Appendix H
1930s and Existing Vegetation Size Class, Cover Type, and Tree Canopy by Subwatershed

These tables display the composition of the watershed in the 1930s and 1990s by subwatershed. The 1930s vegetation cover was developed from aerial photo interpretation. The 1990s cover was developed from remote sensed data, and corrected using stand exam data. The intent of this comparison is not to use one picture of the historical landscape as an objective, but to interpret that picture in terms of the setting and disturbance processes that shape plant communities in the landscape. Data are displayed by subwatershed to provide a rationale for management themes and project proposals. It is usually not appropriate to define rigorous objectives for proportion of plant community types and stages at this fine a scale, because the scae of disturbance processes may be larger than the subwatershed.

Lower Slate Canyon			
Size Class	**1930s acres**	**1991 acres**	**Percent Change**
Nonforest	3,549	3,380	-5
Seedling/sapling	91	240	+164
Pole (5-9 inches)	217	0	-
9-21 inch	898	1,060	+18
21+ inch	138	213	+54

Cover Type	1930s acres	1991 acres	Percent Change
Agriculture	18	9	-50
Barren land	0	137	+
Lodgepole pine	0	6	+
Mixed conifer	258	51	-80
Ponderosa pine / Douglas-fir	1,009	1457	+44
Foothills Grassland	2,666	433	-84
Disturbed Grassland	0	1,623	+
Shrub	865	1,180	+36
Riparian Hardwoods	78	0	-

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	2,669	2,201	-18
Low	587	1,175	+100
Moderate	1,415	1,503	+6

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
High	193	0	-

Main Slate Canyon			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	3,170	2,142	-32
Seedling/sapling	6,148	2,266	-63
Pole (5-9 inches)	1,775	1,929	+9
9-21 inch	4,366	8,558	+96
21+ inch	2,858	3,393	+19

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	187	+
Barren land	409	360	-12
Whitebark pine	0	28	+
Spruce/fir	1,139	678	-40
Lodgepole pine	553	292	-49
Mixed conifer	6,904	7,473	+8
Ponderosa pine / Douglas-fir	6,544	7,702	+18
Montane park	118	20	-83
Foothills grassland	2,391	565	-76
Disturbed Grassland	0	564	+
Shrub	231	444	+92
Riparian Hardwoods	8	0	-

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	2,918	1,697	-42
Low	3,793	2,071	-45
Moderate	10,077	10,075	-.02
High	1,529	4,474	+193

Old Growth	1930s acres	1991 acres	Likely Trend
Engelmann spruce/subalpine fir	NA	26	Increase
Mixed conifer	NA	1,543	Increase
Ponderosa pine/Douglas-fir	NA	3,057	DF increase, PP decrease

Little Van Buren Creek			
Size Class	**1930s acres**	**1991 acres**	**Percent Change**
Nonforest	283	125	-56
Seedling/sapling	504	192	-62
Pole (5-9 inches)	1,427	958	-33
9-21 inch	725	1,709	+136
21+ inch	369	624	+69

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	15	+
Barren land	0	4	+
Whitebark pine	11	10	-9
Spruce/fir	1,062	834	-21
Lodgepole pine	159	43	-73
Mixed conifer	1,809	1,614	-11
Ponderosa pine / Douglas-fir	284	982	+246
Montane park	133	6	-95
Foothills grassland	150	0	-
Shrub	0	9	+

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	293	116	-60
Low	236	147	-38
Moderate	2,669	1,686	-37
High	420	1,659	+295

Old Growth	1930s acres	1991 acres	Likely Trend
Ponderosa pine/Douglas-fir	NA	336	DF increase, PP decrease
Engelmann spruce/subalpine fir	NA	117	Increase
Mixed conifer	NA	314	Increase

Deadhorse Creek			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	465	201	-57
Seedling/sapling	2,546	548	-78
Pole (5-9 inches)	286	738	+158
9-21 inch	189	1,955	+934
21+ inch	283	310	10

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	58	+
Barren land	0	32	+
Whitebark pine	398	74	-81
Spruce/fir	1,037	907	-13
Lodgepole pine	126	333	+164
Mixed conifer	1,214	1,624	+34
Ponderosa pine / Douglas-fir	527	583	+11
Montane park	420	7	-98
Foothills grassland	45	13	-71
Shrub	0	108	+

Canopy Cover	1930s acres	1991 acres	Percent Change
None	465	109	-77
Low	282	420	+49
Moderate	2,524	2,297	-9
High	497	942	+89

Old Growth	1930s acres	1991 acres	Likely Trend
Engelmann spruce/subalpine fir	NA	186	Increase
Ponderosa pine/Douglas-fir	NA	65	DF increase, PP decrease
Mixed conifer	NA	21	Increase

North Fork Slate Creek			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	854	606	-29
Seedling/sapling	3,167	1,690	-47
Pole (5-9 inches)	1,226	737	-40

North Fork Slate Creek			
9-21 inch	2,462	3,590	+46
21+ inch	682	1,769	+159

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	204	+
Barren land	77	0	-
Spruce/fir	1,485	377	-74
Lodgepole pine	726	934	+29
Mixed conifer	3,773	4,014	+6
Ponderosa pine / Douglas-fir	1,538	2,462	+60
Montane park	75	48	-36
Foothills grassland	360	137	-62
Shrub	250	211	-16
Wet meadows	92	6	-93
Riparian forest	15	0	-

Canopy Cover	1930s acres	1991 acres	Percent Change
None	604	395	-35
Low	1,351	504	-63
Moderate	5,649	6,161	+9
High	786	1,331	+69

Old Growth	1930s acres	1991 acres	Likely Trend
Lodgepole pine	NA	112	Increase
Ponderosa pine/Douglas-fir	NA	867	DF Increase, PP decrease
Mixed conifer	NA	2,890	Increase

Upper Main Slate Creek			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	2,120	1,329	-37
Seedling/sapling	3,537	633	-82
Pole (5-9 inches)	4,139	739	-82
9-21 inch	406	6,050	+1,390
21+ inch	417	1,868	+348

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	58	+
Barren land	157	195	+24
Whitebark pine	1,272	152	-88
Spruce/fir	4,270	3,799	-11
Lodgepole pine	488	1,630	+234
Mixed conifer	1,558	3,326	+113
Ponderosa pine / Douglas-fir	911	384	-58
Montane park	1,729	414	-76
Foothills grassland	127	13	-90
Agriculture	2	0	-
Shrub	32	636	+1,888
Wet meadows	63	0	-

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	2,088	693	-67
Low	1,714	2,497	+46
Moderate	6,428	5,275	-18
High	390	2,155	+452

Old Growth	1930s acres	1991 acres	Likely Trend
Whitebark pine	NA	10	Decrease
Engelmann spruce/subalpine fir	NA	1,198	Increase
Lodgepole pine	NA	42	Increase
Ponderosa pine	NA	170	DF increase, PP decrease
Mixed conifer	NA	122	Increase

Boulder Creek			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	172	328	+91
Seedling/sapling	2,244	180	-92
Pole (5-9 inches)	4,997	169	-97
9-21 inch	1,434	8,076	+463

Boulder Creek			
21+ inch	48	142	+196

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	187	+
Barren land	10	12	+20
Whitebark pine	798	74	-91
Spruce/fir	5,481	6,143	+12
Lodgepole pine	1,750	1,643	-6
Mixed conifer	611	705	+15
Ponderosa pine / Douglas-fir	66	3	-95
Montane park	90	55	-39
Foothills grassland	12	0	-
Shrub	0	59	+
Riparian Forest	17	0	-
Sedge	59	0	-

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	172	269	+56
Low	1,281	1,537	+20
Moderate	6,642	6,943	+5
High	800	146	-82

Old Growth	1930s acres	1991 acres	Likely Trend
Engelmann spruce/subalpine fir	NA	2,537	Increase
Lodgepole pine	NA	134	Increase
Ponderosa pine	NA	14	DF increase, PP decrease
Mixed conifer	NA	105	Increase

Little Slate Creek			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	655	1,808	+176
Seedling/sapling	6,263	1,419	-77
Pole (5-9 inches)	7,713	771	-90
9-21 inch	4,776	15,129	+217
21+ inch	758	1,038	+37

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	816	+
Barren land	60	112	+87
Whitebark pine	0	95	+
Spruce/fir	5,315	5,319	+.07
Lodgepole pine	10,784	7,499	-30
Mixed conifer	2,770	5,444	+97
Ponderosa pine / Douglas-fir	638	0	-
Montane park	102	721	+607
Foothills grassland	67	0	-
Shrub	9	658	+7,211
Wet meadows	0	48	+
Riparian forest	3	0	-
Agriculture	1	0	-
Sedge	415	0	-

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	646	1,150	+78
Low	2,070	3,197	+54
Moderate	12,324	14,300	+16
High	5,124	1,518	-70

Old Growth	1930s acres	1991 acres	Likely Trend
Lodgepole pine	NA	3,730	Increase
Mixed conifer	NA	1,788	Increase

Van Buren Creek			
Size Class	1930s acres	1991 acres	Percent Change
Nonforest	201	241	+20
Seedling/sapling	1,632	138	-92
Pole (5-9 inches)	2,275	1,213	-47
9-21 inch	1,031	3,507	+240
21+ inch	136	176	+29

Cover Type	1930s acres	1991 acres	Percent Change
Herbaceous clearcut	0	41	+
Barren land	0	16	+

Cover Type	1930s acres	1991 acres	Percent Change
Whitebark pine	1,251	395	-68
Spruce/fir	1,860	2,580	+39
Lodgepole pine	838	668	-20
Mixed conifer	1,117	1,384	+24
Ponderosa pine / Douglas-fir	8	6	-25
Montane park	167	66	-60
Foothills grassland	8	0	-
Shrub	0	109	+
Wet meadows	22	0	-

Tree Canopy Cover	1930s acres	1991 acres	Percent Change
None	201	132	-34
Low	918	589	-36
Moderate	3,338	3,214	-4
High	818	1,339	+64

Old Growth	1930s acres	1991 acres	Likely Trend
Whitebark pine	NA	54	Decrease
Engelmann spruce/subalpine fir	NA	1,146	Increase
Lodgepole pine	NA	24	Increase
Mixed conifer	NA	134	Increase