-13	Y	N	Y	N	N	Y	-	Y	SE
385	-	-	-	1959	EG1 26-10	Y	N	Y	N	N	Y	-	Y	SE
386	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	E
387	-	-	-	1959	-	Y	Y	N	Y	N	N	Y	-	S
388	-	-	-	1959	EG1 26-10	Y	N	Y	N	N	Y	-	Y	S
389	-	-	-	1959	EG1 25-17	Y	N	N	N	N	N	Y	-	SE

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
60	3	1839 381	-	18	3	24	SE	4	212	Fall		On Retaining Wall Inventory. H-pile.
61	3	1839 381	-	18	3	24	SE	4	212	Fall		On Retaining Wall Inventory. Sheet-pile.
62	4	1839 381	-	18	3	2	NW	3	301	Hehe trib		
301	2	-	-	19	3	28	-	4	444	Nevergo		One of 3 on N. side of Saddle Blanket Mtn., 400' to 1,000' long.
301a	2	-	-	19	3	28	-	4	444	Nevergo		One of 3 on N. side of Saddle Blanket Mtn., 400' to 1,000' long.
301b	2	-	-	19	3	28	-	4	444	Nevergo		One of 3 on N. side of Saddle Blanket Mtn., 400' to 1,000' long.
302	2	-	-	19	2	4	-	3	8	Logan		Scoured drainage into Logan Ck., about 2,000' to 2,500' long.
303	2	1824	-	19	2	1	NW	3	201	Portland		Possibly from a landing. Sluiced down Rubble Ck. all the way to Portland Ck.
304	3	-	-	19	3	1	SW	5	441	Gold		
305	4	-	-	19	2	25	NE	3	8	-		
306	1	-	-	18	2	29	NW	4	212	Fall Trib		
307	4	-	-	18	3	19	SW	3	201	Fall		
308	1	-	-	18	2	23	NW	3	8	Bedrock		
309	1	-	-	19	1	12	NE	5	-	-		
310	1	-	-	18	1	36	SW	5	-	Little Gold		
310a	2	-	-	19	3	5	SE	3	21	Portland		
310b	2	-	-	19	3	5	SE	3	21	Portland		
310c	2	-	-	19	3	5	SE	3	8	Portland		
310d	2	-	-	19	3	5	SE	3	8	Portland		
310e	2	-	-	19	3	8	NE	3	8	Portland		
310f	2	-	-	19	3	8	NE	3	201	Portland		
310g	4	-	-	18	2	13	NE	3	201	Nevergo		
310h	4	-	-	18	2	13	NE	3	201	Nevergo		
310j	4	-	-	18	2	12	NW	3	201	Nevergo		
384	3	1800	-	18	4	15	SW	2	335	Fall Trib		
385	3	1800	-	18	4	15	SW	2	335	Fall Trib		50' X 200', starts on upper road.
386	3	1839	-	18	4	29	NW	2	235	Delp		200' to 300' section where retaining walls were built.
387	3	1800	-	18	4	17	SE	3	201	Fall		Possibly an old borrow site.
388	3	1800	-	18	4	8	NE	3	201	Briem		
389	3	1832	-	18	4	7	NW	3	201	Platt		

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
390	-	-	-	1959	EG1 25-14	Y	N	N	Y	N	Y	-	Y	SW
391	-	-	-	1959	EG1 25-15	N	Y	N	N	N	N	Y	-	W
392	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
393	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
394	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
395	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	SE
396	-	-	-	1959	EG1 25-15	Y	N	Y	N	N	Y	-	Y	SE
397	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
398	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
399	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
400	-	-	-	1959	EG1 25-15	Y	N	Y	N	N	Y	-	Y	N
401	-	-	-	1959	-	N	Y	N	Y	N	Y	-	Y	W
402	-	-	-	1959	-	N	Y	N	Y	N	Y	-	Y	W
403	-	-	-	1959	EG1 25-15	Y	N	Y	N	N	Y	-	Y	S
404	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	N
405	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	N
406	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	E
407	-	-	-	1959	EG1 25-13	Y	N	Y	N	N	Y	-	Y	N
408	-	-	-	1959	EG1 25-13	N	Y	N	Y	N	Y	-	Y	S
409	-	-	-	1959	EG1 25-12	Y	N	Y	N	N	Y	-	Y	N
410	-	-	-	1959	-	N	Y	N	Y	N	Y	-	Y	N
411	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	N
412	-	-	-	1959	EG1 25-11	Y	N	N	N	Y	N	-	Y	SE
413	-	-	-	1959	-	Y	N	N	N	Y	N	-	Y	E
414	-	-	-	1959	EG1 14-47	N	Y	N	Y	N	Y	-	Y	SE
415	-	-	-	1959	-	Y	N	N	N	Y	N	-	Y	SW
416	-	-	-	1959	EG1 15-16	Y	N	Y	N	N	N	-	Y	E
417	-	-	-	1959	EG1 15-16	Y	N	Y	N	N	N	-	Y	E
418	-	-	-	1959	EG1 15-16	Y	N	Y	N	N	N	-	Y	E
419	-	-	-	1959	EG1 54-15	Y	N	N	N	N	Y	-	Y	N
420	-	-	-	1959	-	Y	N	Y	N	N	N	-	Y	N
421	-	-	-	1959	EG1 57-7	Y	N	N	N	Y	N	-	Y	NE
422	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	SE
423	-	-	-	1959	EG1 12-12	Y	N	Y	N	N	Y	-	Y	NW
424	-	-	-	1959	-	Y	N	N	Y	N	Y	-	Y	N
425	-	-	-	1959	EG1 10-11	Y	N	Y	N	N	Y	-	Y	NE
426	-	-	-	1959	-	N	Y	N	N	N	N	Y	-	SE
427	-	-	-	1959	-	N	Y	N	Y	N	N	-	Y	S
428	-	-	-	1959	EG1 1-116	Y	N	N	N	Y	N	-	Y	SE

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
390	3	1835	-	18	3	36	SW	3	201	Gold		
391	4	-	-	19	3	1	SE	3	8	Hehe Trib		
392	4	1832	-	18	3	12	NE	3	8	Hehe Trib		
393	4	1832	-	18	3	12	NE	3	8	Hehe Trib		
394	4	1832	-	18	3	12	NE	3	8	Hehe Trib		
395	3	1832	-	18	4	6	SW	3	201	Platt		
396	4	1831	-	18	3	1	SW	5	185	Fall Trib		
397	4	1831	-	18	3	1	NE	3	8	Hehe		
398	4	1831	-	18	3	1	NE	3	8	Hehe		
399	4	1831	-	18	3	1	NE	3	8	Hehe		
400	4	1831	-	18	3	1	NE	3	8	Hehe		
401	4	-	-	18	3	1	NW	3	310	Hehe Trib		
402	4	1831	-	18	3	1	SW	3	310	Hehe Trib		
403	4	1831	-	18	3	1	NE	3	8	Hehe		
404	3	-	-	19	3	1	SW	4	441	Gold		
405	3	-	-	19	3	1	SW	4	441	Gold		
406	3	1834	-	18	3	26	SW	1	25	Fall		
407	4	1832	-	18	3	11	SW	4	212	Hehe Trib		
408	4	1832	-	18	3	11	SW	1	35	Hehe Trib		
409	4	-	-	18	3	11	NW	4	212	Hehe		
410	4	-	-	18	3	11	NW	1	25	Hehe		
411	4	1831	-	18	3	2	SE	1	25	Hehe		
412	4	-	-	18	3	2	NE	3	301	Hehe		
413	4	-	-	18	3	2	NE	3	301	Hehe Trib		
414	4	1831	-	18	3	10	NE	5	23	Hehe		
415	2	-	-	19	3	3	SW	3	201	Logan		
416	2	1825	-	19	3	8	SW	3	201	Nevergo		
417	2	1825	-	19	3	8	SW	3	201	Nevergo		
418	2	1825	-	19	3	8	SW	3	201	Nevergo		
419	2	-	-	19	3	4	NW	3	201	Logan		
420	4	1835 250	-	18	3	31	SE	3	8	Fall		
421	4	1830	-	18	3	5	SW	4	212	Hehe		
422	2	1825	-	19	3	20	NW	5	23	Nevergo		
423	2	1825	-	19	3	20	NW	1	25	Nevergo		
424	2	1825 214	-	19	3	6	NW	5	23	Portland trib		
425	2	1825 214	-	18	2	36	SE	5	23	Portland trib		
426	1	-	-	18	2	23	NW	3	201	Bedrock		
427	1	1817 367	-	18	2	16	SE	2	235	Slick trib		
428	1	1817	-	18	2	29	NE	2	235	Fall		

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
429	-	-	-	1959	EG1 1-116	Y	N	Y	N	N	Y	-	Y	SE
430	-	-	-	1959	-	Y	N	Y	N	N	Y	-	Y	SW
431	-	-	-	1959	EG1 1-54	Y	N	Y	N	N	Y	-	Y	W
432	-	Y	-	1959	EG1 1-54	Y	N	Y	N	N	Y	-	Y	W
433	-	-	-	1959	EG1 1-54	Y	N	Y	N	N	Y	-	Y	W
434	-	-	-	1959	-	Y	N	N	N	Y	N	-	Y	W
435	-	-	-	1959	EG1 1-28	Y	N	N	N	Y	N	-	Y	W
436	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	N
437	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	N
438	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	N
439	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	E
440	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	E
441	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	E
442	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	E
443	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	E
444	-	Y	-	1959	-	Y	N	N	N	N	N	Y	-	E
445	-	Y	-	1959	-	Y	N	N	N	Y	N	-	Y	N
446	-	Y	-	1959	-	Y	N	N	N	Y	N	-	Y	N
447	-	Y	-	1959	-	Y	N	N	N	Y	N	-	Y	N
311	-	-	-	1967	ESF 5-199	Y	N	N	N	Y	N	-	Y	SW
312	-	-	-	1967	ESF 5-201	Y	N	Y	N	N	Y	-	Y	S
313	-	-	-	1967	ESF 5-201	Y	N	Y	N	N	Y	-	Y	N
314	-	-	-	1967	ESF 5-200	Y	N	Y	N	N	Y	-	Y	N
315	-	-	-	1967	ESF 6-63	Y	N	Y	N	N	Y	-	Y	N
316	-	-	-	1967	ESF 6-63	Y	N	Y	N	N	Y	-	Y	N
317	-	-	-	1967	ESF 6-62	Y	N	Y	N	N	Y	-	Y	E
318	-	-	-	1967	ESF 6-61	Y	N	N	N	N	N	Y	-	E
319	-	-	-	1967	ESF 6-61	Y	N	Y	N	N	Y	-	Y	E
320	-	-	-	1967	ESF 6-61	Y	N	N	N	N	N	Y	-	W
321	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
322	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	NE
323	-	Y	-	1967	-	Y	N	Y	N	N	N	-	Y	E
324	-	-	-	1967	ESF 6-59	Y	N	Y	N	N	N	-	Y	N
325	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
326	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
327	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
328	-	-	-	1967	-	Y	N	Y	N	N	N	-	Y	N
328a	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	SW
329	-	-	-	1967	-	Y	N	Y	N	N	N	-	Y	S

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
429	1	1817 412	-	18	2	29	NE	2	235	Fall trib		
430	1	1817	-	18	2	16	SW	2	235	N. Fall		
431	1	1817	-	18	2	20	NE	3	21	N. Fall		
432	1	1816	-	18	2	20	NE	5	162	N. Fall		
433	1	1817	-	18	2	20	NE	5	162	N. Fall		
434	1	-	-	18	2	20	NE	3	21	N. Fall		
435	1	-	-	18	1	36	SE	5	-	Little Gold		
436	2	-	-	19	3	30	NW	3	21	Nevergo		
437	2	-	-	19	3	30	NW	3	21	Nevergo		
438	2	-	-	19	3	30	NW	3	21	Nevergo		
439	2	-	-	19	3	5	SE	3	21	Portland		
440	2	-	-	19	3	5	SE	3	21	Portland		
441	2	-	-	19	3	5	SE	3	8	Portland		
442	2	-	-	19	3	5	SE	3	8	Portland		
443	2	-	-	19	3	8	NE	3	8	Portland		
444	2	-	-	19	3	8	NE	3	201	Portland		
445	4	-	-	19	3	13	NE	3	201	Nevergo		
446	4	-	-	19	3	13	NE	3	201	Nevergo		
447	4	-	-	19	3	12	NE	3	201	Nevergo		
311	3	-	-	18	4	27	NW	3	201	-		
312	3	1845	-	18	4	15	NW	3	8	-		
313	3	1844	-	18	4	21	NW	3	201	-		
314	3	1844	-	18	4	21	NW	3	201	-		
315	3	1839	-	19	4	5	SW	3	201	Delp		
316	3	1839	-	19	4	5	NW	3	201	Delp		
317	3	1839	-	18	4	32	NW	4	212	Delp		
318	3	-	-	18	4	32	NW	2	235	-		
319	3	1839	-	18	4	32	NW	1	25	Delp		
320	3	-	-	18	4	32	NE	3	201	Delp		
321	3	1839	-	18	4	29	NW	5	235	Delp		
322	3	1839	-	18	4	29	NW	3	201	Delp		
323	3	1839	-	18	4	29	SW	4	212	Delp		
324	3	1844	-	18	4	19	NW	3	8	Fall		
325	3	1844	-	18	4	20	NE	4	212	Fall		
326	3	1844	-	18	4	20	NW	3	8	Fall		
327	3	1844	-	18	4	20	NW	3	8	Fall		
328	3	1832	-	18	4	9	SW	3	201	Briem		
328a	3	1832	-	18	4	9	SW	3	201	Briem		
329	3	1832	-	18	4	5	SE	3	201	Platt		

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
330	-	-	-	1967	-	Y	N	Y	N	N	N	-	Y	SW
331	-	-	-	1967	-	Y	N	Y	N	N	N	-	Y	SW
332	-	-	-	1967	-	Y	N	Y	N	N	N	-	Y	S
333	-	-	-	1967	ESF 6-78	Y	N	N	Y	N	N	-	Y	NW
334	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	E
335	-	-	-	1967	ESF 6-79	Y	N	Y	N	N	Y	-	Y	E
336	-	-	-	1967	-	Y	N	N	N	N	Y	-	Y	N
337	-	Y	-	1967	-	Y	N	N	N	N	Y	-	Y	NW
338	-	Y	-	1967	-	Y	N	Y	N	Y	Y	-	Y	NW
339	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	NW
340	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	SW
341	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
342	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
343	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
344	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	N
345	-	Y	-	1967	-	Y	N	Y	N	N	Y	-	Y	S
346	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	N
347	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	N
348	-	-	-	1967	-	Y	N	Y	N	N	N	-	Y	N
349	-	Y	-	1967	-	N	Y	N	N	N	N	Y	-	E
350	-	-	-	1967	ESF 17-21	Y	N	N	Y	N	Y	-	Y	E
351	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	E
352	-	-	-	1967	ESF 17-21	Y	N	Y	N	N	Y	-	Y	N
353	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	NW
354	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	NW
355	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	NW
356	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	NW
357	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	NW
358	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	NW
359	-	-	-	1967	ESF 31-14	Y	N	N	N	Y	N	-	Y	NW
360	-	-	-	1967	ESF 31-14	Y	N	Y	N	N	Y	-	Y	N
361	-	-	-	1967	ESF 31-14	Y	N	Y	N	N	Y	-	Y	N
362	-	-	-	1967	ESF 31-14	Y	N	Y	N	N	Y	-	Y	NE
363	-	-	-	1967	ESF 31-14	Y	N	Y	N	N	Y	-	Y	W
364	-	-	-	1967	ESF 31-14	Y	N	Y	N	N	Y	-	Y	N
365	-	-	-	1967	ESF 31-14	Y	N	Y	N	N	Y	-	Y	S
366	-	-	-	1967	ESF 31-143	Y	N	N	N	Y	N	-	Y	W
367	-	Y	-	1967	ESF 7-67	Y	N	Y	N	N	Y	-	Y	W
368	-	-	-	1967	ESF 7-67	Y	N	Y	N	N	Y	-	Y	E

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
330	3	1832	-	18	4	5	SE	3	201	Platt		
331	3	1832	-	18	4	5	SE	3	201	Platt		
332	3	1832	-	18	4	6	SE	3	201	Platt		
333	3	1839	-	18	3	24	SW	3	201	Fall		
334	3	1834	-	18	3	24	SW	1	25	Fall		
335	3	1834	-	18	3	24	NE	4	212	Nine Mile		
336	4	-	-	18	3	12	SE	4	212	-		
337	4	1832	-	18	3	12	NE	3	310	Hehe		
338	4	1832	-	18	3	12	NE	3	310	Hehe		
339	4	1832	-	18	3	12	NE	3	310	Hehe		
340	3	1832	-	18	4	6	SW	3	201	Platt		
341	4	1831	-	18	3	1	NE	3	8	Hehe		
342	4	1831 397	-	18	3	1	NE	3	8	Hehe		
343	4	1831 397	-	18	3	1	NE	3	8	Hehe		
344	4	1831 397	-	18	3	1	NE	3	8	Hehe		
345	4	-	-	18	3	2	NE	3	301	Hehe		
346	3	-	-	19	3	1	SW	4	441	Gold		
347	3	-	-	19	3	1	SW	4	441	Gold		
348	3	1833 254	-	18	3	26	SW	3	8	Pacific		
349	4	-	-	18	3	10	NE	5	23	Hehe		
350	4	1831 383	-	18	3	10	NE	5	23	Hehe		
351	4	1831 383	-	18	3	3	SE	5	23	Hehe		
352	4	-	-	18	3	2	SE	1	25	-		
353	4	-	-	18	3	2	NW	3	8	Hehe		
354	4	-	-	18	3	2	NW	3	8	Hehe		
355	4	-	-	18	3	2	NW	3	8	Hehe		
356	4	-	-	18	3	2	NW	3	8	Hehe		
357	4	-	-	18	3	2	SW	3	310	Hehe		
358	4	-	-	18	3	2	SE	3	8	Hehe		
359	2	-	-	19	3	21	NE	3	201	Portland		
360	2	1835	-	19	3	16	NW	3	201	Portland		
361	2	1835	-	19	3	16	NW	3	201	Portland		
362	2	1835	-	19	3	9	NE	4	212	Logan		
363	2	1835	-	19	3	10	NE	3	201	Logan		
364	2	1835	-	19	3	10	NW	3	201	Logan		
365	2	1835	-	19	3	10	NW	3	201	Logan		
366	2	-	-	19	3	3	SE	3	201	Logan		
367	4	1835	-	18	3	31	SE	3	8	Fall		
368	3	1833	-	18	3	27	NE	4	212	Pacific		

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
369	-	-	-	1967	ESF 7-68	Y	N	N	N	N	Y	-	Y	N
370	-	-	-	1967	ESF 7-70	Y	N	Y	N	N	N	Y	-	S
371	-	-	-	1967	ESF 7-70	Y	N	N	Y	N	Y	-	Y	S
372	-	-	-	1967	ESF 31-12	Y	N	Y	N	N	Y	-	Y	W
373	-	-	-	1967	ESF 31-13	Y	N	N	N	N	N	Y	-	E
374	-	-	-	1967	ESF 31-13	Y	N	N	N	N	N	Y	-	E
375	-	-	-	1967	ESF 31-13	Y	N	Y	N	N	Y	-	Y	E
376	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	NE
377	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	NE
378	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	NE
379	-	-	-	1967	-	Y	N	N	N	Y	N	-	Y	SE
380	-	-	-	1967	-	Y	N	Y	N	N	Y	-	Y	NE
381	-	-	-	1967	ESF 14-11	Y	N	N	N	N	Y	-	Y	W
382	-	-	-	1967	ESF 14-11	Y	N	Y	N	N	Y	-	Y	NE
383	-	-	-	1967	ESF 17-17	Y	N	Y	N	N	Y	-	Y	S
383a	-	Y	-	1967	-	N	Y	N	N	N	N	Y	-	SE
383b	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	-
383c	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	-
383d	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	-
383e	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	E
383f	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	E
383g	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	E
383h	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	E
383j	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	E
383k	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	E
383l	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	N
383m	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	N
383n	-	Y	-	1967	-	Y	N	N	N	N	N	Y	-	N
500	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	S
501	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	NE
502	-	-		1990	-	Y	N	Y	N	N	Y	-	Y	E
503	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	W
504	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	E
505	-	Y	-	1990	-	Y	N	Y	N	N	Y	-	Y	E
506	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	E
507	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	E
508	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	SW
509	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	E
510	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	S

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 Section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
369	3	1833	-	18	3	26	NW	3	201	Pacific		
370	4	1831	-	18	3	10	NW	3	201	Hehe		
371	4	1831	-	18	3	10	SW	3	201	Hehe		
372	2	1825	-	19	3	8	SE	2	235	Nevergo		
373	2	1824	-	19	3	6	NW	4	212	Gales		
374	2	1824	-	19	3	6	NE	4	212	Gales		
375	2	1825	-	18	3	30	SE	4	212	Portland		
376	4	1828	-	18	3	18	SW	3	201	Alder		
377	4	1828	-	18	3	18	SW	3	201	Alder		
378	4	1828	-	18	3	18	SW	3	201	Alder		
379	4	-	-	18	3	19	SW	4	212	Sunshine		
380	2	1824	-	19	2	1	SE	3	201	Rubble		
381	4	-	-	18	3	25	NE	3	201	Puma		
382	4	1828	-	18	2	12	SW	3	201	Zog		
383	4	1828	-	18	2	24	SW	3	201	Jones		
383a	1	-	-	18	2	14	NE	3	201	Bedrock		
383b	2	-	-	19	3	30	NW	2	21	-		
383c	2	-	-	19	3	30	NW	2	21	-		
383d	2	-	-	19	3	30	NW	2	21	-		
383e	2	-	-	19	3	5	SE	3	-	Portland		
383f	2	-	-	19	3	5	SE	3	-	Portland		
383g	2	-	-	19	3	5	SE	3	-	Portland		
383h	2	-	-	19	3	5	SE	3	-	Portland		
383j	2	-	-	19	3	8	NE	3	-	Portland		
383k	2	-	-	19	3	8	NE	3	-	Portland		
383l	2	-	-	18	2	13	NE	3	201	Zog trib		
383m	2	-	-	18	2	13	NE	3	201	Zog trib		
383n	2	-	-	18	2	13	NW	3	201	Zog trib		
500	3	-	-	18	4	10	NE	3	201	Buzzard		
501	3	1839	-	19	4	4	SW	3	201	Delp		
502	3	1839	-	18	4	32	SW	3	21	Delp		
503	3	1839	-	18	4	32	SE	3	201	Delp		
504	3	1839	-	18	4	29	SW	1	25	Delp		
505	3	1839	-	18	4	32	NW	1	25	Delp		
506	3	1839	-	18	4	32	NW	1	25	Delp		
507	3	1839	-	18	4	29	SW	4	212	Delp		
508	3	-	-	18	4	28	NW	5	23	Delp Trib		
509	3	1800	-	18	4	6	SW	3	201	Briem		
510	3	1800	-	18	4	8	NE	4	212	Briem Trib		

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA 2	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
511	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	NW
512	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	SE
513	-	-	-	1990	-	Y	N	N	N	N	Y	-	Y	W
514	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	N
515	-	-	-	1990	-	Y	N	Y	N	N	N	-	Y	W
516	-	-	-	1990	-	Y	N	Y	N	N	N	-	Y	S
517	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	E
518	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	N
519	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	N
520	-	-	-	1990	-	Y	N	N	N	N	N	Y	-	NW
521	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	NE
522	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	NE
523	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	W
524	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	N
525	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	N
525a	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	N
525b	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	N
526	-	-	-	1990	-	Y	N	Y	N	N	N	-	Y	NW
527	-	-	-	1990	-	Y	N	Y	N	N	N	-	Y	NW
528	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	N
529	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	N
530	-	Y	-	1990	-	Y	N	Y	N	N	N	-	Y	N
531	-	-	-	1990	-	Y	N	Y	N	N	N	-	Y	N
532	-	-	-	1990	-	N	Y	N	Y	N	N	-	Y	W
533	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
534	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
535	-	-	-	1990	-	Y	N	Y	N	N	N	-	Y	NW
536	-	-	-	1990	-	N	Y	N	N	Y	N	-	Y	N
537	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	SW
538	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	SW
539	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	W
540	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	W
541	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	S
542	-	-	-	1990	-	N	Y	N	Y	N	Y	-	Y	E
543	-	-	-	1990	1390-134	N	Y	N	Y	N	Y	-	Y	NW
544	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	NE
545	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	NE
546	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	N
547	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	NW

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
511	3	1846	-	19	4	5	SW	3	201	Delp		
512	3	1839	-	18	4	31	SW	3	201	Delp		
513	3	1844	-	18	4	32	NE	3	201	Delp		
514	3	1839	-	18	4	30	SW	3	201	Delp Trib		
515	3	1839	-	18	4	20	SW	4	212	Delp		
516	3	1832	-	18	4	6	SW	3	201	Platt		
517	3	-	-	19	4	6	NW	3	201	Delp		
518	3	-	-	18	3	36	SE	3	201	Gold		
519	3	-	-	18	4	30	SW	3	201	Gold		
520	3	1839	-	18	4	24	SW	5	23	Fall		
521	3	-	-	18	3	12	SW	3	201	Saturn		
522	3	-	-	18	4	8	NW	3	201	Saturn		
523	4	-	-	18	3	12	NW	3	8	Hehe Trib		
524	4	-	-	18	3	12	NW	3	8	Hehe Trib		
525	4	1832	-	18	3	12	NE	3	310	Hehe Trib		
525a	4	1832	-	18	3	12	NE	3	310	Hehe Trib		
525b	4	1832	-	18	3	12	NE	3	310	Hehe Trib		
526	4	1832	-	18	3	1	SE	3	8	Hehe Trib		
527	4	1832	-	18	3	12	NE	3	8	Hehe Trib		
528	4	1831	-	18	3	1	NE	3	8	Hehe		
529	4	1831	-	18	3	1	NE	3	8	Hehe		
530	4	1831	-	18	3	1	NE	3	8	Hehe		
531	4	1831	-	18	3	1	NE	3	8	Hehe		
532	4	1831	-	18	3	1	NE	3	301	Hehe		
533	3	-	-	19	3	1	SW	3	441	Gold		
534	3	-	-	19	3	1	SW	3	441	Gold		
535	4	1835	-	18	3	36	NW	3	201	Gold		
536	3	-	-	18	3	14	NW	4	212	Tiller		
537	4	-	-	18	3	11	SE	4	212	Hehe Trib		
538	4	-	-	18	3	11	SE	1	25	Hehe Trib		
539	4	-	-	18	3	11	SE	4	212	Hehe		
540	4	-	-	18	3	12	NW	4	212	Hehe Trib		
541	4	-	-	18	3	2	NE	3	301	Hehe Trib		
542	4	-	-	18	3	2	NW	3	301	Hehe Trib		
543	3	1833	-	18	3	27	NE	4	212	Pacific Trib		
544	4	1832	-	18	3	15	NW	3	21	Hehe Trib		
545	4	1832	-	18	3	15	NW	3	21	Hehe Trib		
546	4	1832	-	18	3	15	NE	3	21	Hehe		
547	2	1835	-	19	3	15	SW	3	201	Portland		

Table A41. Summary of Inventoried Landslides

Slope Failure Number	WA #	Failures Previously Identified	WA Failure	Photo year of Failure	U of O Airphoto Number	Debris Failure	Rotational Failure	Road Fill Related	Road Cut Related	Harvest Related	Road and Harvest Related	Unmanaged Ground	Managed Ground	Aspect
548	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	SW
549	-	-	-	1990	1590-66	Y	N	Y	N	N	Y	-	Y	W
550	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	E
551	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	E
552	-	Y	-	1990	1590-65	Y	N	N	N	N	N	Y	-	E
553	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	E
554	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	E
555	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	E
556	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	SW
557	-	Y	-	1990	-	Y	N	N	N	Y	N	-	Y	E
558	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	W
559	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	W
560	-	Y	-	1990	-	Y	N	N	N	Y	N	-	Y	W
561	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	E
562	-	-	-	1990	-	N	Y	N	N	N	N	Y	-	W
563	-	-	-	1990	-	N	Y	N	N	N	N	Y	-	N
564	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	NE
565	-	Y	-	1990	-	Y	N	Y	N	N	Y	-	Y	N
566	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
567	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
568	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
569	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	SE
570	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	SE
571	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	NW
572	-	Y	-	1990	-	N	Y	N	N	N	N	Y	-	NW
573	-	-	-	1990	-	Y	N	Y	N	N	Y	-	Y	W
574	-	-	-	1990	-	Y	N	N	N	Y	N	-	Y	E
575	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
576	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N
577	-	Y	-	1990	-	Y	N	N	N	N	N	Y	-	N

Table A41. Summary of Inventoried Landslides

Slope Failure Number	Subwater-shed	Road Number	Mile Post	Town-ship	Range	Section	1/4 section	Soil Category	SRI Mapping Unit	Affected Drainage	Harvest Unit Name	Comments
548	2	1835	-	19	3	9	NE	3	201	-		
549	2	-	-					3	201	Nevergo		
550	2	-	-	19	3	5	SE	3	21	Portland		
551	2	-	-	19	3	5	SE	3	8	Portland		
552	2	-	-	19	3	5	SE	3	8	Portland		
553	2	-	-	25	3	5	SE	3	8	Portland		
554	2	-	-	19	3	8	NE	3	8	Portland		
555	2	-	-	19	3	8	NE	3	201	Portland		
556	4	-	-	18	3	4	SE	3	201	Pernot		
557	2	-	-					1	25	Nevergo		
558	2	1825	-	19	3	20	NW	1	25	Nevergo		
559	2	1825	-	19	3	20	NW	1	25	Nevergo		
560	2	1825	-	19	3	20	NW	1	25	Nevergo		
561	2	1824	-	19	3	8	NW	3	201	Gales		
562	1	-	-	19	2	12	NW	4	212	Andy Trib		
563	4	-	-	18	2	13	SE	3	201	Alder Trib		
564	4	1828	-	18	2	13	SW	3	201	Zog Trib		
565	4	1828	-	18	2	12	SW	3	201	Zog Trib		
566	4	-	-	18	2	13	NE	3	201	Zog Trib		
567	4	-	-	18	2	13	NE	3	201	Zog Trib		
568	4	-	-	18	2	12	NW	3	201	Zog Trib		
569	4	1817	-	18	2	12	NW	3	201	Zog Trib		
570	4	1817	-	18	2	12	NW	3	201	Zog Trib		
571	1	1821	-	19	2	3	SE	1	255	Andy		
572	1	-	-	18	2	23	NW	3	201	Bedrock		
573	4	-	-	18	2	13	NW	3	201	Jones		
574	1	1816	-	18	2	33	NW	4	212	Timber		
575	2	-	-	19	3	30	NW	3	21	Nevergo		
576	2	-	-	19	3	30	NW	3	21	Nevergo		
577	2	-	-	19	3	30	NW	3	21	Nevergo		

APPENDIX B: WILDLIFE

APPENDIX B: WILDLIFE

Table B42. Northern Spotted Owl Reproductive History and Home Range Acres.

		MSNO	0084 (Matrix)	0528 (Matrix)	1008 (Matrix)	1015 (Matrix)	2860 (Matrix)	2862 (Matrix)	2866 (Matrix)	2868 (Matrix)	2883 (Matrix)
		Geographic Name	Nevergo Creek	BLM Site	Andy Creek 1	Slick Creek	Portland-Gales Creek	North Fork Fall CR.	Rubble Creek	Andy Creek	North Fk Fall Cr S.
REPRODUCTIVE HISTORY	YEARS	1970									
		1971									
		1972									
		1973			S						
		1974	S								
		1975									
		1976									
		1977									
		1978									
		1979									
		1980				S					
		1981				PU					
		1982				S					
		1983									
		1984									
		1985				PU					
		1986									
		1987				S (night resp.)					
		1988									
		1989			S	S	S	S	PU	PN1	S
		1990	PU		S	PU		PX	PX		PX
		1991	S			PN2	PU	S (night resp.)	PN2		PU
		1992			PX	S	S		PZ	PN2	PN1
		1993			PN1	S			PN2		
		1994			PN1	PU		S		PU	PU
		1995	PX		S (non-nesting)						
TAKE STATUS	.7 Mile Radius	<30%									
		30 - 40					X (392.85)	X (389.84)			
		40 - 50		X (438)					X (419.68)	X (406.09)	
		>50%	X (581.01)		X (616.47)	X (674.36)					X (661.94)
	1.2 Mile Radius	<30%		X (783)							
		30 - 40			X (1,146.78)		X (885.05)			X (993.45)	
		40 - 50	X (1,418.85)					X (1,434.42)	X (1,177.76)		
		>50%				X (1,755.44)					X (1,966.97)

Table B42. Northern Spotted Owl Reproductive History and Home Range Acres.

		MSNO	2887 (Matrix)	2890 (Matrix)	2892 (Matrix)	2894 (Matrix)	3548 (Matrix)	1012 (LSR)	1013 (LSR)	1016 (LSR)	1017 (LSR)
		Geographic Name	Gales Creek	Lower Rubble Creek	Boundary Creek	North Boundary	Lower Rubble	Zog Creek	Jones Creek	Marine Creek	Tiller-Ninemile Creek
REPRODUCTIVE HISTORY	YEARS	1970									
		1971									
		1972									
		1973									
		1974									
		1975									
		1976									
		1977									
		1978									
		1979									
		1980							S	PN1	PU
		1981						PU	PU	PU	PN1
		1982						PN1	PU		
		1983									
		1984									
		1985									
		1986							S		
		1987						PN2	PU		
		1988							S		
		1989						S	PN1		
		1990	PU	PX	PN1			PN2	S	S	PU
		1991		PX	PU	S	S		S		PU
		1992		PN2		PN2	PNU			PN1	S
		1993		PU	S	PX					
		1994			S	S		PN1			
		1995						S (night resp)			
TAKE STATUS	.7 Mile Radius	<30%									
		30 - 40			X (302.42)						
		40 - 50	X (434.21)	X (416.83)			X (443.97)				
		>50%				X (634.12)		X (728.21)	X (669.39)	X (654.90)	X (626.84)
	1.2 Mile Radius	<30%			X (653.57)						
		30 - 40									
		40 - 50	X (1,439.93)	X (1,439.01)		X (1,391.91)	X (1,394.16)				
		>50%						X (1,836.22)	X (1,906.67)	X (1,611.28)	X (1,766.82)

Table B42. Northern Spotted Owl Reproductive History and Home Range Acres.

		MSNO	1019 (LSR)	1020 (LSR)	1021 (LSR)	1022 (LSR)	1028 (LSR)	1029 (LSR)	1031 (LSR)	2858 (LSR)	2863 (LSR)
		Geographic Name	Gold Creek East	West Delp Creek	East Delp Creek	Buzzard Creek	Lower Logan Creek	Upper Logan Creek	Saturn/Briem Creeks	L.Logan Creek	Sunshine Creek
REPRODUCTIVE HISTORY	YEARS	1970									
		1971									
		1972									
		1973									
		1974									
		1975									
		1976									
		1977									
		1978									
		1979									
		1980	PU	PN2	PU	PU		PU			
		1981	PN1		PU	PU		PU	S	PU	
		1982			S	S		PU			
		1983									
		1984									
		1985									
		1986	S				PU				
		1987	PX		PU				S		
		1988					S				S
		1989	PX		PX		S	PN1	S	S	S
		1990	PN1	S	PN2	PU		PN1	S		PX
		1991		S	S	S	S	PX		PU	S
		1992		PN2	PN1	S	S		PN2		PN2
		1993			PU						PX
		1994									
		1995									
TAKE STATUS	.7 Mile Radius	<30%									
		30 - 40					X (338.57)			X (344.27)	
		40 - 50						X (467.43)			
		>50%	X (507.50)	X (664.88)	X (673.89)	X (613.84)			X (729.04)		X (555.66)
	1.2 Mile Radius	<30%									
		30 - 40								X (1,105.41)	
		40 - 50	X (1,409.94)				X (1447.17)				
		>50%		X (1,531.21)	X (1,639.08)	X (1,680.38)		X (1,449.56)	X (1,941.47)		X (1,771.97)

Table B42. Northern Spotted Owl Reproductive History and Home Range Acres.

		MSNO	2864 (LSR)	2865 (LSR)	2888 (LSR)	2891 (LSR)	2895 (LSR)	2897 (LSR)	2899 (LSR)	2900 (LSR)	3550 (LSR)
		Geographic Name	Lower Tiller Creek	Tiller Creek	Upper Pernot Creek	Upper Hehe Creek	North Delp Creek	Delp-Nehi Creek	Logan	Lower Ninemile Creek	Middle Delp Creek
REPRODUCTIVE HISTORY	YEARS	1970									
		1971									
		1972									
		1973									
		1974									
		1975									
		1976									
		1977									
		1978									
		1979									
		1980					PN1				
		1981									
		1982									
		1983									
		1984									
		1985									
		1986									
		1987									
		1988									
		1989	S	S							
		1990		PU	PX	PN1		PN1			
		1991						S	S	PX	
		1992	PNU				S			S	S
		1993	S				PX	PU		PU	
		1994					PNU			PU	
		1995									
TAKE STATUS	.7 Mile Radius	<30%									
		30 - 40									
		40 - 50				X (416.83)	X (484.21)		X (440.66)		X (483.54)
		>50%	X (588.96)	X (518.41)	X (724.07)			X (521.95)		X (679.44)	
	1.2 Mile Radius	<30%									
		30 - 40							X (961.82)		
		40 - 50				X (1,439.01)					
		>50%	X (1,543.22)	X (1,471.15)	X (1,758.40)		X (1,628.95)	X (1,449.25)		X (1,771.55)	X (1,645.75)

Table B42. Northern Spotted Owl Reproductive History and Home Range Acres.

		MSNO	4082 (LSR)	4084 (LSR)	7002
		Geographic Name	Putnarine	Saturn/Platt	West Nimrod Butte
REPRODUCTIVE HISTORY	YEARS	1970			
		1971			
		1972			
		1973			
		1974			
		1975			
		1976			
		1977			
		1978			
		1979			
		1980		S	
		1981			
		1982			
		1983			
		1984			
		1985			
		1986			
		1987			
		1988			
		1989			
		1990			
		1991			
		1992			
		1993	PN1	S	
		1994			
		1995			
TAKE STATUS	.7 Mile Radius	<30%			X (257.20)
		30 - 40			
		40 - 50			
		>50%	X (567.88)	X (681.81)	
	1.2 Mile Radius	<30%			X (723.18)
		30 - 40			
		40 - 50			
		>50%	X (1,531.63)	X (1,976.05)	

DEFINITIONS FOR REPRODUCTIVE HISTORY AND TAKE STATUS:

Reproductive History

Site Status P = Pair, S = Single, "blank" = unknown or not surveyed

Nesting Status N = Nesting, X = Non-nesting, U = Unknown nesting (either surveyed with unknown results or not surveyed), Z = Failed

Reproductive Status # = Number of young produced, U = Unknown

Take Status

Take is defined by USFWS as either 1) Less than 50% (500 ac.) suitable spotted owl habitat remaining within >7 mile home range radius of the activity center or 2) Less than 40% (1182 ac.) suitable spotted owl habitat remaining within 1.2 mile home range radius of the activity center

Table B43. USFWS Threatened, Endangered, Sensitive and Category 1 and 2 species.
ROD Survey and Manage (C-3) Species. Appendix J2 Species and Other Species of Concern.

Species (*scientific name*)	Status: Regional Foresters Sensitive Species List	Status: Federal Register Notice of Review	Status: ROD Table C-3 Survey and Manage Species (√)	Status: Appendix J2 Species of Concern (√√)
Amphibians and Reptiles				
Northern red legged frog (*Rana aurora aurora*)	S	C2		
Northwestern pond turtle (*Clemmys marmorata marmorata*)	S	C2		
Spotted frog (Western pop.) (*Rana pretiosa*)		C1		
Tailed frog (*Ascaphus truei*)		C2		√√
Foothill yellow-legged frog (*Rana boylii*)		C2		
Cascades frog (*Rana cascadae*)		C2		
Southern torrent (seep) salamander (*Rhycotriton variegatus*)		C2		√√
Cascade torrent (seep) salamander (*Rhycotriton cascadae*)				√√
Clouded salamander (*Aneides ferreus*)				√√
Oregon slender salamander (*Batrachoseps wrighti*)				√√
Birds				
American peregrine falcon (*Falco peregrinus anatum*)	S	E		
Northern bald eagle (*Haliaeetus leucocephalus*)	S	T		
Northern spotted owl (*Strix occidentalis caurina*)	S	T		
Ferruginous hawk (*Buteo regalis*)	S	C2		
Harlequin duck (*Histrionicus histrionicus*)	S	C2		
Northern goshawk (*Accipiter gentilus*)		C2		
Greater sandhill crane (*Grus canadensis*)	S			
Common merganser (*Mergus merganser*)				√√
Great gray owl (*Strix nebulosa nebulosa*) ROD species of concern w/ protect. buffer				
Mammals				
California wolverine (*Gulo gulo luteus*)	S	C2		
White footed vole (*Arborimus alpies*)	S	C2		
American marten (*Martes americana*)				√√

Table B43 *(cont.)*. USFWS Threatened, Endangered, Sensitive and Category 1 and 2 species.
ROD Survey and Manage (C-3) Species. Appendix J2 Species and Other Species of Concern.

Species (*scientific name*)	Status: Regional Foresters Sensitive Species List	Status: Federal Register Notice of Review	Status: ROD Table C-3 Survey and Manage Species (√)	Status: Appendix J2 Species of Concern (√√)
Pacific fisher (*Martes pennanti pacifica*)		C2		√√
Oregon red tree vole (*Phenacomys longicaudus*)			√	√√
Pacific western big-eared bat (*Plecotus townsendii townsendii*)	S	C2		
Long eared myotis (*Myotis evotis*)		C2		√√
Yuma bat (*Myotis yumanensis*)		C2		
Fringed myotis (*Myotis thysanodes*)		C2		√√
Long legged myotis (*Myotis volans*)		C2		√√
Hoary bat (*Lasiurus cinerus*)				√√
Silver haired bat (*Lasionycteris noctivagens*)				√√
Invertebrates				
Arthropods				
Beer's false water penny beetle (*Acneus beeri*)	S	C2		
Mt. Hood primitive brachycentrid caddisfly (*Eobrachycentrus gelidae*)	S	C2		
Tombstone prairie faralan caddisfly (*Farula reaperi*)	S	C2		
Fort Dick limnephilus caddisfly (*Limnephilus atercus*)	S	C2		
Tombstone Prairie oligophlebodes caddisfly (*Oligophlebodes mostbento*)	S	C2		
One-spot rhyacophilan caddisfly (*Rhyacophila unipunctata*)	S	C2		
Molluscs				
Prophysaon coeruleum			√	√√
Prophysaon dubium			√	√√

Total = 40 species

(S) = Species identified on the Regional Forester Sensitive species list

(√) = Survey and manage species identified in the ROD under table C-3

(√√) = Species of concern recognized in Appendix J2 of the ROD

Federal Register Notice of review classifications:

(E) = Endangered (T) = Threatened

(C1) = Category 1: Taxa for which the Fish and Wildlife Service has sufficient biological information to support a proposal to list as endangered or threatened.

(C2) = Category 2: Taxa for which existing information indicates may warrant listing, but for which substantial biological information to support a proposed rule is lacking.

IMPACTS OF ACTIVITIES WITHIN RIPARIAN RESERVES TO WILDLIFE SPECIES OF CONCERN, AS IDENTIFIED IN THE FSEIS ROD, 1994. COMMON MITIGATION TO ALL ACTIVITIES INCLUDES THE REQUIRED SURVEY AND MANAGE STRATEGY AS DESCRIBED IN THE ROD. THESE IMPACTS MAY VARY WITH SITE-SPECIFIC CONDITIONS. ALL WNF S&G'S APPLY.
This information is the result of a meeting between biologists and ecologists on the Willamette National Forest. The basis for the information is professional judgment. New information obtained on impacts may alter this table in the future.

KEY
D/N = SHORT TERM DELETERIOUS/LONG TERM NEUTRAL
U/N = SHORT TERM UNKNOWN/LONG TERM NEUTRAL
N/N/ = SHORT TERM NEUTRAL/LONG TERM NEUTRAL
D/B = SHORT TERM DELETERIOUS/LONG TERM BENEFICIAL
(-RLF) = ALL AMPHIBS EXCEPT RED LEGGED FROM
(-FM) = ALL BATS EXCEPT FRINGED MYOTIS

ACTIVITY	AFFECTS	MITIGATION	MITIGATION	ASSUMPTIONS /comm
SPECIAL FOREST PRODUCT COLLECTION	NEUTRAL - ALL	May need to reassess if any impacts id'd by botanists to mosses and lichens		1
SPRING FERTILIZATION (1/1-6/30)	U/N - MOLLUSKS D/N - AMPHIBS N/N - REST	no spray w/in 20' of open water		2,3,5,6,7,8,9 detrimental affect due to contact of preadults amphibs w/chemical
FALL FERTILIZATION (stands <20yrs) (10/1-12/31)	U/N- MOLLUSKS D/N - AMPHIBS (-RLF) N/N - REST	no spray w/in 20' of open water		2,3,6,7,8,9,10 detrimental affect due to contact of adults w/chemical
FALL FERTILIZATION (stands >20yrs) (10/1-12/31)	U/N - MOLLUSKS D/N - AMPHIBS N/N - REST	no spray w/in 20' of open water		2,3,5,6,7,8,9,10
PRE-COMMERCIAL THIN (<20yrs)	N/B MOLLUSKS AND RLF D/N AMPHIBS (-RLF) N/B STOC,GOSH,RTV, FM N/N BATS,MARTEN FISHER	25' no thin on >20% of stream miles w/in an individual project area or w/in each watershed for heterogeneity w./ stand (class 4) Also 25' no thin on all class 3. No heavy equipment w/in 25'		2,7,9,11,12,13, These forest stands is not primary habitat for frogs in the fall months
COMMERCIAL THIN (>20yrs)	N/B MOLLUSKS, RLF,RTV D/N AMPHIBS (-RLF) N/N BATS, MARTEN, FISHER	25' no thin on >20% of stream miles w/in an individual project area or w/in each watershed for heterogeneity w/in stand Also 25' no thin on all class 3. In RR, min conifer canopy closure of 50% (overhead)	Retain all existing snags and down logs in RR No heavy equipment w/in 25' Leave at least 2 trees per acre for LWD of the DBH class thinned.	3,9,11,12,13,14, CT can affect the number of small snags available for several decades after treatment

Table B44.

PRUNING (stands <25'ht)	D/N AMPHIBS (-RLF) NEUTRAL - REST	No heavy equipment w/in 20' No pruning w/in 25' of water. Beyond this 25' strip, no more than 30% of eligible trees to be pruned to outside edge of RR		3,15,16,
PRUNING (stands >25'ht)	NEUT - BATS (-FM) U/N - REST	same as above		3,15,16,
HIKING TRAIL CONSTRUCTION	D/N - AMPHIBS (-RLF) NEUTRAL - REST	minimize construction of trails w/in 25' of streams and minimize total miles and construction parallel to stream w/in RR		1,17,20,
HORSE/MTN BIKE TRAILS	SEE ABOVE	same as above		1,18,20,
SNOWMOBILE TRAILS, GROOMED XC SKI TRAILS	NEUTRAL - BATS (-FM) D/D MOLLUSKS, RLF, STOC, GOSH, RTV, FM, MARTEN, FISHER D/N - AMPHIBS (-RLF)	same as above Leave all trees felled during construction on site		1,19,20,
FIREWOOD OR BLOWDOWN REMOVAL	D/N - AMPHIBS (-RLF) NEUTRAL - REST	leave 500 lineal feet/acre; >20"dbh, <20' minimum piece length; or largest available		21
REGENERATION HARVEST	D/N AMPHIBS (-RLF) B/B - FM, MARTEN, FISHER NEUTRAL - REST	Done only for the purpose of maintaining meadows		2,9,22
UNDERSTORY BURNING (spring, ie before May)	N/B MOLLUSKS, RLF, STOC, GOSH, RTV, MARTEN, FISHER D/N - AMHIBS (-RLF) N/N - BATS (-FM) D/B - FM	Burn early		23
HAZARD TREE REMOVAL	N/N - RTV, MARTEN, FISHER, MOLLUSCS, TF, STOC, GOSH D/N - BATS B/B - AMPHIBS (-TF)	Leave felled hazard trees on site except within road prism and areas where trees impede normal function of admin site	Leave at least 240 lineal feet/acre; >20" dbh, >20' minimum piece length or largest available in forested areas with potential to provide habitat	24
MINING CLAIMS (Commercial)	D/D - ALL			
RIPARIAN PLANTING	N/B - ALL			
SNAG CREATION	N/B - ALL			26

BROWSE CUTBACK	N/N - ALL			27
LWD PLACEMENT AND ENHANCEMENT	B/B	If falling trees or topping to create/obtain material, no overhead reduction in conifer canopy closure will occur		
INSTREAM PLACEMENT OF ROCK	D/B - RLF, CSS, TF N/B - MARTEN, FISHER N/N - REST			
ROAD CONSTRUCTION/RE-CONSTRUCTION	D/D - ALL			
ROAD DECOMMISSIONING	N/B			
ROADSIDE BRUSHING	N/N			24
BIG GAME FORAGE SEEDING (Non-native seed)	D/D - MARTEN, FISHER, STOC, GOSH N/N -REST	Reassess if botanists id potential impacts to lichens and bryophytes		28
PUMP CHANCE CREATION	N/N			29

SPECIES: MOLLUSKS = P.COERULEON & P.DUBIUM
RLF = RED LEGGED FROG
OSS = OREGON SLENDER SALAMANDER
TF = TAILED FROG
CS = CLOUDED SALAMANDER
STOC = SPOTTED OWL
GOSH = GOSHAWK
RTV = RED TREE VOLE
FM = FRINGED MYOTIS
HB = HOARY BAT
LEM = LONG EARED MYOTIS
LLM = LONG LEGGED MYOTIS
SHB = SILVER HAIRED BAT
PB = PALLID BAT
MARTEN
FISHER

ASSUMPTIONS:

1. Assumed all stand conditions/ages included, including LSOG forest habitat.
2. Assumed stand condition/age to which activity is applied is <20 years (open canopy).
3. Assumed stand condition/age to which activity is applied is >20 (closed canopy) and <80 years (not yet mature forest structure).
4. No special forest product harvest within any LSR or protection buffer.
5. Impacts to eggs and larvae are a primary concern during this season.
6. Fertilizer as applied normally can have a detrimental effect on adults when they directly contact the chemical.
7. These species are not commonly found in stands <20 years (open canopy stands)
8. Fertilizer as applied normally does not have a detrimental effect on prey species (insects, rodents, etc.)
9. Forested stands <80 years old (not yet mature forest structure) is not optimal habitat for activities during the breeding season.
10. Impacts to eggs and larvae are not a concern during this season.
11. During PCT operations, most of the shrubs will remain intact.
12. During PCT operations, leave shear banks unthinned.
13. The intent of the management activity is to promote old growth forest structure.
14. In forest stands regenerated by fire, PCT may not have occurred.
15. Pruning is limited to 25-30% of total trees occurring in a 30' radius.
16. Pruning in stands with trees <25' height will decrease canopy closure; otherwise not.
17. Hiking trials minimize removal of trees and understory vegetation; they also create narrow corridors through forests.
18. Horse and mountain bike trails are wider than hiking trails and narrow than snowmobile trails.
19. Snowmobile trails remove more trees and understory vegetation and create road-width corridors through forests.
20. Effects of trail construction considers only effects on wildlife habitat and not wildlife disturbance potential.
21. Assume LSR guidelines for salvage apply to riparian reserves (C-14-16); canopy closure must be <40% for salvage to occur, therefore salvage will not reduce existing canopy closure.
22. Purpose is to maintain special habitats such as meadows (generally <5 acres)
23. Light, spring burn which leaves duff and reduces fuels.
24. Areas such as road sides, campsites, admin sites are not optimal habitat.
25. Commercial mining claims remove patches of forest, create ponds, and affect subsurface water quality.
26. Most snag creation will occur in open stand conditions (plantations) that will not be habitat for most species considered.
27. Some understory vegetation removed in local areas.
28. Non-native grass seed is not as high quality food to granivores and herbivores as are native grasses and forbs that they replace (indirect effect to predators)
29. Localized impacts expected but not expected to affect many individuals or to last for more than a day or two.

Appendix C: Recreation

Appendix C: Recreation

Figure C25. Tent Sites per Dispersed Site

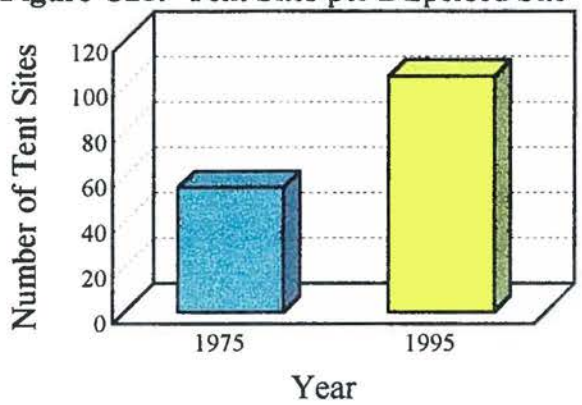

Figure C26. Number of Vehicles per Site

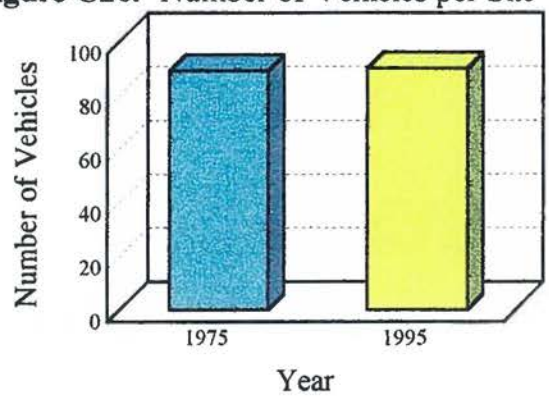

Figure C27. Number of Sites Occupied

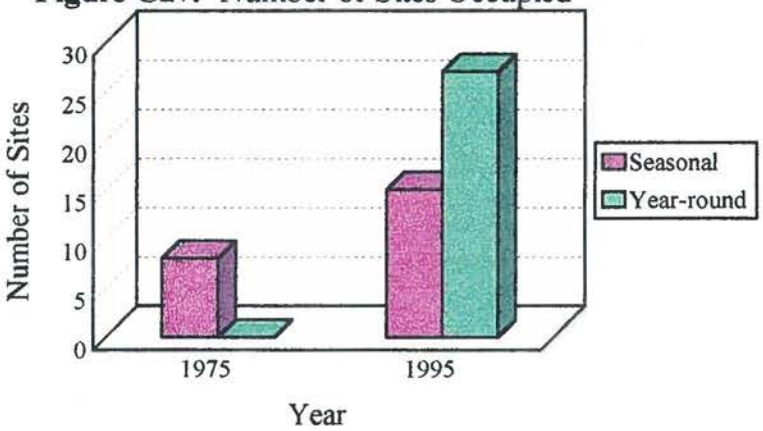

Figure C28. Site Capacity (PAOTs)

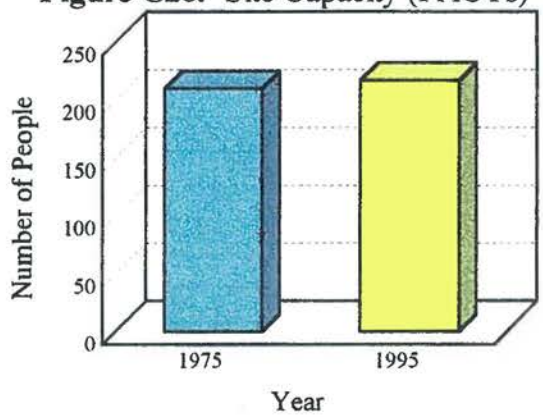

Figure C29. Use Level per Dispersed Site

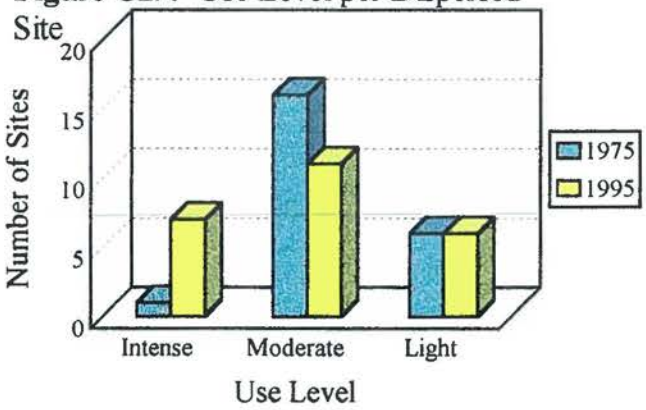

Figure C30. Frequency of Use

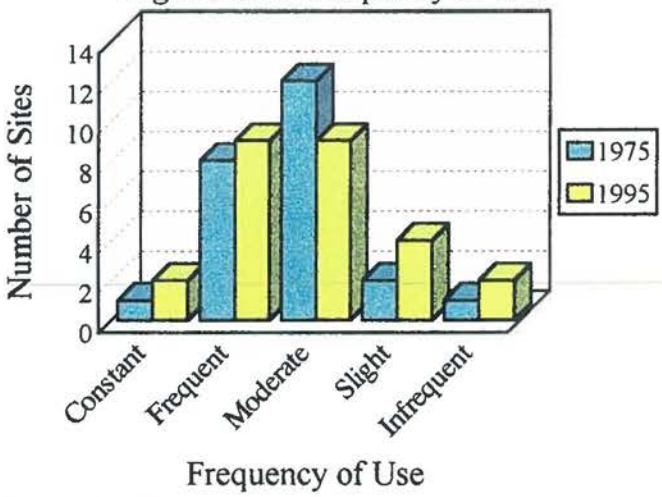
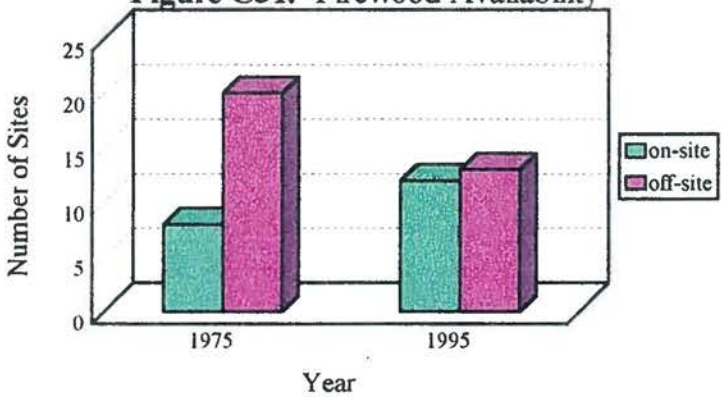
Figure C31. Firewood Availability