

APPENDIX J
EXISTING VEGETATION BY VRU
FOR THE ENTIRE SUBBASIN

The tables on the following pages display the composition of the watershed in the 1990s by Vegetation Response Unit. The 1990s cover was developed from remote sensed data and stand polygons. Accuracy is not more than moderate, especially for the large tree size class in the lower Selway. The purpose of this table is to summarize existing vegetation over the entire subbasin to establish context for the comparison of existing and 1930s vegetation in the subsampled areas (Three Links, Middle Fork, and Whitecap). Data are displayed by VRU to provide an understanding of how vegetation composition and structure occur in these ecological settings .

EXISTING VEGETATION BY VRU

VRU 1: Convex Slopes, Subalpine Fir and Grand Fir Habitat Types

Size Class	1991 Acres	Percent of VRU
Nonforest	2,951	2%
Seedling/Sapling	4,034	3%
Pole (5-9 inches)	45,273	31%
9-21 inches	86,883	60%
21+ inches	5,354	4%

Cover Type	1991 Acres	Percent of VRU
Herbaceous clearcut	29	<1%
Barren land/rock/water	224	<1%
Recent burn	16	<1%
Whitebark pine	63	<1%
Spruce/fir	71,233	49%
Lodgepole pine	39,743	28%
Mixed conifer	30,055	21%
Ponderosa pine/Douglas-fir	432	<1%
Montane park	1,196	1%
Mesic shrub	72	<1%
Cold shrub	1,138	1%
Broadleaf forest	6	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	17,449	12%
Moderate	71,599	50%
High	52,417	36%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Engelmann Spruce and Subalpine Fir	7,946	6%
Lodgepole pine	3,777	3%
Whitebark pine	125	<1%
Mixed conifer	4,279	3%

VRU 2: Glaciated slopes, subalpine fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	91,316	19%
Seedling/Sapling	37,528	8%
Pole (5-9 inches)	109,786	22%
9-21 inches	233,275	47%
21+ inches	19,222	4%

Cover Type	1991 Acres	Percent of VRU
Herbaceous clearcut	325	<1%
Barren land/rock/water	19,779	4%
Recent burn	263	<1%
Whitebark pine	3,332	1%
Spruce/fir	185,187	38%
Lodgepole pine	105,578	21%
Mixed conifer	100,647	20%
Ponderosa pine/Douglas-fir	4,857	1%
Montane park	35,642	7%
Mesic shrub	8,256	2%
Cold shrub	26,636	5%
Broadleaf forest	273	<1%
Riparian Shrub	110	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	117,502	24%
Moderate	171,515	35%
High	85,564	17%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Engelmann Spruce and Subalpine Fir	25,344	5%
Lodgepole pine	16,678	4%
Whitebark pine	92	<1%
Mixed conifer	8,946	2%

VRU 3: Stream breaklands, Douglas-fir and grand fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	78,946	16%
Seedling/Sapling	32,756	7%
Pole (5-9 inches)	69,653	14%
9-21 inches	150,504	31%
21+ inches	53,511	11%

Cover Type	1991 Acres	Percent of VRU
Agricultural or residential	311	<1%
Herbaceous clearcut	134	<1%
Barren land/rock/water	5,457	1%
Recent burn	293	<1%
Whitebark pine	5	<1%
Spruce/fir	35,941	7%
Lodgepole pine	40,920	8%
Mixed conifer	176,439	36%
Ponderosa pine/Douglas-fir	52,108	11%
Montane park	3,434	1%
Foothills grassland	19,606	4%
Disturbed grassland	242	<1%
Mesic shrub	41,712	9%
Cold shrub	7,198	1%
Broadleaf forest	1,009	<1
Riparian Shrub	216	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	62,451	13%
Moderate	133,637	28%
High	109,019	22%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Engelmann Spruce and Subalpine Fir	5,556	2%
Lodgepole pine	6,482	2%
Ponderosa pine and Douglas-fir	13,718	4%
Mixed conifer	27,000	7%

VRU 4: Low elevation uplands, grand fir and Douglas-fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	10,728	37%
Seedling/Sapling	9,410	32%
Pole (5-9 inches)	1,909	7%
9-21 inches	3,348	11%
21+ inches	3,883	13%

Cover Type	1991 Acres	Percent of VRU
Farmland	2,156	7%
Barren land/rock/water	587	2%
Mixed conifer	14,487	49%
Ponderosa pine/Douglas-fir	4,053	14%
Montane park	18	<1%
Foothills grassland	6,684	23%
Mesic shrub	1,283	4%
Broadleaf forest	8	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	1,341	5%
Moderate	13,043	45%
High	4,166	14%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Mixed conifer	12	<1%

VRU 6: Cold basins, grand fir and subalpine fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	1,299	9%
Seedling/Sapling	1,535	11%
Pole (5-9 inches)	3,424	24%
9-21 inches	5,156	36%
21+ inches	2,789	20%

Cover Type	1991 Acres	Percent of VRU
Whitebark pine	445	3%
Spruce/fir	1,695	12%
Lodgepole pine	2,958	21%
Mixed conifer	7,503	53%
Ponderosa pine/Douglas-fir	303	2%
Montane park	24	<1%
Mesic shrub	1,050	7%
Cold shrub	97	1%
Riparian Shrub	89	1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	1,210	9%
Moderate	6,792	48%
High	4,814	34%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
White bark pine	35	<1%
Engelmann Spruce and Subalpine Fir	206	1%
Lodgepole pine	107	1%
Ponderosa pine and Douglas-fir	36	<1%
Mixed conifer	799	6%

VRU 7: Moist uplands, grand fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	582	9%
Seedling/Sapling	401	6%
Pole (5-9 inches)	907	14%
9-21 inches	3,569	54%
21+ inches	1,468	22%

Cover Type	1991 Acres	Percent of VRU
Herbaceous clearcut	211	3%
Spruce/fir	106	2%
Lodgepole pine	937	14%
Mixed conifer	5,310	77%
Ponderosa pine/Douglas-fir	82	1%
Mesic shrub	174	3%
Cold shrub	91	1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	791	11%
Moderate	1,435	21%
High	2,576	37%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Engelmann Spruce and Subalpine Fir	12	<1%
Lodgepole pine	127	1%
Mixed conifer	1,113	5%

EXISTING VEGETATION BY VRU

VRU 8: Breaklands, cedar and grand fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	22,032	14%
Seedling/Sapling	10,951	7%
Pole (5-9 inches)	14,913	9%
9-21 inches	65,685	41%
21+ inches	46,165	29%

Cover Type	1991 Acres	Percent of VRU
Herbaceous clearcut	939	1%
Barren land/rock/water	620	<1%
Broadleaf forest	904	1%
Whitebark pine	82	<1%
Spruce/fir	1,338	1%
Lodgepole pine	3,633	2%
Mixed conifer	117,718	74%
Ponderosa pine/Douglas-fir	14,049	9%
Montane park	115	<1%
Foothills grassland	724	<1%
Mesic shrub	16,063	10%
Cold shrub	2,542	2%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	14,557	9%
Moderate	55,355	35%
High	67,375	42%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Engelmann Spruce and Subalpine Fir	97	<1%
Lodgepole pine	194	<1%
Ponderosa pine and Douglas-fir	1,803	1%
Mixed conifer	17,332	12%

VRU 9: High elevation ridges, whitebark pine and subalpine fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	46,571	50%
Seedling/Sapling	4,701	5%
Pole (5-9 inches)	5,678	6%
9-21 inches	35,518	38%
21+ inches	334	<1%

Cover Type	1991 Acres	Percent of VRU
Barren land/rock/water	19,633	21%
Recent burn	96	<1%
Whitebark pine	1,250	1%
Spruce/fir	30,877	33%
Lodgepole pine	11,088	12%
Mixed conifer	3,004	3%
Ponderosa pine/Douglas-fir	12	<1%
Montane park	18,951	20%
Foothills grassland	54	<1%
Mesic shrub	16	<1%
Cold shrub	8,206	9%
Alpine scrub	233	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	32,184	34%
Moderate	11,945	13%
High	2,003	2%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Whitebark pine	35	<1%
Engelmann Spruce and Subalpine Fir	2,352	3%
Lodgepole pine	765	1%
Ponderosa pine and Douglas-fir	2	<1%
Mixed conifer	213	<1%

EXISTING VEGETATION BY VRU

VRU 10: Moist uplands , grand fir and alder

Size Class	1991 Acres	Percent of VRU
Nonforest	10,972	22%
Seedling/Sapling	772	2%
Pole (5-9 inches)	3,960	8%
9-21 inches	21,909	44%
21+ inches	12,016	24%

Cover Type	1991 Acres	Percent of VRU
Herbaceous clearcut	289	1%
Whitebark pine	11	<1%
Spruce/fir	3,700	7%
Lodgepole pine	2,401	5%
Mixed conifer	32,400	65%
Ponderosa pine/Douglas-fir	213	1%
Mesic shrub	2,674	5%
Cold shrub	7,749	16%
Riparian shrub and graminoid	61	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	12,791	33%
Moderate	17,490	45%
High	8,323	22%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Whitebark pine	1	<1%
Engelmann Spruce and Subalpine Fir	569	1%
Lodgepole pine	73	<1%
Ponderosa pine and Douglas-fir	27	<1%
Mixed conifer	9,634	19%

VRU 12: Breaklands, Bunchgrass Habitat Types

Size Class	1991 Acres	Percent of VRU
Nonforest	6,479	59%
Seedling/Sapling	2,567	23%
Pole (5-9 inches)	208	2%
9-21 inches	516	5%
21+ inches	1,235	11%

Cover Type	1991 Acres	Percent of VRU
Agriculture	18	<1%
Barren land/rock/water	1,295	12%
Mixed conifer	3,481	32%
Ponderosa pine/Douglas-fir	1,044	9%
Foothills grassland	3,421 (less)	31%
Disturbed grassland	21 (more)	<1%
Mesic shrub	1,724	16%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	695	6%
Moderate	3,828	35%
High	3	<1%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Ponderosa pine and Douglas-fir	32	2%
Mixed conifer	25	2%

EXISTING VEGETATION BY VRU

VRU ??: WHICH VRU IS THIS

Size Class	1991 Acres	Percent of VRU
Nonforest	243	81%
Seedling/Sapling	44	15%
Pole (5-9 inches)	0	None
9-21 inches	2	1%
21+ inches	10	3%

Cover Type	1991 Acres	Percent of VRU
Agriculture	138	46%
Mixed conifer	51	17%
Ponderosa pine/Douglas-fir	5	2%
Foothills grassland	104	35%
Mesic shrub	1	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	0	None
Moderate	56	19%
High	0	None

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Ponderosa pine and Douglas-fir	0	None

VRU 17: Moist uplands, cedar and grand fir habitat types

Size Class	1991 Acres	Percent of VRU
Nonforest	6,696	18%
Seedling/Sapling	3,942	11%
Pole (5-9 inches)	3,726	10%
9-21 inches	8,914	24%
21+ inches	13,386	37%

Cover Type	1991 Acres	Percent of VRU
Herbaceous clearcut	773	2%
Barren land/rock/water	46	<1%
Lodgepole pine	27	<1%
Mixed conifer	28,742	81%
Ponderosa pine/Douglas-fir	911	3%
Foothills grassland	75	<1
Mesic shrub	3,590	10%
Cold shrub	1,290	4%
Broadleaf forest	2	<1%
Riparian Shrub and	23	<1%

Tree Canopy Cover	1991 Acres	Percent of VRU ¹
Low	7,619	21%
Moderate	9,177	26%
High	12,914	36%

¹ Note: The sum may be less than 100%, since not all acres in the VRU have forest cover

Old Growth	1991 Acres	Percent of Potential Forested VRU on USFS Managed lands
Engelmann Spruce and Subalpine Fir	1	<1%
Lodgepole pine	2	<1%
Ponderosa pine and Douglas-fir	50	<1%
Mixed conifer	5,928	17%