

Appendix J Archaeological Sites Potentially Affected by Fire Severity and Fire Actions and Responses

This appendix is provided for comparative purposes. Potentially affected archeological sites are estimates, in that there is no way to predict where a fire will start, how much and where fire severity may occur, which archeological sites may be in different fire severity categories, and how that level of fire severity may affect cultural resources. This information is intended to offer general numbers of archeological sites that may be affected during planned and unplanned fire actions and responses.

Identified mitigation measures will be applied during planned projects (manual/mechanical fuel reduction, prescribed burns) and will likely be successful; these mitigation measures will be applied as possible during unplanned actions and responses (wildland fire use, wildland fire suppression), and may or may not be successful. Tables found in this appendix represent potential numbers of archeological sites without consideration of mitigation measures.

J.1 Alternative 1 No Action, Exiting Program

Table J-1 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 1, by Severity and Vegetation Type

Alternative 1, No Action, Existing Program					
	Spruce-Fir	Mixed-Conifer	Ponderosa Pine	Piñon-Juniper	Total
<i>Unburned</i>	8	47	375	291	721
<i>Low</i>	12	62	1807	360	2240
<i>Moderate</i>	45	142	991	287	1466
<i>Hi</i>	20	28	62	25	136
<i>Total</i>	86	279	3235	963	4564

Table J-2 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 1, by Severity and Treatment Type

Alternative 1, No Action (Existing Program)					
	Prescription Fire	Wildland Fire Use	Suppression	Mechanical/Manual	Total
<i>Unburned</i>	509	144	35	33	721
<i>Low</i>	1058	1068	114		2240
<i>Moderate</i>	614	623	229		1466
<i>Hi</i>	84	21	32		136
<i>Total</i>	2265	1856	410		4564

Table J-3 Estimated Number of Sites that could be Affected By Fire or Fire Management Activities Alternative 1 Over the Life of the Plan By Treatment Type

	Thinning	Prescribed Fire	Wildland Fire Use	Suppression	Total
Number of sites potentially affected	33	2,265	1,856	410	4,564
Number of fire sensitive sites potentially affected (12% of sites)	4	272	223	49	548

J.2 Alternative 2 Mixed Fire Treatment Program, Preferred Alternative

Table J-4 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 2, by Severity and Vegetation Type

Alternative 2					
	Spruce-Fir	Mixed-Conifer	Ponderosa Pine	Piñon-Juniper	Total
<i>Unburned</i>	8	49	440	376	874
<i>Low</i>	12	92	1807	360	2271
<i>Moderate</i>	45	181	991	287	1504
<i>Hi</i>	20	35	62	25	143
<i>Total</i>	86	358	3300	1049	4792

Table J-5 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 2, by Severity and Treatment Type

Alternative 2					
	<i>Prescribed Fire</i>	<i>Wildland Fire Use</i>	<i>Suppression</i>	<i>Mechanical/Manual</i>	<i>Total</i>
<i>Unburned</i>	509	146	35	183	874
<i>Low</i>	1058	1098	114		2271
<i>Moderate</i>	614	662	229		1504
<i>Hi</i>	84	28	32		143
<i>Total</i>	2265	1935	410		4792

Table J-6 Estimated Number of Sites Potentially Affected by Alternative 2 Over the Life of the Plan By Treatment Type

	Thinning	Prescribed Fire	Wildland Fire Use	Suppression	Total
Estimated number of sites potentially affected	183	2,265	1,935	410	4,792
Estimated number of fire sensitive sites potentially affected (12% of sites)	22	272	232	49	515

J.3 Alternative 3 Non-Fire Treatment Emphasis

Table J-7 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 3, by Severity and Vegetation Type

Alternative 3					
	Spruce- Fir	Mixed-Conifer	Ponderosa Pine	Piñon-Juniper	Total
<i>Unburned</i>	8	18	251	368	645
<i>Low</i>	12	26	718	246	1002
<i>Moderate</i>	52	65	406	254	776
<i>Hi</i>	25	13	31	18	87
<i>Total</i>	97	122	1406	885	2510

Table J-8 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 3, by Severity and Treatment Type

Alternative 3					
	<i>Prescribed Fire</i>	<i>Wildland Fire Use</i>	<i>Suppression</i>	<i>Mechanical/Manual</i>	<i>Total</i>
<i>Unburned</i>	283	39	46	278	645
<i>Low</i>	571	283	148		1002
<i>Moderate</i>	300	179	297		776
<i>Hi</i>	40	5	41		87
<i>Total</i>	1194	505	532		2510

Table J-9 Alternative 3, Estimated Number of Sites Potentially Affected Over the Life of the Plan By Treatment Type

	Thinning	Prescribed Fire	Wildland Fire Use	Suppression	Total
Number of sites affected	278	1,194	505	532	2,510
Number of Fire Sensitive Sites Affected (12% of sites)	33	143	61	64	301

J.4 Alternative 4 Prescribed Fire Emphasis

Table J-10 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 4, by Severity and Vegetation Type

Alternative 4					
	<i>Spruce-Fir</i>	<i>Mixed-Conifer</i>	<i>Ponderosa Pine</i>	<i>Piñon-Juniper</i>	<i>Total</i>
<i>Unburned</i>	11	51	362	874	1298
<i>Low</i>	15	58	1163	1104	2341
<i>Moderate</i>	58	145	675	498	1,376
<i>Hi</i>	25	29	61	73	188
<i>Total</i>	110	283	2261	2549	5203

Table J-11 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 4, by Severity and Treatment Type

Alternative 4					
	<i>Prescription Fire</i>	<i>Wildland Fire Use</i>	<i>Suppression</i>	<i>Mechanical/Manual</i>	<i>Total</i>
<i>Unburned</i>	1153	25	43	78	1298
<i>Low</i>	2020	184	137		2341
<i>Moderate</i>	974	127	275		1,376
<i>Hi</i>	146	4	38		188
<i>Total</i>	4293	341	492		5203

Table J-12 Alternative 4, Estimated Number of Sites Potentially Affected Over the Life of the Plan By Treatment Type

	Thinning	Prescribed Fire	Wildland Fire Use	Suppression	Total
Number of sites affected	78	4,293	341	492	5,203
Number of Fire Sensitive Sites Affected (12% of sites)	9	515	41	59	624

J.5 Alternative 5 Fire Use Emphasis

Table J-13 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 5, by Severity and Vegetation Type

Alternative 5					
	Spruce-Fir	Mixed-Conifer	Ponderosa Pine	Piñon-Juniper	Total
<i>Unburned</i>	7	28	381	301	716
<i>Low</i>	10	90	1816	250	2167
<i>Moderate</i>	40	150	970	277	1,438
<i>Hi</i>	18	28	48	19	113
<i>Total</i>	75	296	3216	847	4434

Table J-14 Number of Archeological Sites that may be Impacted by Fire or Fire Management Activities, Alternative 5, by Severity and Treatment Type

Alternative 5					
	<i>Prescribed Fire</i>	<i>Wildland Fire Use</i>	<i>Suppression</i>	<i>Mechanical/Manual</i>	<i>Total</i>
<i>Unburned</i>	292	197	32	195	716
<i>Low</i>	582	1482	102		2167
<i>Moderate</i>	321	910	206		1,438
<i>Hi</i>	45	40	28		113
<i>Total</i>					4434

Table J-15 Alternative 5, Estimated Number of Sites Potentially Affected Over the Life of the Plan By Treatment Type

	Thinning	Prescribed Fire	Wildland Fire Use	Suppression	Total
Number of sites affected	195	1,240	2,629	368	4,434
Number of Fire Sensitive Sites Affected (12% of sites)	23	149	315	44	532