

Appendix D

Large Format Data Tables

These tables compare the Proposed and Alternative Routes across many resources, regardless of the need for plan amendments or the likelihood that they would be approved.

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Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Natural Vegetation										Disturbed & Semi-natural Vegetation				Other Cover Types	Total Natural Vegetation	Total Disturbed and Semi-natural Vegetation	Total Other Cover Types	Grand Total	
			Sagebrush	Saltbush	Greasewood	Dwarf Shrub	Other Shrub	Native Grass	Juniper	Deciduous Forest	Conifer Forest	Wetland & Riparian	Misc.	Disturbed Sagebrush	Disturbed Grassland	Agriculture	Disturbed/Developed					Water
1W	1W(a) Proposed – Total Length	73.8	49.3		2.1		0.5		1.2	1.3	0.3	1.3	t ^{1/}	4.6	6.8	2.1	0.3	0.1	56.3	13.8	0.1	70.2
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	4.8						t ^{1/}			0.4	t ^{1/}	2.1	6.8	2.1	0.1	t ^{1/}	5.3	11.1	t ^{1/}	16.5
	Alternative 1W(a)-B	20.9	11.1					5.0		0.1		0.2		1.4	2.8	t ^{1/}	0.2		16.4	4.5		20.9
2	1W(c) Proposed – Total Length	73.6	51.0		1.0	0.8	0.1		0.5	1.8	3.3	1.6	0.2	5.4	5.5	t ^{1/}	0.7	0.2	60.4	11.6	0.2	72.2
	Proposed – Total Length	91.9	48.9	3.2	8.9	11.3			0.2			0.9	0.5	6.1	t ^{1/}		0.7	0.8	74.0	6.9	0.8	81.7
	Proposed – Comparison portion for Alternative 2A	16.8	8.1		3.5	0.6						0.5		1.1			0.1	t ^{1/}	12.8	1.2	t ^{1/}	14.1
	Alternative 2A	16.0	7.0	1.9	4.4	0.1						0.5		1.8			0.1	t ^{1/}	13.9	1.9	t ^{1/}	16.0
3	Proposed – Comparison portion for Alternative 2B	12.5	5.8		2.9	0.4						0.5		t ^{1/}			0.1	t ^{1/}	9.6	0.2	t ^{1/}	9.8
	Alternative 2B	12.2	5.3	0.6	4.7							0.7		0.7			0.2	t ^{1/}	11.2	0.9	t ^{1/}	12.2
	Segment 3 Proposed – Total Length	45.9	10.4	4.9	13.3	11.4						0.3		3.5	t ^{1/}		1.0	0.1	40.4	4.5	0.1	45.0
4 ^{2/}	Segment 3A Proposed – Total Length	5.1	2.0		1.4							0.3		1.2			0.3		3.6	1.5		5.1
	Proposed – Total Length	197.6	122.3	0.1	6.0	11.0	1.2	t ^{1/}	2.5	10.4	2.4	7.0	1.8	6.2	6.2	9.0	2.5	0.8	164.6	23.9	0.8	189.3
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	65.6		0.4	6.9	0.3		t ^{1/}	1.2		2.9	0.5	3.2	1.5	1.6	0.5	0.4	77.9	6.8	0.4	85.2
	Alternative 4B	100.2	78.5	t ^{1/}	0.6	8.1			t ^{1/}	t ^{1/}		1.8	0.3	3.8	1.2	4.7	0.8	0.3	89.5	10.4	0.3	100.2
	Alternative 4C	101.6	76.3	t ^{1/}	0.9	7.9			t ^{1/}			1.3	0.3	6.0	1.0	6.6	1.1	0.2	86.7	14.7	0.2	101.6
	Alternative 4D	100.8	78.8	t ^{1/}	0.6	8.4			0.1	t ^{1/}		1.8	0.3	3.8	1.2	4.7	0.7	0.3	90.2	10.4	0.3	100.8
	Alternative 4E	102.2	76.6	t ^{1/}	0.9	8.2			0.1	t ^{1/}		1.3	0.3	6.0	1.0	6.6	1.0	0.2	87.4	14.6	0.2	102.2
5	Alternative 4F	87.5	68.1		0.4	6.6	0.1		t ^{1/}	1.2	1.1	2.6	0.5	3.1	1.6	1.4	0.4	0.2	80.8	6.5	0.2	87.5
	Proposed – Total Length	55.7	24.4				0.4		5.2	4.2	3.6	0.3		2.1	3.8	10.9	0.7	0.2	38.0	17.5	0.2	55.7
	Proposed – Comparison portion for Alternatives 5A,B	22.3	10.8				0.3		0.7	2.3	3.6	t ^{1/}			0.7	3.9	t ^{1/}		17.7	4.6		22.3
	Alternative 5A	29.7	12.3				0.1		1.4	2.9	2.1	t ^{1/}			3.9	7.1	t ^{1/}		18.8	11.0		29.7
	Alternative 5B	40.4	16.4				0.6		1.8	1.8	1.1	t ^{1/}		3.7	2.2	12.6	0.1		21.8	18.6		40.4
	Proposed – Comparison portion for Alternative 5C	32.9	14.5				t ^{1/}		2.4	4.1	3.6	0.1		1.9	1.4	4.5	0.1		24.9	8.0		32.9
	Alternative 5C	26.0	5.6				0.6		2.5	1.7	t ^{1/}	0.2		9.1	0.7	5.2	0.1		10.8	15.1		25.8
	Proposed – Comparison portion for Alternative 5D	19.2	8.0						1.9	1.8		0.2		2.1	1.0	3.6	0.4	0.2	11.9	7.1	0.2	19.2
	Alternative 5D	17.0	2.3					0.1		3.5		0.3		5.1	0.9	4.4	0.3	t ^{1/}	6.2	10.7	t ^{1/}	17.0
6	Proposed – Comparison portion for Alternative 5E	5.8	1.6						0.2			t ^{1/}		0.2	0.3	3.0	0.3	0.2	1.9	3.7	0.2	5.8
	Alternative 5E	5.3	0.7									t ^{1/}		0.1	0.4	2.3	1.5	0.2	0.7	4.4	0.2	5.3
6	Proposed – Total Length	0.5	0.2												0.3		t ^{1/}	t ^{1/}	0.2	0.3	t ^{1/}	0.5

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} "t" indicates only a trace amount (<0.1 mile) crossed

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-1. Miles of Vegetation Types Crossed by the Proposed Routes and Alternatives cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Natural Vegetation											Disturbed & Semi-natural Vegetation				Other Cover Types	Total Natural Vegetation	Total Disturbed and Semi-natural Vegetation	Total Other Cover Types	Grand Total	
			Sagebrush	Saltbush	Greasewood	Dwarf Shrub	Other Shrub	Native Grass	Juniper	Deciduous Forest	Conifer Forest	Wetland & Riparian	Misc.	Disturbed Sagebrush	Disturbed Grassland	Agriculture	Disturbed/Developed	Water					
7	Proposed – Total Length	118.2	34.8		1.7		1.1	0.5	7.6	2.5	2.4	0.3		9.9	13.4	43.0	0.6	t ^{1/}	50.9	66.9	t ^{1/}	117.9	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	12.7			1.1	0.4	2.1	2.5	2.4	t ^{1/}		1.1	2.7	10.0	t ^{1/}			21.3	13.8		35.1	
	Alternative 7A	37.7	16.6					1.1	2.8	3.1	0.6		3.8	2.0	7.5	0.2			24.2	13.5		37.7	
	Alternative 7B	46.2	22.8			0.5		1.0	1.1	1.5	t ^{1/}		5.4	0.3	13.4	0.3			26.9	19.3		46.2	
	Proposed – Comparison portion for Alternative 7C	20.1	4.0		1.7									4.6	1.6	8.1	t ^{1/}	t ^{1/}	5.7	14.4	t ^{1/}	20.1	
	Alternative 7C	20.3	0.8											7.8	6.5	4.8	0.2	t ^{1/}	t ^{1/}	0.8	19.4	t ^{1/}	20.3
	Proposed – Comparison portion for Alternative 7D	6.2	1.4					0.1	0.3				t ^{1/}	1.0	2.3	1.0	0.1	t ^{1/}	t ^{1/}	1.8	4.4	t ^{1/}	6.2
	Alternative 7D	6.8	1.7						0.3				t ^{1/}	1.3	2.1	1.3	0.1	t ^{1/}	t ^{1/}	2.0	4.8	t ^{1/}	6.8
	Proposed – Comparison portion for Alternative 7E	3.8	2.0						0.5							1.1	0.2	t ^{1/}		2.5	1.3		3.8
	Alternative 7E	4.5	2.3						0.7					0.5	1.0	t ^{1/}	t ^{1/}		3.0	1.5		4.5	
	Proposed – Comparison portion for Alternative 7F	10.5	3.6						2.8					t ^{1/}	1.9	2.2	t ^{1/}		6.4	4.1		10.5	
	Alternative 7F	10.8	2.7						2.9					1.6	1.9	1.7	t ^{1/}		5.6	5.1		10.8	
	Proposed – Comparison portion for Alternative 7G	3.3	2.1											0.7	t ^{1/}	0.4			2.1	1.2		3.3	
	Alternative 7G	3.4	0.8											1.6	t ^{1/}	0.9			0.8	2.5		3.4	
Proposed – Comparison portion for Alternative 7K	118.2	34.8		1.7		1.1	0.5	7.6	2.5	2.4	0.3		9.9	13.4	43.0	0.6	t ^{1/}	50.9	66.9	t ^{1/}	117.9		
Alternative 7K	148.1	48.8	5.2	6.1		3.0	0.9	17.7	4.5	4.6	0.6		25.5	18.4	12.1	0.6		91.5	56.7		148.1		
8	Proposed – Total Length	131.5	38.1	2.9	0.8		0.4					0.7	0.3	30.0	44.6	12.6	0.8	0.2	43.3	88.0	0.2	131.5	
	Proposed – Comparison portion for Alternative 8A	51.9	21.8	t ^{1/}	t ^{1/}							0.1		6.3	11.2	11.8	0.4	0.2	22.1	29.7	0.2	51.9	
	Alternative 8A	53.6	3.2	0.1								0.3		19.8	13.2	15.7	1.0	0.3	3.6	49.7	0.3	53.6	
	Proposed – Comparison portion for Alternative 8B	45.3	5.4	2.8	0.8								0.2	0.2	16.6	18.5	0.4	0.3	t ^{1/}	9.3	35.9	t ^{1/}	45.3
	Alternative 8B	45.8	7.1	0.5									0.3		9.2	12.0	12.8	3.8	0.1	7.9	37.8	0.1	45.8
	Proposed – Comparison portion for Alternative 8C	6.5	0.8										t ^{1/}		2.7	2.9		t ^{1/}		0.9	5.7		6.5
	Alternative 8C	6.4	2.2	t ^{1/}											0.2	3.9		t ^{1/}		2.2	4.2		6.4
	Proposed – Comparison portion for Alternative 8D	6.9													0.6	6.3		t ^{1/}		0.0	6.9		6.9
	Alternative 8D	8.1													0.5	6.1	1.4	t ^{1/}		0.0	8.1		8.1
	Proposed – Comparison portion for Alternative 8E	7.0	0.5										0.1		3.7	2.1	0.4	0.1	t ^{1/}	0.6	6.3	t ^{1/}	7.0
Alternative 8E	18.3	1.7												9.4	6.6		t ^{1/}	t ^{1/}	1.7	16.0	t ^{1/}	17.8	
9	Proposed – Total Length	162.2	33.8	19.5	3.5	t ^{1/}	2.9	t ^{1/}				0.5	0.7	27.8	57.7	13.9	1.8	0.2	60.9	101.1	0.2	162.2	
	Proposed – Comparison portion for Alternative 9A	7.8	1.5									t ^{1/}		2.1	4.0		0.2	t ^{1/}	1.5	6.3	t ^{1/}	7.8	
	Alternative 9A	7.7	1.4									t ^{1/}		4.0	1.7	t ^{1/}	0.5	t ^{1/}	1.4	6.2	t ^{1/}	7.7	
	Proposed – Comparison portion for Alternative 9B	49.1	11.2		t ^{1/}		0.5	t ^{1/}				t ^{1/}	0.3	10.5	25.8	t ^{1/}	0.6	t ^{1/}	12.1	37.0		49.1	
	Alternative 9B	52.3	2.8	3.4			0.2					t ^{1/}		10.6	24.5	10.6	0.2	t ^{1/}	6.5	45.8	t ^{1/}	52.3	
	Proposed – Comparison portion for Alternative 9C	14.4	6.5				0.5	t ^{1/}				t ^{1/}	0.3	1.0	5.7		0.3	t ^{1/}	7.4	7.0		14.4	
	Alternative 9C	14.4					0.2					t ^{1/}		5.6	8.0	0.4	t ^{1/}	t ^{1/}	0.2	14.2	t ^{1/}	14.4	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	12.7	17.7	3.3	t ^{1/}						0.4	0.4	3.7	7.8	10.3	0.5	0.2	34.6	22.4	0.2	57.2	
	Alternative 9D	60.1	8.5	1.1	0.4				t ^{1/}			0.1		17.0	29.9	1.5	0.9	0.2	10.1	49.3	0.2	59.6	
	Alternative 9F	63.3	10.8	3.5	1.0							0.4		14.7	24.4	6.8	1.0	0.2	15.7	47.0	0.2	62.8	
	Alternative 9G	57.8	6.7	2.2	0.4				t ^{1/}			0.1		18.8	26.6	1.5	1.0	0.3	9.5	47.9	0.3	57.8	
Alternative 9H	61.0	9.1	4.6	1.0							0.4		16.5	21.2	6.8	1.0	0.3	15.1	45.6	0.3	61.0		
Proposed – Comparison portion for Alternative 9E (revised)	61.4	15.8	17.7	3.3	t ^{1/}						0.4	0.4	4.8	7.8	10.3	0.6	0.2	37.6	23.5	0.2	61.3		
Alternative 9E (revised)	70.6	29.4	10.2	1.8							0.2		17.2	11.0	0.3	0.4		41.7	28.9		70.6		
10	Proposed – Total Length	34.4	2.0								0.1	t ^{1/}		7.3	8.0	15.6	1.1	0.4	2.1	31.9	0.4	34.4	
	Total of All Proposed Segments (grey shaded areas)		417.2	30.6	38.8	34.6	3.3	3.9	17.3	20.1	12.0	13.3	3.5	104.0	146.4	107.0	10.5	3.1	594.6	367.9	3.1	965.6	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} "t" indicates only a trace amount (<0.1 mile) crossed

Table D.6-2. Impacts (acres) to Vegetation from Construction

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Sagebrush	Saltbush	Greasewood	Dwarf Shrub	Other Shrub	Native Grass	Misc.	Conifer Forest			Deciduous Forest			Juniper			Wetland/Riparian		
										Construction Facilities	ROW Clearing ^{1/}	Total Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Impacts
1W	1W(a) Proposed – Total Length	73.8	480		30		5	3	t ^{2/}	4	3	8	10	15	26	11	14	25	7.9	2.6	10.5
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	43		t ^{2/}			1	t ^{2/}							1	1	1	1.9	2.4	4.4
	Alternative 1W(a)-B	20.9	145	1				55					<1	2	2				<1		<1
	1W(c) Proposed – Total Length	73.6	626		29	9	<1			2	23	37	59	20	19	39	4	5	9	8.3	3.2
2	Proposed – Total Length	91.9	1052	72	159	205			4							2	5	7	8.8		8.8
	Proposed – Comparison portion for Alternative 2A	16.8	192		54	14													3.7		3.7
	Alternative 2A	16.0	179	30	72	6													13.3	3.9	17.2
	Proposed – Comparison portion for Alternative 2B	12.5	160		47	10													3.7		3.7
3	Segment 3 Proposed – Total Length	45.9	277	72	231	161													3.5		3.5
	Segment 3A Proposed – Total Length	5.1	21		12														2.0		2.0
4 ^{3/}	Proposed – Total Length	197.6	2470	28	149	183	20	1	24	31	58	89	147	230	377	28	57	86	122.0	4.3	126.3
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	1314	20	21	94	4		6				16	29	45	1	2	3	70.0	1.6	71.6
	Alternative 4B	100.2	1534	22	22	191			5				1	<1	1	1	2	3	49.4	0.5	49.9
	Alternative 4C	101.6	1479	22	24	194			5				<1		<1	1	2	3	46.4	0.5	46.9
	Alternative 4D	100.8	1550	22	24	199			5	1		1	2	2	4	1	2	3	49.5	0.5	50.0
	Alternative 4E	102.2	1475	22	26	203			5	1		1	1	2	3	1	2	3	46.6	0.5	47.1
5	Alternative 4F	87.5	1340	20	21	90	1		6	21	24	45	16	28	44	1	2	3	56.2	2.6	58.8
	Proposed – Total Length	55.7	496				8		<1	88	79	167	74	94	169	98	110	208	6.4		6.4
	Proposed – Comparison portion for Alternatives 5A,B	22.3	194				8		<1	92 ^{4/}	76	168	40	52	92	29	12	41	<1		<1
	Alternative 5A	29.7	257				1			46	44	90	70	66	136	16	32	48	1.0	<1	1.4
	Alternative 5B	40.4	350				15			16	23	40	33	40	74	31	39	70	1.3	1.0	2.2
	Proposed – Comparison portion for Alternative 5C	32.9	289				4		<1	92	76	168	74	93	167	62	48	110	3.1		3.1
	Alternative 5C	26.0	94				11			3	3	6	27	36	63	39	55	94	5.8	1.0	6.8
	Proposed – Comparison portion for Alternative 5D	19.2	193							<1		<1	34	42	76	35	39	74	4.3		4.3
6	Alternative 5D	17.0	70				1	1	t ^{2/}	2		2	81	74	155	t ^{2/}		t ^{2/}	2.4	1.2	3.6
	Proposed – Comparison portion for Alternative 5E	5.8	57													3	3	6	1.4		1.4
6	Alternative 5E	5.3	44													<1		<1	<1		<1
	Proposed – Total Length	0.5	17																		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

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^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

^{4/} Disturbance acreage is greater than that in the Proposed Route due to an additional pulling and tensioning site

Table D.6-2. Impacts (acres) to Vegetation from Construction cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Sagebrush	Saltbush	Greasewood	Dwarf Shrub	Other Shrub	Native Grass	Misc.	Conifer Forest			Deciduous Forest			Juniper			Wetland/Riparian			
										Construction Facilities	ROW Clearing ^{1/}	Total Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Impacts	
7	Proposed – Total Length	118.2	601		20		16	4	t ^{2/}	78	55	133	49	55	105	115	163	278	6.1		6.1	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	258				16	2	t ^{2/}	67	55	122	48	55	104	40	47	87	<1		<1	
	Alternative 7A	37.7	316				<1			63	62	125	67	64	131	20	24	44	8.6	<1	8.9	
	Alternative 7B	46.2	423				11			20	35	55	20	24	44	24	21	45	1.5		1.5	
	Proposed – Comparison portion for Alternative 7C	20.1	63		20														<1		<1	
	Alternative 7C	20.3	11																			
	Proposed – Comparison portion for Alternative 7D	6.2	17					2								3	6	9	3.6		3.6	
	Alternative 7D	6.8	21					1								3	5	8	3.9		3.9	
	Proposed – Comparison portion for Alternative 7E	3.8	37													4	10	14				
	Alternative 7E	4.5	41													9	17	26				
	Proposed – Comparison portion for Alternative 7F	10.5	65													45	58	103	<1		<1	
	Alternative 7F	10.8	53													50	61	111	<1		<1	
	Proposed – Comparison portion for Alternative 7G	3.3	26																t ^{2/}		t ^{2/}	
	Alternative 7G	3.4	20																		1.1	1.1
Proposed – Comparison portion for Alternative 7K	118.2	600		75	20		16	4	t ^{2/}	78	55	133	49	55	105	114	163	278	6.0		6.0	
Alternative 7K	148.1	964	75	71			53	9	t ^{2/}	86	109	195	80	95	176	253	396	649	15.1	1.3	16.4	
8	Proposed – Total Length	131.5	772	63	20			4	3										8.9	t ^{2/}	9.0	
	Proposed – Comparison portion for Alternative 8A	51.9	392																2.1	t ^{2/}	2.1	
	Alternative 8A	53.6	74	2															2.2	4.8	7.0	
	Proposed – Comparison portion for Alternative 8B	45.3	108	63	20				2										<1		1.0	
	Alternative 8B	45.8	143	8	1														7.9	<1	8.3	
	Proposed – Comparison portion for Alternative 8C	6.5	30																<1		<1	
	Alternative 8C	6.4	40	<1															t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 8D	6.9																	t ^{2/}		t ^{2/}	
	Alternative 8D	8.1																	t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 8E	7.0	14																			
Alternative 8E	18.3	50																	<1		<1	
9	Proposed – Total Length	162.2	610	329	70	<1		61	6						<1	<1	<1		6.0	t ^{2/}	6.0	
	Proposed – Comparison portion for Alternative 9A	7.8	16																<1		<1	
	Alternative 9A	7.7	24																<1		<1	
	Proposed – Comparison portion for Alternative 9B	49.1	207					38	4						<1	<1	<1		<1		<1	
	Alternative 9B	52.3	68	68				12											<1	<1	1.0	
	Proposed – Comparison portion for Alternative 9C	14.4	115					38	4						<1	<1	<1		<1		<1	
	Alternative 9C	14.4						18														
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	236	292	66	<1			3											5.1		5.1
	Alternative 9D	60.1	167	16	3										<1	<1	<1		2.6		2.6	
	Alternative 9F	63.3	205	53	16														6.7		6.7	
	Alternative 9G	57.8	112	49	3										<1	<1	<1		4.0		4.0	
Alternative 9H	61.0	150	86	16														7.3		7.3		
Proposed – Comparison portion for Alternative 9E (revised)	61.4	298	294	69	<1			3											5		5	
Alternative 9E (revised)	70.6	520	172	28				t ^{2/}											2		2	
10	Proposed – Total Length	34.4	31																<1		1.0	
Total of All Proposed Segments (grey shaded areas)			7453	564	719	558	50	72	40	224	232	456	301	415	716	258	354	612	180.7	10.1	190.9	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Blank cells indicate zero acres or null value

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^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.6-2. Impacts (acres) to Vegetation from Construction cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Disturbed Sagebrush	Disturbed Grassland	Disturbed/Developed	Agriculture	Water	No Vegetation Data	Total Natural Vegetation			Total Disturbed and Semi-natural Vegetation	Total Other Cover Types	Grand Total		
									Construction Facilities	ROW Clearing ^{1/}	Total Impacts			Construction Facilities	ROW Clearing ^{1/}	Total Impacts
1W	1W(a) Proposed – Total Length	73.8	41	72	77	16	<1	18	552	35	587	206	18	777	35	812
	Proposed – Comparison portion for Alternative 1W-B	16.5	14	61	9	16		1	47	3	50	100	1	148	3	151
	Alternative 1W-B	20.9	12	44	14	t ^{2/}		<1	201	2	203	70	<1	271	2	273
	1W(c) Proposed – Total Length	73.6	69	116	21	1	3	26	721	64	784	208	29	957	64	1,021
2	Proposed – Total Length	91.9	134	2	50		13	80	1,502	5	1,507	186	93	1,780	5	1,785
	Proposed – Comparison portion for Alternative 2A	36.9	24	t ^{2/}	13		2	7	264		264	37	9	309		309
	Alternative 2A	16.0	37		10		<1	7	300	4	304	48	7	355	4	359
	Proposed – Comparison portion for Alternative 2B	12.5	2	t ^{2/}	9		2	4	220		220	12	6	238		238
3	Alternative 2B	12.2	8		4		2	t ^{2/}	195	3	198	11	2	209	3	212
	Segment 3 Proposed – Total Length	45.9	44	1	15		2	28	745		745	59	30	833		833
4 ^{3/}	Segment 3A Proposed – Total Length	5.1	14		11		<1	<1	34		34	25	<1	60		60
	Proposed – Total Length	197.6	108	147	92	258	9	81	3,202	350	3,552	604	90	3,897	350	4,247
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	55	42	28	37	7	<1	1,545	33	1,578	162	7	1,714	33	1,746
	Alternative 4B	100.2	92	19	51	90	4	1	1,825	3	1,828	252	5	2,083	3	2,086
	Alternative 4C	101.6	119	17	49	112	4	1	1,771	3	1,774	297	4	2,073	3	2,075
	Alternative 4D	100.8	92	19	49	91	4	1	1,853	5	1,857	252	5	2,110	5	2,115
	Alternative 4E	102.2	119	17	47	113	4	1	1,779	4	1,784	297	5	2,081	4	2,085
Alternative 4F	87.5	39	41	29	45	3	<1	1,571	57	1,628	154	3	1,728	57	1,785	
5	Proposed – Total Length	55.7	55	52	46	251	2	1	771	283	1,054	405	3	1,179	283	1,461
	Proposed – Comparison portion for Alternatives 5A,B	22.3	2	6	3	85		1	363	140	504	97	1	461	140	601
	Alternative 5A	29.7	17	70	14	151		<1	392	142	534	252	<1	644	142	786
	Alternative 5B	40.4	72	45	9	268		2	447	103	550	394	2	843	103	946
	Proposed – Comparison portion for Alternative 5C	32.9	51	18	11	127		<1	524	217	741	207	<1	731	217	949
	Alternative 5C	26.0	230	12	6	81	t ^{2/}	2	180	95	274	328	2	509	95	604
	Proposed – Comparison portion for Alternative 5D	19.2	53	16	34	113	2	<1	266	81	348	215	2	484	81	565
	Alternative 5D	17.0	80	13	18	144	2	<1	159	75	234	255	2	416	75	491
	Proposed – Comparison portion for Alternative 5E	5.8	7	10	26	68	2	t ^{2/}	61	3	64	111	2	174	3	177
Alternative 5E	5.3	4	8	43	62	2	1	45		45	117	3	165		165	
6	Proposed – Total Length	0.5		26	12		9	<1	17		17	38	9	65		65

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-2. Impacts (acres) to Vegetation from Construction cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Disturbed Sagebrush	Disturbed Grassland	Disturbed/Developed	Agriculture	Water	No Vegetation Data	Total Natural Vegetation			Total Disturbed and Semi-natural Vegetation	Total Other Cover Types	Grand Total		
									Construction Facilities	ROW Clearing ^{1/}	Total Impacts			Construction Facilities	ROW Clearing ^{1/}	Total Impacts
7	Proposed – Total Length	118.2	201	244	55	841	<1	22	889	274	1,163	1,341	22	2,252	274	2,526
	Proposed – Comparison portion for Alternatives 7A,B	35.1	17	31	12	160		1	432	158	590	220	1	652	158	810
	Alternative 7A	37.7	62	48	20	169		<1	475	150	625	300	<1	775	150	924
	Alternative 7B	46.2	86	22	15	295		2	500	79	579	419	2	920	79	999
	Proposed – Comparison portion for Alternative 7C	20.1	100	28	2	159	<1	<1	83		83	289	<1	372		372
	Alternative 7C	20.3	137	115	4	95	<1	<1	11		11	351	<1	362		362
	Proposed – Comparison portion for Alternative 7D	6.2	25	33	4	46	t ^{2/}	t ^{2/}	26	6	31	107	t ^{2/}	132	6	138
	Alternative 7D	6.8	26	46	2	50	t ^{2/}	t ^{2/}	28	5	33	125	<1	153	5	158
	Proposed – Comparison portion for Alternative 7E	3.8		17	t ^{2/}	13		t ^{2/}	41	10	51	31	t ^{2/}	72	10	82
	Alternative 7E	4.5	12	19	1	13		t ^{2/}	50	17	67	46	t ^{2/}	96	17	113
	Proposed – Comparison portion for Alternative 7F	10.5	4	45	<1	65		1	110	58	168	114	1	225	58	283
	Alternative 7F	10.8	27	45	3	34		1	103	61	165	109	1	213	61	275
	Proposed – Comparison portion for Alternative 7G	118.2	23	2		14		t ^{2/}	26		26	38	t ^{2/}	64		64
	Alternative 7G	3.4	33	7		26		t ^{2/}	21		21	66	t ^{2/}	87		87
Proposed – Comparison portion for Alternative 7K	118.2	201	244	55	841	<1	21	887	274	1,162	1,340	21	2,249	274	2,523	
Alternative 7K	148.1	445	437	63	264	3	41	1,607	602	2,208	1,209	43	2,859	602	3,461	
8	Proposed – Total Length	131.5	548	782	44	267	3	5	870	t ^{2/}	871	1,641	7	2,518	t ^{2/}	2,518
	Proposed – Comparison portion for Alternative 8A	51.9	137	177	14	233	2	4	395	t ^{2/}	395	561	7	963	t ^{2/}	963
	Alternative 8A	53.6	375	185	14	324	<1	1	78	5	83	899	2	978	5	983
	Proposed – Comparison portion for Alternative 8B	45.3	287	365	21	30	<1	<1	195		195	704	<1	899		899
	Alternative 8B	45.8	211	226	47	271	2	<1	160	<1	160	754	2	916	<1	916
	Proposed – Comparison portion for Alternative 8C	6.5	56	74	3			t ^{2/}	30		30	133	t ^{2/}	163		163
	Alternative 8C	6.4	15	68	17			t ^{2/}	40		40	99	t ^{2/}	140		140
	Proposed – Comparison portion for Alternative 8D	6.9	11	130	7			t ^{2/}	t ^{2/}	t ^{2/}	t ^{2/}	147	t ^{2/}	147		147
	Alternative 8D	8.1	7	141	7	19		t ^{2/}	t ^{2/}	t ^{2/}	t ^{2/}	174	t ^{2/}	174		174
Proposed – Comparison portion for Alternative 8E	7.0	51	47	3	10		t ^{2/}	14		14	111	t ^{2/}	124		124	
Alternative 8E	18.3	179	98	3	<1		3	50		50	281	3	334		334	
9	Proposed – Total Length	162.2	496	1227	77	406	2	2	1,084	1	1,085	2,206	4	3,294	1	3,294
	Proposed – Comparison portion for Alternative 9A	7.8	40	71	19		<1	t ^{2/}	17		17	130	<1	147		147
	Alternative 9A	7.7	74	45	14	3	1	<1	25		25	137	1	162		162
	Proposed – Comparison portion for Alternative 9B	49.1	196	520	24	46	t ^{2/}	1	249	1	249	787	1	1,037	1	1,037
	Alternative 9B	52.3	161	417	11	224	4	<1	148	<1	148	813	4	965	<1	965
	Proposed – Comparison portion for Alternative 9C	14.4	12	117	15			1	158	1	159	145	1	304	1	305
	Alternative 9C	14.4	80	135	12	75	t ^{2/}	<1	18		18	301	<1	320		320
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	69	216	24	233	1	<1	602		602	542	1	1,145		1,145
	Alternative 9D	60.1	286	516	24	27	<1	4	189	1	190	853	5	1,047	1	1,048
	Alternative 9F	63.3	277	433	32	135	4	4	281		281	877	8	1,165		1,165
	Alternative 9G	57.8	340	486	23	36	2	3	168	1	169	884	6	1,058	1	1,059
Alternative 9H	61.0	327	403	30	139	4	<1	259		259	899	4	1,163		1,163	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	90	215	24	233	1	1	668		668	562	2	1,232		1,232	
Alternative 9E (revised)	70.6	272	267	12	15		3	722		722	566	3	1,290		1,290	
10	Proposed - Total Length	34.4	115	174	27	316	4	2	32		32	633	6	671		671
Total of All Proposed Segments (grey shaded areas)			1,826	2,843	527	2,356	46	264	10,419	1,011	11,431	7,552	311	18,282	1,011	19,293

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Table D.6-3. Impacts (acres) to Vegetation from Operation

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Sagebrush	Saltbush	Greasewood	Dwarf Shrub	Other Shrub	Native Grass	Misc.	Conifer Forest			Deciduous Forest			Juniper			Wetland / Riparian		
										Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Impacts
1W	1W(a) Proposed – Total Length	73.8	97		14		1	1	t ^{2/}	1	5	6	2	20	21	2	18	20	1.5	3.2	4.7
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	7		t ^{2/}			<1	t ^{2/}							t ^{2/}	1	1	<1	3.1	3.3
	Alternative 1W(a)-B	20.9	24	<1				7					t ^{2/}	2	2				t ^{2/}		t ^{2/}
	1W(c) Proposed – Total Length	73.6	77		7	1	t ^{2/}		<1	4	49	52	2	26	29	1	7	8	1.0	4.0	4.9
2	Proposed – Total Length	91.9	124	5	32	29			1							<1	6	6	1.6		1.6
	Proposed – Comparison portion for Alternative 2A	16.8	15		5	1													<1		<1
	Alternative 2A	16.0	17	3	9	1													1.0	3.9	4.4
	Proposed – Comparison portion for Alternative 2B	12.5	12		5	<1													<1		<1
3	Alternative 2B	12.2	10	1	5														<1	2.9	3.0
	Segment 3 Proposed – Total Length	45.9	70	12	28	14													<1		<1
4 ^{3/}	Segment 3A Proposed – Total Length	5.1	2		2														<1		<1
	Proposed – Total Length	197.6	344	<1	39	20	2	t ^{2/}	2	5	72	77	17	300	317	4	74	77	9.3	5.1	14.4
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	164		2	11	1		1				3	36	39	t ^{2/}	3	3	4.4	2.3	6.7
	Alternative 4B	100.2	202	t ^{2/}	2	28			1				<1	1	1	t ^{2/}	3	3	2.5	1.0	3.0
	Alternative 4C	101.6	191	t ^{2/}	2	30			1				t ^{2/}		t ^{2/}	t ^{2/}	3	3	2.1	1.0	2.6
	Alternative 4D	100.8	207	t ^{2/}	2	29			1	<1		<1	<1	3	3	t ^{2/}	3	3	2.7	1.0	3.3
	Alternative 4E	102.2	192	t ^{2/}	2	31			1	<1		<1	<1	2	2	t ^{2/}	3	3	2.3	1.0	2.8
5	Alternative 4F	87.5	171		2	10	<1		1	2	32	34	3	36	38	t ^{2/}	3	3	2.6	3.0	5.6
	Proposed – Total Length	55.7	93				2		t ^{2/}	13	107	120	13	125	138	10	154	164	1.0		1.0
	Proposed – Comparison portion for Alternatives 5A,B	22.3	25				2		t ^{2/}	13	107	120	7	71	78	3	20	23	t ^{2/}		t ^{2/}
	Alternative 5A	29.7	35				<1			6	59	65	12	87	99	2	41	43	<1	<1	1.0
	Alternative 5B	40.4	43				2			3	31	34	4	56	60	3	54	57	<1	1.0	1.3
	Proposed – Comparison portion for Alternative 5C	32.9	39				1		t ^{2/}	13	107	120	13	124	137	6	73	78	1.0		1.0
	Alternative 5C	26.0	12				2			1	3	4	4	49	54	5	78	83	<1	1.3	1.4
	Proposed – Comparison portion for Alternative 5D	19.2	34							t ^{2/}		t ^{2/}	7	54	61	3	57	60	1.0		1.0
	Alternative 5D	17.0	20				<1	t ^{2/}	t ^{2/}	<1		<1	6	103	109	t ^{2/}		t ^{2/}	<1	1.4	1.6
6	Proposed – Comparison portion for Alternative 5E	5.8	16													t ^{2/}	4	4	t ^{2/}		t ^{2/}
	Alternative 5E	5.3	16													t ^{2/}			t ^{2/}		t ^{2/}
6	Proposed – Total Length	0.5	15																		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-3. Impacts (acres) to Vegetation from Operation cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Sagebrush	Saltbush	Greasewood	Dwarf Shrub	Other Shrub	Native Grass	Misc.	Conifer Forest			Deciduous Forest			Juniper			Wetland / Riparian			
										Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Impacts	
7	Proposed – Total Length	118.2	88		2		2	<1	t ^{2/}	14	74	87	9	73	82	12	218	230	<1		<1	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	26				2	<1	t ^{2/}	10	74	84	9	73	82	4	62	66	<1		<1	
	Alternative 7A	37.7	38				t ^{2/}			8	90	98	13	85	99	2	33	35	1.0	<1	1.0	
	Alternative 7B	46.2	46				2			3	44	47	4	32	36	3	30	33	<1		<1	
	Proposed – Comparison portion for Alternative 7C	20.1	7			2													t ^{2/}		t ^{2/}	
	Alternative 7C	20.3	1																			
	Proposed – Comparison portion for Alternative 7D	6.2	2					<1								<1	8	8	t ^{2/}		t ^{2/}	
	Alternative 7D	6.8	2					<1								<1	7	7	t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 7E	3.8	3													<1	13	13				
	Alternative 7E	4.5	4													1	22	22				
	Proposed – Comparison portion for Alternative 7F	10.5	6													5	81	85	t ^{2/}		t ^{2/}	
	Alternative 7F	10.8	5													5	85	90	t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 7G	3.3	3																t ^{2/}		t ^{2/}	
	Alternative 7G	3.4	1																t ^{2/}		t ^{2/}	
Proposed – Comparison portion for Alternative 7K	118.2	88			2		2	<1	t ^{2/}	14	74	87	9	73	82	12	218	230	<1		<1	
Alternative 7K	148.1	139	7		9		9	2	t ^{2/}	14	138	153	14	131	144	25	522	547	2.1	1.4	3.5	
8	Proposed – Total Length	131.5	74	6	1			<1	<1										1.0	t ^{2/}	1.0	
	Proposed – Comparison portion for Alternative 8A	51.9	43																<1	t ^{2/}	<1	
	Alternative 8A	53.6	5	<1															<1	5.5	5.9	
	Proposed – Comparison portion for Alternative 8B	45.3	9	6	1				<1										<1		<1	
	Alternative 8B	45.8	12	1															<1	<1	1.0	
	Proposed – Comparison portion for Alternative 8C	6.5	2																t ^{2/}		t ^{2/}	
	Alternative 8C	6.4	3	t ^{2/}															t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 8D	6.9																				
	Alternative 8D	8.1																				
Proposed – Comparison portion for Alternative 8E	7.0	1																				
Alternative 8E	18.3	6																				
9	Proposed – Total Length	162.2	59	33	9	t ^{2/}		8	1							t ^{2/}	1	1	1.0	t ^{2/}	1.0	
	Proposed – Comparison portion for Alternative 9A	7.8	1																t ^{2/}		t ^{2/}	
	Alternative 9A	7.7	2																t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 9B	49.1	24					4								t ^{2/}	1	1	t ^{2/}		t ^{2/}	
	Alternative 9B	52.3	3	9				1								t ^{2/}			t ^{2/}	<1	<1	
	Proposed – Comparison portion for Alternative 9C	14.4	11					5								t ^{2/}	1	1	t ^{2/}		t ^{2/}	
	Alternative 9C	14.4						1														
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	22	31	8	t ^{2/}			1											1.0		1.0
	Alternative 9D	60.1	15	1	<1											t ^{2/}	1	1	t ^{2/}		t ^{2/}	
	Alternative 9F	63.3	19	5	1															1.0		1.0
Alternative 9G	57.8	7	4	<1											t ^{2/}	1	1	<1		<1		
Alternative 9H	61.0	11	8	1															1.0		1.0	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	27	31	9	t ^{2/}				1										0.9		0.9	
Alternative 9E (revised)	70.6	48	22	4															0.2		0.2	
10	Proposed – Total Length	34.4	4																<1		<1	
Total of All Proposed Segments (grey shaded areas)			1048	56	135	63	6	10	4	36	306	342	43	544	588	28	478	506	16.8	12.3	29.2	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Table D.6-3. Impacts (acres) to Vegetation from Operation cont.

Segment Number	Proposed or Alternative Name	Disturbed Sagebrush	Disturbed Grassland	Disturbed / Developed	Agriculture	Water	No Vegetation Data	Total Natural Vegetation			Total Disturbed and Semi-natural Vegetation	Total Other Cover Types	Grand Total		
								Operations Facilities	ROW Maintenance ^{1/}	Total Impacts			Operations Facilities	ROW Maintenance ^{1/}	Total Impacts
1W	1W(a) Proposed – Total Length	8	18	25	3	t ^{2/}	5	118	46	164	54	5	177	46	223
	Proposed – Comparison portion for Alternative 1W-A	2	12	3	3		<1	8	4	11	20	<1	27	4	31
	Alternative 1W-A	2	7	4			t ^{2/}	31	2	33	12	t ^{2/}	44	2	46
	1W(c) Proposed – Total Length	8	11	6	t ^{2/}	<1	6	92	86	178	25	7	124	86	210
2	Proposed – Total Length	17	<1	15		1	20	192	6	198	33	20	245	6	251
	Proposed – Comparison portion for Alternative 2A	2	t ^{2/}	3			2	21		21	5	2	28		28
	Alternative 2A	4		3		t ^{2/}	2	31	4	34	7	2	40	4	44
	Proposed – Comparison portion for Alternative 2B	1	t ^{2/}	2			1	17		17	3	1	21		21
3	Proposed – Total Length	4	t ^{2/}	3		<1	8	125		125	7	9	140		140
	Alternative 2B	1		1				15	3	18	2		17	3	20
3A	Proposed – Total Length	4		4		t ^{2/}	t ^{2/}	4		4	8	<1	12		12
4 ^{3/}	Proposed – Total Length	16	14	24	16	1	16	442	451	893	70	17	530	451	981
	Proposed – Comparison portion for Alternatives 4A-4F	9	7	8	3	1		186	41	226	26	1	213	41	253
	Alternative 4B	15	3	12	8	<1	t ^{2/}	235	4	239	38	<1	273	4	277
	Alternative 4C	17	3	11	9	<1	t ^{2/}	225	3	229	40	<1	265	3	269
	Alternative 4D	15	3	11	8	<1	t ^{2/}	242	6	249	38	<1	280	6	287
	Alternative 4E	17	3	11	10	<1	t ^{2/}	229	6	235	40	<1	269	6	275
5	Alternative 4F	5	7	8	3	t ^{2/}		192	73	265	23	t ^{2/}	214	73	288
	Proposed – Total Length	5	5	6	19	1	<1	132	385	517	35	2	169	385	554
	Proposed – Comparison portion for Alternatives 5A,B	1	1	1	7		<1	49	197	246	9	<1	58	197	256
	Alternative 5A	1	5	5	13			55	188	243	25		80	188	268
	Alternative 5B	8	2	3	24			54	142	196	37		92	142	234
	Proposed – Comparison portion for Alternative 5C	5	2	3	10			73	303	376	20		94	303	396
	Alternative 5C	21	1	2	7		<1	24	131	155	31	<1	56	131	187
	Proposed – Comparison portion for Alternative 5D	5	1	4	8	1		44	111	155	18	1	63	111	175
	Alternative 5D	9	2	4	11	1		26	105	131	25	1	53	105	157
Proposed – Comparison portion for Alternative 5E	<1	<1	2	4	1		16	4	20	7	1	24	4	28	
6	Alternative 5E	<1	<1	4	2	1	t ^{2/}	16		16	7	1	24		24
	Proposed – Total Length		25	11		9		15		15	37	9	61		61

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Table D.6-3. Impacts (acres) to Vegetation from Operation cont.

Segment Number	Proposed or Alternative Name	Disturbed Sagebrush	Disturbed Grassland	Disturbed / Developed	Agriculture	Water	No Vegetation Data	Total Natural Vegetation			Total Disturbed and Semi-natural Vegetation	Total Other Cover Types	Grand Total		
								Operations Facilities	ROW Maintenance ^{1/}	Total Impacts			Operations Facilities	ROW Maintenance ^{1/}	Total Impacts
7	Proposed – Total Length	20	21	12	78	t ^{2/}	5	128	365	492	132	5	265	365	630
	Proposed – Comparison portion for Alternatives 7A,B	1	3	3	12		<1	52	208	260	20	<1	71	208	280
	Alternative 7A	8	4	4	15			61	209	270	32		93	209	302
	Alternative 7B	11	<1	3	24			58	106	164	38		96	106	202
	Proposed – Comparison portion for Alternative 7C	13	3	<1	11			9		9	27		36		36
	Alternative 7C	12	8	1	6	t ^{2/}		1		1	27	t ^{2/}	28		28
	Proposed – Comparison portion for Alternative 7D	2	4	1	2	t ^{2/}		3	8	10	9	t ^{2/}	11	8	19
	Alternative 7D	2	5	1	2	t ^{2/}		3	7	10	10	t ^{2/}	13	7	20
	Proposed – Comparison portion for Alternative 7E		1	t ^{2/}	<1			4	13	16	2		5	13	18
	Alternative 7E	1	2	<1	<1			5	22	27	4		9	22	30
	Proposed – Comparison portion for Alternative 7F	<1	4	t ^{2/}	7			11	81	92	12		23	81	103
	Alternative 7F	3	5	1	5			9	85	95	14		23	85	109
	Proposed – Comparison portion for Alternative 7G	1	<1		2			3		3	3		6		6
	Alternative 7G	2	<1		3			1		1	5		6		6
Proposed – Comparison portion for Alternative 7K	20	21	12	78	t ^{2/}	5	128	365	492	132	5	264	365	629	
Alternative 7K	61	36	15	38	1	10	221	792	1,013	150	11	382	792	1,173	
8	Proposed – Total Length	63	75	10	16	<1	1	83	t ^{2/}	83	164	1	249	t ^{2/}	249
	Proposed – Comparison portion for Alternative 8A	17	22	3	15	<1	1	43	t ^{2/}	43	57	1	102	t ^{2/}	102
	Alternative 8A	42	28	4	23	t ^{2/}	1	5	6	11	97	1	103	6	108
	Proposed – Comparison portion for Alternative 8B	32	31	6	<1	t ^{2/}		17		17	70	t ^{2/}	87		87
	Alternative 8B	22	19	4	11	t ^{2/}	t ^{2/}	13	<1	14	56	t ^{2/}	69	<1	69
	Proposed – Comparison portion for Alternative 8C	7	6	<1				2		2	13		15		15
	Alternative 8C	4	9	1				3		3	13		16		16
	Proposed – Comparison portion for Alternative 8D	1	12	2			t ^{2/}				15	t ^{2/}	15		15
	Alternative 8D	1	11	2	2	t ^{2/}					15	t ^{2/}	15		15
	Proposed – Comparison portion for Alternative 8E	5	3	<1	<1			1		1	9		10		10
Alternative 8E	13	7	<1			t ^{2/}	6		6	20	t ^{2/}	26		26	
9	Proposed – Total Length	71	131	12	35	<1	1	111	1	112	248	1	360	1	361
	Proposed – Comparison portion for Alternative 9A	4	8	2		t ^{2/}		1		1	13	t ^{2/}	15		15
	Alternative 9A	7	4	1	1	<1	t ^{2/}	2		2	13	<1	14		14
	Proposed – Comparison portion for Alternative 9B	29	60	3	<1	t ^{2/}	1	28	1	29	93	1	122	1	123
	Alternative 9B	19	36	1	14	<1		12	<1	13	71	<1	83	<1	84
	Proposed – Comparison portion for Alternative 9C	2	7	2			1	15	1	16	11	1	27	1	28
	Alternative 9C	9	10	2	4	t ^{2/}	t ^{2/}	1		1	25	t ^{2/}	26		26
	Proposed – Comparison portion for Alternatives 9D,F,G,H	9	16	5	14	<1		62		62	44	<1	106		106
	Alternative 9D	24	38	4	2		<1	16	1	18	67	<1	84	1	85
	Alternative 9F	22	33	5	8	t ^{2/}	t ^{2/}	26		26	67	<1	93		93
	Alternative 9G	31	37	4	3	t ^{2/}	<1	11	1	13	75	<1	87	1	88
Alternative 9H	29	33	5	9	t ^{2/}	t ^{2/}	21		21	75	<1	96		96	
Proposed – Comparison portion for Alternative 9E (revised)	13	16	5	14	<1	t ^{2/}	69		69	47	1	116		116	
Alternative 9E (revised)	33	24	3	1		t ^{2/}	74		74	61	t ^{2/}	135		135	
10	Proposed – Total Length	9	16	11	33	<1	<1	4		4	69	1	74		74
Total of All Proposed Segments (grey shaded areas)		224	318	139	200	13	64	1,446	1,340	2,786	882	76	2,404	1,340	3,744

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Table D.6-5. Construction Impacts to Vegetation (in acres) on Federal Lands

Segment Number	Proposed or Alternative Name	Bureau of Land Management Field Office	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Construction Facilities	ROW Clearing	Construction Facilities	ROW Clearing			
1W	1W(a) Proposed – Total Length	Casper	51	<1	1	0.2			4	57
		Rawlins	193			0.3			35	228
	Alternative 1W(a)-B	Casper	<1							<1
	1W(c) Proposed – Total Length	Casper	32	7	12	0.1			1	53
2		Rawlins	235			0.4		11	10	256
	Proposed – Total Length	Rawlins	669	<1	4	2.0		1	47	724
	Proposed – Comparison portion for Alternative 2A	Rawlins	104					t ^{1/}	7	111
	Alternative 2A	Rawlins	122			2.5			6	130
	Proposed – Comparison portion for Alternative 2B	Rawlins	93					t ^{1/}	5	98
3		Rawlins	62						2	65
	Segment 3 Proposed – Total Length	Rawlins	180			0.5			9	190
		Rock Springs	188			0.3			10	198
4 ^{2/}	Segment 3A Proposed – Total Length	Rock Springs	22			0.3			4	26
	Proposed – Total Length	Kemmerer	759	12	21	7.5	1.2	13	14	828
		Pocatello	87	10	12	1.6		1	10	122
		Rock Springs	427			1.6			15	444
	Proposed – Comparison portion for Alternatives 4B-4F	Kemmerer	759	12	21	7.3	1.2	13	14	828
		Pocatello	24			t ^{1/}			<1	24
		Rock Springs	18						3	22
	Alternative 4B	Kemmerer	847	2	3	1.5		1	15	870
		Pocatello	58			0.9		2	<1	61
		Rock Springs	78			t ^{1/}		t ^{1/}	1	79
	Alternative 4C	Kemmerer	806	1	2	1.3		1	15	828
		Pocatello	44			0.9		2	<1	47
		Rock Springs	78			t ^{1/}		t ^{1/}	1	79
	Alternative 4D	Kemmerer	897	4	4	1.2		1	14	922
		Pocatello	58			0.9		2	<1	61
		Rock Springs	79			t ^{1/}		t ^{1/}	1	81
	Alternative 4E	Kemmerer	845	3	4	1.0		1	15	868
		Pocatello	41			0.9		2	<1	45
		Rock Springs	79			t ^{1/}		t ^{1/}	1	81
	Alternative 4F	Kemmerer	752	37	52	7.1	1.9	13	16	879
	Pocatello	32			t ^{1/}			<1	33	
	Rock Springs	18						3	22	
5	Proposed – Total Length	Burley	23						2	24
		Pocatello	69	102	144	t ^{1/}		6	7	328
	Proposed – Comparison portion for Alternatives 5A,B	Pocatello	34	76	87				2	200
	Alternative 5A	Pocatello	77	102	109	t ^{1/}			2	290
	Alternative 5B	Pocatello	113	53	66	0.4			4	237
	Proposed – Comparison portion for Alternative 5C	Pocatello	43	88	109				4	244
	Alternative 5C	Pocatello	<1	4					t ^{1/}	4
	Proposed – Comparison portion for Alternative 5D	Burley	23		21				2	46
		Pocatello	9	11		t ^{1/}			3	23
	Alternative 5D	Burley	2						<1	2
Proposed – Comparison portion for Alternative 5E	Burley	23						2	24	
	Pocatello				t ^{1/}			t ^{1/}	t ^{1/}	
Alternative 5E	Burley	12			t ^{1/}			3	15	
6	Proposed – Total Length	No BLM Land Crossed								

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Table D.6-5. Construction Impacts to Vegetation (in acres) on Federal Lands cont.

Segment Number	Proposed or Alternative Name	Bureau of Land Management Field Office	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Construction Facilities	ROW Clearing	Construction Facilities	ROW Clearing			
7	Proposed – Total Length	Burley	242	35	37	t ^{1/}		39	14	367
		Pocatello	66	83	85			t ^{1/}	1	235
	Proposed – Comparison portion for Alternatives 7A,B	Pocatello	49	83	85			t ^{1/}	<1	218
	Alternative 7A	Pocatello	45	102	100	0.6		<1	2	249
	Alternative 7B	Pocatello	107	33	40	0.4			5	184
	Proposed – Comparison portion for Alternative 7C	Burley	147					15	1	162
	Alternative 7C	Burley	106					18	1	125
	Proposed – Comparison portion for Alternative 7D	Burley	1		1	t ^{1/}		18	1	20
	Alternative 7D	Burley						9	t ^{1/}	9
	Proposed – Comparison portion for Alternative 7E	Burley	3	2	4				<1	10
	Alternative 7E	Burley	24	2	7			1	1	35
	Proposed – Comparison portion for Alternative 7F	Burley	3	24	19			t ^{1/}	<1	46
	Alternative 7F	Burley	22	35	41			27	1	125
	Proposed – Comparison portion for Alternative 7G	Burley	45						<1	45
	Alternative 7G	Burley	45						2	48
	Proposed – Comparison portion for Alternative 7K	Burley	242	35	37	t ^{1/}		39	14	367
		Pocatello	66	83	85			t ^{1/}	1	235
	Alternative 7K	Burley	669	180	311	2.1		232	65	1459
Pocatello		88	28	33	1.4	0.9		t ^{1/}	151	
8	Proposed – Total Length	Four Rivers	617			0.4		450	26	1094
		Owyhee	72			0.1		10	<1	83
		Shoshone	311			0.1		116	14	442
	Proposed – Comparison portion for Alternative 8A	Four Rivers	89			t ^{1/}			1	90
		Shoshone	311			0.1		116	14	442
	Alternative 8A	Four Rivers	76			0.6		3	<1	81
		Jarbidge	175				0.3	66	6	247
		Shoshone	66					52	4	122
	Proposed – Comparison portion for Alternative 8B	Four Rivers	327			0.3		321	21	669
		Owyhee	72			0.1		10	<1	83
	Alternative 8B ^{3/}	Four Rivers	211			0.2		116	14	342
		Owyhee	1						t ^{1/}	1
	Proposed – Comparison portion for Alternative 8C	Four Rivers	64			0.1		64	3	131
	Alternative 8C	Four Rivers	34					14	2	49
	Proposed – Comparison portion for Alternative 8D	Four Rivers	10					126	6	142
	Alternative 8D	Four Rivers	4					100	6	109
	Proposed – Comparison portion for Alternative 8E	Four Rivers	46					37	3	86
	Alternative 8E	Four Rivers	223			0.2		97	4	324
9	Proposed – Total Length	Bruneau	215					89	17	321
		Burley	212			t ^{1/}		298	10	520
		Four Rivers	101			0.7		166	3	271
		Jarbidge	378	1	1	0.4		600	25	1005
		Owyhee	367			t ^{1/}		4	4	375
	Proposed – Comparison portion for Alternative 9A	Burley	42					62	4	109
	Alternative 9A	Burley	70					33	4	107
	Proposed – Comparison portion for Alternative 9B	Burley	6					21	t ^{1/}	28
		Jarbidge	376	1	1	0.4		506	25	909
	Alternative 9B	Burley	40					14	<1	54
		Jarbidge	219			0.1	0.3	285	18	522
	Proposed – Comparison portion for Alternative 9C	Burley	6					22	t ^{1/}	28
Jarbidge		111	1	1	0.3		119	17	248	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of occupancy

^{3/} The actual route along Alternative 8B would avoid federal lands; therefore, reported impact acreages along Alternative 8B are conservative

Table D.6-5. Construction Impacts to Vegetation (in acres) on Federal Lands cont.

Segment Number	Proposed or Alternative Name	Bureau of Land Management Field Office	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Construction Facilities	ROW Clearing	Construction Facilities	ROW Clearing			
9 (cont.)	Alternative 9C	Burley	40					20	<1	61
		Jarbidge	t ^{1/}					54	7	61
	Proposed – Comparison portion for Alternatives 9D,F,G,H	Bruneau	215					89	17	321
		Four Rivers	87			0.7		49	3	139
		Jarbidge	1					14	t ^{1/}	15
		Owyhee	235			t ^{1/}		4	2	241
	Alternative 9D	Bruneau	3						t ^{1/}	3
		Four Rivers	414	1	1	1.3		449	32	897
		Owyhee	9						t ^{1/}	9
	Alternative 9F	Bruneau	91					67	11	169
		Four Rivers	364			2.0		260	21	647
		Jarbidge	1					14	t ^{1/}	15
		Owyhee	9						t ^{1/}	9
	Alternative 9G	Bruneau	3						t ^{1/}	3
		Four Rivers	413	1	1	1.1		398	31	844
		Owyhee	12					16	t ^{1/}	27
	Alternative 9H	Bruneau	91					67	11	169
		Four Rivers	363			1.8		210	20	595
		Jarbidge	1					14	t ^{1/}	15
		Owyhee	12					16	t ^{1/}	27
Proposed – Comparison portion for Alternative 9E (revised)	Bruneau	215					89	18	321	
	Four Rivers	92			1		49	3	144	
	Jarbidge	1					14	t ^{1/}	15	
	Owyhee	318			t ^{1/}		4	3	324	
Alternative 9E (revised)	Bruneau	412			1		142	5	560	
	Four Rivers	82			1		53	3	139	
	Jarbidge	24					21	t ^{1/}	45	
	Owyhee	404			t ^{1/}		36	3	443	
10	Proposed – Total Length	Shoshone	131				159	23	314	
Total of All Proposed Segments (grey shaded areas)			5,649	251	316	16.9	1.2	1,964	306	8,504

Segment Number	Proposed or Alternative Name	National Forest	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Construction Facilities	ROW Clearing	Construction Facilities	ROW Clearing			
1W	Wa Proposed – Total Length	Medicine Bow-Routt	17	1	1	t ^{1/}			t ^{1/}	18
	Wc Proposed – Total Length	Medicine Bow-Routt	18	11	16				t ^{1/}	46
4	Proposed – Total Length	Caribou-Targhee	22	118	179	t ^{1/}	2.0	12	7	328
7	Alternative 7K	Sawtooth	117	109	155	2.1		7	8	398
Total of All Proposed Segments (grey shaded areas)			56	124	200	0.3	0.8	12	5	399

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

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Table D.6-5. Construction Impacts to Vegetation (in acres) on Federal Lands cont.

Segment Number	Proposed or Alternative Name	Other Federal Lands	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Construction Facilities	ROW Clearing	Construction Facilities	ROW Clearing			
4 ^{2/}	Proposed – Total Length	Bureau of Reclamation	72			0.3			<1	73
	Proposed – Comparison portion for Alternatives 4B-4F	Bureau of Reclamation	72			0.3			<1	73
	Alternative 4B	Bureau of Reclamation	17						<1	17
		Fish and Wildlife Service	1						t ^{1/}	1
	Alternative 4C	Bureau of Reclamation	17						<1	17
		Fish and Wildlife Service	<1			1.6			32	34
	Alternative 4D	Bureau of Reclamation	17						<1	17
		Fish and Wildlife Service	1						t ^{1/}	1
Alternative 4E	Bureau of Reclamation	17						<1	17	
	Fish and Wildlife Service	<1			1.6			32	34	
Alternative 4F	Bureau of Reclamation	72			0.3			<1	73	
5	Alternative 5C	Indian Reservation	235	25	31	5.4		3	3	302
8	Proposed – Total Length	Bureau of Reclamation	44					15	<1	60
	Proposed – Comparison portion for Alternative 8B	Bureau of Reclamation	31					10	<1	41
	Alternative 8B	Bureau of Reclamation	16			t ^{1/}		13	<1	29
	Proposed – Comparison portion for Alternative 8C	Bureau of Reclamation	6					1	<1	7
	Alternative 8C	Bureau of Reclamation	<1					1		1
	Proposed – Comparison portion for Alternative 8E	Bureau of Reclamation	19					9	t ^{1/}	28
9	Proposed – Total Length	Military Reservations/Corps of Engineers	4					3		7
	Alternative 9G	Bureau of Reclamation	26						t ^{1/}	26
	Alternative 9H	Bureau of Reclamation	26						t ^{1/}	26
Total of All Proposed Segments (grey shaded areas)			121			0.3		18	1	140

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

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^{1/} "t" indicates only a trace amount (<0.1 acre) of occupancy

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-6. Operations Impacts to Vegetation (in acres) on Federal Lands

Segment Number	Proposed or Alternative Name	Bureau of Land Management Field Office	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Operations Facilities	ROW Maintenance	Operations Facilities	ROW Maintenance			
1W	1W(a) Proposed – Total Length	Casper	11	t ^{1/}	1	t ^{1/}			1	13
		Rawlins	38			t ^{1/}			11	49
	Alternative 1W(a)-B	Casper	t ^{1/}							t ^{1/}
		Rawlins	6	1	16	t ^{1/}			<1	24
2	Proposed – Total Length	Rawlins	69	t ^{1/}	5	0.2		<1	10	84
		Rawlins	7					t ^{1/}	1	8
	Alternative 2A	Rawlins	11			0.3			2	13
		Rawlins	5					t ^{1/}	1	6
3	Segment 3 Proposed – Total Length	Rawlins	16			t ^{1/}			3	19
		Rock Springs	25			t ^{1/}			2	28
	Segment 3A Proposed – Total Length	Rock Springs	4			t ^{1/}			<1	5
4 ^{2/}	Proposed – Total Length	Kemmerer	97	3	26	0.9	1.4	1	3	132
		Pocatello	9	1	17	t ^{1/}		t ^{1/}	3	31
		Rock Springs	44			0.2			2	46
	Proposed – Comparison portion for Alternatives 4B-4F	Kemmerer	97	3	26	0.9	1.4	1	3	132
		Pocatello	3			t ^{1/}			<1	3
		Rock Springs	4						<1	4
	Alternative 4B	Kemmerer	114	<1	4	0.2		<1	4	123
		Pocatello	6			t ^{1/}		<1	<1	7
		Rock Springs	9			t ^{1/}		t ^{1/}	<1	10
	Alternative 4C	Kemmerer	106	t ^{1/}	3	0.2		<1	4	114
		Pocatello	6			t ^{1/}		<1	<1	6
		Rock Springs	9			t ^{1/}		t ^{1/}	<1	10
	Alternative 4D	Kemmerer	122	1	6	0.3		<1	4	133
		Pocatello	6			t ^{1/}		<1	<1	7
		Rock Springs	10			t ^{1/}		t ^{1/}	<1	10
	Alternative 4E	Kemmerer	112	<1	5	0.2		<1	4	123
Pocatello		5			t ^{1/}		<1	<1	5	
Rock Springs		10			t ^{1/}		t ^{1/}	<1	10	
Alternative 4F	Kemmerer	99	5	68	0.6	2.2	1	4	179	
	Pocatello	4			t ^{1/}			<1	4	
	Rock Springs	4						<1	4	
5	Proposed – Total Length	Burley	<1						t ^{1/}	1
		Pocatello	10	13	193			1	<1	217
	Proposed – Comparison portion for Alternatives 5A,B	Pocatello	6	9	121				<1	136
		Pocatello	10	15	147	t ^{1/}			1	172
	Alternative 5B	Pocatello	15	6	95	t ^{1/}			1	117
		Pocatello	7	10	149				<1	167
	Alternative 5C	Pocatello	t ^{1/}	1						1
		Burley	<1		28				t ^{1/}	28
	Proposed – Comparison portion for Alternative 5D	Pocatello	2	1					<1	3
		Burley	<1						t ^{1/}	<1
Proposed – Comparison portion for Alternative 5E	Burley	<1						t ^{1/}	1	
	Burley	1					t ^{1/}	<1	1	
6	Proposed – Total Length	No BLM Land Crossed								

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

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^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-6. Operations Impacts to Vegetation (in acres) on Federal Lands cont.

Segment Number	Proposed or Alternative Name	Bureau of Land Management Field Office	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Operations Facilities	ROW Maintenance	Operations Facilities	ROW Maintenance			
7	Proposed – Total Length	Burley	26	2	53	t ^{1/}		4	3	88
		Pocatello	7	13	114				<1	134
	Proposed – Comparison portion for Alternatives 7A,B	Pocatello	6	13	114				t ^{1/}	133
	Alternative 7A	Pocatello	7	16	138	t ^{1/}		t ^{1/}	1	163
	Alternative 7B	Pocatello	15	5	53	t ^{1/}			1	75
	Proposed – Comparison portion for Alternative 7C	Burley	17					2	t ^{1/}	18
	Alternative 7C	Burley	10					1	t ^{1/}	11
	Proposed – Comparison portion for Alternative 7D	Burley	t ^{1/}		1	t ^{1/}		2	t ^{1/}	3
	Alternative 7D	Burley						1		1
	Proposed – Comparison portion for Alternative 7E	Burley	<1	<1	5				t ^{1/}	6
	Alternative 7E	Burley	3	<1	8			<1	t ^{1/}	12
	Proposed – Comparison portion for Alternative 7F	Burley	<1	2	31			t ^{1/}	t ^{1/}	33
	Alternative 7F	Burley	3	3	57			2	<1	65
	Proposed – Comparison portion for Alternative 7G	Burley	3						t ^{1/}	3
	Alternative 7G	Burley	2						<1	3
	Proposed – Comparison portion for Alternative 7K	Burley	26	2	53	t ^{1/}		4	3	88
Pocatello		7	13	114				<1	134	
Burley		86	21	403	0.5		21	18	549	
Pocatello		13	5	44	0.3	1.0		t ^{1/}	63	
8	Proposed – Total Length	Four Rivers	54			t ^{1/}		39	6	99
		Owyhee	5			t ^{1/}		1	t ^{1/}	6
		Shoshone	36			t ^{1/}		11	3	50
	Proposed – Comparison portion for Alternative 8A	Four Rivers	8			t ^{1/}			<1	8
		Shoshone	36			t ^{1/}		11	3	50
	Alternative 8A	Four Rivers	7			0.2		<1	t ^{1/}	8
		Jarbidge	15				0.3	9	1	25
		Shoshone	6					6	1	13
	Proposed – Comparison portion for Alternative 8B	Four Rivers	32			t ^{1/}		27	6	65
		Owyhee	5			t ^{1/}		1	t ^{1/}	6
		Four Rivers	20			t ^{1/}		9	2	31
	Alternative 8B ^{3/}	Owyhee	t ^{1/}						t ^{1/}	t ^{1/}
	Proposed – Comparison portion for Alternative 8C	Four Rivers	6					5	<1	11
	Alternative 8C	Four Rivers	4					3	<1	8
	Proposed – Comparison portion for Alternative 8D	Four Rivers	1					12	2	14
	Alternative 8D	Four Rivers	t ^{1/}					7	2	9
Proposed – Comparison portion for Alternative 8E	Four Rivers	4					3	<1	7	
Alternative 8E	Four Rivers	18					7	<1	26	
9	Proposed – Total Length	Bruneau	27					8	2	37
		Burley	22					33	2	57
		Four Rivers	11			0.2		17	1	29
		Jarbidge	51	t ^{1/}	1	t ^{1/}		70	4	126
		Owyhee	38			t ^{1/}		<1	1	39
	Proposed – Comparison portion for Alternative 9A	Burley	4					6	1	12
	Alternative 9A	Burley	6					4	1	10
	Proposed – Comparison portion for Alternative 9B	Burley	<1					1		1
		Jarbidge	51	t ^{1/}	1	t ^{1/}		61	4	116
	Alternative 9B	Burley	6					1	t ^{1/}	7
		Jarbidge	21			t ^{1/}	0.3	26	2	49
	Segment 9 Proposed - Comparison portion for Alternative 9C	Burley	<1					1		1
Jarbidge		11	t ^{1/}	1	t ^{1/}		10	2	25	
Burley		6					1	t ^{1/}	7	
Alternative 9C	Jarbidge	t ^{1/}					4	1	5	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
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^{3/} The actual route along Alternative 8B would avoid federal lands; therefore, reported impact acreages along Alternative 8B are conservative

Table D.6-6. Operations Impacts to Vegetation (in acres) on Federal Lands cont.

Segment Number	Proposed or Alternative Name	Bureau of Land Management Field Office	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Operations Facilities	ROW Maintenance	Operations Facilities	ROW Maintenance			
9 (cont.)	Proposed – Comparison portion for Alternatives 9D,F,G,H	Bruneau	27					8	2	37
		Four Rivers	7			0.2		3	1	11
		Jarbidge	<1					1		1
		Owyhee	24			t ^{1/}		<1	<1	25
	Alternative 9D	Bruneau	<1							<1
		Four Rivers	36	t ^{1/}	1	t ^{1/}		32	5	74
		Owyhee	<1							<1
	Alternative 9F	Bruneau	8					6	1	15
		Four Rivers	32			0.2		19	4	55
		Jarbidge	<1					1		1
		Owyhee	<1							<1
	Alternative 9G	Bruneau	<1							<1
		Four Rivers	35	t ^{1/}	1	t ^{1/}		30	4	70
		Owyhee	1					2		3
	Alternative 9H	Bruneau	8					6	1	15
		Four Rivers	31			0.2		17	3	51
		Jarbidge	<1					1		1
		Owyhee	1					2		3
	Proposed – Comparison portion for Alternative 9E (revised)	Bruneau	27					8	18	52
		Four Rivers	8			0.2		3	3	15
Jarbidge		<1					1	t ^{1/}	1	
Owyhee		33			t ^{1/}		<1	3	36	
Alternative 9E (revised)	Bruneau	42			t ^{1/}		12	5	59	
	Four Rivers	7			t ^{1/}		4	3	14	
	Jarbidge	2					2	t ^{1/}	4	
	Owyhee	46			t ^{1/}		3	3	53	
10	Proposed – Total Length	Shoshone	11				11	2	24	
Total of All Proposed Segments (grey shaded areas)			643	33	426	1.9	1.4	201	62	1,369

Segment Number	Proposed or Alternative Name	National Forest	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Operations Facilities	ROW Maintenance	Operations Facilities	ROW Maintenance			
1W	Wa Proposed – Total Length	Medicine Bow-Routt	3	<1	1	t ^{1/}				4
	Wc Proposed – Total Length	Medicine Bow-Routt	1	2	22					25
4	Proposed – Total Length	Caribou-Targhee	2	16	235	t ^{1/}	2.0		2	257
7	Alternative 7K	Sawtooth	13	17	207	0.6	t ^{1/}	1	2	241
Total of All Proposed Segments (grey shaded areas)			6	15	259	t^{1/}	0.8		2	282

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

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Table D.6-6. Operations Impacts to Vegetation (in acres) on Federal Lands cont.

Segment Number	Proposed or Alternative Name	Other Federal Lands	Shrubland	Forest/Woodland		Wetland/Riparian		Grassland	Other Cover Types	Total Impacts
				Operations Facilities	ROW Maintenance	Operations Facilities	ROW Maintenance			
4 ^{2/}	Proposed – Total Length	Bureau of Reclamation	9			t ^{1/}			<1	9
	Proposed – Comparison portion for Alternatives 4B-4F	Bureau of Reclamation	9			t ^{1/}			<1	9
	Alternative 4B	Bureau of Reclamation	1						t ^{1/}	1
		Fish and Wildlife Service	<1							<1
	Alternative 4C	Bureau of Reclamation	1						t ^{1/}	1
		Fish and Wildlife Service	t ^{1/}				t ^{1/}		1	1
	Alternative 4D	Bureau of Reclamation	1						t ^{1/}	1
		Fish and Wildlife Service	<1							<1
Alternative 4E	Bureau of Reclamation	1						t ^{1/}	1	
	Fish and Wildlife Service	t ^{1/}				t ^{1/}		1	1	
Alternative 4F	Bureau of Reclamation	9						t ^{1/}	9	
	Fish and Wildlife Service								<1	
5	Alternative 5C	Indian Reservation	26	3	46	0.1		1	1	76
8	Proposed – Total Length	Bureau of Reclamation	4					2	<1	6
	Proposed – Comparison portion for Alternative 8B	Bureau of Reclamation	3					1	<1	3
	Alternative 8B	Bureau of Reclamation	1				t ^{1/}	1	t ^{1/}	2
	Proposed – Comparison portion for Alternative 8C	Bureau of Reclamation	<1					<1	t ^{1/}	1
	Alternative 8C	Bureau of Reclamation	t ^{1/}					<1		<1
	Proposed – Comparison portion for Alternative 8E	Bureau of Reclamation	2					<1		2
9	Proposed – Total Length	Military Reservations/Corps of Engineers	1					1		2
	Alternative 9G	Bureau of Reclamation	1						t ^{1/}	1
	Alternative 9H	Bureau of Reclamation	1						t ^{1/}	1
Total of All Proposed Segments (grey shaded areas)			14				t ^{1/}	3	<1	17

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

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^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-7. Wildland Fires Within the Analysis Area

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Name of Fire	Date of Fire	Total Acres of Fire	Acres of Analysis Area Disturbed by the Fire
1W	1W(a) Proposed – Total Length	73.8	Shirley Basin	7/11/2010	2,428	t ^{1/}
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5				
	Alternative 1W(a)-B	20.9				
	1W(c) Proposed – Total Length	73.6				
2	Proposed – Total Length	91.9				
	Proposed – Compare to Alternative 2A	16.8				
	Alternative 2A	16.0				
	Proposed – Compare to Alternative 2B	12.5				
3	Alternative 2B	12.2				
	Segment 3 Proposed – Total Length	45.9				
4	Segment 3A Proposed – Total Length	5.1				
	Proposed – Total Length	197.6				
	Proposed – Compare to Alternatives 4B-4F	85.2				
	Alternative 4B	100.2	Cigar 2	9/20/2011	1	<1
	Alternative 4C	101.6	Cigar 2	9/21/2011	1	<1
	Alternative 4D	100.8	Cigar 2	9/22/2011	1	<1
	Alternative 4E	102.2	Cigar 2	9/23/2011	1	<1
5	Alternative 4F	87.5				
	Proposed – Total Length	55.7	Bowen	8/25/2010	6,662	71
			Downey West	7/29/2012	130	<1
	Proposed – Compare to Alternatives 5A,B	22.3	Bowen	8/25/2010	6,662	71
	Alternative 5A	29.7	Bowen	8/25/2010	6,662	2
	Alternative 5B	40.4				
	Proposed – Compare to Alternative 5C	32.9	Bowen	8/25/2010	6,662	71
	Alternative 5C	26.0	Bowen	8/25/2010	6,662	39
	Proposed – Compare to Alternative 5D	19.2				
	Alternative 5D	17.0				
6	Proposed – Compare to Alternative 5E	5.8				
	Alternative 5E	5.3				
6	Proposed – Total Length	0.5				

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.6-7. Wildland Fires Within the Analysis Area cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Name of Fire	Date of Fire	Total Acres of Fire	Acres of Analysis Area Disturbed by the Fire
7	Proposed – Total Length	118.2	Bowen	8/25/2010	6,662	58
			Cave Canyon	8/5/2012	88,943	198
			Dairy Canyon	9/13/2010	2,508	20
			Downey West	7/29/2012	130	15
			Highway 81-1	7/1/2010	12	<1
			Highway 81-2	7/1/2010	23	t ^{1/}
			Mile Marker 225	7/19/2010	18	4
			MM 224	8/17/2010	219	18
			Raft River	7/11/2012	198	15
	Yale Road	7/26/2012	622	1		
	Proposed – Compare to Alternatives 7A,B	35.1	Bowen	8/25/2010	6,662	58
	Alternative 7A	37.7	Bull Canyon	9/8/2011	1	<1
			Bowen	8/25/2010	6,662	2
	Alternative 7B	46.2	Dairy Canyon	9/13/2010	2,508	20
	Proposed – Compare to Alternative 7C	20.1	MM 224	8/17/2010	219	4
			Raft River	7/11/2012	198	15
			Yale Road	7/26/2012	622	1
	Alternative 7C	20.3	MM 224	8/17/2010	219	4
			Rainbow Road	7/18/2010	4,387	173
			Yale Road	7/26/2012	622	29
	Proposed – Compare to Alternative 7D	6.2	Highway 81-1	7/1/2010	12	<1
			Highway 81-2	7/1/2010	23	t ^{1/}
			Mile Marker 225	7/19/2010	18	4
			MM 224	8/17/2010	219	18
	Alternative 7D	6.8	Highway 81-2	7/1/2010	23	1
			MM 224	8/17/2010	219	20
	Proposed – Compare to Alternative 7E	3.8				
	Alternative 7E	4.5				
	Proposed – Compare to Alternative 7F	10.5				
Alternative 7F	10.8	Pine Knob	7/7/2011	11	4	
Proposed – Compare to Alternative 7G	3.3	Cave Canyon	8/5/2012	88,943	54	
Alternative 7G	3.4	Cave Canyon	8/5/2012	88,943	61	
Proposed – Comparison portion for Alternative 7K	118.2	Bowen	8/25/2010	6,662	58	
		Cave Canyon	8/5/2012	88,943	198	
		Dairy Canyon	9/13/2010	2,508	20	
		Downey West	7/29/2012	130	15	
		Highway 81-1	7/1/2010	12	<1	
		Highway 81-2	7/1/2010	23	t ^{1/}	
		Mile Marker 225	7/19/2010	18	4	
		MM 224	8/17/2010	219	18	
		Raft River	7/11/2012	198	15	
Yale Road	7/26/2012	622	1			
Alternative 7K	148.1	Cave Canyon	8/5/2012	88,943	698	
		Downey West	7/29/2012	130	15	
		Emery	8/26/2010	3,785	40	
		Walker Hollow	8/21/2011	367	37	

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Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

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Table D.6-7. Wildland Fires Within the Analysis Area cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Name of Fire	Date of Fire	Total Acres of Fire	Acres of Analysis Area Disturbed by the Fire
8	Proposed – Total Length	131.5	Eureka	7/11/2009	<1	t ^{1/}
			Lucky	7/24/2010	70	23
			Nothot	7/2/2011	1	t ^{1/}
			Power Station	9/27/2009	3,026	<1
			Benwalk	7/9/2012	29,100	378
			Blair	8/17/2011	39,577	317
	Proposed – Compare to Alternative 8A	51.9	Lucky	7/24/2010	70	23
			Blair	8/17/2011	39,577	317
			Power Station	9/27/2009	3,026	<1
			Benwalk	7/9/2012	29,100	378
			Ditto	7/7/2012	6,179	9
			Power	8/16/2011	1,091	17
			Shoestring	8/28/2008	1,433	45
			South Trail	7/24/2010	3,831	74
			Union	8/16/2011	10,527	127
			Walker	10/2/2011	238	17
	Alternative 8A	53.6	Power Station	9/27/2009	3,026	<1
			5700 N	7/5/2012	237	1
			Hwy 45 MM103	9/1/2011	4,982	3
			Long Butte	8/21/2010	306,113	327
			Trails	8/6/2009	82	13
			Walker	10/2/2011	238	1
			Windmill	8/4/2011	17,382	263
	Proposed – Compare to Alternative 8B	45.3	Windmills	6/16/2008	6	<1
			Ditto	7/7/2012	6,179	7
			Power	8/16/2011	1,091	17
	Alternative 8B	45.8	Union	8/16/2011	10,527	127
Kuna Butte			7/17/2011	5	1	
Ditto			7/7/2012	6,179	7	
Alternative 8B – Compare to Alternative 8C	6.5	South Pen	8/16/2011	1,304	37	
		Union	8/16/2011	10,527	<1	
Alternative 8C	6.4	Ditto	7/7/2012	6,179	7	
Proposed – Compare to Alternative 8D	6.9	Ditto	7/7/2012	6,179	75	
		Reggie	7/6/2011	118	1	
Alternative 8D	8.1					
Proposed – Compare to Alternative 8E	7.0					
Alternative 8E	18.3	Con Shea	6/14/2012	8,926	84	
		Swan	5/28/2012	121	7	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

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Table D.6-7. Wildland Fires Within the Analysis Area cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Name of Fire	Date of Fire	Total Acres of Fire	Acres of Analysis Area Disturbed by the Fire
9	Proposed – Total Length	162.2	MM40 HWY78	9/27/2009	4	<1
			Balanced Road	6/3/2012	6,423	25
			Berger	8/9/2012	78	1
			Cottonwood Creek	6/21/2012	18	<1
			East Hollister	8/5/2012	568	22
			Flint	7/31/2010	730	15
			Hot Springs 2	10/1/2011	10,397	167
			Kinyon Road	7/7/2012	214,991	175
			Long Butte	8/21/2010	306,113	772
			Love	7/30/2011	43	4
			MM43 HWY78	7/9/2012	782	1
	South Indian	7/9/2012	14,095	171		
	Proposed – Compare to Alternative 9A	7.8				
	Alternative 9A	7.7				
	Proposed – Compare to Alternative 9B	49.1	Balanced Road	6/3/2012	6,423	25
			Flint	7/31/2010	730	15
			Kinyon Road	7/7/2012	214,991	175
	Alternative 9B	52.3	Long Butte	8/21/2010	306,113	3
			Kinyon Road	7/7/2012	214,991	27
			Long Butte	8/21/2010	306,113	534
	Proposed – Compare to Alternative 9C	14.4	Windmill	8/4/2011	17,382	170
			Balanced Road	6/3/2012	6,423	25
			Kinyon Road	7/7/2012	214,991	175
	Alternative 9C	14.4	Long Butte	8/21/2010	306,113	771
			Balanced Road	6/3/2012	6,423	17
			Kinyon Road	7/7/2012	214,991	27
	Proposed – Compare to Alternative 9D,F,G,H	57.2	Long Butte	8/21/2010	306,113	11
MM40 HWY78			9/27/2009	4	<1	
Hot Springs 2			10/1/2011	10,397	122	
Love			7/30/2011	43	4	
MM43 HWY78			7/9/2012	782	1	
Alternative 9D	60.1	South Indian	7/9/2012	14,095	2	
		Wilkins Gulch	10/4/2011	9	<1	
		Chattin Flat	5/14/2012	181	11	
		Con Shea	6/14/2012	8,926	84	
		Hot Springs 2	10/1/2011	10,397	109	
		Jack Creek	8/10/2010	23	1	
Alternative 9F	63.3	South Indian	7/9/2012	14,095	104	
		Strike	7/19/2012	222	21	
		Chattin Flat	5/14/2012	181	11	
		Con Shea	6/14/2012	8,926	84	
		Hot Springs 2	10/1/2011	10,397	120	
		Jack Creek	8/10/2010	23	1	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
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Table D.6-7. Wildland Fires Within the Analysis Area cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Name of Fire	Date of Fire	Total Acres of Fire	Acres of Analysis Area Disturbed by the Fire
9 (cont.)	Alternative 9G	57.8	Wilkins Gulch	10/4/2011	9	<1
			Chattin Flat	5/14/2012	181	11
			Con Shea	6/14/2012	8,926	72
			Hot Springs 2	10/1/2011	10,397	109
			Jack Creek	8/10/2010	23	1
			South Indian	7/9/2012	14,095	104
			Strike	7/19/2012	222	21
	Alternative 9H	61.0	Chattin Flat	5/14/2012	181	11
			Con Shea	6/14/2012	8,926	72
			Hot Springs 2	10/1/2011	10,397	120
			Jack Creek	8/10/2010	23	1
			South Indian	7/9/2012	14,095	2
			Strike	7/19/2012	222	21
	Proposed – Comparison portion for Alternative 9E (revised)	61.4	MM40 HWY78	9/27/2009	4	<1
			Hot Spings 2	10/1/2011	10,397	120
			Love	7/30/2011	43	4
			MM43 HWY78	7/9/2012	782	1
South Indian			7/9/2012	14,095	2	
Alternative 9E (revised)	70.6	Crowbar	8/7/2010	29,508	38	
		Hot Springs 2	10/1/2011	10,397	149	
		Love	7/30/2011	43	10	
		Sailor Creek	6/29/2010	10,062	34	
		South Indian	7/9/2012	14,095	1	
10	Proposed – Total Length	34.4	Hunt	7/2/2008	104	23

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

Table D.8-1. Invasive and Noxious Plant Species Potentially Present in the Gateway West Project Analysis Area

Common Name	Scientific Name	Invasive Exotic Species ^{2/}	Listed as Noxious ^{3/,4/}			Segments in Which Species is Known or Likely to Occur ^{4/,5/}	
			State of Wyoming (Designated)	Wyoming Counties (Declared)	State of Idaho ^{6/}	Wyoming	Idaho
Species on State Noxious Weed List							
Black henbane	<i>Hyoscyamus niger</i> ^{1/}	Yes	--	Albany, Converse, Lincoln, Natrona, Sweetwater	Control	<u>All</u>	<u>All</u>
Buffalobur	<i>Solanum rostratum</i>	Yes	--	Converse, Natrona	Control	<u>1, 2, 3, 4</u>	<u>8, 9</u>
Canada thistle	<i>Cirsium arvense</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Common burdock	<i>Arctium minus</i> ^{1/}	Yes	X	--	--	<u>1, 2, 4</u>	All
Common crupina	<i>Crupina vulgaris</i> ^{1/}	Yes	--	Converse	Control	--	7
Common St. Johnswort	<i>Hypericum perforatum</i> ^{1/}	Yes	X	--	--	<u>4</u>	8
Common Tansy	<i>Tanacetum vulgare</i> ^{1/}	Yes	X	--	--	<u>All</u>	5, 7, 8
Dalmatian toadflax	<i>Linaria dalmatica</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Diffuse knapweed	<i>Centaurea diffusa</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Dyer's woad	<i>Isatis tinctoria</i> ^{1/}	Yes	X	--	Control	<u>All</u>	<u>All</u>
Eurasian watermilfoil	<i>Myriophyllum spicatum</i> ^{1/}	Yes	--	--	Control	--	8
Field bindweed	<i>Convolvulus arvensis</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Giant Knotweed	<i>Polygonum sachalinense</i>		--	--	Control	--	<u>7, 8</u>
Hairy whitetop, Hoary cress	<i>Cardaria pubescens</i> ^{1/}	Yes	X ^{7/}	--	--	<u>All</u>	All
Hoary alyssum	<i>Berteroa incana</i>	Yes			Containment	2, 3	<u>7, 8</u>
Houndstongue	<i>Cynoglossum officinale</i> ^{1/}	Yes	X	--	Containment	<u>1, 2, 4</u>	<u>4, 5, 7</u>
Iberian starthistle	<i>Centaurea iberica</i> ^{1/}	Yes	--	Converse	--	<u>1</u>	--
Japanese Knotweed	<i>Polygonum cuspidatum</i>	Yes	--	--	Control	<u>All</u>	--
Johnsongrass	<i>Sorghum halepense</i>	Yes	--	--	Control	--	<u>4, 5, 7, 8</u>
Jointed goatgrass	<i>Aegilops cylindrica</i> ^{1/}	Yes	--	Converse	Containment	<u>1</u>	<u>All</u>
Leafy spurge	<i>Euphorbia esula</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Matgrass	<i>Nardus stricta</i> ^{1/}	Yes	--	--	Control	--	<u>5</u>
Mayweed chamomile	<i>Anthemis cotula</i> ^{1/}	Yes	--	--	--	1	8, 9
Milium	<i>Milium vernale</i>	Yes	--	--	Containment	--	<u>10</u>
Musk thistle	<i>Carduus nutans</i> ^{1/}	Yes	X	--	Control	<u>All</u>	<u>All</u>
Orange hawkweed	<i>Hieracium aurantiacum</i> ^{1/}	Yes	--	Converse	Control	--	<u>5, 7, 8</u>
Oxeye daisy	<i>Leucanthemum vulgare</i> (formerly <i>Chrysanthemum leucanthemum</i>) ^{1/}	Yes	X	--	Containment	<u>1, 2, 4</u>	<u>4, 7</u>
Parrotfeather Milfoil	<i>Myriophyllum aquaticum</i>	Yes	--	--	Control	--	<u>10</u>
Perennial pepperweed, tall whitetop	<i>Lepidium latifolium</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Perennial sowthistle	<i>Sonchus arvensis</i> ^{1/}	Yes	X	--	Control	<u>All</u>	<u>All</u>
Plumeless thistle	<i>Carduus acanthoides</i> ^{1/}	Yes	X	--	Control	<u>1</u>	--
Poison hemlock	<i>Conium maculatum</i> ^{1/}	Yes	--	--	Containment	<u>1, 2, 3</u>	<u>All</u>
Puncture vine	<i>Tribulus terrestris</i>	Yes	--	Natrona	Containment	<u>1, 2</u>	<u>All</u>
Purple loosestrife	<i>Lythrum salicaria</i> ^{1/}	Yes	X	--	Containment	--	<u>All</u>
Quackgrass	<i>Agropyron repens</i> ^{1/}	Yes	X	--	--	All	All
Rush skeletonweed	<i>Chondrilla juncea</i> ^{1/}	Yes	--	Converse	Containment	--	<u>5, 7, 8, 9, 10</u>

^{1/} Species on the BLM national invasive species list.

^{2/} Included in Invaders database (University of Montana-Missoula 2009).

^{3/} Designated noxious weeds are plants that are legally designated by a federal, state, or county government as injurious to public health, agriculture, recreation, wildlife, or property; whereas, "declared noxious weeds" are those that have been declared on a county-by-county basis.

^{4/} Source for status: ISDA 2008; Wyoming Weed and Pest 2012a and b; NDA 2009. "—" indicates not listed.

^{5/} Distribution based on Invaders database (University of Montana-Missoula 2009), Plants database (NRCS 2009), and ISDA (2008).

Distribution of native species is only shown for Wyoming counties where listed as noxious. Underlined segments indicate that species is likely to occur where regulated, non-underlined means it is likely to occur in additional areas where it is currently not regulated.

^{6/} Idaho listing categories are explained in text.

^{7/} Hairy whitetop (*Cardaria pubescens*) and whitetop (*Cardaria draba*) are listed as the same species as designated as one noxious weed by the state of Wyoming.

Table D.8-1. Invasive and Noxious Plant Species Potentially Present in the Gateway West Project Analysis Area cont.

Common Name	Scientific Name	Invasive Exotic Species ^{2/}	Listed as Noxious ^{3/4/}			Segments in Which Species is Known or Likely to Occur ^{4/5/}	
			State of Wyoming (Designated)	Wyoming Counties (Declared)	State of Idaho ^{6/}	Wyoming	Idaho
Species on State Noxious Weed List cont.							
Russian knapweed	<i>Acroptilon repens</i> ^{1/}	Yes	X	--	Control	<u>All</u>	<u>All</u>
Russian olive	<i>Elaeagnus angustifolia</i> ^{1/}	Yes	X	--	--	<u>1</u>	<u>All</u>
Salt cedar, tamarisk	<i>Tamarix spp.</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Scotch broom	<i>Cytisus scoparius</i> ^{1/}	Yes	--	Converse	Control	--	<u>5, 7, 9</u>
Scotch thistle	<i>Onopordum acanthium</i> ^{1/}	Yes	X	--	Containment	<u>1, 4</u>	<u>All</u>
Silverleaf nightshade	<i>Solanum elaeagnifolium</i>	Yes	--	--	Control	--	<u>8, 10</u>
Skeletonleaf bursage	<i>Ambrosia tomentosa</i>	Yes	X	--	Control	<u>All</u>	<u>5, 7, 8, 10</u>
Spotted knapweed	<i>Centaurea maculosa</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
Syrian beancaper	<i>Zygophyllum fabago</i> ^{1/}	Yes	--	Converse	EDRR	--	<u>5, 7</u>
Tansy ragwort	<i>Senecio jacobaea</i> ^{1/}	Yes	--	Converse	Containment	--	<u>5, 7</u>
Vipers bugloss	<i>Echium vulgare</i> ^{1/}	Yes	--	--	Control	--	<u>8</u>
White Bryony	<i>Bryonia alba</i>	Yes			Containment		<u>4, 5, 8</u>
Whitetop, hoary cress	<i>Cardaria draba</i> ^{1/}	Yes	X ^{7/}	--	Containment	<u>1, 2, 4</u>	<u>All</u>
Yellow hawkweed	<i>Hieracium caespitosum, H. pratense</i> ^{1/}	Yes	--	Converse	Control	--	<u>7, 8</u>
Yellow starthistle	<i>Centaurea solstitialis</i> ^{1/}	Yes	--	--	Containment	--	<u>All</u>
Yellow toadflax	<i>Linaria vulgaris</i> ^{1/}	Yes	X	--	Containment	<u>All</u>	<u>All</u>
County Declared or other Species Not on State Weed Lists, or Not Likely to Occur Where Regulated by State							
Absinth wormwood	<i>Artemisia absinthium</i>	Yes	--	Converse	--	<u>1</u>	<u>8</u>
Austrian peaweed/ Swainsonpea	<i>Sphaerophysa salsula</i> ^{1/}	Yes	--	--	--	--	<u>5, 7</u>
Baby's breath	<i>Gypsophila paniculata</i> ^{1/}	Yes	--	Converse	--	<u>1</u>	<u>4, 8</u>
Bermuda grass	<i>Cynodon dactylon</i> ^{1/}	Yes	--	--	--	--	<u>8, 9</u>
Black medic	<i>Medicago lupulina</i>	Yes	--	Natrona	--	<u>1</u>	--
Bull thistle	<i>Cirsium vulgare</i> ^{1/}	Yes	--	Converse, Lincoln	--	<u>1, 2, 3, 4</u>	<u>All</u>
Bur buttercup	<i>Ranunculus testiculatus</i>	Yes	--	Converse	--	<u>1, 2, 3, 4</u>	<u>All</u>
Camelthorn	<i>Alhagi camelorum</i> ^{1/}	Yes	--	--	--	--	<u>8</u>
Carolina horse-nettle	<i>Solanum carolinense</i>	Yes	--	--	--	--	<u>8</u>
Cheatgrass/downy brome	<i>Bromus tectorum</i> ^{1/}	Yes	--	Albany, Converse, Natrona	--	<u>1, 2, 3, 4</u>	<u>All</u>
Chicory	<i>Cichorium intybus</i> ^{1/}	Yes	--	Converse	--	<u>1</u>	<u>All</u>
Common cocklebur	<i>Xanthium strumarium</i>	Yes	--	Converse	--	<u>1, 2, 3, 4</u>	<u>All</u>
Common mullein	<i>Verbascum thapsus</i>	Yes	--	Converse	--	<u>1, 2, 3, 4</u>	<u>All</u>
Common sunflower	<i>Helianthus annuus</i>	Native	--	Converse	--	<u>1</u>	--
Curly dock	<i>Rumex crispus</i>	Yes	--	Converse, Natrona	--	<u>1, 2, 3, 4</u>	<u>All</u>
Curlycup gumweed	<i>Grindelia squarrosa</i>	Native	--	Converse, Natrona	--	<u>1</u>	--
Dames rocket	<i>Hesperis matronalis</i> ^{1/}	Yes	--	Converse	--	<u>1, 2, 4</u>	<u>4, 5, 7, 9</u>
Foxtail barley	<i>Hordium jubatum</i>	Native	--	Sweetwater	--	<u>3, 4</u>	--
Geyer larkspur	<i>Delphinium geyeri</i>	Native	--	Albany, Carbon	--	<u>1, 2, 3</u>	--

^{1/} Species on the BLM national invasive species list.

^{2/} Included in Invaders database (University of Montana-Missoula 2009).

^{3/} Designated noxious weeds are plants that are legally designated by a federal, state, or county government as injurious to public health, agriculture, recreation, wildlife, or property; whereas, "declared noxious weeds" are those that have been declared on a county-by-county basis.

^{4/} Source for status: ISDA 2008; Wyoming Weed and Pest 2012a and b; NDA 2009. "--" indicates not listed.

^{5/} Distribution based on Invaders database (University of Montana-Missoula 2009), Plants database (NRCS 2009), and ISDA (2008).

Distribution of native species is only shown for Wyoming counties where listed as noxious. Underlined segments indicate that species is likely to occur where regulated, non-underlined means it is likely to occur in additional areas where it is currently not regulated.

^{6/} Idaho listing categories are explained in text.

^{7/} Hairy whitetop (*Cardaria pubescens*) and whitetop (*Cardaria draba*) are listed as the same species as designated as one noxious weed by the state of Wyoming.

Table D.8-1. Invasive and Noxious Plant Species Potentially Present in the Gateway West Project Analysis Area cont.

Common Name	Scientific Name	Invasive Exotic Species ^{2/}	Listed as Noxious ^{3/,4/}			Segments in Which Species is Known or Likely to Occur ^{4/,5/}	
			State of Wyoming (Designated)	Wyoming Counties (Declared)	State of Idaho ^{6/}	Wyoming	Idaho
County Declared or other Species Not on State Weed Lists, or Not Likely to Occur Where Regulated by State cont.							
Goatsrue	<i>Galega officinalis</i>	Yes	--	Converse	--	1	--
Gorse	<i>Ulex europaeus</i>	Yes	--	Converse	--	1	--
Halogeton	<i>Halogeton glomeratus</i> ^{1/}	Yes	--	Carbon, Converse, Natrona,	--	<u>1, 2, 3, 4</u>	5, 7, 8, 9
Italian thistle	<i>Carduus pycnocephalus</i> ^{1/}	Yes	--	Converse	--	1	--
Japanese brome	<i>Bromus japonicus</i> ^{1/}	Yes	--	--	--	All	All
Lady's bedstraw	<i>Galium verum</i>	Yes	--	Sweetwater	--	<u>2, 3, 4</u>	7
Locoweed	<i>Oxytropis spp.</i>	Native	--	Albany	--	1	--
Meadow knapweed	<i>Centaurea nigrescens</i> ^{1/}	Yes	--	Converse	--	1	--
Medusahead	<i>Taeniatherum caput-medusae</i>	Yes	--	Converse	--	--	8
Mountain thermopsis	<i>Thermopsis montana</i>	Native	--	Sweetwater	--	<u>2, 3, 4</u>	
Musk mustard, blue mustard	<i>Chorispora tenella</i>	Yes	--	Converse	--	<u>1, 2, 3, 4</u>	All
Plains pricklypear	<i>Opuntia polyacantha</i>	Native	--	Carbon	--	<u>1, 2</u>	--
Purple starthistle	<i>Centaurea calcitrapa</i>	Yes	--	Converse	--	1	--
Redstem filaree	<i>Erodium cicutarium</i>	Yes	--	Converse	--	1	<u>All</u>
Russian thistle	<i>Salsola iberica</i>	Yes	--	--	--	All	All
Sandbur	<i>Cenchrus incertus</i>	Yes	--	Converse	--	1	--
Scentless chamomile	<i>Tripleurospermum inodorum</i> ^{1/}	Yes	--	Converse	--	<u>1, 2, 4</u>	8, 9
Showy milkweed	<i>Asclepias speciosa</i>	Native	--	Converse, Natrona	--	<u>1</u>	--
Squarrose knapweed	<i>Centaurea virgata</i>	Yes	--	Converse	--	<u>1</u>	--
Sulfur cinquefoil	<i>Potentilla recta</i> ^{1/}	Yes	--	Converse	--	--	4, 5, 7
Teasel	<i>Dipsacus fullonum</i> ^{1/}	Yes	--	Converse	--	--	All
Wavyleaf thistle	<i>Cirsium undulatum</i>	Native	--	Converse	--	<u>1</u>	--
Western sticktight	<i>Lappula occidentalis</i>	Native	--	Converse	--	<u>1</u>	--
Wild licorice	<i>Glycyrrhiza lepidota</i>	Native	--	Converse, Natrona	--	<u>1</u>	--
Wild oats	<i>Avena fatua</i>	Yes	--	Lincoln	--	<u>1, 2, 4</u>	All
Wyeth's lupine	<i>Lupinus wyethii</i>	Native	--	Carbon, Converse	--	<u>1, 2</u>	--

^{1/} Species on the BLM national invasive species list.

^{2/} Included in Invaders database (University of Montana-Missoula 2009).

^{3/} Designated noxious weeds are plants that are legally designated by a federal, state, or county government as injurious to public health, agriculture, recreation, wildlife, or property; whereas, "declared noxious weeds" are those that have been declared on a county-by-county basis.

^{4/} Source for status: ISDA 2008; Wyoming Weed and Pest 2012a and b; NDA 2009. "--" indicates not listed.

^{5/} Distribution based on Invaders database (University of Montana-Missoula 2009), Plants database (NRCS 2009), and ISDA (2008).

Distribution of native species is only shown for Wyoming counties where listed as noxious. Underlined segments indicate that species is likely to occur where regulated, non-underlined means it is likely to occur in additional areas where it is currently not regulated.

^{6/} Idaho listing categories are explained in text.

^{7/} Hairy whitetop (*Cardaria pubescens*) and whitetop (*Cardaria draba*) are listed as the same species as designated as one noxious weed by the state of Wyoming.

Table D.9-1. Impacts to Wetlands and Riparian Areas during Construction (acres)

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Herbaceous Wetlands	Shrub Wetlands	Forested Wetlands			Mixed Wetlands	Total Wetlands			Herbaceous Riparian	Shrub Riparian	Forested Riparian			Mixed Riparian	Total Riparian			Total Wetlands and Riparian		
			Construction Facilities	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts
1W	1W(a) Proposed – Total Length	73.8	2.4	1.3	0.3	1.6	1.9	t ^{2/}	4.0	1.6	5.6	0.9	1.3	0.5	0.9	1.4	1.2	3.9	0.9	4.9	7.9	2.6	10.5
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5		0.2	0.3	1.6	1.9		0.6	1.6	2.2	0.1	0.4	0.5	0.8	1.3	0.4		0.8	0.8	0.6	2.4	3.0
	Alternative 1W(a)-B	20.9	0.1						0.1		0.1	0.1	t ^{2/}			0.0		0.1		0.1	0.2	0.0	0.2
	1W(c) Proposed – Total Length	73.6	1.6	0.1	0.7	1.7	2.4	1.4	3.9	1.7	5.6	1.7	2.1	0.5	1.5	2.0	0.1	4.4	1.5	5.9	8.3	3.2	11.5
2	Proposed – Total Length	91.9	2.9	1.2					4.1		4.1	0.2	4.6					4.7		4.7	8.8		8.8
	Proposed – Comparison portion for Alternative 2A	16.8	2.9	0.7					3.6		3.6		0.1					0.1		0.1	3.7		3.7
	Alternative 2A	16.0		1.8				6.0	7.9	7.9	1.5	1.1		3.9	3.9	2.8	5.5	3.9	9.3	13.3	3.9	17.2	
	Proposed – Comparison portion for Alternative 2B	12.5	2.9	0.7					3.6		3.6		0.1					0.1		0.1	3.7		3.7
3	Alternative 2B	12.2	6.9					6.1	13.0	13.0		0.5	0.1	2.8	2.9	4.4	5.0	2.8	7.9	18.0	2.8	20.9	
	Segment 3 Proposed – Total Length	45.9	1.2	0.4				t ^{2/}	1.6		1.6	t ^{2/}	1.9					2.0		2.0	3.5		3.5
4 ^{4/}	Segment 3A Proposed – Total Length	5.1						0.7	0.7	0.7		1.2						1.2		1.2	0.7	1.2	1.9
	Proposed – Total Length	197.6	53.9 ^{3/}	12.1	0.6	1.7	2.3	2.2	68.8 ^{3/}	1.7	70.4 ^{3/}	20.8	12.6	1.4	2.7	4.1	1.3	36.0	2.7	38.7	109.1 ^{3/}	4.3	113.4 ^{3/}
	Proposed – Comparison Portion for Alternatives 4B-4F	85.2	35.3	7.6	0.4	t ^{2/}	0.5	0.9	44.3	t ^{2/}	44.3	18.3	5.4	1.1	1.6	2.7	0.9	25.7	1.6	27.3	70.0	1.6	71.6
	Alternative 4B	100.2	24.2	1.1	0.3		0.3	2.1	27.8		27.8	16.2	3.5		0.5	0.5	1.9	21.6	0.5	22.1	49.4	0.5	49.9
	Alternative 4C	101.6	23.2	1.8	0.3		0.3	0.3	25.6		25.6	15.4	3.2		0.5	0.5	2.2	20.8	0.5	21.3	46.4	0.5	46.9
	Alternative 4D	100.8	24.5	1.2	0.3		0.3	2.4	28.4		28.4	16.1	3.4		0.5	0.5	1.6	21.1	0.5	21.6	49.5	0.5	50.0
	Alternative 4E	102.2	23.4	1.9	0.3		0.3	0.6	26.3		26.3	15.4	3.1		0.5	0.5	1.8	20.4	0.5	20.9	46.6	0.5	47.1
	Alternative 4F	87.5	29.5	1.4	0.5	0.7	1.2	1.1	32.4	0.7	33.1	17.6	5.7	0.4	1.9	2.3	0.1	23.8	1.9	25.6	56.2	2.6	58.8
5	Proposed – Total Length	55.7	1.1	0.1					1.1		1.1	0.7	4.3					5.3		5.3	6.4		6.4
	Proposed – Comparison portion for Alternatives 5A,B	22.3	0.1	0.1					0.2		0.2	t ^{2/}	t ^{2/}					0.1		0.1	0.2		0.2
	Alternative 5A	29.7	0.1						0.1		0.1	0.1	0.7	0.1	0.4	0.4		0.9	0.4	1.3	1.0	0.4	1.4
	Alternative 5B	40.4	t ^{2/}	0.1					0.1		0.1	0.2	0.7	0.2	1.0	1.1		1.2	1.0	2.1	1.3	1.0	2.2
	Proposed – Comparison portion for Alternative 5C	32.9	0.1	0.1					0.2		0.2	0.7	2.2					2.9		2.9	3.1		3.1
	Alternative 5C	26.0	2.9					0.7	3.6		3.6	0.4	0.1	0.3	1.0	1.3	1.3	2.1	1.0	3.1	5.8	1.0	6.8
	Proposed – Comparison portion for Alternative 5D	19.2										0.7	3.4				0.2	4.3		4.3	4.3		4.3
	Alternative 5D	17.0										0.7	0.9	0.8	1.2	2.0		2.4	1.2	3.6	2.4	1.2	3.6
Proposed – Comparison portion for Alternative 5E	5.8											1.2				0.2	1.4		1.4	1.4		1.4	
6	Alternative 5E	5.3										0.2					0.2		0.2			0.2	
	Proposed – Total Length	0.5																					

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Due to permit criteria, acreages reported here are rounded to tenths of an acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

This table is based on Project-specific vegetation/wetland data, and the values reported herein may differ from the values reported specifically for National Forests within this EIS, since National Forest System data are used when addressing Forest-specific impacts.

^{1/} ROW Clearing limited to tall vegetation that may impact transmission line safety

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

^{3/} This number was manually changed from the GIS analysis. It was reduced by 17.2 acres based on matting techniques as described in Section 3.9.2.2.

^{4/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.9-1. Impacts to Wetlands and Riparian Areas during Construction (acres) cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Herbaceous Wetlands	Shrub Wetlands	Forested Wetlands			Mixed Wetlands	Total Wetlands			Herbaceous Riparian	Shrub Riparian	Forested Riparian			Mixed Riparian	Total Riparian			Total Wetlands and Riparian		
			Construction Facilities	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts	Construction Facilities	ROW Clearing ^{1/}	Total Construction Impacts
7	Proposed – Total Length	118.2	1.9	0.7			0.1	2.7	2.7	2.5	0.7	0.1	0.1	0.1	t ^{2/}	3.4	3.4	3.4	6.1	6.1	6.1		
	Proposed – Comparison portion for Alternatives 7A,B	35.1	0.1	0.1				0.2	0.2	0.3	0.4	t ^{2/}		t ^{2/}		0.7	0.7	0.7	0.9	0.9	0.9		
	Alternative 7A	37.7	0.2	0.4			5.7	6.3	6.3	0.3	1.6	0.1	0.3	0.4	0.3	2.3	0.3	2.6	8.6	0.3	8.9		
	Alternative 7B	46.2								0.1	1.3	0.1		0.1		1.5		1.5	1.5		1.5		
	Proposed – Comparison portion for Alternative 7C	20.1		0.1				t ^{2/}	0.1	0.1	t ^{2/}								0.1		0.1		
	Alternative 7C	20.3																					
	Proposed – Comparison portion for Alternative 7D	6.2	1.4					1.4	1.4	2.1	t ^{2/}	0.1		0.1		2.2		2.2	3.6		3.6		
	Alternative 7D	6.8	1.4					1.4	1.4	2.2	0.3	0.1		0.1		2.6		2.6	3.9		3.9		
	Proposed – Comparison portion for Alternative 7E	3.8																					
	Alternative 7E	4.5																					
	Proposed – Comparison portion for Alternative 7F	10.5	0.4					0.4	0.4	0.1						0.1		0.1	0.5		0.5		
	Alternative 7F	10.8								0.1	t ^{2/}				0.1		0.1	0.1	0.1		0.1		
	Proposed – Comparison portion for Alternative 7G	3.3					0.1	0.1	0.1														
	Alternative 7G	3.4					0.1	0.1	0.1		0.9			0.1	1.0		1.0	1.1		1.1			
Proposed – Comparison portion for Alternative 7K	118.2	1.9	0.7			0.1	2.7	2.7	2.5	0.7	0.1		0.1	t ^{2/}	3.3		3.3	6.0		6.0			
Alternative 7K	148.1	2.9	1.9	t ^{2/}	t ^{2/}	1.3	6.1	6.1	0.7	4.1	1.3	1.3	2.6	2.9	9.0	1.3	10.3	15.1	1.3	16.4			
8	Proposed – Total Length	131.5	7.2	0.1				7.3	7.3	0.8	0.5	0.1	0.1	0.2	0.2	1.7	0.1	1.7	9.0	0.1	9.1		
	Proposed – Comparison portion for Alternative 8A	51.9	1.6	t ^{2/}				1.6	1.6	0.1	0.1	0.1	0.1	0.2	0.1	0.4	0.1	0.5	2.1	0.1	2.2		
	Alternative 8A	53.6	0.2	0.4			0.1	0.7	0.7	t ^{2/}	0.2	1.3	4.8	6.1		1.5	4.8	6.3	2.2	4.8	7.0		
	Proposed – Comparison portion for Alternative 8B	45.3								0.6	0.3					1.0		1.0	1.0		1.0		
	Alternative 8B	45.8	4.4	1.9				6.3	6.3	1.1	0.4	t ^{2/}	0.4	0.4	0.1	1.6	0.4	2.0	7.9	0.4	8.3		
	Proposed – Comparison portion for Alternative 8C	6.5								0.1	0.1					0.2		0.2	0.2		0.2		
	Alternative 8C	6.4									0.1				0.1		0.1	0.1		0.1			
	Proposed – Comparison portion for Alternative 8D	6.9								t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}			
	Alternative 8D	8.1								t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}			
	Proposed – Comparison portion for Alternative 8E	7.0																					
Alternative 8E	18.3								0.2						0.2		0.2			0.2			
9	Proposed – Total Length	162.2	1.1	0.4			0.2	1.7	1.7	0.4	2.9	0.1	t ^{2/}	0.1	0.9	4.3	t ^{2/}	4.3	6.0	t ^{2/}	6.0		
	Proposed – Comparison portion for Alternative 9A	7.8	0.3							t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}		
	Alternative 9A	7.7								0.3						0.3		0.3	0.3		0.3		
	Proposed – Comparison portion for Alternative 9B	49.1								0.3	0.1					0.4		0.4	0.4		0.4		
	Alternative 9B	52.3	t ^{2/}					t ^{2/}	t ^{2/}		0.3		0.3	0.3		0.3	0.3	0.6	0.3	0.3	0.6		
	Proposed – Comparison portion for Alternative 9C	14.4								0.3	t ^{2/}					0.3		0.3	0.3		0.3		
	Alternative 9C	14.4																					
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	0.8	0.4			0.2	1.4	1.4	t ^{2/}	2.8				0.9	3.7		3.7	5.1		5.1		
	Alternative 9D	60.1	0.3	0.4				0.7	0.7	0.3	0.4	t ^{2/}		t ^{2/}	1.2	1.9		1.9	2.6		2.6		
	Alternative 9F	63.3	0.6	0.9			0.2	1.6	1.6	0.3	2.7	t ^{2/}		t ^{2/}	2.1	5.1		5.1	6.7		6.7		
	Alternative 9G	57.8	1.0	0.4				1.4	1.4	0.1	1.2	t ^{2/}		t ^{2/}	1.2	2.5		2.5	4.0		4.0		
	Alternative 9H	61.0	1.3	0.9			0.2	2.3	2.3	0.2	2.7	t ^{2/}		t ^{2/}	2.1	5.0		5.0	7.3		7.3		
Proposed – Comparison portion for Alternative 9E (revised)	61.4	0.8	0.4			0.2	1.4	1.4	t ^{2/}	2.8				0.9	3.7		3.7	5.1		5.1			
Alternative 9E (revised)	70.6	0.2	0.8				1.0	1.0	t ^{2/}	1.1				0.4	1.5		1.5	2.5		2.5			
10	Proposed – Total Length	34.4									0.8					0.8		0.8	0.8		0.8		
Total of Proposed Segments (grey shading)			71.6	16.2	0.9	3.3	4.2	3.1	92.0	3.3	95.2	26.2	30.9	2.2	3.7	5.9	3.9	63.3	3.7	67.0	158.3	8.2	166.5

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Due to permit criteria, acreages reported here are rounded to tenths of an acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

This table is based on Project-specific vegetation/wetland data, and the values reported herein may differ from the values reported specifically for National Forests within this EIS, since National Forest System data are used when addressing Forest-specific impacts.

^{1/} ROW Clearing limited to tall vegetation that may impact transmission line safety

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

^{3/} This number was manually changed from the GIS analysis. It was reduced by 17.2 acres based on matting techniques as described in Section 3.9.2.2.

Table D.9-2. Impacts to Wetlands and Riparian Areas during Operations (acres)

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Herbaceous Wetlands	Shrub Wetlands	Forested Wetlands		Mixed Wetlands	Total Wetlands			Herbaceous Riparian	Shrub Riparian	Forested Riparian		Mixed Riparian	Total Riparian			Total Wetlands and Riparian				
			Operations Facilities	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	Operations Facilities	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts (acres)	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts
1W	1W(a) Proposed – Total Length	73.8	0.3	0.2	0.1	1.8	1.9	t ^{2/}	0.6	1.8	2.4	0.4	0.3	t ^{2/}	1.3	1.4	0.2	0.9	1.3	2.3	1.5	3.2	4.7
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5		0.1	0.1	1.8	1.9		0.1	1.8	2.0	t ^{2/}	t ^{2/}	t ^{2/}	1.2	1.3	t ^{2/}	0.1	1.2	1.3	0.3	3.1	3.3
	Alternative 1W(a)-B	20.9	t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}						t ^{2/}		t ^{2/}	0.1		0.1
	1W(c) Proposed – Total Length	73.6	0.2		0.1	2.2	2.3	0.2	0.5	2.2	2.7	0.3	0.1		1.7	1.7	t ^{2/}	0.4	1.7	2.2	0.9	4.0	4.9
2	Proposed – Total Length	91.9	0.2	0.1					0.2		0.2	t ^{2/}	1.4					1.4		1.4	1.6		1.6
	Proposed – Comparison portion for Alternative 2A	16.8	0.1	t ^{2/}					0.2		0.2		t ^{2/}					t ^{2/}		t ^{2/}	0.2		0.2
	Alternative 2A	16.0		0.2				t ^{2/}	0.2		0.2	0.1	0.2		3.9	3.9		0.3	3.9	4.1	0.5	3.9	4.4
	Proposed – Comparison portion for Alternative 2B	12.5	0.1	t ^{2/}					0.2		0.2		t ^{2/}					t ^{2/}		t ^{2/}	0.2		0.2
3	Alternative 2B	12.2						0.1	0.1	0.1		t ^{2/}		2.9	2.9	0.1	0.1	2.9	3.0	0.2	2.9	3.1	
	Segment 3 Proposed – Total Length	45.9	0.2	t ^{2/}				t ^{2/}	0.2		0.2	t ^{2/}	0.1					0.2		0.2	0.4		0.4
4 ^{4/}	Segment 3A Proposed – Total Length	5.1											0.2					0.2		0.2	0.2		0.2
	Proposed – Total Length	197.6	0.0 ^{3/}	0.6	t ^{2/}	1.7	1.8	0.2	0.8 ^{3/}	1.7	2.5 ^{3/}	1.1	1.5	0.3	3.4	3.6	0.4	3.2	3.4	6.6	4.0 ^{3/}	5.1	9.1 ^{3/}
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	2.3	0.4	t ^{2/}	0.1	0.1	0.1	2.7	0.1	2.8	0.5	0.6	0.2	2.3	2.5	0.3	1.6	2.3	3.9	4.4	2.3	6.7
	Alternative 4B	100.2	1.1	0.1	t ^{2/}		t ^{2/}	0.3	1.5		1.5	0.3	0.5		0.5	0.5	0.2	1.0	0.5	1.5	2.5	0.5	3.0
	Alternative 4C	101.6	0.8	0.2	t ^{2/}		t ^{2/}	0.1	1.2		1.2	0.3	0.5		0.5	0.5	0.2	0.9	0.5	1.4	2.1	0.5	2.6
	Alternative 4D	100.8	1.2	0.1	t ^{2/}		t ^{2/}	0.4	1.7		1.7	0.3	0.6		0.5	0.5	0.2	1.0	0.5	1.5	2.7	0.5	3.3
	Alternative 4E	102.2	0.9	0.3	t ^{2/}		t ^{2/}	0.2	1.4		1.4	0.3	0.5		0.5	0.5	0.2	0.9	0.5	1.4	2.3	0.5	2.8
Alternative 4F	87.5	1.4	0.2	0.1	0.7	0.8	0.1	1.6	0.7	2.4	0.3	0.6		2.2	2.2	t ^{2/}	1.0	2.2	3.2	2.6	3.0	5.6	
5	Proposed – Total Length	55.7	0.1	t ^{2/}					0.1		0.1	0.2	0.3					0.5		0.5	0.6		0.6
	Proposed – Comparison portion for Alternatives 5A,B	22.3	t ^{2/}	t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}	t ^{2/}					t ^{2/}		t ^{2/}	0.1		0.1
	Alternative 5A	29.7	t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}	0.2	t ^{2/}	0.4	0.4		0.2	0.4	0.6	0.3	0.4	0.7
	Alternative 5B	40.4		t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}	0.2	0.1	1.0	1.1		0.2	1.0	1.2	0.3	1.0	1.3
	Proposed – Comparison portion for Alternative 5C	32.9	t ^{2/}	t ^{2/}					t ^{2/}		t ^{2/}	0.2	0.3					0.5		0.5	0.6		0.6
	Alternative 5C	26.0	t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}	t ^{2/}	t ^{2/}	1.3	1.3	0.1	0.1	1.3	1.4	0.1	1.3	1.4
	Proposed – Comparison portion for Alternative 5D	19.2										0.2	0.3					0.5		0.5	0.5		0.5
	Alternative 5D	17.0										t ^{2/}	0.1	0.1	1.4	1.5		0.2	1.4	1.6	0.2	1.4	1.6
Proposed – Comparison portion for Alternative 5E	5.8											t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
Alternative 5E	5.3											t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
6	Proposed – Total Length	0.5																					

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Due to permit criteria, acreages reported here are rounded to tenths of an acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

This table is based on Project-specific vegetation/wetland data, and the values reported herein may differ from the values reported specifically for National Forests within this EIS, since National Forest System data are used when addressing Forest-specific impacts.

^{1/} ROW maintenance limited to tall vegetation that may impact transmission line safety

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

^{3/} This number was manually changed from the GIS analysis. It was reduced by 5.3 acres based on matting techniques as described in Section 3.9.2.2.

^{4/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.9-2. Impacts to Wetlands and Riparian Areas during Operations (acres) cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Herbaceous Wetlands	Shrub Wetlands	Forested Wetlands			Mixed Wetlands	Total Wetlands			Herbaceous Riparian	Shrub Riparian	Forested Riparian			Mixed Riparian	Total Riparian			Total Wetlands and Riparian			
			Operations Facilities	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	Operations Facilities	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts (acres)	Operations Facilities	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	Operations Facilities	ROW Maintenance ^{1/}	Total Operation Impacts	
7	Proposed – Total Length	118.2	0.1	0.1				t ^{2/}	0.2		0.2	0.1	0.1	t ^{2/}	t ^{2/}	t ^{2/}	0.3		0.3	0.5		0.5		
	Proposed – Comparison portion for Alternatives 7A,B	35.1	t ^{2/}	t ^{2/}					0.1		0.1	t ^{2/}	t ^{2/}	t ^{2/}			0.1		0.1	0.1		0.1		
	Alternative 7A	37.7	t ^{2/}	t ^{2/}				0.3	0.3		0.3	t ^{2/}	0.2	t ^{2/}	0.4		0.4	0.3	0.4	0.6	0.6		0.6	
	Alternative 7B	46.2										t ^{2/}	0.1	t ^{2/}				0.2		0.2	0.2		0.2	
	Proposed – Comparison portion for Alternative 7C	20.1		t ^{2/}							t ^{2/}	t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
	Alternative 7C	20.3																						
	Proposed – Comparison portion for Alternative 7D	6.2	t ^{2/}									t ^{2/}	t ^{2/}	t ^{2/}	t ^{2/}			0.1		0.1	0.1		0.1	
	Alternative 7D	6.8	t ^{2/}									t ^{2/}	t ^{2/}	t ^{2/}	t ^{2/}			0.1		0.1	0.1		0.1	
	Proposed – Comparison portion for Alternative 7E	3.8																						
	Alternative 7E	4.5																						
	Proposed – Comparison portion for Alternative 7F	10.5	t ^{2/}									t ^{2/}							t ^{2/}		t ^{2/}	0.1		0.1
	Alternative 7F	10.8										t ^{2/}	t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}
	Proposed – Comparison portion for Alternative 7G	3.3										t ^{2/}	t ^{2/}								t ^{2/}			t ^{2/}
	Alternative 7G	3.4										t ^{2/}	t ^{2/}								t ^{2/}			t ^{2/}
Proposed – Comparison portion for Alternative 7K	118.2	0.1	0.1						0.2		0.2	0.1	0.1	t ^{2/}			0.3		0.3	0.5		0.5		
Alternative 7K	148.1	0.1	0.1						0.3		0.5	0.1	0.7	0.3	1.4	1.7	0.5	1.6	1.4	3.0	2.1	1.4	3.5	
8	Proposed – Total Length	131.5	0.3	t ^{2/}					0.3		0.3	0.2	0.1	t ^{2/}	0.1	0.1	t ^{2/}	0.4	0.1	0.4	0.7	0.1	0.8	
	Proposed – Comparison portion for Alternative 8A	51.9	0.1						0.1		0.1	t ^{2/}	t ^{2/}	t ^{2/}	0.1	0.1		0.1	0.1	0.2	0.2	0.1	0.3	
	Alternative 8A	53.6	0.1	0.1					t ^{2/}	0.2	0.2	t ^{2/}	t ^{2/}	0.2	5.5	5.7		0.2	5.5	5.8	0.4	5.5	5.9	
	Proposed – Comparison portion for Alternative 8B	45.3									0.0	0.2	t ^{2/}					0.2		0.2	0.2		0.2	
	Alternative 8B	45.8	0.1						0.1		0.1	0.1	0.1		0.4	0.4	t ^{2/}	0.2	0.4	0.6	0.2	0.4	0.6	
	Proposed – Comparison portion for Alternative 8C	6.5											t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}
	Alternative 8C	6.4											t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}
	Proposed – Comparison portion for Alternative 8D	6.9																						
	Alternative 8D	8.1																						
	Proposed – Comparison portion for Alternative 8E	7.0																						
Alternative 8E	18.3																							
9	Proposed – Total Length	162.2	0.1	0.1					0.3		0.3	t ^{2/}	0.5		t ^{2/}	t ^{2/}	0.1	0.7	t ^{2/}	0.7	0.9	t ^{2/}	0.9	
	Proposed – Comparison portion for Alternative 9A	7.8										t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
	Alternative 9A	7.7										t ^{2/}						t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
	Proposed – Comparison portion for Alternative 9B	49.1										t ^{2/}	t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
	Alternative 9B	52.3										0.1		0.3	0.3			0.1	0.3	0.4	0.1	0.3	0.4	
	Proposed – Comparison portion for Alternative 9C	14.4										t ^{2/}	t ^{2/}					t ^{2/}		t ^{2/}	t ^{2/}		t ^{2/}	
	Alternative 9C	14.4																						
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	0.1	0.1						0.3		0.3	t ^{2/}	0.5				0.1	0.6	0.6	0.9		0.9	
	Alternative 9D	60.1	t ^{2/}							t ^{2/}		t ^{2/}	t ^{2/}	t ^{2/}	t ^{2/}			0.1	0.6	0.6	0.9		0.9	
	Alternative 9F	63.3	0.1	0.1						0.3		0.3	0.2	t ^{2/}	t ^{2/}			0.1	0.3	0.3	0.6		0.6	
Alternative 9G	57.8	0.2							0.2		0.2	t ^{2/}	t ^{2/}	t ^{2/}			t ^{2/}		t ^{2/}	0.2		0.2		
Alternative 9H	61.0	0.3	0.1						0.5		0.5	0.2	t ^{2/}	t ^{2/}			0.1	0.3	0.3	0.8		0.8		
Proposed – Comparison portion for Alternative 9E (revised)	61.4	0.1	0.1						0.2		0.2	t ^{2/}	0.5				0.1	0.6	0.6	0.8		0.8		
Alternative 9E (revised)	70.6	0.1	t ^{2/}						0.1		0.1	t ^{2/}	0.1				0.1	0.1	0.1	0.2		0.2		
10	Proposed – Total Length	34.4											0.1					0.1	0.1	0.1	0.1		0.1	
Total of Proposed Segments (grey shading)			1.2	1.0	0.1	3.6	3.7	0.2	3.2	5.7	8.9	2.0	4.7	0.3	4.8	5.2	0.7	8.3	6.5	14.9	11.4	12.4	23.8	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Due to permit criteria, acreages reported here are rounded to tenths of an acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

This table is based on Project-specific vegetation/wetland data, and the values reported herein may differ from the values reported specifically for National Forests within this EIS, since National Forest System data are used when addressing Forest-specific impacts.

^{1/} ROW maintenance limited to tall vegetation that may impact transmission line safety

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.10-1. Miles of Big Game Crossed by the Proposed and Alternative Routes

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Bighorn Sheep Winter Range	Elk Calving Areas ^{1/}	Elk Winter Range	Moose Winter Range	Mule Deer Winter Range	Pronghorn Winter Range
1W	1W(a) Proposed – Total Length	73.8			5.4		40.3	27.9
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5					16.5	14.9
	Alternative 1W(a)-B	20.9					18.0	18.3
	1W(c) Proposed – Total Length	73.6			5.4		39.6	28.8
2	Proposed – Total Length	91.9				2.4	75.5	86.2
	Proposed – Compare to Alternative 2A	16.8				2.4	12.7	16.8
	Alternative 2A	16.0					8.7	16.0
	Proposed – Compare to Alternative 2B	12.5				2.4	10.5	12.5
	Alternative 2B	12.2					8.1	12.2
3	Segment 3 Proposed – Total Length	45.9					28.3	45.9
	Segment 3A Proposed – Total Length	5.1					5.1	5.1
4 ^{3/}	Proposed – Total Length	197.6		8.2 ^{2/}	33.8	22.1	75.4	84.7
	Proposed – Compare to Alternatives 4B-4F	85.2		8.2	17.6	22.1	17.3	33.1
	Alternative 4B	100.2			34.2	4.1	41.6	23.0
	Alternative 4C	101.6			35.7	16.4	43.7	22.3
	Alternative 4D	100.8			33.7	4.1	41.7	23.0
	Alternative 4E	102.2			35.2	16.4	43.8	22.3
	Alternative 4F	87.5		8.2	12.6	21.5	17.9	28.0
5	Proposed – Total Length	55.7					33.7	
	Proposed – Compare to Alternatives 5A,B	22.3					8.3	
	Alternative 5A	29.7					12.3	
	Alternative 5B	40.4					20.3	
	Proposed – Compare to Alternative 5C	32.9					21.5	
	Alternative 5C	26.0			8.6		7.8	
	Proposed – Compare to Alternative 5D	19.2					16.7	
	Alternative 5D	17.0					14.0	
	Proposed – Compare to Alternative 5E	5.8					3.5	
Alternative 5E	5.3					3.6		
6	Proposed – Total Length	0.5					0.3	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

^{1/} Data have been received only for Wyoming portions of the route. Blank cells do not indicate that no parturition range will be crossed

^{2/} These numbers only represent the Wyoming portion of Segment 4

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-1. Miles of Big Game Crossed by the Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Bighorn Sheep Winter Range	Elk Calving Areas ^{1/}	Elk Winter Range	Moose Winter Range	Mule Deer Winter Range	Pronghorn Winter Range	
7	Proposed – Total Length	118.2					49.2		
	Proposed – Compare to Alternatives 7A,B	35.1					15.7		
	Alternative 7A	37.7					6.9		
	Alternative 7B	46.2					10.3		
	Proposed – Compare to Alternative 7C	20.1					4.8		
	Alternative 7C	20.3					7.3		
	Proposed – Compare to Alternative 7D	6.2					2.0		
	Alternative 7D	6.8					2.0		
	Proposed – Compare to Alternative 7E	3.8					3.0		
	Alternative 7E	4.5					4.5		
	Proposed – Compare to Alternative 7F	10.5					9.6		
	Alternative 7F	10.8					10.8		
	Proposed – Compare to Alternative 7G	3.3					3.3		
	Alternative 7G	3.4					3.3		
8	Proposed – Total Length	131.5			17.5		45.1	7.4	
	Proposed – Compare to Alternative 8A	51.9			1.9		40.0		
	Alternative 8A	53.6					20.4		
	Proposed – Compare to Alternative 8B	45.3			4.1				
	Alternative 8B	45.8			4.1				
	Alternative 8B – Compare to Alternative 8C	6.5			4.1				
	Alternative 8C	6.4			5.6				
	Proposed – Compare to Alternative 8D	6.9							
	Alternative 8D	8.1							
	Proposed – Comparison portion for Alternative 8E	7.0							
	Alternative 8E	18.3	1.4						
	9	Proposed – Total Length	162.2					10.0	20.0
		Proposed – Compare to Alternative 9A	7.8					1.9	
		Alternative 9A	7.7					2.1	
Proposed – Compare to Alternative 9B		49.1							
Alternative 9B		52.3							
Proposed – Compare to Alternative 9C		14.4							
Alternative 9C		14.4							
Proposed – Comparison portion for Alternatives 9D,F,G,H		57.2						13.4	
Alternative 9D		60.1	1.4					0.4	
Alternative 9F		63.3	1.4					0.4	
Alternative 9G		57.8	1.7					0.4	
Alternative 9H		61.0	1.7					0.4	
Proposed – Comparison portion for Alternative 9E (revised)		61.4			17.6			17.6	
Alternative 9E (revised)		70.6	4.3		25.3			25.3	
10	Proposed – Total Length	34.4					10.8		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

^{1/} Data have been received only for Wyoming portions of the route. Blank cells do not indicate that no parturition range will be crossed

Table D.10-2. Known Raptor and Bird of Prey Nest Locations within 1 mile of Project Centerline

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Raptor and Birds of Prey Nests															Total
			American Kestrel	Bald Eagle	Burrowing Owl	Common Raven	Ferruginous Hawk	Golden Eagle	Great Horned Owl	Long-eared Owl	Northern Goshawk	Northern Harrier	Osprey	Prairie Falcon	Red-tailed Hawk	Short-eared Owl	Swainsons Hawk	
1W	1W(a) Proposed – Total Length	73.8	1	1		3	14	8			1			2	4			34
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5		1				3							4			8
	Alternative 1W(a)-B	20.9						2										2
2	1W(c) Proposed – Total Length	73.6	1	1		4	14	2	1		1		2	3				29
	Proposed – Total Length	91.9	5		5	5	105	37	2			4	7	17	1	2		190
	Proposed – Comparison portion for Alternative 2A	16.8	1				19	10	1					3				34
	Alternative 2A	16.0	1	2			2	3						2				10
	Proposed – Comparison portion for Alternative 2B	12.5					19	8	1					3				31
3	Alternative 2B	12.2		2			10	7						3				22
	Segment 3 Proposed – Total Length	45.9	2		2	5	17	12	1			1	12	7				59
	Segment 3A Proposed – Total Length	5.1				1	1	2	1				5					10
4 ^{1/}	Proposed – Total Length	197.6	6	3		18	16	14	7	1	4	2	1	15	33		2	122
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	1			6	3	8	1	1			1	1	17		2	41
	Alternative 4B	100.2	1		1	2		6	1					2	8		1	22
	Alternative 4C	101.6	1		1	2		6	1					2	8		1	22
	Alternative 4D	100.8	1		1	2		6	1					2	8		1	22
	Alternative 4E	102.2	1		1	2		6	1					2	8		1	22
	Alternative 4F	87.5	1			5	3	7	1	1				1	12		1	32
5	Proposed – Total Length	55.7		2	1			1										4
	Proposed – Comparison portion for Alternatives 5A,B	22.3						1										1
	Alternative 5A	29.7						3										3
	Alternative 5B	40.4						2										2
	Proposed – Comparison portion for Alternative 5C	32.9						1										1
	Alternative 5C	26.0																
	Proposed – Comparison portion for Alternative 5D	19.2		2				1										3
	Alternative 5D	17.0		2				1										3
	Proposed – Comparison portion for Alternative 5E	5.8		2														2
Alternative 5E	5.3																	
6	Proposed – Total Length	0.5																

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-2. Known Raptor and Bird of Prey Nest Locations within 1 mile of Project Centerline cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Raptor and Birds of Prey Nests															Total
			American Kestrel	Bald Eagle	Burrowing Owl	Common Raven	Ferruginous Hawk	Golden Eagle	Great Horned Owl	Long-eared Owl	Northern Goshawk	Northern Harrier	Osprey	Prairie Falcon	Red-tailed Hawk	Short-eared Owl	Swainsons Hawk	
7	Proposed – Total Length	118.2			3		9	2										14
	Proposed – Comparison portion for Alternatives 7A,B	35.1																
	Alternative 7A	37.7																
	Alternative 7B	46.2																
	Proposed – Comparison portion for Alternative 7C	20.1			2		2											4
	Alternative 7C	20.3																
	Proposed – Comparison portion for Alternative 7D	6.2			1			1										2
	Alternative 7D	6.8			1													1
	Proposed – Comparison portion for Alternative 7E	3.8					7	1										8
	Alternative 7E	4.5					7	1										8
	Proposed – Comparison portion for Alternative 7F	10.5					7	1										8
	Alternative 7F	10.8					7	1										8
	Proposed – Comparison portion for Alternative 7G	3.3																
	Alternative 7G	3.4																
Proposed – Comparison portion for Alternative 7K	118.2			3		9	2										14	
Alternative 7K	148.1			1		61	11			3				2		2	80	
Proposed – Total Length	131.5			43		74	20						170				307	
8	Proposed – Comparison portion for Alternative 8A	51.9			1			8									9	
	Alternative 8A	53.6						20						3			23	
	Proposed – Comparison portion for Alternative 8B	45.3			42		56	6					170				274	
	Alternative 8B	45.8			34		20										54	
	Proposed – Comparison portion for Alternative 8C	6.5					13										13	
	Alternative 8C	6.4					18										18	
	Proposed – Comparison portion for Alternative 8D	6.9			14		25										39	
	Alternative 8D	8.1			17		27										44	
	Proposed – Comparison portion for Alternative 8E	7.0			19		2	3						160			184	
	Alternative 8E	18.3			16		23	7						446			492	
Proposed – Total Length	162.2			9	3	42	57						18			6	135	
9	Proposed – Comparison portion for Alternative 9A	7.8					2										2	
	Alternative 9A	7.7						2									2	
	Proposed – Comparison portion for Alternative 9B	49.1			3		9	24						14			6	56
	Alternative 9B	52.3	1		1		4	50						9	4			69
	Proposed – Comparison portion for Alternative 9C	14.4			1		9	11						1			6	28
	Alternative 9C	14.4	1		1		4	32						1	1			40
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			4	1	7	3										15
	Alternative 9D	60.1			101		39	21						446				607
	Alternative 9F	63.3			96		44	15						415				570
	Alternative 9G	57.8			95		34	26						460				615
	Alternative 9H	61.0			90		39	20						429				578
Proposed – Comparison portion for Alternative 9E (revised)	61.4			4	1	7	8						1				21	
Alternative 9E (revised)	70.6			3		10	11										24	
10	Proposed – Total Length	34.4			2			3								1		6

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Table D.10-3a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Pre-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
1W	1W(a) Proposed – Total Length	73.8	856	61	271	379	391	587	131	65	130	55
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	492	11	246	122	244	272	112	57	135	49
	Alternative 1W(a)-B	20.9	891	5	194	176	262	304	88	123	149	37
	1W(c) Proposed – Total Length	73.6	871	61	275	378	399	553	133	71	135	49
2	Proposed – Total Length	91.9			476	940	332	35	106	55	134	32
	Proposed – Comparison portion for Alternative 2A	16.8			442	221	260	3	73	32	164	21
	Alternative 2A	16.0			412	228	260	3	78	38	71	7
	Proposed – Comparison portion for Alternative 2B	12.5			388	196	260	3	73	32	192	17
	Alternative 2B	12.2			376	196	260	3	78	33	156	17
3	Segment 3 Proposed – Total Length	45.9	250	4	804	324						
	Segment 3A Proposed – Total Length	5.1	43	2	1,106	45						
4 ^{1/}	Proposed – Total Length	197.6	78	879	383	2,028	17	831	64	635	232	525
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	293	43	608	658	23	106	199	95	176	157
	Alternative 4B	100.2	7	10	615	765	11	197	196	180	208	124
	Alternative 4C	101.6	7	10	613	766	10	176	201	180	217	142
	Alternative 4D	100.8	7	10	614	768	11	197	196	180	208	124
	Alternative 4E	102.2	7	10	612	769	10	176	201	180	217	142
	Alternative 4F	87.5	426	59	573	697	24	105	192	103	160	161
5	Proposed – Total Length	55.7	46	703	110	1,092	21	1,037	11	187	249	513
	Proposed – Comparison portion for Alternatives 5A,B	22.3	54	480	132	518	20	321	8	100	304	144
	Alternative 5A	29.7	52	626	125	671	23	379	7	112	294	191
	Alternative 5B	40.4	36	776	150	813	21	511	7	144	275	272
	Proposed – Comparison portion for Alternative 5C	32.9	51	594	128	652	19	549	11	115	323	221
	Alternative 5C	26.0	19	582	143	638	25	636	12	144	235	181
	Proposed – Comparison portion for Alternative 5D	19.2	63	259	106	414	17	420	11	94	307	172
	Alternative 5D	17.0	63	227	91	415	17	422	9	90	326	167
	Proposed – Comparison portion for Alternative 5E	5.8	13	73	114	166	16	281	13	56	255	121
Alternative 5E	5.3	13	73	114	164	16	278	15	57	249	119	
6	Proposed – Total Length	0.5			47	240	78	238	10	43	207	166

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-3a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Pre-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
7	Proposed – Total Length	118.2	34	1,173	89	2,273	41	2,275	10	208	217	1,341
	Proposed – Comparison portion for Alternatives 7A,B	35.1	42	685	128	774	22	682	8	116	302	220
	Alternative 7A	37.7	32	915	141	827	23	675	7	99	270	231
	Alternative 7B	46.2	20	1,013	167	899	21	766	7	139	271	293
	Proposed – Comparison portion for Alternative 7C	20.1	14	182	53	735	72	727	9	29	185	211
	Alternative 7C	20.3	14	196	62	570	67	655	3	3	212	252
	Proposed – Comparison portion for Alternative 7D	6.2	25	126	56	412	42	394	5	10	109	188
	Alternative 7D	6.8	25	126	55	420	42	396	5	10	110	198
	Proposed – Comparison portion for Alternative 7E	3.8	21	93	136	125	18	186	5	12	171	165
	Alternative 7E	4.5	22	97	120	149	20	202	5	13	171	171
	Proposed – Comparison portion for Alternative 7F	10.5	28	155	113	228	22	273	19	31	197	242
	Alternative 7F	10.8	30	165	114	246	22	301	19	42	193	236
	Proposed – Comparison portion for Alternative 7G	3.3	20	138	254	77	14	122	7	3	207	120
	Alternative 7G	3.4	20	134	258	75	14	121	7	3	210	120
	Proposed – Comparison portion for Alternative 7K	118.2	34	1,173	89	2,273	41	2,275	10	208	217	1,341
Alternative 7K	148.1	30	2,434	147	2,896	38	2,346	11	411	189	986	
8	Proposed – Total Length	131.5			58	5,290	36	6,749	12	205	153	902
	Proposed – Comparison portion for Alternative 8A	51.9			58	1,818	45	2,143	15	50	171	551
	Alternative 8A	53.6			39	2,069	47	2,167	10	48	150	786
	Proposed – Comparison portion for Alternative 8B	45.3			55	2,315	33	2,914	9	116	139	237
	Alternative 8B	45.8			52	1,719	39	2,166	12	76	159	499
	Proposed – Comparison portion for Alternative 8C	6.5			67	482	39	655	13	15	279	26
	Alternative 8C	6.4			64	498	40	667	12	17	253	23
	Proposed – Comparison portion for Alternative 8D	6.9			39	819	39	823			64	52
	Alternative 8D	8.1			38	843	42	836			60	81
	Proposed – Comparison portion for Alternative 8E	7.0			39	709	36	790	6	40	141	70
Alternative 8E	18.3			41	1,207	37	1,344	8	65	119	88	
9	Proposed – Total Length	162.2	16	96	56	6,126	40	7,009	23	362	117	1,736
	Proposed – Comparison portion for Alternative 9A	7.8	9	13	65	308	40	434	4	3	142	241
	Alternative 9A	7.7	9	13	68	319	41	443	4	3	133	232
	Proposed – Comparison portion for Alternative 9B	49.1			68	1,758	50	2,015	14	44	115	510
	Alternative 9B	52.3			49	2,087	42	2,249	12	105	134	734
	Proposed – Comparison portion for Alternative 9C	14.4			152	396	19	674	8	12	193	159
	Alternative 9C	14.4			150	371	14	651	7	12	219	181
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			44	2,763	41	2,885	29	242	96	656
	Alternative 9D	60.1			36	3,547	33	3,932	24	299	74	686
	Alternative 9F	63.3			36	3,622	35	3,909	24	288	82	714
	Alternative 9G	57.8			36	3,405	34	3,756	26	275	76	667
	Alternative 9H	61.0			36	3,480	36	3,733	26	264	84	695
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			46	2,926	39	3,192	28	260	95	680
Alternative 9E (revised)	70.6			78	2,772	40	3,578	32	120	85	263	
10	Proposed – Total Length	34.4	16	65	34	844	76	783	7	35	204	551

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.10-3a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads cont.

Segment Number	Segment/Alternative Name	Segment Length (Miles)	Post-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
1W	1W(a) Proposed – Total Length	73.8	842	62	260	394	372	617	127	67	125	57
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	492	11	237	127	228	290	110	58	129	51
	Alternative 1W(a)-B	20.9	891	5	188	181	248	321	88	124	142	39
	1W(c) Proposed – Total Length	73.6	857	62	264	393	380	582	129	73	130	51
2	Proposed – Total Length	91.9			464	963	323	36	104	56	134	32
	Proposed – Comparison portion for Alternative 2A	16.8			417	234	260	3	73	32	164	21
	Alternative 2A	16.0			390	241	260	3	78	38	71	7
	Proposed – Comparison portion for Alternative 2B	12.5			364	209	260	3	73	32	192	17
	Alternative 2B	12.2			352	209	260	3	78	33	156	17
3	Segment 3 Proposed – Total Length	45.9	250	4	782	333						
	Segment 3A Proposed – Total Length	5.1	43	2	1,082	46						
4 ^{1/}	Proposed – Total Length	197.6	75	915	370	2,098	17	841	63	645	226	539
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	273	46	583	686	23	107	199	95	165	167
	Alternative 4B	100.2	7	10	580	812	11	198	192	183	197	131
	Alternative 4C	101.6	7	10	574	818	10	177	198	183	196	157
	Alternative 4D	100.8	7	10	579	815	11	198	192	183	197	131
	Alternative 4E	102.2	7	10	573	821	10	177	198	183	196	157
	Alternative 4F	87.5	412	61	552	723	24	106	192	103	152	169
5	Proposed – Total Length	55.7	43	752	100	1,205	20	1,086	10	191	232	551
	Proposed – Comparison portion for Alternatives 5A,B	22.3	49	523	115	596	18	347	8	103	259	169
	Alternative 5A	29.7	46	705	108	778	21	415	6	118	257	218
	Alternative 5B	40.4	32	860	130	936	20	556	7	150	238	315
	Proposed – Comparison portion for Alternative 5C	32.9	48	636	114	734	18	581	10	117	286	250
	Alternative 5C	26.0	19	595	130	699	23	671	12	145	212	201
	Proposed – Comparison portion for Alternative 5D	19.2	59	279	96	458	16	441	10	96	288	183
	Alternative 5D	17.0	58	247	83	457	16	444	9	92	306	178
	Proposed – Comparison portion for Alternative 5E	5.8	13	74	103	183	15	297	13	57	247	125
Alternative 5E	5.3	13	74	104	180	15	294	15	58	241	123	
6	Proposed – Total Length	0.5			45	249	74	251	10	44	196	175

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-3a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads cont.

Segment Number	Segment/Alternative Name	Segment Length (Miles)	Post-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
7	Proposed – Total Length	118.2	32	1,249	83	2,454	39	2,381	10	213	205	1,418
	Proposed – Comparison portion for Alternatives 7A,B	35.1	39	738	113	873	21	717	8	121	263	252
	Alternative 7A	37.7	30	991	123	944	22	725	6	104	234	267
	Alternative 7B	46.2	19	1,076	148	1,012	20	815	7	144	236	337
	Proposed – Comparison portion for Alternative 7C	20.1	14	187	51	767	70	749	9	29	178	219
	Alternative 7C	20.3	14	201	59	602	65	677	3	3	205	260
	Proposed – Comparison portion for Alternative 7D	6.2	24	129	51	449	39	426	5	10	107	192
	Alternative 7D	6.8	24	129	50	457	39	428	5	10	108	202
	Proposed – Comparison portion for Alternative 7E	3.8	19	103	107	159	16	214	5	12	158	179
	Alternative 7E	4.5	20	107	98	183	17	230	5	13	158	185
	Proposed – Comparison portion for Alternative 7F	10.5	27	165	97	264	19	306	19	31	181	263
	Alternative 7F	10.8	28	175	100	282	20	334	19	42	177	257
	Proposed – Comparison portion for Alternative 7G	3.3	19	143	239	82	13	131	7	3	194	128
	Alternative 7G	3.4	20	139	242	80	13	130	7	3	197	128
	Proposed – Comparison portion for Alternative 7K	118.2	32	1,249	83	2,454	39	2,381	10	213	205	1,418
Alternative 7K	148.1	29	2,562	135	3,144	36	2,503	11	418	181	1,031	
8	Proposed – Total Length	131.5			56	5,530	35	7,061	11	208	146	945
	Proposed – Comparison portion for Alternative 8A	51.9			55	1,892	43	2,241	15	50	161	585
	Alternative 8A	53.6			37	2,176	45	2,294	10	48	142	832
	Proposed – Comparison portion for Alternative 8B	45.3			52	2,443	31	3,079	9	118	136	243
	Alternative 8B	45.8			50	1,787	38	2,253	12	76	157	506
	Proposed – Comparison portion for Alternative 8C	6.5			62	518	37	691	13	15	279	26
	Alternative 8C	6.4			60	534	38	703	12	17	253	23
	Proposed – Comparison portion for Alternative 8D	6.9			38	849	37	866			61	54
	Alternative 8D	8.1			37	875	40	883			58	83
	Proposed – Comparison portion for Alternative 8E	7.0			37	763	33	858	6	41	135	73
Alternative 8E	18.3			38	1,284	34	1,446	8	66	115	91	
9	Proposed – Total Length	162.2	16	96	53	6,461	39	7,342	23	366	114	1,785
	Proposed – Comparison portion for Alternative 9A	7.8	9	13	62	323	39	451	4	3	140	244
	Alternative 9A	7.7	9	13	65	334	40	462	4	3	132	235
	Proposed – Comparison portion for Alternative 9B	49.1			64	1,858	48	2,091	14	44	110	531
	Alternative 9B	52.3			46	2,222	39	2,366	12	105	127	775
	Proposed – Comparison portion for Alternative 9C	14.4			142	424	18	688	8	12	185	166
	Alternative 9C	14.4			139	401	14	665	7	12	206	192
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			41	2,935	39	3,067	29	246	94	670
	Alternative 9D	60.1			34	3,705	32	4,115	24	303	72	701
	Alternative 9F	63.3			34	3,781	34	4,093	24	292	80	731
	Alternative 9G	57.8			34	3,559	32	3,930	26	279	74	679
	Alternative 9H	61.0			34	3,635	34	3,908	25	268	82	709
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			44	3,040	37	3,321	28	262	94	693
Alternative 9E (revised)	70.6			74	2,908	39	3,724	32	122	85	265	
10	Proposed – Total Length	34.4	16	65	33	861	73	812	7	35	196	575

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.10-3b. Change in Fragmentation Levels as a Result of Roads Between Pre- and Post-Construction

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count
1W	1W(a) Proposed – Total Length	73.8	14	1	10	15	19	30	3.9	2	5	2
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	0	0	10	5	15	18	1.9	1	5	2
	Alternative 1W(a)-B	20.9	0	0	5	5	14	17	0.7	1	8	2
	1W(c) Proposed – Total Length	73.6	14	1	10	15	20	29	3.6	2	5	2
2	Proposed – Total Length	91.9	0	0	11	23	9	1	1.9	1	0	0
	Proposed – Comparison portion for Alternative 2A	16.8	0	0	25	13	0	0	0	0	0	0
	Alternative 2A	16.0	0	0	22	13	0	0	0	0	0	0
	Proposed – Comparison portion for Alternative 2B	12.5	0	0	24	13	0	0	0	0	0	0
3	Alternative 2B	12.2	0	0	23	13	0	0	0	0	0	0
	Segment 3 Proposed – Total Length	45.9	0	0	22	9	0	0	0	0	0	0
4 ^{1/}	Segment 3A Proposed – Total Length	5.1	0	0	24	1	0	0	0	0	0	0
	Proposed – Total Length	197.6	3	36	13	70	0	10	1.0	10	6	14
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	19	3	25	28	0	1	0	0	11	10
	Alternative 4B	100.2	0	0	36	47	0	1	3.2	3	11	7
	Alternative 4C	101.6	0	0	39	52	0	1	3.3	3	21	15
	Alternative 4D	100.8	0	0	35	47	0	1	3.2	3	11	7
	Alternative 4E	102.2	0	0	39	52	0	1	3.3	3	21	15
5	Alternative 4F	87.5	14	2	21	26	0	1	0	0	8	8
	Proposed – Total Length	55.7	3	49	10	113	1	49	0.2	4	17	38
	Proposed – Comparison portion for Alternatives 5A,B	22.3	4	43	17	78	1	26	0.2	3	45	25
	Alternative 5A	29.7	6	79	17	107	2	36	0.4	6	36	27
	Alternative 5B	40.4	3	84	20	123	2	45	0.3	6	38	43
	Proposed – Comparison portion for Alternative 5C	32.9	3	42	14	82	1	32	0.2	2	38	29
	Alternative 5C	26.0	0	13	12	61	1	35	0.1	1	23	20
	Proposed – Comparison portion for Alternative 5D	19.2	5	20	10	44	1	21	0.2	2	18	11
	Alternative 5D	17.0	5	20	8	42	1	22	0.2	2	20	11
6	Proposed – Comparison portion for Alternative 5E	5.8	0	1	11	17	1	16	0.2	1	8	4
	Alternative 5E	5.3	0	1	10	16	1	16	0.3	1	8	4
6	Proposed – Total Length	0.5	0	0	2	9	4	13	0.2	1	11	9

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-3b. Change in Fragmentation Levels as a Result of Roads Between Pre- and Post-Construction cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count
7	Proposed –Total Length	118.2	2	76	7	181	2	106	0.2	5	12	77
	Proposed – Comparison portion for Alternatives 7A,B	35.1	3	53	14	99	1	35	0.3	5	38	32
	Alternative 7A	37.7	2	76	17	117	2	50	0.3	5	36	36
	Alternative 7B	46.2	1	63	19	113	1	49	0.3	5	35	44
	Proposed – Comparison portion for Alternative 7C	20.1	0	5	2	32	2	22	0	0	7	8
	Alternative 7C	20.3	0	5	3	32	2	22	0	0	7	8
	Proposed – Comparison portion for Alternative 7D	6.2	1	3	5	37	3	32	0	0	2	4
	Alternative 7D	6.8	1	3	4	37	3	32	0	0	2	4
	Proposed – Comparison portion for Alternative 7E	3.8	2	10	29	34	2	28	0	0	13	14
	Alternative 7E	4.5	2	10	22	34	2	28	0	0	13	14
	Proposed – Comparison portion for Alternative 7F	10.5	2	10	15	36	2	33	0	0	16	21
	Alternative 7F	10.8	2	10	15	36	2	33	0	0	16	21
	Proposed – Comparison portion for Alternative 7G	3.3	1	5	16	5	1	9	0	0	13	8
	Alternative 7G	3.4	1	5	16	5	1	9	0	0	13	8
	Proposed – Comparison portion for Alternative 7K	118.2	2	76	7	181	2	106	0.2	5	12	77
Alternative 7K	148.1	2	128	12	248	2	157	0.2	7	8	45	
8	Proposed –Total Length	131.5	0	0	3	240	2	312	0.2	3	7	43
	Proposed – Comparison portion for Alternative 8A	51.9	0	0	2	74	2	98	0	0	10	34
	Alternative 8A	53.6	0	0	2	107	3	127	0	0	8	46
	Proposed – Comparison portion for Alternative 8B	45.3	0	0	3	128	2	165	0.2	2	3	6
	Alternative 8B	45.8	0	0	2	68	2	87	0	0	2	7
	Proposed – Comparison portion for Alternative 8C	6.5	0	0	5	36	2	36	0	0	0	0
	Alternative 8C	6.4	0	0	4	36	2	36	0	0	0	0
	Proposed – Comparison portion for Alternative 8D	6.9	0	0	1	30	2	43	0	0	2	2
	Alternative 8D	8.1	0	0	1	32	2	47	0	0	1	2
	Proposed – Comparison portion for Alternative 8E	7.0	0	0	3	54	3	68	0.2	1	6	3
Alternative 8E	18.3	0	0	2	77	3	102	0.1	1	4	3	
9	Proposed –Total Length	162.2	0	0	3	335	2	333	0.3	4	3	49
	Proposed – Comparison portion for Alternative 9A	7.8	0	0	3	15	2	17	0	0	2	3
	Alternative 9A	7.7	0	0	3	15	2	19	0	0	2	3
	Proposed – Comparison portion for Alternative 9B	49.1	0	0	4	100	2	76	0	0	5	21
	Alternative 9B	52.3	0	0	3	135	2	117	0	0	7	41
	Proposed – Comparison portion for Alternative 9C	14.4	0	0	10	28	0	14	0	0	8	7
	Alternative 9C	14.4	0	0	11	30	0	14	0	0	13	11
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	0	0	3	172	2	182	0.5	4	2	14
	Alternative 9D	60.1	0	0	2	158	1	183	0.3	4	2	15
	Alternative 9F	63.3	0	0	2	159	2	184	0.3	4	2	17
	Alternative 9G	57.8	0	0	2	154	2	174	0.4	4	1	12
	Alternative 9H	61.0	0	0	2	155	2	175	0.4	4	2	14
Proposed – Comparison portion for Alternative 9E (revised)	61.4	0	0	2	114	2	129	0.2	2	2	13	
Alternative 9E (revised)	70.6	0	0	4	136	2	146	0.5	2	1	2	
10	Proposed –Total Length	34.4	0	0	1	17	3	29	0	0	9	24

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly.

Table D.10-4a. Pre- and Post-Construction Levels of Fragmentation Resulting from Transmission Lines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Pre-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
1W	1W(a) Proposed – Total Length	73.8	4,015	13	1,387	74	3,191	72	566	15	476	15
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	773	7	812	37	1,299	51	639	10	471	14
	Alternative 1W(a)-B	20.9	1,114	4	921	37	1,504	53	1,087	10	346	16
	1W(c) Proposed – Total Length	73.6	4,088	13	1,422	73	3,026	73	525	18	474	14
2	Proposed – Total Length	91.9			10,647	42	775	15	390	15	536	8
	Proposed – Comparison portion for Alternative 2A	16.8			3,617	27	781	1	260	9	859	4
	Alternative 2A	16.0			3,483	27	781	1	327	9	495	1
	Proposed – Comparison portion for Alternative 2B	12.5			2,815	27	781	1	260	9	817	4
	Alternative 2B	12.2			2,727	27	781	1	285	9	2,654	1
3	Segment 3 Proposed – Total Length	45.9	200	5	37,206	7						
	Segment 3A Proposed – Total Length	5.1	43	2	5,529	9						
4 ^{1/}	Proposed – Total Length	197.6	92	749	816	952	21	682	98	417	865	141
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	466	27	4,042	99	29	84	512	37	811	34
	Alternative 4B	100.2	9	8	4,525	104	13	165	734	48	661	39
	Alternative 4C	101.6	9	8	4,514	104	12	148	754	48	732	42
	Alternative 4D	100.8	9	8	4,536	104	13	165	734	48	661	39
	Alternative 4E	102.2	9	8	4,526	104	12	148	754	48	732	42
	Alternative 4F	87.5	1,092	23	4,386	91	30	83	522	38	886	29
5	Proposed – Total Length	55.7	56	580	156	774	26	853	13	152	617	207
	Proposed – Comparison portion for Alternatives 5A,B	22.3	66	389	188	365	25	253	11	71	675	65
	Alternative 5A	29.7	69	473	200	421	33	268	10	80	1,146	49
	Alternative 5B	40.4	44	629	258	473	30	362	10	108	1,314	57
	Proposed – Comparison portion for Alternative 5C	32.9	65	468	181	461	23	449	14	90	616	116
	Alternative 5C	26.0	22	513	182	501	27	584	16	106	349	122
	Proposed – Comparison portion for Alternative 5D	19.2	83	198	145	303	19	379	12	81	593	89
	Alternative 5D	17.0	85	170	130	290	20	350	11	77	779	70
	Proposed – Comparison portion for Alternative 5E	5.8	15	66	115	165	15	295	14	54	368	84
Alternative 5E	5.3	15	66	112	167	15	295	16	54	366	81	
6	Proposed – Total Length	0.5			49	228	79	237	10	43	505	68

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-4a. Pre- and Post-Construction Levels of Fragmentation Resulting from Transmission Lines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Pre-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
7	Proposed – Total Length	118.2	40	985	148	1376	60	1540	14	156	1499	194
	Proposed – Comparison portion for Alternatives 7A,B	35.1	51	559	192	514	30	512	12	80	790	84
	Alternative 7A	37.7	41	719	239	488	30	515	9	74	945	66
	Alternative 7B	46.2	24	846	298	504	27	592	9	109	1,150	69
	Proposed – Comparison portion for Alternative 7C	20.1	17	151	92	427	113	464	10	27	1,028	38
	Alternative 7C	20.3	17	164	101	351	98	444	5	2	1,525	35
	Proposed – Comparison portion for Alternative 7D	6.2	31	101	109	211	62	264	6	8	735	28
	Alternative 7D	6.8	31	101	106	217	62	267	6	8	780	28
	Proposed – Comparison portion for Alternative 7E	3.8	24	84	246	69	23	148	6	10	1,487	19
	Alternative 7E	4.5	24	88	223	80	25	158	6	11	1,717	17
	Proposed – Comparison portion for Alternative 7F	10.5	34	131	203	127	28	212	24	24	2,165	22
	Alternative 7F	10.8	35	140	213	132	29	231	25	31	1,979	23
	Proposed – Comparison portion for Alternative 7G	3.3	22	127	676	29	19	87	10	2	3,541	7
	Alternative 7G	3.4	22	123	668	29	20	86	10	2	3,597	7
	Proposed – Comparison portion for Alternative 7K	118.2	40	985	148	1,376	60	1,540	14	156	1,499	194
Alternative 7K	148.1	36	2,060	272	1,563	59	1,522	15	304	899	207	
8	Proposed – Total Length	131.5			97	3186	55	4475	13	180	599	230
	Proposed – Comparison portion for Alternative 8A	51.9			82	1,283	62	1,555	15	48	749	126
	Alternative 8A	53.6			55	1,460	68	1,515	11	44	778	152
	Proposed – Comparison portion for Alternative 8B	45.3			110	1,162	60	1,612	13	87	686	48
	Alternative 8B	45.8			91	989	68	1,251	17	55	1,584	50
	Proposed – Comparison portion for Alternative 8C	6.5			73	438	41	621	20	10	604	12
	Alternative 8C	6.4			71	451	43	621	18	11	485	12
	Proposed – Comparison portion for Alternative 8D	6.9			105	305	138	233			475	7
	Alternative 8D	8.1			99	325	153	230			540	9
	Proposed – Comparison portion for Alternative 8E	7.0			87	321	83	344	8	32	495	20
Alternative 8E	18.3			96	517	80	619	10	52	437	24	
9	Proposed – Total Length	162.2	17	89	112	3040	80	3562	38	223	1474	138
	Proposed – Comparison portion for Alternative 9A	7.8	9	13	142	141	80	218	3	4	1,630	21
	Alternative 9A	7.7	9	13	146	149	82	223	3	4	1,475	21
	Proposed – Comparison portion for Alternative 9B	49.1			139	861	91	1,098	18	35	1,630	36
	Alternative 9B	52.3			87	1,171	75	1,242	19	64	1,450	68
	Proposed – Comparison portion for Alternative 9C	14.4			572	105	30	418	13	8	1,708	18
	Alternative 9C	14.4			579	96	22	414	8	10	2,203	18
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			80	1,519	88	1,366	56	126	1,105	57
	Alternative 9D	60.1			75	1,679	74	1,777	40	181	571	89
	Alternative 9F	63.3			73	1,773	78	1,769	41	172	705	83
	Alternative 9G	57.8			75	1,637	75	1,690	43	165	648	78
	Alternative 9H	61.0			72	1,731	80	1,682	44	156	808	72
Proposed – Comparison portion for Alternative 9E (revised)	61.4			87	1,557	80	1,554	52	141	1,031	63	
Alternative 9E (revised)	70.6			140	1,547	65	2,197	48	82	680	33	
10	Proposed – Total Length	34.4	18	60	48	606	130	456	9	29	2299	49

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.10-4a. Pre- and Post-Construction Levels of Fragmentation Resulting from Transmission Lines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Post-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
1W	1W(a) Proposed – Total Length	73.8	2,270	23	942	109	1,754	131	404	21	357	20
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	416	13	556	54	861	77	426	15	347	19
	Alternative 1W(a)-B	20.9	446	10	631	54	1,035	77	679	16	263	21
	1W(c) Proposed – Total Length	73.6	2,311	23	979	106	1,699	130	394	24	349	19
2	Proposed – Total Length	91.9			5,808	77	484	24	308	19	536	8
	Proposed – Comparison portion for Alternative 2A	16.8			1,843	53	781	1	195	12	859	4
	Alternative 2A	16.0			1,774	53	781	1	246	12	495	1
	Proposed – Comparison portion for Alternative 2B	12.5			1,490	51	781	1	195	12	817	4
	Alternative 2B	12.2			1,443	51	781	1	214	12	2,654	1
3	Segment 3 Proposed – Total Length	45.9	200	5	15,320	17						
	Segment 3A Proposed – Total Length	5.1	43	2	3,110	16						
4 ^{1/}	Proposed – Total Length	197.6	88	782	740	1,051	20	702	93	440	714	171
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	381	33	2,899	138	29	85	412	46	627	44
	Alternative 4B	100.2	9	8	3,386	139	13	166	608	58	560	46
	Alternative 4C	101.6	9	8	3,283	143	12	149	614	59	603	51
	Alternative 4D	100.8	9	8	3,394	139	13	166	608	58	560	46
	Alternative 4E	102.2	9	8	3,291	143	12	149	614	59	603	51
	Alternative 4F	87.5	838	30	3,070	130	30	84	441	45	676	38
5	Proposed – Total Length	55.7	50	643	128	940	24	924	13	157	465	275
	Proposed – Comparison portion for Alternatives 5A,B	22.3	59	437	149	459	22	286	11	74	457	96
	Alternative 5A	29.7	61	540	157	537	28	321	9	87	638	88
	Alternative 5B	40.4	39	705	201	606	26	419	9	115	713	105
	Proposed – Comparison portion for Alternative 5C	32.9	58	523	147	567	21	490	13	92	447	160
	Alternative 5C	26.0	21	539	158	576	25	624	16	107	275	155
	Proposed – Comparison portion for Alternative 5D	19.2	72	227	117	376	18	406	12	83	444	119
	Alternative 5D	17.0	73	198	105	360	19	378	10	79	574	95
	Proposed – Comparison portion for Alternative 5E	5.8	13	73	95	199	14	314	13	55	306	101
	Alternative 5E	5.3	13	73	94	200	14	314	15	55	306	97
6	Proposed – Total Length	0.5			46	246	72	261	10	44	424	81

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-4a. Pre- and Post-Construction Levels of Fragmentation Resulting from Transmission Lines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Post-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
7	Proposed – Total Length	118.2	37	1,072	126	1,617	55	1,692	13	162	1,006	289
	Proposed – Comparison portion for Alternatives 7A,B	35.1	46	617	156	633	27	553	11	85	523	127
	Alternative 7A	37.7	38	778	191	610	27	580	8	80	562	111
	Alternative 7B	46.2	22	901	239	628	25	647	9	115	690	115
	Proposed – Comparison portion for Alternative 7C	20.1	17	156	85	460	106	492	10	27	723	54
	Alternative 7C	20.3	17	169	93	384	93	471	5	2	1068	50
	Proposed – Comparison portion for Alternative 7D	6.2	29	109	90	255	54	304	6	8	556	37
	Alternative 7D	6.8	29	109	88	261	54	307	6	8	590	37
	Proposed – Comparison portion for Alternative 7E	3.8	19	103	151	112	19	183	6	10	911	31
	Alternative 7E	4.5	20	107	146	122	21	193	6	11	1006	29
	Proposed – Comparison portion for Alternative 7F	10.5	29	150	150	172	23	255	24	24	1191	40
	Alternative 7F	10.8	31	159	159	177	24	274	25	31	1110	41
	Proposed – Comparison portion for Alternative 7G	3.3	20	135	350	56	15	112	10	2	1458	17
	Alternative 7G	3.4	25	2014	326	2007	53	2381	14	387	624	335
	Proposed – Comparison portion for Alternative 7K	118.2	37	1072	126	1617	55	1692	13	162	1006	289
Alternative 7K	148.1	34	2198	234	1817	54	1668	15	317	702	265	
8	Proposed – Total Length	131.5			88	3,499	51	4,860	13	188	526	262
	Proposed – Comparison portion for Alternative 8A	51.9			76	1385	57	1685	15	48	633	149
	Alternative 8A	53.6			51	1584	61	1668	11	44	675	175
	Proposed – Comparison portion for Alternative 8B	45.3			96	1328	53	1818	12	94	599	55
	Alternative 8B	45.8			83	1077	62	1371	16	57	1238	64
	Proposed – Comparison portion for Alternative 8C	6.5			68	476	38	665	20	10	558	13
	Alternative 8C	6.4			66	489	40	665	18	11	448	13
	Proposed – Comparison portion for Alternative 8D	6.9			94	341	118	272			415	8
	Alternative 8D	8.1			89	363	129	273			486	10
	Proposed – Comparison portion for Alternative 8E	7.0			71	391	68	422	8	34	450	22
Alternative 8E	18.3			78	633	67	739	10	54	389	27	
9	Proposed – Total Length	162.2	17	93	99	3,459	71	3,980	35	239	1,043	195
	Proposed – Comparison portion for Alternative 9A	7.8	9	13	115	174	70	250	3	4	1141	30
	Alternative 9A	7.7	9	13	119	184	71	257	3	4	1032	30
	Proposed – Comparison portion for Alternative 9B	49.1			123	975	85	1179	18	36	1107	53
	Alternative 9B	52.3			77	1325	68	1371	19	65	1017	97
	Proposed – Comparison portion for Alternative 9C	14.4			429	140	29	439	11	9	1025	30
	Alternative 9C	14.4			421	132	21	434	7	11	1279	31
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			70	1718	75	1585	51	139	828	76
	Alternative 9D	60.1			66	1930	65	2035	38	193	479	106
	Alternative 9F	63.3			64	2021	68	2027	38	184	568	103
	Alternative 9G	57.8			65	1874	66	1932	40	177	543	93
	Alternative 9H	61.0			63	1965	70	1924	41	168	647	90
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			81	1675	73	1699	49	149	866	75
Alternative 9E (revised)	70.6			128	1687	61	2358	44	88	575	39	
10	Proposed – Total Length	34.4	17	64	45	647	115	516	9	29	1,609	70

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.10-4b. Change in Fragmentation Levels as a Result of Transmission Lines Between Pre- and Post-Construction

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count
1W	1W(a) Proposed – Total Length	73.8	1,746	10	445	35	1,437	59	161.7	6	119	5
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	357	6	256	17	439	26	212.9	5	124	5
	Alternative 1W(a)-B	20.9	669	6	290	17	469	24	407.6	6	82	5
	1W(c) Proposed – Total Length	73.6	1,777	10	443	33	1,327	57	131.2	6	125	5
2	Proposed – Total Length	91.9	0	0	4,840	35	291	9	82.0	4	0	0
	Proposed – Comparison portion for Alternative 2A	16.8	0	0	1,775	26	0	0	65.1	3	0	0
	Alternative 2A	16.0	0	0	1,709	26	0	0	81.9	3	0	0
	Proposed – Comparison portion for Alternative 2B	12.5	0	0	1,325	24	0	0	65.1	3	0	0
	Alternative 2B	12.2	0	0	1,283	24	0	0	71.2	3	0	0
3	Segment 3 Proposed – Total Length	45.9	0	0	21,886	10	0	0	0.0	0	0	0
	Segment 3A Proposed – Total Length	5.1	0	0	2,419	7	0	0	0.0	0	0	0
4 ^{1/}	Proposed – Total Length	197.6	4	33	77	99	1	20	5.1	23	152	30
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	85	6	1,142	39	0	1	100.2	9	184	10
	Alternative 4B	100.2	0	0	1,139	35	0	1	126.6	10	101	7
	Alternative 4C	101.6	0	0	1,231	39	0	1	140.6	11	129	9
	Alternative 4D	100.8	0	0	1,142	35	0	1	126.6	10	101	7
	Alternative 4E	102.2	0	0	1,234	39	0	1	140.6	11	129	9
	Alternative 4F	87.5	255	7	1,316	39	0	1	81.2	7	210	9
5	Proposed – Total Length	55.7	5	63	28	166	2	71	0.4	5	153	68
	Proposed – Comparison portion for Alternatives 5A,B	22.3	7	48	38	94	3	33	0.5	3	218	31
	Alternative 5A	29.7	9	67	43	116	5	53	0.8	7	508	39
	Alternative 5B	40.4	5	76	57	133	4	57	0.6	7	601	48
	Proposed – Comparison portion for Alternative 5C	32.9	7	55	34	106	2	41	0.3	2	169	44
	Alternative 5C	26.0	1	26	24	75	2	40	0.2	1	74	33
	Proposed – Comparison portion for Alternative 5D	19.2	11	29	28	73	1	27	0.3	2	150	30
	Alternative 5D	17.0	12	28	25	70	2	28	0.3	2	205	25
	Proposed – Comparison portion for Alternative 5E	5.8	1	7	20	34	1	19	0.3	1	62	17
Alternative 5E	5.3	1	7	19	33	1	19	0.3	1	60	16	
6	Proposed – Total Length	0.5	0	0	4	18	7	24	0.2	1	81	13

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-4b. Change in Fragmentation Levels as a Result of Transmission Lines Between Pre- and Post-Construction cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count
7	Proposed – Total Length	118.2	3	87	22	241	5	152	0.5	6	493	95
	Proposed – Comparison portion for Alternatives 7A,B	35.1	5	58	36	119	2	41	0.7	5	267	43
	Alternative 7A	37.7	3	59	48	122	3	65	0.7	6	383	45
	Alternative 7B	46.2	1	55	59	124	2	55	0.5	6	460	46
	Proposed – Comparison portion for Alternative 7C	20.1	1	5	7	33	6	28	0	0	305	16
	Alternative 7C	20.3	1	5	9	33	6	27	0	0	458	15
	Proposed – Comparison portion for Alternative 7D	6.2	2	8	19	44	8	40	0	0	179	9
	Alternative 7D	6.8	2	8	18	44	8	40	0	0	190	9
	Proposed – Comparison portion for Alternative 7E	3.8	4	19	94	43	4	35	0	0	575	12
	Alternative 7E	4.5	4	19	77	42	5	35	0	0	710	12
	Proposed – Comparison portion for Alternative 7F	10.5	4	19	53	45	5	43	0	0	974	18
	Alternative 7F	10.8	4	19	54	45	5	43	0	0	869	18
	Proposed – Comparison portion for Alternative 7G	3.3	1	8	326	27	4	25	0	0	2,083	10
	Alternative 7G	3.4	1	8	322	27	4	25	0	0	2116	10
	Proposed – Comparison portion for Alternative 7K	118.2	3	87	22	241	5	152	0.5	6	493	95
Alternative 7K	148.1	2	138	38	254	5	146	0.6	13	197	58	
8	Proposed – Total Length	131.5	0	0	9	313	4	385	0.6	8	73	32
	Proposed – Comparison portion for Alternative 8A	51.9	0	0	6	102	5	130	0	0	116	23
	Alternative 8A	53.6	0	0	4	124	6	153	0	0	102	23
	Proposed – Comparison portion for Alternative 8B	45.3	0	0	14	166	7	206	0.9	7	87	7
	Alternative 8B	45.8	0	0	7	88	6	120	0.6	2	347	14
	Proposed – Comparison portion for Alternative 8C	6.5	0	0	6	38	3	44	0	0	46	1
	Alternative 8C	6.4	0	0	6	38	3	44	0	0	37	1
	Proposed – Comparison portion for Alternative 8D	6.9	0	0	11	36	20	39	0	0	59	1
	Alternative 8D	8.1	0	0	10	38	24	43	0	0	54	1
	Proposed – Comparison portion for Alternative 8E	7.0	0	0	16	70	15	78	0.5	2	45	2
Alternative 8E	18.3	0	0	18	116	13	120	0.4	2	49	3	
9	Proposed – Total Length	162.2	1	4	14	419	8	418	2.5	16	431	57
	Proposed – Comparison portion for Alternative 9A	7.8	0	0	27	33	10	32	0	0	489	9
	Alternative 9A	7.7	0	0	28	35	11	34	0	0	442	9
	Proposed – Comparison portion for Alternative 9B	49.1	0	0	16	114	6	81	0.5	1	523	17
	Alternative 9B	52.3	0	0	10	154	7	129	0.3	1	434	29
	Proposed – Comparison portion for Alternative 9C	14.4	0	0	143	35	1	21	1.4	1	683	12
	Alternative 9C	14.4	0	0	158	36	1	20	0.7	1	924	13
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	0	0	9	199	12	219	5.2	13	276	19
	Alternative 9D	60.1	0	0	10	251	9	258	2.5	12	92	17
	Alternative 9F	63.3	0	0	9	248	10	258	2.7	12	137	20
	Alternative 9G	57.8	0	0	9	237	9	242	2.9	12	104	15
	Alternative 9H	61.0	0	0	9	234	10	242	3.1	12	162	18
Proposed – Comparison portion for Alternative 9E (revised)	61.4	0	0	6	118	7	145	2.8	8	165	12	
Alternative 9E (revised)	70.6	0	0	12	140	4	161	3.2	6	105	6	
10	Proposed – Total Length	34.4	1	4	3	41	15	60	0	0	690	21

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly.

Table D.10-5a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads and Transmission Lines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Pre-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
1W	1W(a) Proposed – Total Length	73.8	746	70	202	509	295	778	105	81	99	72
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	361	15	170	177	162	409	91	70	100	66
	Alternative 1W(a)-B	20.9	495	9	141	241	182	439	78	139	94	59
	1W(c) Proposed – Total Length	73.6	759	70	205	506	299	739	100	94	101	66
2	Proposed – Total Length	91.9			374	1,195	208	56	86	68	116	37
	Proposed – Comparison portion for Alternative 2A	16.8			280	349	260	3	56	42	143	24
	Alternative 2A	16.0			264	356	260	3	61	48	71	7
	Proposed – Comparison portion for Alternative 2B	12.5			241	316	260	3	56	42	163	20
	Alternative 2B	12.2			233	316	260	3	60	43	156	17
3	Segment 3 Proposed – Total Length	45.9	200	5	685	380						
	Segment 3A Proposed – Total Length	5.1	43	2	607	82						
4 ^{1/}	Proposed – Total Length	197.6	69	1,003	279	2,781	16	909	56	725	171	712
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	197	64	401	999	22	110	155	122	144	191
	Alternative 4B	100.2	6	11	443	1,062	11	200	154	228	170	152
	Alternative 4C	101.6	6	11	434	1,081	10	180	159	228	166	185
	Alternative 4D	100.8	6	11	443	1,065	11	200	154	228	170	152
	Alternative 4E	102.2	6	11	434	1,084	10	180	159	228	166	185
	Alternative 4F	87.5	340	74	394	1,014	23	109	152	130	141	182
5	Proposed – Total Length	55.7	45	724	89	1,349	18	1,216	9	213	165	774
	Proposed – Comparison portion for Alternatives 5A,B	22.3	52	496	115	597	18	351	8	104	205	214
	Alternative 5A	29.7	51	642	118	712	22	398	7	112	220	255
	Alternative 5B	40.4	34	806	139	879	21	527	7	145	233	321
	Proposed – Comparison portion for Alternative 5C	32.9	51	601	109	765	17	616	10	127	192	372
	Alternative 5C	26.0	19	610	106	857	20	784	11	159	129	329
	Proposed – Comparison portion for Alternative 5D	19.2	62	264	82	539	14	508	9	116	181	292
	Alternative 5D	17.0	63	228	73	517	14	492	7	112	200	273
	Proposed – Comparison portion for Alternative 5E	5.8	12	78	65	289	12	369	9	78	130	237
	Alternative 5E	5.3	12	78	65	287	12	366	11	79	126	235
6	Proposed – Total Length	0.5			32	354	51	367	6	65	123	280

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-5a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads and Transmission Lines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Pre-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
7	Proposed – Total Length	118.2	33	1,192	82	2,488	38	2,432	10	212	181	1,609
	Proposed – Comparison portion for Alternatives 7A,B	35.1	41	701	116	854	21	713	8	120	224	296
	Alternative 7A	37.7	31	931	134	870	23	696	7	99	209	299
	Alternative 7B	46.2	19	1,043	155	969	21	783	7	140	231	344
	Proposed – Comparison portion for Alternative 7C	20.1	14	182	51	773	68	766	9	30	168	232
	Alternative 7C	20.3	14	196	58	611	63	697	3	3	193	276
	Proposed – Comparison portion for Alternative 7D	6.2	24	129	48	480	37	445	5	9	88	235
	Alternative 7D	6.8	24	129	47	488	37	447	5	9	88	248
	Proposed – Comparison portion for Alternative 7E	3.8	21	96	104	163	16	208	5	11	134	210
	Alternative 7E	4.5	21	100	96	187	18	224	5	12	135	216
	Proposed – Comparison portion for Alternative 7F	10.5	28	158	93	276	20	302	19	30	161	296
	Alternative 7F	10.8	29	168	95	294	20	330	19	41	159	286
	Proposed – Comparison portion for Alternative 7G	3.3	20	138	231	85	13	126	7	3	191	130
	Alternative 7G	3.4	20	134	233	83	13	125	7	3	194	130
Proposed – Comparison portion for Alternative 7K	118.2	33	1,192	82	2,488	38	2,432	10	212	181	1,609	
Alternative 7K	148.1	30	2,464	140	3,047	36	2,454	11	412	164	1,132	
8	Proposed – Total Length	131.5			48	6,371	31	7,884	11	221	121	1,143
	Proposed – Comparison portion for Alternative 8A	51.9			49	2,152	38	2,508	14	53	130	726
	Alternative 8A	53.6			32	2,493	38	2,668	9	50	109	1,080
	Proposed – Comparison portion for Alternative 8B	45.3			48	2,647	30	3,263	9	119	127	259
	Alternative 8B	45.8			44	2,022	34	2,493	12	77	145	547
	Proposed – Comparison portion for Alternative 8C	6.5			43	740	28	909	13	15	207	35
	Alternative 8C	6.4			42	756	29	921	12	17	182	32
	Proposed – Comparison portion for Alternative 8D	6.9			38	845	37	864			64	52
	Alternative 8D	8.1			37	869	40	877			60	81
	Proposed – Comparison portion for Alternative 8E	7.0			37	748	34	830	6	42	127	78
Alternative 8E	18.3			39	1,271	35	1,416	8	68	109	96	
9	Proposed – Total Length	162.2	16	96	54	6,285	40	7,121	23	367	114	1,787
	Proposed – Comparison portion for Alternative 9A	7.8	9	13	60	331	39	450	3	4	140	245
	Alternative 9A	7.7	9	13	64	342	40	459	3	4	131	236
	Proposed – Comparison portion for Alternative 9B	49.1			66	1,809	49	2,037	14	44	110	535
	Alternative 9B	52.3			44	2,290	38	2,438	11	113	115	855
	Proposed – Comparison portion for Alternative 9C	14.4			136	443	18	693	8	12	172	179
	Alternative 9C	14.4			132	421	14	669	7	12	184	215
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			43	2,777	41	2,895	29	244	96	657
	Alternative 9D	60.1			34	3,693	32	4,104	24	306	69	731
	Alternative 9F	63.3			34	3,757	34	4,071	24	293	79	740
	Alternative 9G	57.8			35	3,530	33	3,905	25	281	72	704
	Alternative 9H	61.0			35	3,594	35	3,872	25	268	82	713
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			46	2,952	39	3,215	28	264	95	681
Alternative 9E (revised)	70.6			78	2,784	40	3,593	32	122	85	263	
10	Proposed – Total Length	34.4	16	65	29	1,005	60	998	7	35	177	638

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly. Blank cells indicate zero acres or null value.

Table D.10-5a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads and Transmission Lines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Post-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
1W	1W(a) Proposed – Total Length	73.8	431	121	164	625	223	1,032	90	94	80	89
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	193	28	137	219	128	518	79	81	79	83
	Alternative 1W(a)-B	20.9	202	22	119	286	147	541	71	153	73	76
	1W(c) Proposed – Total Length	73.6	439	121	167	620	224	986	88	107	80	83
2	Proposed – Total Length	91.9			304	1,471	131	89	77	76	116	37
	Proposed – Comparison portion for Alternative 2A	16.8			204	478	260	3	49	48	143	24
	Alternative 2A	16.0			194	485	260	3	55	54	71	7
	Proposed – Comparison portion for Alternative 2B	12.5			179	424	260	3	49	48	163	20
	Alternative 2B	12.2			174	424	260	3	52	49	156	17
3	Segment 3 Proposed – Total Length	45.9	200	5	558	467						
	Segment 3A Proposed – Total Length	5.1	43	2	488	102						
4 ^{1/}	Proposed – Total Length	197.6	63	1,096	239	3,248	15	942	53	769	154	792
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	161	78	320	1,249	22	112	139	136	124	222
	Alternative 4B	100.2	6	11	341	1,382	10	202	141	249	148	174
	Alternative 4C	101.6	6	11	333	1,409	10	182	144	251	138	223
	Alternative 4D	100.8	6	11	341	1,385	10	202	141	249	148	174
	Alternative 4E	102.2	6	11	333	1,412	10	182	144	251	138	223
	Alternative 4F	87.5	282	89	323	1,237	23	111	141	141	123	208
5	Proposed – Total Length	55.7	38	851	70	1,712	16	1,326	9	218	132	966
	Proposed – Comparison portion for Alternatives 5A,B	22.3	43	598	81	842	16	405	7	107	143	307
	Alternative 5A	29.7	39	831	80	1,051	18	488	6	123	150	373
	Alternative 5B	40.4	28	1,001	90	1,347	17	631	7	156	154	487
	Proposed – Comparison portion for Alternative 5C	32.9	43	713	82	1,020	15	675	9	129	141	506
	Alternative 5C	26.0	17	649	88	1,037	19	846	11	161	100	427
	Proposed – Comparison portion for Alternative 5D	19.2	49	332	65	674	13	545	8	118	140	376
	Alternative 5D	17.0	49	295	58	647	13	530	7	114	155	351
	Proposed – Comparison portion for Alternative 5E	5.8	11	88	55	341	11	395	9	79	108	285
	Alternative 5E	5.3	11	88	56	337	12	392	11	80	105	283
6	Proposed – Total Length	0.5			30	375	47	395	6	66	106	324

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-5a. Pre- and Post-Construction Levels of Fragmentation Resulting from Roads and Transmission Lines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Post-Construction Conditions									
			Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count	Average Patch Size (Acre)	Patch Count
7	Proposed – Total Length	118.2	29	1,367	66	3,070	34	2,699	10	220	151	1,927
	Proposed – Comparison portion for Alternatives 7A,B	35.1	35	826	84	1,172	19	785	7	127	155	429
	Alternative 7A	37.7	27	1,097	94	1,237	19	815	6	109	140	445
	Alternative 7B	46.2	17	1,177	106	1,411	18	888	7	150	156	508
	Proposed – Comparison portion for Alternative 7C	20.1	14	193	47	841	62	836	9	30	137	285
	Alternative 7C	20.3	14	207	52	679	57	767	3	3	162	329
	Proposed – Comparison portion for Alternative 7D	6.2	23	138	41	564	31	527	5	9	81	254
	Alternative 7D	6.8	23	138	40	572	31	529	5	9	82	267
	Proposed – Comparison portion for Alternative 7E	3.8	16	124	61	276	13	268	5	11	119	238
	Alternative 7E	4.5	16	128	60	299	14	284	5	12	120	244
	Proposed – Comparison portion for Alternative 7F	10.5	24	186	66	392	16	377	19	30	138	344
	Alternative 7F	10.8	25	196	68	410	16	405	19	41	136	334
	Proposed – Comparison portion for Alternative 7G	3.3	18	149	132	148	11	156	7	3	153	162
	Alternative 7G	3.4	19	145	133	146	11	155	7	3	155	162
Proposed – Comparison portion for Alternative 7K	118.2	29	1,367	66	3,070	34	2,699	10	220	151	1,927	
Alternative 7K	148.1	27	2,757	111	3,822	33	2,706	11	432	143	1,306	
8	Proposed – Total Length	131.5			45	6,846	29	8,446	10	232	113	1,223
	Proposed – Comparison portion for Alternative 8A	51.9			46	2,296	36	2,677	14	53	120	785
	Alternative 8A	53.6			30	2,673	35	2,904	9	50	102	1,164
	Proposed – Comparison portion for Alternative 8B	45.3			44	2,907	27	3,585	9	128	119	276
	Alternative 8B	45.8			41	2,165	32	2,676	11	80	137	579
	Proposed – Comparison portion for Alternative 8C	6.5			40	795	26	982	13	15	191	38
	Alternative 8C	6.4			39	811	27	994	12	17	166	35
	Proposed – Comparison portion for Alternative 8D	6.9			36	893	34	942			61	54
	Alternative 8D	8.1			35	919	37	959			58	83
	Proposed – Comparison portion for Alternative 8E	7.0			33	851	30	951	6	45	119	83
Alternative 8E	18.3			35	1,429	31	1,598	8	71	101	104	
9	Proposed – Total Length	162.2	16	100	48	7,049	36	7,843	22	388	104	1,948
	Proposed – Comparison portion for Alternative 9A	7.8	9	13	50	402	36	491	3	4	131	262
	Alternative 9A	7.7	9	13	52	417	36	503	3	4	122	253
	Proposed – Comparison portion for Alternative 9B	49.1			58	2,044	45	2,212	14	45	100	585
	Alternative 9B	52.3			40	2,564	35	2,684	11	114	105	939
	Proposed – Comparison portion for Alternative 9C	14.4			113	529	18	715	8	13	149	206
	Alternative 9C	14.4			109	508	13	690	6	13	160	247
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			39	3,106	36	3,290	27	261	89	709
	Alternative 9D	60.1			31	4,058	29	4,525	23	322	65	784
	Alternative 9F	63.3			31	4,123	31	4,493	23	309	73	797
	Alternative 9G	57.8			31	3,883	29	4,314	24	297	67	752
	Alternative 9H	61.0			32	3,948	31	4,282	24	284	76	765
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			43	3,159	36	3,471	27	275	90	720
Alternative 9E (revised)	70.6			71	3,034	37	3,848	29	132	82	272	
10	Proposed – Total Length	34.4	15	69	27	1,075	55	1,081	7	35	157	715

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.10-5b. Change in Fragmentation Levels as a Result of Roads and Transmission Lines Between Pre- and Post-Construction

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count
1W	1W(a) Proposed – Total Length	73.8	314	51	37	116	73	254	14.5	13	19	17
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	168	13	33	42	34	109	12.4	11	20	17
	Alternative 1W(a)-B	20.9	293	13	22	45	34	102	7.2	14	21	17
	1W(c) Proposed – Total Length	73.6	320	51	38	114	75	247	12.2	13	21	17
2	Proposed – Total Length	91.9	0	0	70	276	77	33	9.1	8	0	0
	Proposed – Comparison portion for Alternative 2A	16.8	0	0	76	129	0	0	7.0	6	0	0
	Alternative 2A	16.0	0	0	70	129	0	0	6.8	6	0	0
	Proposed – Comparison portion for Alternative 2B	12.5	0	0	61	108	0	0	7.0	6	0	0
	Alternative 2B	12.2	0	0	59	108	0	0	7.3	6	0	0
3	Segment 3 Proposed – Total Length	45.9	0	0	128	87	0	0	0	0	0	0
	Segment 3A Proposed – Total Length	5.1	0	0	119	20	0	0	0	0	0	0
4 ^{1/}	Proposed – Total Length	197.6	6	93	40	467	1	33	3.2	44	17	80
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	35	14	80	250	0	2	16.0	14	20	31
	Alternative 4B	100.2	0	0	103	320	0	2	13.0	21	21	22
	Alternative 4C	101.6	0	0	101	328	0	2	14.6	23	28	38
	Alternative 4D	100.8	0	0	102	320	0	2	13.0	21	21	22
	Alternative 4E	102.2	0	0	101	328	0	2	14.6	23	28	38
	Alternative 4F	87.5	57	15	71	223	0	2	11.9	11	18	26
5	Proposed – Total Length	55.7	7	127	19	363	1	110	0.2	5	33	192
	Proposed – Comparison portion for Alternatives 5A,B	22.3	9	102	33	245	2	54	0.2	3	62	93
	Alternative 5A	29.7	12	189	38	339	4	90	0.6	11	70	118
	Alternative 5B	40.4	7	195	48	468	3	104	0.5	11	80	166
	Proposed – Comparison portion for Alternative 5C	32.9	8	112	27	255	1	59	0.2	2	51	134
	Alternative 5C	26.0	1	39	18	180	1	62	0.1	2	30	98
	Proposed – Comparison portion for Alternative 5D	19.2	13	68	16	135	1	37	0.2	2	40	84
	Alternative 5D	17.0	14	67	15	130	1	38	0.1	2	44	78
	Proposed – Comparison portion for Alternative 5E	5.8	1	10	10	52	1	26	0.1	1	22	48
Alternative 5E	5.3	1	10	10	50	1	26	0.1	1	21	48	
6	Proposed – Total Length	0.5	0	0	2	21	4	28	0.1	1	17	44

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly.

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table.

Table D.10-5b. Change in Fragmentation Levels as a Result of Roads and Transmission Lines Between Pre- and Post-Construction cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Forest Woodlands		Shrublands		Grasslands		Riparian		Agriculture/Disturbed	
			Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count	Reduction in Average Patch Size (Acre)	Change in Patch Count
7	Proposed – Total Length	118.2	4	175	16	582	4	267	0.4	8	30	318
	Proposed – Comparison portion for Alternatives 7A,B	35.1	6	125	31	318	2	72	0.4	7	70	133
	Alternative 7A	37.7	5	166	40	367	3	119	0.6	10	68	146
	Alternative 7B	46.2	2	134	49	442	2	105	0.5	10	75	164
	Proposed – Comparison portion for Alternative 7C	20.1	1	11	4	68	6	70	0	0	31	53
	Alternative 7C	20.3	1	11	6	68	6	70	0	0	31	53
	Proposed – Comparison portion for Alternative 7D	6.2	2	9	7	84	6	82	0	0	7	19
	Alternative 7D	6.8	2	9	7	84	6	82	0	0	6	19
	Proposed – Comparison portion for Alternative 7E	3.8	5	28	43	113	4	60	0	0	16	28
	Alternative 7E	4.5	5	28	36	112	4	60	0	0	16	28
	Proposed – Comparison portion for Alternative 7F	10.5	4	28	28	116	4	75	0	0	22	48
	Alternative 7F	10.8	4	28	27	116	4	75	0	0	23	48
	Proposed – Comparison portion for Alternative 7G	3.3	1	11	98	63	3	30	0	0	38	32
	Alternative 7G	3.4	2	11	101	63	3	30	0	0	38	32
Proposed – Comparison portion for Alternative 7K	118.2	4	175	16	582	4	267	0.4	8	30	318	
Alternative 7K	148.1	3	293	28	775	3	252	0.5	20	22	174	
8	Proposed – Total Length	131.5	0	0	3	475	2	562	0.5	11	8	80
	Proposed – Comparison portion for Alternative 8A	51.9	0	0	3	144	2	169	0	0	10	59
	Alternative 8A	53.6	0	0	2	180	3	236	0	0	8	84
	Proposed – Comparison portion for Alternative 8B	45.3	0	0	4	260	3	322	0.6	9	8	17
	Alternative 8B	45.8	0	0	3	143	2	183	0.4	3	8	32
	Proposed – Comparison portion for Alternative 8C	6.5	0	0	3	55	2	73	0	0	16	3
	Alternative 8C	6.4	0	0	3	55	2	73	0	0	16	3
	Proposed – Comparison portion for Alternative 8D	6.9	0	0	2	48	3	78	0	0	2	2
	Alternative 8D	8.1	0	0	2	50	3	82	0	0	1	2
	Proposed – Comparison portion for Alternative 8E	7.0	0	0	5	103	4	121	0.4	3	8	5
Alternative 8E	18.3	0	0	4	158	4	182	0.3	3	8	8	
9	Proposed – Total Length	162.2	1	4	6	764	4	722	1.3	21	9	161
	Proposed – Comparison portion for Alternative 9A	7.8	0	0	11	71	3	41	0	0	9	17
	Alternative 9A	7.7	0	0	11	75	3	44	0	0	9	17
	Proposed – Comparison portion for Alternative 9B	49.1	0	0	8	235	4	175	0.3	1	9	50
	Alternative 9B	52.3	0	0	5	274	4	246	0.1	1	10	84
	Proposed – Comparison portion for Alternative 9C	14.4	0	0	22	86	1	22	0.7	1	23	27
	Alternative 9C	14.4	0	0	23	87	0	21	0.5	1	24	32
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	0	0	5	329	5	395	1.9	17	7	52
	Alternative 9D	60.1	0	0	3	365	3	421	1.2	16	5	53
	Alternative 9F	63.3	0	0	3	366	3	422	1.2	16	6	57
	Alternative 9G	57.8	0	0	3	353	3	409	1.4	16	5	48
	Alternative 9H	61.0	0	0	3	354	3	410	1.4	16	6	52
Proposed – Comparison portion for Alternative 9E (revised)	61.4	0	0	3	207	3	256	1.1	11	5	39	
Alternative 9E (revised)	70.6	0	0	6	250	3	255	2.4	10	3	9	
10	Proposed – Total Length	34.4	1	4	2	70	5	83	0	0	19	77

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly.

Table D.10-6. Acres of Construction Impacts to Big Game Habitat Impacted by the Gateway West Transmission Line

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Wildlife Habitat Impacted					
			Bighorn Sheep Winter Range	Elk Calving Areas	Elk Winter Range	Moose Winter Range	Mule Deer Winter Range	Pronghorn Winter Range
1W	1W(a) Proposed – Total Length	73.8			63		441	295
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5					148	135
	Alternative 1W(a)-B	20.9					249	234
	1W(c) Proposed – Total Length	73.6			67		530	386
2	Proposed – Total Length	91.9			23	58	1,458	1,646
	Proposed – Comparison portion for Alternative 2A	16.8			20	58	217	309
	Alternative 2A	16.0			20	24	204	355
	Proposed – Comparison portion for Alternative 2B	12.5			20	58	176	238
	Alternative 2B	12.2			20	24	117	209
3	Segment 3 Proposed – Total Length	45.9					543	833
	Segment 3A Proposed – Total Length	5.1					60	60
4 ^{1/}	Proposed – Total Length	197.6		194	756	519	1,546	1,675
	Proposed – Comparison portion for Alternatives 4B-4F	85.2		194	409	518	351	698
	Alternative 4B	100.2			788	91	867	483
	Alternative 4C	101.6			779	245	876	476
	Alternative 4D	100.8			785	91	874	485
	Alternative 4E	102.2			759	245	868	478
	Alternative 4F	87.5		235	255	488	296	567
5	Proposed – Total Length	55.7			1		665	
	Proposed – Comparison portion for Alternatives 5A,B	22.3			1		164	
	Alternative 5A	29.7					240	
	Alternative 5B	40.4					397	
	Proposed – Comparison portion for Alternative 5C	32.9			1		459	
	Alternative 5C	26.0			153		129	
	Proposed – Comparison portion for Alternative 5D	19.2					377	
	Alternative 5D	17.0					324	
	Proposed – Comparison portion for Alternative 5E	5.8					70	
Alternative 5E	5.3					78		
6	Proposed – Total Length	0.5					30	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-6. Acres of Construction Impacts to Big Game Habitat Impacted by the Gateway West Transmission Line cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Wildlife Habitat Impacted					
			Bighorn Sheep Winter Range	Elk Calving Areas	Elk Winter Range	Moose Winter Range	Mule Deer Winter Range	Pronghorn Winter Range
7	Proposed – Total Length	118.2					835	
	Proposed – Comparison portion for Alternatives 7A,B	35.1					288	
	Alternative 7A	37.7					176	
	Alternative 7B	46.2					226	
	Proposed – Comparison portion for Alternative 7C	20.1					64	
	Alternative 7C	20.3					112	
	Proposed – Comparison portion for Alternative 7D	6.2					40	
	Alternative 7D	6.8					40	
	Proposed – Comparison portion for Alternative 7E	3.8					45	
	Alternative 7E	4.5					83	
	Proposed – Comparison portion for Alternative 7F	10.5					172	
	Alternative 7F	10.8					206	
	Proposed – Comparison portion for Alternative 7G	3.3					60	
	Alternative 7G	3.4					78	
8	Proposed – Comparison portion for Alternative 7K	118.2					834	
	Alternative 7K	148.1					963	
	Proposed – Total Length	131.5			361		890	122
	Proposed – Comparison portion for Alternative 8A	51.9			33		767	
	Alternative 8A	53.6					345	
	Proposed – Comparison portion for Alternative 8B	45.3			112			
	Alternative 8B	45.8			112			
	Proposed – Comparison portion for Alternative 8C	6.5			112			
	Alternative 8C	6.4			115			
	Proposed – Comparison portion for Alternative 8D	6.9						
Alternative 8D	8.1							
Proposed – Comparison portion for Alternative 8E	7.0							
Alternative 8E	18.3	18						
9	Proposed – Total Length	162.2	0				205	398
	Proposed – Comparison portion for Alternative 9A	7.8					50	
	Alternative 9A	7.7					58	
	Proposed – Comparison portion for Alternative 9B	49.1						
	Alternative 9B	52.3						
	Proposed – Comparison portion for Alternative 9C	14.4						
	Alternative 9C	14.4						
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2						279
	Alternative 9D	60.1	18					11
	Alternative 9F	63.3	18					11
	Alternative 9G	57.8	30					17
	Alternative 9H	61.0	30					17
Proposed – Comparison portion for Alternative 9E (revised)	61.4						360	
Alternative 9E (revised)	70.6	75					520	
10	Proposed – Total Length	34.4					203	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.10-7. Acres of Construction Impacts that Would Occur within a 1-mile Buffer around Raptor and Birds of Prey Nest Locations

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Raptor and Birds of Prey Habitat Impacts (acres)													
			American Kestrel	Bald Eagle	Burrowing Owl	Common Raven	Ferruginous Hawk	Golden Eagle	Great Horned Owl	Long-eared Owl	Northern Goshawk	Northern Harrier	Osprey	Prairie Falcon	Red-tailed Hawk	Short-eared Owl
1W	1W(a) Proposed – Total Length	73.8	15	12		18	80	76	6		14		35	34		
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5		12				43	6					34		
	Alternative 1W(a)-B	20.9						26	5					12		
	1W(c) Proposed – Total Length	73.6	32	20		32	126	61	24		13		33	40		
2	Proposed – Total Length	91.9	182	1	117	153	847	547	44			111	166	311	39	27
	Proposed – Comparison portion for Alternative 2A	16.8	19	1			179	106	31					105		
	Alternative 2A	16.0	30	43			47	43	5					68		
	Proposed – Comparison portion for Alternative 2B	12.5		1			159	94	30					89		
	Alternative 2B	12.2		42			58	47	2					74		
3	Segment 3 Proposed – Total Length	45.9	42		63	81	223	140	35			54	211	107		
	Segment 3A Proposed – Total Length	5.1				24	18	24	23				28			
4 ^{1/}	Proposed – Total Length	197.6	95	77	20	530	251	222	142	23	39	32	42	196	826	59
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	17	<1	20	183	74	137	13	23			42	36	420	51
	Alternative 4B	100.2	8		41	26	9	109	3					34	160	13
	Alternative 4C	101.6	8		41	26	9	109	3					34	167	13
	Alternative 4D	100.8	9		41	26	9	109	3					34	168	13
	Alternative 4E	102.2	9		41	26	9	108	3					34	166	13
	Alternative 4F	87.5	17	<1	20	154	74	84	13	23			3	36	353	13
5	Proposed – Total Length	55.7		31	36			30								
	Proposed – Comparison portion for Alternatives 5A,B	22.3						7								
	Alternative 5A	29.7						27								
	Alternative 5B	40.4						17								
	Proposed – Comparison portion for Alternative 5C	32.9						30								
	Alternative 5C	26.0														
	Proposed – Comparison portion for Alternative 5D	19.2		31				30								
	Alternative 5D	17.0		25				6								
	Proposed – Comparison portion for Alternative 5E	5.8		31												
Alternative 5E	5.3		2													
6	Proposed – Total Length	0.5														

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-7. Acres of Construction Impacts that Would Occur within a 1-mile buffer around Raptors and Birds of Prey Nests cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Raptor and Birds of Prey Habitat Impacts (acres)														
			American Kestrel	Bald Eagle	Burrowing Owl	Common Raven	Ferruginous Hawk	Golden Eagle	Great Horned Owl	Long-eared Owl	Northern Goshawk	Northern Harrier	Osprey	Prairie Falcon	Red-tailed Hawk	Short-eared Owl	Swainsons Hawk
7	Proposed – Total Length	118.2			104		78	61									
	Proposed – Comparison portion for Alternatives 7A,B	35.1															
	Alternative 7A	37.7						8									
	Alternative 7B	46.2						3									
	Proposed – Comparison portion for Alternative 7C	20.1			74		19										
	Alternative 7C	20.3			44												
	Proposed – Comparison portion for Alternative 7D	6.2			20			17									
	Alternative 7D	6.8			28												
	Proposed – Comparison portion for Alternative 7E	3.8					49	45									
	Alternative 7E	4.5					47	37									
	Proposed – Comparison portion for Alternative 7F	10.5					59	45									
	Alternative 7F	10.8					46	28									
	Proposed – Comparison portion for Alternative 7G	3.3															
	Alternative 7G	3.4															
Proposed – Comparison portion for Alternative 7K	118.2			104		78	61										
Alternative 7K	148.1			25		380	223			24				39		48	
8	Proposed – Total Length	131.5			373		841	432					152				
	Proposed – Comparison portion for Alternative 8A	51.9			20			159									
	Alternative 8A	53.6						250						50			
	Proposed – Comparison portion for Alternative 8B	45.3			353		539	131					152				
	Alternative 8B	45.8			191		251										
	Proposed – Comparison portion for Alternative 8C	6.5			1		163										
	Alternative 8C	6.4			1		140										
	Proposed – Comparison portion for Alternative 8D	6.9			134		147										
	Alternative 8D	8.1			171		174										
	Proposed – Comparison portion for Alternative 8E	7.0			107		7	56					101				
Alternative 8E	18.3			98		243	110					208					
9	Proposed – Total Length	162.2	t ^{2/}		283	100	585	441					249			90	
	Proposed – Comparison portion for Alternative 9A	7.8					17										
	Alternative 9A	7.7						25									
	Proposed – Comparison portion for Alternative 9B	49.1	t ^{2/}		94		122	179					133			90	
	Alternative 9B	52.3	44		39		51	214					64	65			
	Proposed – Comparison portion for Alternative 9C	14.4	t ^{2/}		25		112	107					65			90	
	Alternative 9C	14.4	44		49		51	192					29	25			
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			128	41	204	31									
	Alternative 9D	60.1			341		380	257					410				
	Alternative 9F	63.3			324		493	205					318				
	Alternative 9G	57.8			331		292	287					387				
	Alternative 9H	61.0			313		405	228					288				
Proposed – Comparison portion for Alternative 9E (revised)	61.4			128		204	142										
Alternative 9E (revised)	70.6			104		147	83										
10	Proposed – Total Length	34.4			39			38						15			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Blank cells indicate zero acres or null value

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.10-8. Acres of Operations Impacts to Big Game Habitat Impacted by the Gateway West Transmission Line

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Wildlife Habitat Impacted					
			Bighorn Sheep Winter Range	Elk Calving Areas	Elk Winter Range	Moose Winter Range	Mule Deer Winter Range	Pronghorn Winter Range
1W	1W(a) Proposed – Total Length	73.8			15		107	73
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5					27	26
	Alternative 1W(a)-B	20.9					40	38
	1W(c) Proposed – Total Length	73.6			8		74	58
2	Proposed – Total Length	91.9			1	3	208	228
	Proposed – Compare to Alternative 2A	16.8			t ^{1/}	3	21	28
	Alternative 2A	16.0			t ^{1/}	1	25	40
	Proposed – Compare to Alternative 2B	12.5				3	17	21
	Alternative 2B	12.2				1	10	17
3	Segment 3 Proposed – Total Length	45.9					113	140
	Segment 3A Proposed – Total Length	5.1					12	12
4 ^{2/}	Proposed – Total Length	197.6		32	104	72	241	238
	Proposed – Comparison portion for Alternatives 4B-4F	85.2		32	59	72	50	81
	Alternative 4B	100.2			96	9	113	59
	Alternative 4C	101.6			89	28	106	60
	Alternative 4D	100.8			102	9	119	59
	Alternative 4E	102.2			91	28	110	60
	Alternative 4F	87.5		41	34	69	35	64
5	Proposed – Total Length	55.7			<1		77	
	Proposed – Compare to Alternatives 5A,B	22.3			<1		22	
	Alternative 5A	29.7					28	
	Alternative 5B	40.4					38	
	Proposed – Compare to Alternative 5C	32.9			<1		60	
	Alternative 5C	26.0			15		14	
	Proposed – Compare to Alternative 5D	19.2					43	
	Alternative 5D	17.0					30	
	Proposed – Compare to Alternative 5E	5.8					4	
Alternative 5E	5.3					5		
6	Proposed – Total Length	0.5					28	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-8. Acres of Operations Impacts to Big Game Habitat Impacted by the Gateway West Transmission Line cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Wildlife Habitat Impacted					
			Bighorn Sheep Winter Range	Elk Calving Areas	Elk Winter Range	Moose Winter Range	Mule Deer Winter Range	Pronghorn Winter Range
7	Proposed – Total Length	118.2					89	
	Proposed – Comparison portion for Alternatives 7A,B	35.1					32	
	Alternative 7A	37.7					20	
	Alternative 7B	46.2					22	
	Proposed – Compare to Alternative 7C	20.1					6	
	Alternative 7C	20.3					9	
	Proposed – Compare to Alternative 7D	6.2					4	
	Alternative 7D	6.8					4	
	Proposed – Compare to Alternative 7E	3.8					4	
	Alternative 7E	4.5					9	
	Proposed – Compare to Alternative 7F	10.5					18	
	Alternative 7F	10.8					22	
	Proposed – Compare to Alternative 7G	3.3					4	
	Alternative 7G	3.4					4	
	Proposed – Comparison portion for Alternative 7K	118.2					89	
Alternative 7K	148.1					129		
8	Proposed – Total Length	131.5			37		95	13
	Proposed – Compare to Alternative 8A	51.9			5		86	
	Alternative 8A	53.6					48	
	Proposed – Compare to Alternative 8B	45.3			11			
	Alternative 8B	45.8			11			
	Alternative 8B – Compare to Alternative 8C	6.5			11			
	Alternative 8C	6.4			15			
	Proposed – Compare to Alternative 8D	6.9						
	Alternative 8D	8.1						
	Proposed – Comparison portion for Alternative 8E	7.0						
Alternative 8E	18.3	1						
9	Proposed – Total Length	162.2					17	43
	Proposed – Compare to Alternative 9A	7.8					5	
	Alternative 9A	7.7					5	
	Proposed – Compare to Alternative 9B	49.1						
	Alternative 9B	52.3						
	Proposed – Compare to Alternative 9C	14.4						
	Alternative 9C	14.4						
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2						28
	Alternative 9D	60.1	1					<1
	Alternative 9F	63.3	1					<1
	Alternative 9G	57.8	2					2
	Alternative 9H	61.0	2					2
	Proposed – Comparison portion for Alternative 9E (revised)	61.4						36
Alternative 9E (revised)	70.6	10					55	
10	Proposed – Total Length	34.4					28	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

Table D.10-9. Acres of Operations Impacts that Would Occur within a 1-mile Buffer around Raptor and Bird of Prey Nest Locations

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Raptor and Birds of Prey Habitat Impacts (acres)														
			American Kestrel	Bald Eagle	Burrowing Owl	Common Raven	Ferruginous Hawk	Golden Eagle	Great Horned Owl	Long-eared Owl	Northern Goshawk	Northern Harrier	Osprey	Prairie Falcon	Red-tailed Hawk	Short-eared Owl	Swainsons Hawk
1W	1W(a) Proposed – Total Length	73.8	4	2		3	15	15	2		3			8	6		
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5		2				9	2						6		
	Alternative 1W(a)-B	20.9						5	2						4		
	1W(c) Proposed – Total Length	73.6	4	2		6	18	7	2		2			5	4		
2	Proposed – Total Length	91.9	23	<1	10	19	95	74	5			16		20	36	3	3
	Proposed – Comparison portion for Alternative 2A	16.8	1	<1			15	13	3						7		
	Alternative 2A	16.0	2	5			3	8	2						6		
	Proposed – Comparison portion for Alternative 2B	12.5		<1			13	10	2						6		
	Alternative 2B	12.2		4			3	4	1						4		
3	Segment 3 Proposed – Total Length	45.9	6		5	8	21	71	2			3		77	28		
	Segment 3A Proposed – Total Length	5.1				2	7	2	2					3			
4 ^{2/}	Proposed – Total Length	197.6	12	8		56	24	45	16	4	5	5	4	75	88		8
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	3	t ^{1/}		23	6	15	2	4			4	5	49		8
	Alternative 4B	100.2	1		2	4	3	18	<1					6	25		2
	Alternative 4C	101.6	1		2	4	3	18	<1					6	25		2
	Alternative 4D	100.8	1		2	4	3	18	<1					6	26		3
	Alternative 4E	102.2	1		2	4	3	18	<1					6	25		3
	Alternative 4F	87.5	3	t ^{1/}		19	6	9	2		4		1	5	44		3
5	Proposed – Total Length	55.7		1	4			3									
	Proposed – Comparison portion for Alternatives 5A,B	22.3						<1									
	Alternative 5A	29.7						4									
	Alternative 5B	40.4						2									
	Proposed – Comparison portion for Alternative 5C	32.9						3									
	Alternative 5C	26.0															
	Proposed – Comparison portion for Alternative 5D	19.2		1				3									
	Alternative 5D	17.0		3				<1									
	Proposed – Comparison portion for Alternative 5E	5.8		1													
Alternative 5E	5.3		<1														
6	Proposed – Total Length	0.5															

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.10-9. Acres of Operations Impacts that Would Occur within a 1-mile Buffer around Raptors and Birds of Prey Nests cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Raptor and Birds of Prey Habitat Impacts (acres)														
			American Kestrel	Bald Eagle	Burrowing Owl	Common Raven	Ferruginous Hawk	Golden Eagle	Great Horned Owl	Long-eared Owl	Northern Goshawk	Northern Harrier	Osprey	Prairie Falcon	Red-tailed Hawk	Short-eared Owl	Swainsons Hawk
7	Proposed – Total Length	118.2			9		7	4									
	Proposed – Comparison portion for Alternatives 7A,B	35.1															
	Alternative 7A	37.7						2									
	Alternative 7B	46.2						1									
	Proposed – Comparison portion for Alternative 7C	20.1			7		2										
	Alternative 7C	20.3			2												
	Proposed – Comparison portion for Alternative 7D	6.2			1			2									
	Alternative 7D	6.8			1												
	Proposed – Comparison portion for Alternative 7E	3.8					3	2									
	Alternative 7E	4.5					4	4									
	Proposed – Comparison portion for Alternative 7F	10.5					5	2									
	Alternative 7F	10.8					4	2									
	Proposed – Comparison portion for Alternative 7G	3.3															
	Alternative 7G	3.4															
Proposed – Comparison portion for Alternative 7K	118.2			9		7	4										
Alternative 7K	148.1			2		44	35			3				3		8	
Proposed – Total Length	131.5			35		86	51						12	3		8	
8	Proposed – Comparison portion for Alternative 8A	51.9			1			24									
	Alternative 8A	53.6						35							5		
	Proposed – Comparison portion for Alternative 8B	45.3			34		58	14						12			
	Alternative 8B	45.8			13		24										
	Proposed – Comparison portion for Alternative 8C	6.5			<1		15										
	Alternative 8C	6.4			<1		16										
	Proposed – Comparison portion for Alternative 8D	6.9			14		15										
	Alternative 8D	8.1			15		15										
	Proposed – Comparison portion for Alternative 8E	7.0			8		1	3						7			
	Alternative 8E	18.3			10		19	6						17			
9	Proposed – Total Length	162.2			27	13	65	53						28			8
	Proposed – Comparison portion for Alternative 9A	7.8					3										
	Alternative 9A	7.7						2									
	Proposed – Comparison portion for Alternative 9B	49.1			8		13	20						14			8
	Alternative 9B	52.3	3		1		6	18						5	4		
	Proposed – Comparison portion for Alternative 9C	14.4			1		10	9						5			8
	Alternative 9C	14.4	3		4		6	15						1	2		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			11	6	21	5									
	Alternative 9D	60.1			34		31	20						35			
	Alternative 9F	63.3			31		44	15						28			
	Alternative 9G	57.8			33		27	21						32			
	Alternative 9H	61.0			31		40	17						25			
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			11		21	12									
Alternative 9E (revised)	70.6			12		12	17										
10	Proposed – Total Length	34.4			2			12								1	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.11-1. ESA Threatened, Endangered, or Candidate Wildlife Species with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	ESA Status	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Mammals								
Black-footed Ferret	<i>Mustela nigripes</i>	Endangered	-	SGCN / Wyoming	Ferrets use open habitat used by prairie dogs such as: grasslands, steppe, and shrub steppe. The ferrets do not dig their own burrows and rely on abandoned prairie dog burrows for shelter. Only large complexes (several thousand acres of closely spaced colonies) can support and sustain a breeding population of black-footed ferrets.	Yes – Currently, there is a known black-footed ferret population in the Shirley Basin in the Rawlins FO. Potential black-footed ferret habitat occurs within the Kemmerer FO, Rock Springs FO and Rawlins FO.	Ferret block and non-block cleared areas. In addition, prairie dog towns (>200 acres) were mapped and used to represent BFF habitat.	1, 2, 3, 4
Canada Lynx	<i>Lynx canadensis</i>	Threatened	-	SGCN / Wyoming SGCN / Idaho	Douglas-fir and spruce/fir vegetation types. A mosaic of habitat conditions is required with denning habitat existing primarily in mature and old growth conifer stands at high elevations, while foraging habitat is found in early successional coniferous forests (Butts 1992).	Yes – Segment 4 bisects linkage area and Lynx Analysis Unit (LAU). The LAU is described as core habitat and is considered occupied habitat (Forest Service 2005).	Linkage area and Lynx Analysis Units (LAUs) were used to identify habitat.	4
Grizzly Bear	<i>Ursus arctos horribilis</i>	Threatened	FS sensitive (R2)	-	Grizzly bears are habitat generalist, but are found most often in open mountainous habitats away from human developments.	Yes- The Project would pass through the southern boundary of the Yellowstone Distinct Population Segment (DPS).	The boundary of the Yellowstone DPS, PCA, and areas mapped as "suitable habitat" by the USFWS.	3, 4
Northern Idaho Ground squirrel	<i>Spermophilus brunneus brunneus</i>	Threatened	-	SGCN / Idaho	Idaho Ground Squirrels are only found in west-central Idaho within Adams and Valley counties (USFWS 2003). Habitat for this species occurs in medium high elevations, surrounded by forests. Populations are typically associated with shallow rocky soils in xeric meadows surrounded by ponderosa pine and Douglas-fir forests.	No – The Analysis Area does not intercept the species current distribution. In addition, limited habitat for the species occurs within the Analysis Area.	N/A	N/A
Preble's Meadow Jumping Mouse	<i>Zapus hudsonius preblei</i>	Threatened	FS sensitive (R2) BLM sensitive	SGCN / Wyoming	This species lives primarily in heavily vegetated, shrub-dominated riparian (streamside) habitats and immediately adjacent upland habitats along the foothills (up to 100 meters from the 100-year floodplain). The species occurs in southeastern Wyoming south to Colorado Springs along the eastern edge of the Front Range of Colorado. The species occurs in Albany, Laramie, Platte, Goshen, and Converse counties in Wyoming (USFWS 2013).	Yes – Marginal streamside habitat required by the species does occur within the Analysis Area. However, the Project is located outside of this species range.	Riparian and wetland habitats, and 100 meters from the 100-year floodplain in Albany, Laramie, Platte, Goshen, and Converse	1, 2
Southern Idaho Ground Squirrel	<i>Spermophilus brunneus endemicus</i>	Candidate	FS sensitive (R4)	SGCN / Idaho	The southern subspecies of the Idaho ground squirrel is found at lower elevations within hilly areas and grasslands. These areas are often dominated by annual grassland withrelict big sagebrush and bunch grasses. Distribution extends from Emmett, Idaho, northwest to Weiser, Idaho and the surrounding area of Squaw Butte, Midvale Hill, and Henley Basin in Gem, Payette, and Washington counties. Its range is bounded on the south by the Payette River, on the west by the Snake River and on the northeast by lava flows.	No – The Analysis Area lies to the south of the current distribution of this species.	N/A	N/A
Wolverine	<i>Gulo gulo luscus</i>	Candidate	FS sensitive (R2, R4) BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Low-density, wide-ranging species that inhabits remote forested areas, ranging over a variety of habitats. Large home ranges ranging from 160 to 1,440 m ² .	Uncertain – Suitable habitat for this species (i.e., high altitude mature forest habitat) is rare near the project; however, the Project would cross through the Caribou-Targhee NF along Segment 4 (which contains wolverines) and a wolverine was observed 6 miles south of the proposed route in 2008 within the Copenhagen Basin.	high altitude mature forest	4
Birds								
Greater Sage-Grouse	<i>Centrocercus urophasianus</i>	Candidate	MIS (Caribou NF) FS sensitive (R2, R4) BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Habitat occurs within basin-prairie shrub and mountain-foothill shrub communities. Greater sage grouse are only found in areas where adequate sagebrush is available to meet habitat and biological needs. As a sagebrush obligate species, greater sage grouse rely upon the plant species to meet most of its habitat needs during all aspects of its annual life cycles. Adequate stands of sagebrush are essential as greater sage grouse rely on the leaves for food and plant structure for cover.	Yes – Habitat occurs throughout the Analysis Area. Leks have been documented within the Analysis Area.	Shrubland	All segments could provide habitat for this species.
Interior Least Tern	<i>Sterna antillarum</i>	Endangered	-	-	Interior least terns breed in isolated areas along the Missouri, Mississippi, Ohio, Red, and Rio Grande river systems. Their winter home is not known, but probably includes coastal areas of Central and South America. In the U.S, terns use barren to sparsely vegetated sandbars along rivers, sand and gravel pits, or lake and reservoir shorelines from late April to August.	Yes – Water withdrawals in the Platte River Watershed, regardless of location, could impact the species.	Areas down stream of the analysis area	N/A
Piping Plover	<i>Charadrius melodus</i>	Threatened	-	-	In general, this species inhabits wide, sparsely vegetated sand or gravel beaches adjacent to vast alkali lakes; however, they can be found along the beaches near reservoirs, rivers, freshwater lakes, dry alkali lakes and industrial ponds, as well as sandpits and gravel mines	Yes – only in that water withdrawals in the Platte River Watershed, regardless of location, could impact the species.	Areas down stream of the analysis area	N/A
Whooping Crane	<i>Grus americana</i>	Endangered	-	-	This species inhabits shallow-water wetlands which vary in size (1–25 ha), shape, and depth. During migration, they can be found feeding in croplands and roosting in wetlands found along their migration paths.	Yes – only in that water withdrawals in the Platte River Watershed, regardless of location, could impact the species.	Areas down stream of the analysis area	N/A
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	Candidate / west of continental divide	FS sensitive (R2, R4) east of the continental divide BLM sensitive	SGCN / Wyoming SGCN / Idaho	Yellow-billed Cuckoos are riparian obligate species that prefer extensive areas of dense thickets and mature deciduous forests near water, and requires low, dense, shrubby vegetation for nest sites. In Wyoming, the only areas that currently support the large cottonwood-riparian stands that are required by this species occur in isolated stands along the Bighorn, Powder, and North Platte rivers (WGFD N.D.). The Yellow-billed Cuckoo is considered an uncommon summer resident in Wyoming. In southwestern Idaho, the species is typically considered a 'rare summer visitor.' There have been confirmed sightings within Owyhee, Canyon, Elmore, Ada, Blaine, and Twin Falls counties within the last 25 years (Taylor 2000). The most suitable habitat in Idaho for the species occurs along the Snake River corridor (Taylor 2000).	Yes – The Project would cross through riparian habitats that could support this species.	Riparian cottonwood forest of greater than 5 ha (Reynolds and Hinckley 2005) with a percent overstory canopy of greater than 50 percent.	9

Table D.11-1. ESA Threatened, Endangered, or Candidate Wildlife Species with the Potential to Occur within the Analysis Area cont.

Common Name	Scientific Name	ESA Status	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Fish								
Bonytail	<i>Gila elegans</i>	Endangered	-	-	Slow moving waterbodies with rocky or muddy bottoms.	Yes – only in that water withdrawals in the Colorado River Watershed, regardless of location could impact the species.	Rivers of the Colorado Basin. Green River intersects segment 4.	N/A
Bull Trout	<i>Salvelinus confluentus</i>	Threatened	-	SGCN / Idaho	In Idaho Bull trout occur in the East Fork, West Fork, and headwater tributaries and primarily in headwaters above 7,200 feet elevation within the Jarbidge Wilderness Area (including Slide, Pine, Sawmill, Fall, and Cougar Creeks), as well as Dave Creek. Bull trout require clean, cold water (below 59 degrees Fahrenheit). Bull trout require diverse, yet well connected habitats with structural components that provide good hiding cover (boulders and large wood). Spawning habitat consists of very cold water and loose clean gravel.	No	N/A	N/A
		MIS (Sawtooth NF)						
Chinook Salmon	<i>Oncorhynchus tshawytscha</i>	Threatened	-	SGCN / Idaho	In Idaho, spawning habitat in the Snake River Basin consists of streams that are shallow, clear, and cold with a strong upwelling of water through the gravel. Fry habitat is found primarily along the sides of pools and near the cover of over-hanging banks. Adults migrate to sea for three to five years and return to natal streams days or weeks before spawning.	No	N/A	N/A
Colorado Pikeminnow	<i>Ptychocheilus lucius</i>	Endangered	-	-	The fish occurs in the warm, swift waters of the big rivers of the Colorado Basin. Adults are migratory and inhabit pools and eddies just outside the main current. Young can be found in backwater areas. Colorado pikeminnow are adapted to rivers with seasonally variable flow, high silt loads, and turbulence. Young-of-the-year and juvenile Colorado pikeminnow live in shallow backwater areas, with little or no current over silt and sand bottoms. When they are about 8 inches in length, habitat preferences change with fish seeking deeper water with some velocity. Colorado pikeminnow can tolerate a broad range of temperatures from 35 degrees C in the summer to lower than 10 degrees C in winter.	Yes – only in that water withdrawals in the Colorado River Watershed, regardless of location could impact the species.	Rivers of the Colorado Basin. Green River intersects segment 4.	N/A
Humpback Chub	<i>Gila cypha</i>	Endangered	-	-	The humpback chub lives primarily in canyons with swift currents and white water. Spawning occurs at depths ranging 1.8 to 3.8 meters, and water velocities of 0.15 to 0.3 meters per second, over boulder, sand, and possibly gravel substrates. The humpback chub have been associated with a variety of habitats ranging from pools with turbulent to little or no current; substrates of silt, sand, boulder, or bedrock; and depth ranging from 1 meter to as deep as 15 meters.	Yes – only in that water withdrawals in the Colorado River Watershed, regardless of location could impact the species.	Rivers of the Colorado Basin. Green River intersects segment 4.	N/A
Pallid Sturgeon	<i>Scaphirhynchus albus</i>	Endangered	-	-	This species is a bottom-oriented species inhabiting the Missouri and Mississippi Rivers from Montana to Louisiana. Pallid sturgeon live close to the bottom of large, silty rivers with swift currents and sandy bottoms. The preferred habitat is comprised of sand flats and gravel bars where water velocity ranges from 10 to 90 centimeters per second and water temperatures range from 32 to 86 degrees Fahrenheit. (http://www.epa.gov/espp/litstatus/effects/appendix_c_life_history_sturgeon.pdf)	Yes – only in that water withdrawals in the Platte River Watershed, regardless of location could impact the species.	Rivers of the Platte Basin. Green River intersects segment 4.	N/A
Razorback Sucker	<i>Xyrauchen texanus</i>	Endangered	-	-	The razorback sucker occurred in medium to large rivers with swift turbulent waters, as well as slow backwater areas where it feeds on benthic fauna and flora, detritus, and plankton. Most wild fish are now found in Lake Mohave, which represents the largest population within the lower Colorado River basin. A few adults have also been found in Lake Mead and Lake Havasu. In the upper basin, they can be found in unimpounded waters of the Green, Yampa, and mainstem of the Colorado.	Yes – only in that water withdrawals in the Colorado River Watershed, regardless of location could impact the species.	Rivers of the Colorado Basin. Green River intersects segment 4.	N/A
Sockeye Salmon	<i>Oncorhynchus nerka</i>	Endangered	-	SGCN / Idaho	Sockeye inhabit streams, rivers, lakes, estuaries, and marine environments of the Pacific Coast. Spawning occurs in rivers or streams and upwelling areas along lake beaches. Streams and rivers used for spawning must have a lake in the system. Fry rear in lakes and then migrate to the sea.	No – Occurs in Salmon River north of Analysis Area with the run terminating at Redfish Lake.	N/A	N/A
Steelhead	<i>Oncorhynchus mykiss</i>	Threatened	-	SGCN / Idaho	Spawning Steelhead require flat water greater than 9.4 inches deep with gravel small enough to dig in found between areas of steep gradients with large gravel. Optimal water temperatures range from 53.6 to 64.4 degrees Fahrenheit. Fry migrate downstream to estuaries and eventually to the sea. Adults return to natal streams to spawn.	No – Occurs in tributaries to the Salmon River north of the Analysis Area	N/A	N/A
White Sturgeon (Kootenai River)	<i>Acipenser transmontanus</i>	Endangered	-	SGCN / Idaho	In North America, white sturgeon is found from Ensenada, Mexico to the Cook Inlet in Alaska. Most are found in estuaries of large rivers along the Pacific Coast. Older juveniles and adults are commonly found in rivers, estuaries, and marine environments. Spawning takes place in swift currents with a rocky bottom near rapids. Adult fish tend to occur in deeper, faster waters of large river mainstems, where they spend most of their time on or near the bottom of the riverbed. Juveniles prefer slow moving sloughs and backwaters. Spawning habitat is usually in turbulent fast water, but locations can range from shallow murky side channels with pebbly and sandy bottoms to deeper, less murky main channels with larger boulders and cobble.	No	Occurs in Snake River upstream to Shoshone Falls	N/A

Table D.11-1. ESA Threatened, Endangered, or Candidate Wildlife Species with the Potential to Occur within the Analysis Area cont.

Common Name	Scientific Name	ESA Status	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Amphibians								
Columbia Spotted Frog – Great Basin Population only	<i>Rana luteiventris</i>	Candidate	FS sensitive (R2, R4) BLM sensitive	SGCN / Wyoming SGCN / Idaho	This species is aquatic and lives in or near permanent bodies of water such as: lakes, ponds, slow streams, and marshes. They prefer areas with thick algae and vegetation for cover, but may also hide under decaying vegetation. They most commonly occur in non-woody wetland plant communities.	Yes – Permanent water bodies occur in most segments within the Analysis Area.	Permanent wetland and open water areas below 9720 feet in elevation; delineated from vegetation mapping.	4, 8, 9
Wyoming Toad	<i>Bufo baxteri</i>	Endangered	-	SGCN / Wyoming	The toad is historically found only in the Laramie Basin within 30 miles from Laramie, Wyoming. By the early 1990s a captured breeding program was commenced in an attempt to save the endangered toad from extinction, but no known wild reproduction has occurred since 1991. It formerly inhabited flood plains, ponds, and small seepage lakes in the shortgrass communities of the Laramie Basin.	No – The Analysis Area does not intercept historical or current distribution for this species.	N/A	N/A
Invertebrates								
Bliss Rapids Snail	<i>Taylorconcha serpenticola</i>	Threatened	-	SGCN / Idaho	The Bliss Rapids snail resides on the sides and undersides of rocks in free-flowing and cold-water springs in the middle Snake River, Idaho. It prefers relatively clean and rocky substrates so that it can graze on algae and diatoms at night.	Yes – Project intersects middle Snake River	Snake River	8
Banbury Springs Limpet	<i>Lanx sp.</i>	Endangered	-	SGCN / Idaho	The Banbury limpet requires cold, clear and well-oxygenated water with swift currents. The Banbury limpet are found on smooth basalt, boulders, or cobble-sized grounds ranging from 2 to 20 inches deep, but they avoid areas with green algae. Currently, this species only exists at four cold-spring locations that are isolated from each other: Thousand Springs, Box Canyon Springs, Briggs Springs, and Banbury Springs.	Yes – Project intersects Snake River near Thousand Springs. Does not intersect Box Canyon Springs.	Snake River	8
Snake River Physa Snail	<i>Physa natricina</i>	Endangered	-	SGCN / Idaho	The Snake River physa snail is found in the middle Snake River of southern Idaho. It is believed to be confined to the Snake River, inhabiting areas of swift current on the undersides of large cobbles and boulder-sized rocks. Individuals have been found in relatively undisturbed areas with gravel, boulder, or cobble substrates and a low percentage of epiphytic algae or macrophytes.	Yes – Project intersects middle Snake River	Snake River	8, 10
Bruneau Hot Springsnail	<i>Pyrgulopsis bruneauensis</i>	Endangered	-	SGCN / Idaho	The Bruneau hot springsnail occurs in thermal springs along an approximately 5 mile reach of the Bruneau River and in Hot Creek. The Bruneau hot springsnail inhabits small, geothermal spring runs and seeps, typically on basalt bedrock. Temperatures in these waters range from 15.7 to 36.9 degrees Celsius. Substrates usually comprise gravel and silt but individuals are also found on sand, mud, and algal film. Macrophytes are usually absent from occupied habitat.	Yes – Project intersects Bruneau River north of Hot Creek.	Bruneau River	9

Notes: **BLM** = Bureau of Land Management; **FS** = U.S. Forest Service; **R2** = Forest Service Region 2; **R4** = Forest Service Region 4.

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Mammals							
American Hog-nosed Skunk	<i>Conepatus leuconotus</i>	FS sensitive (R2)	-	American hog-nosed skunks occur in riparian areas, canyons, and rocky mountain slopes.	No – Within FS Region 2, this species occurs only in Colorado.	N/A	N/A
American marten	<i>Martes americana</i>	MIS (Medicine Bow NF)	-	This species inhabits mainly mature coniferous forests.	Yes	Coniferous Forest	1, 4, 5, 7
		FS sensitive (R2)					
Black-tailed Prairie Dog	<i>Cynomys ludovicianus</i>	FS sensitive (R2)	SGCN / Wyoming	Basin-prairie shrub, grasslands: Habitat includes arid grassland and shrub/grassland communities, usually with slopes less than 12 to 15 percent; in intermountain valleys, benches, and plateaus with diverse grass for cover.	Yes – Colonies occur within the Analysis Area.	Grasslands and Shrublands	1
		BLM sensitive					
California Bighorn Sheep	<i>Ovis canadensis californiana</i>	FS sensitive (R4)	SGCN / Wyoming	California bighorn sheep inhabit grassy mountains, alpine meadows and foothill country near rocky cliffs that allow quick escape. Common summer habitat includes grazing lands at 6,000-8,500 feet in elevation and winter habitat occurs at 2,500-5,000 feet where snow is not very deep. California bighorns, a subspecies, are found in desert canyons of southwestern Idaho, while Rocky Mountain bighorns are found in the central Idaho mountains.	Potentially	steep rocky areas	7, 9
		BLM sensitive	SGCN/ Idaho				
Cliff Chipmunk	<i>Tamias dorsalis</i>	BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Habitat occurs within rocky, steep hillsides; Cliff chipmunks spend much of their time near cliffs. Dens typically occur in rocky outcroppings. Species generally inhabits elevations of 1500 to 3700 meters with scrub-type habitat. Species typically occurs within juniper communities (<i>Juniperus</i> spp.), however, it can also use oaks (<i>Quercus</i> spp.), maples (<i>Acer</i> spp.), Piñon pine (<i>Pinus monophylla</i>), and Ponderosa Pine (<i>P. ponderosa</i>) communities.	Yes – Limited habitat within the Analysis Area occurs for this species.	Coniferous Forest	1, 4, 5, 7
Dark Kangaroo Mouse	<i>Microdipodops megacephalus</i>	BLM sensitive	SGCN/ Idaho	Habitat is found in loose sands and gravel in shadscale scrub, sagebrush scrub, and alkali sink plant communities. May occur in sand dunes near margins of range. The altitude of the habitat is around 1,190-2,455 m. Burrows are constructed in soft ground with the entrance near a shrub. Average home range for males is 6,613 square meters and 3,932 for females.	Yes – Species known to occur within portions of Owyhee County (ICDC and IDFG 2005).	Shrubland	8, 9
Bighorn Sheep	<i>Ovis canadensis nelsoni</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Bighorn sheep inhabit grassy mountains, alpine meadows and foothill country near rocky cliffs that allow quick escape. Common summer habitat includes grazing lands at 6,000-8,500 feet in elevation and winter habitat occurs at 2,500-5,000 feet where snow is not very deep. California bighorns, a subspecies, are found in desert canyons of southwestern Idaho, while Rocky Mountain bighorns are found in the central Idaho mountains.	Potentially	steep rocky areas	7, 9
			SGCN/ Idaho				
Fisher	<i>Martes pennanti</i>	FS sensitive (R4)	SGCN / Wyoming	Fishers prefer coniferous forests, but they are also found in mixed and deciduous forests. They prefer habitats with high canopy closure. They also prefer habitats with many hollow trees for dens. Trees typically found in fisher habitats include spruce, fir, white cedar and some hardwoods.	No – The vegetation composition and structures required by this species does not occur within the Analysis Area.	N/A	N/A
		BLM sensitive	SGCN/ Idaho				
Fringed Myotis	<i>Myotis thysanodes</i>	FS sensitive (R2)	SGCN / Wyoming	Conifer forests, woodland-chaparral, caves and mine; Habitat occurs within caves, mines, snags, rock outcrops, and human structures as roost sites, with foraging habitat often occurring within riparian areas. Open water habitats provide foraging habitat and these can include streams, reservoirs, stock tanks, and other water catchments.	Unlikely but possible – Potential habitat for this species occurs within some segments of the Analysis Area. In addition a gross scale general distribution layer for this species overlaps with the Project area; however, suitable habitat and known distributions do not overlap. Therefore it is unlikely that this species occurs within the analysis area.	Coniferous Forest	Forests - 1, 4, 5, 7 Species distribution 3, 8
		BLM sensitive	SGCN/ Idaho				
Gray Wolf	<i>Canus lupus</i>	FS sensitive (R4)	SGCN / Idaho	Wolves do not exhibit particular habitat preference except for the presence of native ungulates within its territory on a year round basis. While establishing new packs, wolves have demonstrated greater tolerance of human presence and disturbance than previously thought characteristic of this species.	Yes – The Analysis Area is in the Yellowstone and Central Idaho non-experimental population area. It is probable that transitory wolves may use portions of the Analysis Area while dispersing to new areas.	Known locations of wolf packs mapped by the IDCDC and the WYNDD.	All segments could provide habitat for this species.
Gunnison's prairie dog	<i>Cynomys gunnisoni</i>	FS sensitive (R2)	-	Basin-prairie shrub, grasslands: Habitat includes arid grassland and shrub/grassland communities.	No – Species distribution does not overlap with the Analysis Area.	N/A	N/A
Idaho Pocket Gopher	<i>Thomomy idahoensis</i>	BLM sensitive	SGCN / Wyoming	Shallow stony soils in open sagebrush, sagebrush-grassland, and mountain meadow habitats; Idaho Pocket Gophers are active all year long. When they excavate burrows in the winter, they leave the dirt piled in snow tunnels.	Yes – Habitat for this species does occur within the Analysis Area.	Shrubland	All segments could provide habitat for this species.
			SGCN/ Idaho				
Kit Fox	<i>Vulpes macrotis</i>	FS sensitive (R2)	SGCN/ Idaho	Habitat occurs within semi-desert shrubland and margins of pinyon-juniper woodland. Habitat typically has a saltbush, shadscale, sagebrush, and greasewood presence.	Yes – Habitat for this species occurs within the Analysis Area.	Shrubland	All segments could provide habitat for this species.
		BLM sensitive					
Little Pocket Mouse	<i>Perognathus longimembris</i>	BLM sensitive	SGCN/ Idaho	Habitat typically occurs in sagebrush, creosote bush, and cactus communities. On slopes with widely spaced shrubs, found in firm, sandy soil overlain with pebbles. In Idaho, found in shadscale/dwarf sage on lower slopes of alluvial fans in Raft River Valley.	No – Species distribution does not overlap with the Analysis Area.	N/A	N/A

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Mammals cont.							
Long-Eared Myotis	<i>Myotis evotis</i>	BLM sensitive	SGCN / Wyoming	Species inhabits coniferous forest and woodland, including juniper, Ponderosa pine, and spruce-fir. It typically forages over rivers, streams, and ponds within the forest-woodland environment. During summer, it roosts in a wide variety of structures, including cavities in snags, under loose bark, stumps, buildings, rock crevices, caves, and abandoned mines. During winter, it probably hibernates primarily in caves and abandoned mines.	Yes – Relatively small portions of some segments contain habitat for this species.	Coniferous Forest	1, 4, 5, 7
Merriam's Ground Squirrel	<i>Spermophilus canus vigilis</i>	BLM sensitive	-	Shallow stony soils; Little is known about the subspecies. Their annual cycles and diet probably are similar to southern Idaho ground squirrels. Burrow diameter usually is <2 inches; entrances often under bushes or rocks.	Yes	West side of Snake River in west-central Idaho	8, 9, 10
New Mexico Meadow Jumping Mouse	<i>Zapus hudsonius luteus</i>	FS sensitive (R2)	-	The New Mexico meadow jumping mouse is endemic to New Mexico, Arizona, and a small area of southern Colorado. It nests in dry soils, but uses moist, streamside, dense riparian/wetland vegetation up to an elevation of about 8,000 feet	No – Species distribution does not overlap with the Analysis Area.	N/A	N/A
Pygmy Rabbit	<i>Brachylagus idahoensis</i>	FS sensitive (R4) BLM sensitive	SGCN / Wyoming SGCN / Idaho	Basin-prairie and riparian shrub: Species inhabits dense, tall stands of big sagebrush, usually along intermittent streams or riparian areas in sagebrush-grasslands. It is dependent on sagebrush, which comprises up to 99% of its winter diet. Also, since it excavates its own burrows, soft, deep soil is a key habitat feature.	Yes	Sagebrush shrubland	Segments 2 through 10
Pygmy Shrew	<i>Sorex hoyi</i>	FS sensitive (R2)	SGCN / Wyoming SGCN/ Idaho	This southern version of the shrew inhabits moist environments such as bogs, marshes, wet prairies, and the forested margins of lakes and streams.	No – Species distribution does not overlap with the Analysis Area.	N/A	N/A
Piute Ground Squirrel	<i>Spermophilus mollis artemisiae</i>	BLM sensitive	-	Species prefers areas with native shrubs, especially winterfat, and sagebrush.	Yes – Habitat for this species does occur within the Analysis Area.	Shrubland	5, 7, 8, 9, 10
River Otter	<i>Lontra canadensis</i>	FS sensitive (R2)	-	Inhabits rivers, ponds, and lakes located adjacent to wooded areas.	Yes	Wetlands, waterbodies, and riparian areas	All segments could provide habitat for this species.
Rocky Mountain Bighorn Sheep	<i>Ovis canadensis canadensis</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Bighorn sheep inhabit grassy mountains, alpine meadows and foothill country near rocky cliffs that allow quick escape. Common summer habitat includes grazing lands at 6,000-8,500 feet in elevation and winter habitat occurs at 2,500-5,000 feet where snow is not very deep. California bighorns, a subspecies, are found in desert canyons of southwestern Idaho, while Rocky Mountain bighorns are found in the central Idaho mountains.	No – The Analysis Area does not overlap with the known distribution for this species.	N/A	N/A
		BLM sensitive	SGCN/ Idaho				
Snowshoe Hare	<i>Lepus americanus</i>	MIS (Medicine Bow NF)	-	Snowshoe hares inhabit dense young woodlands in environments with relatively deep winter snow accumulation. Optimum densities of woody shrubs and small trees range from 4,600 to 33,210 stems per ha.	Yes	Woodlands	1, 4, 5, 7
Spotted Bat	<i>Euderma maculatum</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Species occupies a wide variety of habitats typically adjacent to perennial water, from desert scrub to coniferous forest, although it is most often observed in low deserts and basins and juniper woodlands. It roosts in cracks and crevices in high cliffs and canyons. It also may occasionally roost in buildings, caves, or abandoned mines, although cliffs are the only roosting habitat in which reproductive females have been documented.	Yes – Given the wide range of habitats utilized by this species and the overlap between known distribution in the Analysis Area, it is assumed that all segments may provide habitat. Analysis Area, although IDFG indicates it may not be present in southeastern Idaho (IDFG 2005)[1]	Caves, Coniferous Forest, and Shrublands	All segments could provide habitat for this species.
		BLM sensitive	SGCN/ Idaho				
Swift Fox	<i>Vulpes velox</i>	FS sensitive (R2)	SGCN / Wyoming	Species prefers grasslands. Swift fox tend to be associated with short and mixed grass prairie. They form their dens in sandy soil on open prairies, in plowed fields, or along fences.	Yes – Habitat for this species does occur within the Analysis Area.	Grasslands	All segments could provide habitat for this species.
		BLM sensitive					
Townsend's Big-eared Bat	<i>Corynorhinus townsendii</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Species inhabits forests and basin-prairie shrub. Roosting habitat includes: caves, mines, snags, rock outcrops, and human structures. Similar habitat as the fringed myotis, but more closely associated with caves and mines for day roosts and hibernation sites. It is common in shrub-steppe, juniper woodlands and dry coniferous forests.	Yes – Potential habitat for species occurs within some segments of the Analysis Area including mines, snags, and caves.	Caves, Coniferous Forest, and Shrublands	1, 4, 5, 7, 8, 9, 10,
		BLM sensitive	SGCN/ Idaho				
Uinta Chipmunk	<i>Tamias umbrinus</i>	BLM sensitive	SGCN/ Idaho	Habitat often includes coniferous forests at moderate to high elevations (to upper treeline). In Wyoming, they are reported occupying spruce-fir forest, lodgepole pine-Douglas-fir forest, and ponderosa pine forest. In more southern regions of the global range, they are most often associated with ponderosa pine habitats, but also are found in drier pinyon pine-juniper woodlands.	No – Suitable habitat for this species does not occur within the Analysis Area.	N/A	N/A
Water Vole	<i>Microtus richardsoni</i>	FS sensitive (R2)	SGCN / Wyoming	Habitat for the water vole consists of a disjunct pattern of short, fragmented patches along reaches of alpine and subalpine, spring fed or glacial streams; with gravel bottoms and a slope of approximately 5 degrees.	No	N/A	N/A

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Mammals cont.							
White-tailed Prairie Dog	<i>Cynomys leucurus</i>	FS sensitive (R2)	SGCN / Wyoming	Basin-prairie shrub, grasslands: Habitat includes arid grassland and shrub/grassland communities, usually with slopes less than 12 to 15 percent; typically higher elevations than the black tailed prairie dog, in intermountain valleys, benches, and plateaus with diverse grass and forb cover. Where it occurs east of the Continental Divide in Wyoming, it probably occupies areas that are too dry for the black-tailed prairie dog.	Yes – Colonies do occur within the Analysis Area	Grasslands and Shrublands	1, 2, 3, 4
		BLM sensitive					
Wyoming Ground Squirrel	<i>Spermophilus elegans nevadensis</i>	BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Primarily valley bottoms, foothills, grasslands and semidesert shrublands. Their geographic centers are in southwestern Montana, central and southwestern Wyoming, and southwestern Idaho, but populations occur in the states bordering these regions.	Yes – Habitat for this species does occur within the Analysis Area.	Grasslands and Shrublands	All segments provide potential habitat for this species.
Wyoming Pocket Gopher	<i>Thomomys clusius</i>	FS sensitive (R2)	SGCN / Wyoming	Limited information is available regarding the habitat requirements of Wyoming pocket gophers. The species seems to prefer loose, gravelly, upland soils, often where greasewood is growing. This species' range is relatively limited, and populations are small; consequently, few animals have ever been found. The species is the only vertebrate animal that occurs exclusively in Wyoming. The current known distribution is restricted to the south-central portion of the state.	Yes – Given the limited available data regarding the distribution and habitat needs of this species, it is assumed that there is the potential that Wyoming pocket gopher habitat occurs within the Analysis Area.	Shrublands	2, 3, 4
		BLM sensitive					
Birds							
American Bittern	<i>Botaurus lentiginosus</i>	FS sensitive (R2)	SGCN / Wyoming	This species nests near freshwater wetlands with tall, emergent vegetation or in grassy, upland areas in close proximity to such wetlands. Nesting habitat is typically close in proximity to foraging habitat which consists of emergent wetland vegetation.	Yes – This species distribution overlaps the analysis area	Wetlands	All segments provide potential habitat for this species, although some segments would only be used as transitory habitat.
American White Pelican	<i>Pelecanus erythrorhynchos</i>	BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Habitat occurs on a variety of aquatic and wetland habitats, including rivers, lakes, reservoirs (both large and small), estuaries, bays, marshes, and sometimes in inshore marine habitats. These habitats are used variously for nesting, loafing, and feeding. Nesting colonies usually are situated on islands or peninsulas in brackish or freshwater lakes, where they are isolated from mammalian predators.	Yes – Habitat for this species occurs within the Analysis Area.	Aquatic Habitats	All segments provide potential habitat for this species, although some segments would only be used as transitory habitat.
Bald Eagle	<i>Haliaeetus leucocephalus</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Species typically occurs close to fish bearing open water, including major rivers, lakes, and reservoirs. Generally occupy riparian or lacustrine habitat as breeders but occasionally exploit upland areas for food. On rivers, they concentrate on runs and pools, riffles are important seasonally as prey fishes are spawning; lakes and reservoirs are used in shallow areas with gentle sloped shorelines and wetlands. Winter foraging habitat can include upland areas where they feed on carrion, and small mammals.	Yes – Both winter foraging and nesting habitat occurs within the Analysis Area. Bald eagles were observed within the transmission line corridor during raptor surveys conducted in April 2008. An active bald eagle nest was identified within the Kemmerer FO on April 6 in a heron rookery on the Hams Fork River. An active bald eagle nest was also identified within the Casper FO on the North Platte River on April 14 th . A pair of bald eagles were observed incubating or perched nearby. In addition, multiple eagle nests are known in the general area from agency surveys as well as existing data.	Aquatic Habitats, with emphasis on fisheries.	All segments could provide potential habitat for this species, although some segments would only be used as transitory habitat.
		BLM sensitive	SGCN/ Idaho				
Baird's Sparrow	<i>Ammodramus bairdii</i>	BLM sensitive	-	Species utilizes grasslands and weedy fields. Species does not inhabit prairie lands where fire suppression and changes in natural grazing patterns have allowed woody vegetation to grow excessively. Baird's Sparrows prefer to nest in native prairie, but structure may ultimately be more important than plant species composition.	Yes – Potential habitat for this species occurs intermittently throughout the Analysis Area.	Grasslands	All segments could provide habitat for this species.
Black-backed Woodpecker	<i>Picoides arcticus</i>	FS sensitive (R2)	SGCN / Wyoming	This species inhabits forest habitats, especially those that have experienced a recent fire, as these provide a rich food source.	No – This species distribution does not overlap the analysis area	N/A	N/A
Black Tern	<i>Chlidonias niger</i>	FS sensitive (R2)	SGCN / Wyoming	Preferred summer habitats for this species occurs in inland marshes and sloughs, typically with fairly dense cattail or other marsh vegetation and pockets of open water. These wetlands are often shallow in nature. Winter habitat is on the coasts of South America.	Yes – Habitat for this species occurs intermittently throughout most segments.	Wetlands	1, 2, 4, 5, 7, 8, 9
		BLM sensitive	SGCN/ Idaho				
Black-throated Sparrow	<i>Amphispiza bilineata</i>	BLM sensitive	-	Species prefers a sparse, isolated desert environment. Hot, dry weather in the desert uplands, creosote bush and scrub environments are the most frequent habitats. These sparrows prefer terrain that is either steeply sloped or very flat. Besides desert uplands, they also favor alluvial fans and hill slopes, usually with much exposed rock and gravel pavement. Within the Analysis Area, habitat most likely occurs within sagebrush communities.	Yes – This species is not common within the Analysis Area; However, potential habitat does occur within Idaho and southwestern Wyoming.	Shrubland	3, 4, 5, 7, 8, 9, 10
Black Swift	<i>Cypseloides niger</i>	FS sensitive (R2)	SGCN/ Idaho	Breeding black swifts inhabit sea caves and cliffs along the Pacific Coast, and adjacent to or near wet cliff sites in montane canyons. Most nests within the interior U.S. occur on shaded cliff walls near areas of dripping water. Wintering habitat consists of similar habitats described for breeding habitat.	No	N/A	N/A

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Birds cont.							
Boreal Owl	<i>Aegolius funereus</i>	FS sensitive (R2, R4)	SGCN / Wyoming SGCN/ Idaho	Species preferred habitat varies throughout its range but includes mainly old-growth forests with woodpecker cavities for nesting. They inhabit a range of forests from pure coniferous to pure deciduous forests. Idaho they were found to favor spruce-fir or subalpine-fir above 5,000 ft. elevation. Hunting habitat includes forest meadows and open forests.	Yes – Suitable habitat does occur within the portion of the Analysis Area.	Coniferous Forest	1, 4, 5, 7
Brewer's Sparrow	<i>Spizella breweri</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Species is closely associated with sagebrush, preferring dense stands broken up with grassy areas. In the northern part of their range, they can be found in habitats such as sub-alpine fir or dwarf birch, or montane pinon-juniper woodlands.	Yes – Habitat for the species does occur within the Analysis Area.	Grasslands and Shrublands	All segments could provide habitat for this species.
Burrowing Owl	<i>Athene cunicularia</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Grasslands, basin-prairie shrub: owls use vacant rodent burrows, mainly associated with prairie dog habitat. In Wyoming, the highest concentrations of burrowing owls are in the south and east, although they occur and breed throughout the state (WGFD. ND).	Yes – Breeding records within the region of Analysis Area are associated with prairie dog colonies (WGFD. ND.).	Grasslands and Shrublands	All segments could provide habitat for this species.
California Spotted Owl	<i>Strix occidentalis occidentalis</i>	FS sensitive (R4)	-	The California spotted owl's range overlaps that of the northern spotted owl in the southern Cascade Range, and extends south through the western Sierra Nevada to Tulare County. They also occur in discrete populations in mountainous areas of coastal and southern California from Monterey County to northern Baja California.	No – This species distribution does not overlap the analysis area	N/A	N/A
Cassin's Sparrow	<i>Aimophila cassinii</i>	FS sensitive (R2)	-	This species breeds in habitats that are dominated by grasses but have some percentage of shrub cover as well. Nests are located placed on the ground or just off the ground, within a low shrub.	No – This species distribution does not overlap the analysis area	N/A	N/A
Calliope Hummingbird	<i>Stellula calliope</i>	BLM sensitive	-	Species is a summer resident within the region. Summer habitat is mostly montane communities, breeding at elevations ranging from 3,900 ft to timberline. Species occupies habitats ranging from riparian forests to shrub-sapling secondary growth to open montane forests.	Yes – Species is known to occur within western Wyoming and southern Idaho and marginal habitat occurs within the Analysis Area.	Deciduous and Coniferous Forests	1, 4, 5, 7
Chestnut-Collared Longspur	<i>Calcarius ornatus</i>	FS sensitive (R2)	SGCN / Wyoming	This species is a native prairie obligate, and prefers level to rolling native mixed-grass and shortgrass uplands. In drier areas it can be found in moist lowlands.	Yes	Native prairie	1, 2, 3
Columbian Sharp-Tailed Grouse	<i>Tympanuchus phasianellus columbianus</i>	MIS (Caribou NF) FS sensitive (R2, R4) BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Species inhabits mountain-foothills shrub communities of serviceberry, snowberry, chokecherry, and Gambel oak; sagebrush-grassland; and willow riparian habitats. In Wyoming, it prefers mountain-foothills shrub and sagebrush-snowberry habitats in the transitional zone between sagebrush-grass and forested habitats. Forest habitats (riparian draws) may provide winter forage. Leks are the center of breeding activity and are typically located in areas with little slope and low, sparse vegetation, such as knolls, ridgetops, or benches that allow good visibility.	Yes – Columbian sharp-tailed grouse leks and suitable habitat have been documented within the Analysis Area.	Shrubland	4, 5, 6, 7, 9
Common Loon	<i>Gavia immer</i>	FS sensitive (R4)	-	This species generally inhabits clear, oligotrophic lakes, surrounded by forest, with rocky shorelines, deeply indented bays, numerous islands, and floating bogs. Forest types are characteristic of boreal and mixed forests. Idaho and Wyoming do not generally provide habitat for the common loon; however, there is a small area of breed habitat located on the border of Idaho, Wyoming, and Montana; north of the Project area.	No	N/A	N/A
Ferruginous Hawk	<i>Buteo regalis</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Species uses mixed-grass prairie communities and is often associated with little bluestem, prairie June grass, green needle-grass, western wheatgrass, and Kentucky bluegrass. Trees are common nest sites, including eastern cottonwoods, peachleaf willow, juniper, box elder maple, green ash, Chinese elm, and American elm. Species also uses sagebrush and saltbrush, greasewood shrublands.	Yes – Nest sites have been documented within the Analysis Area. The ICDC documented multiple nest sites within segments 7, 8, and 9, and the WNDD documented nest sites within segments 1W, 1E, 2, 3, and 4.	Grasslands	All segments could provide habitat for this species.
Flammulated Owl	<i>Otus flammeolus</i>	FS sensitive (R2, R4) BLM sensitive	SGCN/ Idaho	Species is associated with mature and old-growth xeric ponderosa pine/Douglas-fir stands with preference for mature growth with open canopy avoiding dense young stands. Nests in woodpecker holes made in mature aspen or ponderosa pine habitat.	Yes – Suitable habitat occurs within the portion of the Analysis Area.	Coniferous or aspen forest	1, 4, 5, 7
Greater Prairie-Chicken	<i>Tympanuchus cupido</i>	FS sensitive (R2)	-	This grassland species inhabits mid-tallgrass and tallgrass of the Great Plains region.	No – This species distribution does not overlap the analysis area	N/A	N/A
Great Gray Owl	<i>Strix nebulosa</i>	FS sensitive (R4)	SGCN / Wyoming	Species favors dense, mature coniferous forests with close proximity to meadows or open fields. This combination allows conifer nesting and roosting along with the abundance of small rodents that occur in forest openings.	Yes – Suitable habitat does occur within a portion of the Analysis Area.	Mature Coniferous Forest	1, 4, 5, 7

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Birds cont.							
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	FS sensitive (R2)	SGCN / Wyoming	This species inhabits open grassland habitats. It prefers grassland patches that are at least 8 ha or larger in size.	Yes	Grassland habitats that are at-least 8 ha in size	All segments could provide habitat for this species.
			SGCN/ Idaho				
Golden Crowned Kinglet	<i>Regulus satrapa</i>	MIS (Medicine Bow NF)	-	This species inhabits dense, coniferous forests, especially where spruce or firs are present.	Yes	Coniferous forests	1, 4, 5, 7
Gunnison Sage-Grouse	<i>Centrocercus minimus</i>	FS sensitive (R2)	-	This sage-grouse species inhabits a variety of habitats: such as sagebrush habitats with a diversity of grasses and forbs and healthy, as well as wetland and riparian areas.	No – This species distribution does not overlap the analysis area	N/A	N/A
Hammond's Flycatcher	<i>Empidonax hammondi</i>	BLM sensitive	-	Species inhabits cool forests, especially coniferous or mixed forests with fir trees. Hammond's Flycatchers have been found to favor old-growth associates in Douglas-fir/ponderosa pine forests.	Yes – Marginal habitat for this species occurs within the Analysis Area.	Coniferous Forest	1, 4, 5, 7
Harlequin Duck	<i>Histrionicus histrionicus</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Species prefers cold, shallow, rapid mountain streams away from concentrated human activities. It nests on the ground along streams with less than 5% gradient, dense shrubs lining the banks, braided channels, swift currents, abundant aquatic insects, and good water quality.	No	N/A	N/A
			SGCN/ Idaho				
Lewis's Woodpecker	<i>Melanerpes lewis</i>	FS sensitive (R2)	SGCN / Wyoming	Species prefers open ponderosa pine forest, open riparian woodland dominated by cottonwood, and logged or burned pine forest. May prefer ponderosa pine forest at medium to high elevations and open riparian forests at low elevations. Often classified as a specialist in burned pine forest habitat although suitability of burned areas may vary with post-fire age, size, and intensity of burn.	Yes – Habitat for this species occurs within the Analysis Area.	Deciduous and Coniferous Forest	1, 4, 5, 7
		BLM sensitive	SGCN/ Idaho				
Lesser Prairie-Chicken	<i>Tympanuchus pallidicinctus</i>	FS sensitive (R2)	-	This species inhabits xeric grasslands of the southwestern Great Plains region.	No – This species distribution does not overlap the analysis area	N/A	N/A
Lincoln's Sparrow	<i>Melospiza lincolni</i>	MIS (Medicine Bow NF)	-	Habitat information on this species is limited, but based on what is known, they seem to prefer riparian willow habitats at elevations between 2,050 and 2,260 m.	Yes	Riparian willow areas	All segments could provide habitat for this species.
Loggerhead Shrike	<i>Lanius ludovicianus</i>	FS sensitive (R2)	-	Species habitat occurs in basin-prairie shrub and mountain-foothill shrub. Species prefers open habitat including shrub-steppe, deserts and grasslands with access to elevated perches and impaling stations. Feeds mostly on large insects such as grasshoppers and beetles but some small birds and rodents are also taken.	Yes – Habitat occurs throughout the Analysis Area. Nesting has been documented in the ICDC within the proposed Segment 8.	Shrublands and Grasslands	All segments could provide habitat for this species.
		BLM sensitive					
Long-billed Curlew	<i>Numenius americanus</i>	FS sensitive (R2)	SGCN / Wyoming	Habitat occurs in grasslands, plains, foothills, and wet meadows. Species selects open habitats year-round. During the breeding season, they frequent prairies and grasslands, as well as plowed fields, meadows, and pastures.	Yes – Habitat for this species occurs throughout the Analysis Area. The ICDC records indicate that the species has been documented within the Analysis Area along both proposed and alternative segment 8 routes and nesting has been documented within the Analysis Area along both proposed and alternative Segment 9 routes.	Grasslands	All segments could provide habitat for this species.
		BLM sensitive	SGCN/ Idaho				
McCown's Longspur	<i>Calcarius mccownii</i>	FS sensitive (R2)	SGCN / Wyoming	This species inhabits shortgrass prairies which contain sparse vegetation coverage. They can utilize agricultural areas (predominantly within their northern range).	Yes	Grasslands	1, 2, 3
Mountain Plover	<i>Charadrius montanus</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming	Species inhabits low, open habitats such as arid shortgrass and mixed grass prairies dominated by blue grama and buffalo grass with scattered clumps of cacti and forbs, and saltbush habitats of the shrub-steppe of central and western Wyoming. It prefers to nest in large, flat grassland expanses with sparse, short vegetation (10 cm or less), and bare ground. It is adapted to areas that have been disturbed by prairie dogs, heavy grazing, or fire.	Yes – Potential habitat for this species occurs throughout the Analysis Area.	Xeric shrublands and grasslands with a slope of less than 9%.	1, 2, 3, and 4
Mountain Quail	<i>Oreortyx pictus</i>	FS sensitive (R4)	SGCN/ Idaho	Habitat includes mixed evergreen forests and woodlands. Species are typically found in dense cover with scattered open areas on slopes in foothills and mountains. They use the dense thickets resulting from fires or clearcuts, and they are seldom found far from this cover. In summer, the quail require a source of water, which may limit their nesting range.	Yes	Coniferous Forest and Shrubland	All segments could provide habitat for this species.
		BLM sensitive					
Northern Goshawk	<i>Accipiter gentilis</i>	MIS (Caribou, Medicine Bow, Sawtooth NF)	SGCN / Wyoming	Species occurs within mature conifer and deciduous forests. Species is a forest habitat generalist and requires abundant prey base, possibly related to understory shrub development in forested habitat. Generally considered to prefer mature coniferous forests, but will also inhabit deciduous and mixed forests from sea level to subalpine areas.	Yes – Suitable and potential habitat occurs within the Analysis Area.	Mature Coniferous and Deciduous Forests	1, 4, 5, 7, 9
		FS sensitive (R2, R4)					
		BLM sensitive					

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Birds cont.							
Northern Harrier	<i>Circus cyaneus</i>	FS sensitive (R2)	-	This species inhabits a wide range of open wetland and upland habitats during the breeding season, including fresh to alkali wetlands, wet or dry grasslands, lightly grazed agricultural pastures, old fields, brushy areas, and cold desert shrub-steppe. In the nonbreeding season, the northern harrier uses a wide variety of open habitats with herbaceous cover, including freshwater and saltwater wetlands, grasslands, idle fields, agricultural pastureland, desert, and, to a lesser extent, cropland	Yes – Observation and nests have been found within or near the analysis area	Wetland, Shrublands, and Grasslands	All segments could provide habitat for this species.
Olive-sided Flycatcher	<i>Contopus borealis</i>	FS sensitive (R2)	-	Olive-sided flycatchers are generally restricted to coniferous or mixed-coniferous forests. Throughout their breeding range, they primarily occur in montane, subalpine, and boreal forests. In addition, they often occur along wooded shores of lakes, rivers, and bogs where forest edges, variation in tree height, and standing dead trees are found. This species is most often associated with forest edges and openings caused by natural or anthropogenic disturbances, including small forest gaps resulting from tree death in old-growth forests, or along the edges of early successional forests. Olive-sided flycatchers usually do not occur in closed canopy forests and are uncommon in forests in the sapling-pole or mature forest stages that lack gaps or edges.	Yes	Forest	1, 4, 5, 7, 9
		BLM sensitive					
Peregrine Falcon	<i>Falco peregrinus</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Tall cliffs: Nests near rocky cliffs and often hunts near water.	Yes	Rocky habitats near riparian/wetlands areas used for hunting	All segments could contain rock habitats
		BLM sensitive	SGCN/ Idaho				
Pileated Woodpecker	<i>Dryocopus pileatus</i>	MIS (Sawtooth NF)	-	This species can be found within late successional stages of coniferous or deciduous forest, as well as younger forests that have scattered, large, or dead trees. This species is not found within Wyoming, but does have year round breeding habitat in the northern half of Idaho (north of the Project area).	No	N/A	N/A
Prairie Falcon	<i>Falco mexicanus</i>	BLM sensitive	-	This species tends to occupy open treeless terrain including prairies, deserts, riverine escarpments, canyons, foothills, and mountains.	Yes – Found all year in Idaho and Wyoming	Shrublands and Grasslands	All segments could provide habitat for this species.
Purple Martin	<i>Progne subis</i>	FS sensitive (R2)	-	This species nests in forest edges and clearings adjacent to waterbodies.	Likely – This species distribution is adjacent to the analysis area, and some individuals would likely pass infrequently into the analysis area.	Riparian areas	1, 2, 4, 5, 7, 8, 9
Sage Sparrow	<i>Amphispiza belli</i>	FS sensitive (R2)	SGCN / Wyoming	Basin-prairie shrub, mountain-foothill shrub: Species breeds in open, shrublands, most commonly in sagebrush grassland areas. These sparrows favor dense stands of sagebrush with a modest amount of understory vegetation. Winter habitat for sage sparrows is found in open flats, deserts and dry chaparral of the Southwest	Yes	Sagebrush	All segments could provide habitat for this species.
		BLM sensitive					
Sage Thrasher	<i>Oreoscoptes montanus</i>	BLM sensitive	SGCN / Wyoming	Basin-prairie shrub, mountain-foothill shrub: The species is a sagebrush obligate as they are common inhabitants of shrub-steppe communities that are dominated by big sagebrush. Nest-site selection is specific as most nests are located within or beneath sagebrush plants with high foliage and branch density. Dense patches of large sagebrush plants and low densities of exotic plants also seem to be an important habitat characteristic for sage thrashers	Yes	Sagebrush	All segments could provide habitat for this species.
Short Eared Owl	<i>Asio flammeus</i>	FS sensitive (R2)	SGCN / Wyoming	The short eared owl typically inhabits open habitats including grasslands, sagebrush, marshes, and tundra.	Yes	Open grassland and sagebrush habitats	All segments could provide habitat for this species.
			SGCN/ Idaho				
Swainson's Hawk	<i>Buteo swainsoni</i>	BLM sensitive	-	This species inhabits open pine-oak woodlands with a abundant shrub-grass component, grasslands, and cultivated farmlands. Nests in trees or bushes.	Yes	Shrublands and Grasslands	All segments could provide habitat for this species.
Three-Toed Woodpecker	<i>Picoides dorsalis</i>	MIS (Medicine Bow NF)	SGCN / Wyoming	This species inhabits old growth spruce-fir as well as lodgepole pine forests. These birds will also exploit recently burned forests, as these provide a rich food source.	Yes	Mature forests	1, 4, 5, 7
		FS sensitive (R2, R4)	SGCN/ Idaho				
		BLM sensitive					
Trumpeter Swan	<i>Cygnus buccinator</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Lakes, ponds, rivers; Species nest on the margins of interconnected shallow marshes and lakes, lakes within forest or sagebrush habitat, and oxbows of rivers. They prefer stable, quiet, shallow waters where small islands, muskrat houses, or dense emergent vegetation provide nesting and loafing sites. Nutrient-rich waters, with dense aquatic plant and invertebrate growth, provide the best habitat	No	N/A	N/A
		BLM sensitive	SGCN/ Idaho				
Upland Sandpiper	<i>Bartramia longicauda</i>	BLM sensitive	SGCN / Wyoming	Native grassland: Species requires taller grass for nesting. It is almost never found on mudflats or in wetland environments where other shorebirds are found. Nests on pasture, prairie remnants, hayfields, summer fallow (bare soil), mulched grain stubble, standing grain stubble, and growing grain, but was most common in nontilled uplands (road rights-of-way, vegetation around prairie wetlands, heavily grazed wetlands, and small tracts of idled grasslands).	No – Occurs in Kootenai and Valley County which are outside of the Analysis Area.	N/A	N/A
			SGCN/ Idaho				

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Birds cont.							
Virginia's Warbler	<i>Vermivora virginiae</i>	BLM sensitive	SGCN/ Idaho	Typically found in pinyon-juniper and oak woodlands. Nests found in dense thickets of mountain mahogany and some populations breed in high, mixed-conifer forests. Occupies scrubby habitats below the pine belt and surrounding conifers. Never occurs in coniferous forest where there is not a deciduous mix. Strong association for breeding in steep draws, drainages, or slopes with oak or other shrubby vegetation.	Yes	Pinyon-juniper, oak woodlands, mountain mahogany.	1, 4, 5, 7
White-faced Ibis	<i>Plegadis chihi</i>	BLM sensitive	SGCN / Wyoming SGCN/ Idaho	Marshes, wet meadows: Frequently feeds in shallowly flooded wetlands of short, emergent plants, such as sedges, spikerushes, glassworts, inland saltgrass, and black greasewood. Nearby irrigated crops, particularly alfalfa, barley, and native hay meadows are important feeding sites. Water appears to be a requirement for a suitable feeding site. Usually nests in emergent vegetation or low trees and shrubs over shallow water, use hardstem bulrush, alkali bulrush, cattails, or build a stick nest in small willows.	Yes – Populations near American Falls and Rupert.	Wetlands - near American Falls and Rupert	5, 7
White-headed Woodpecker	<i>Picoides albolarvatus</i>	FS sensitive (R4) BLM sensitive	SGCN/ Idaho	Species prefers semi-open areas with large, mature trees, providing 40-70% canopy. Forages on live, mature conifers with deeply creviced and scaly bark (Raphael and White 1984). Nest and roost cavities and trees provide cover.	No – Populations near McCall and Riggins do not intersect with Analysis Area.	N/A	N/A
White-tailed Ptarmigan	<i>Lagopus leucura</i>	FS sensitive (R2)	-	This species inhabits alpine ecosystems at or above treeline as well as stream courses and meadows within the subalpine zone.	No	N/A	N/A
Williamson's Sapsucker	<i>Sphyrapicus thyroideus</i>	BLM sensitive	-	Open coniferous forests. Breeds at middle to high elevations, generally from 4,900–10,500 feet. Nests at lower elevations (from 2,800–4,250 feet) at the northern edge of its range.	Yes – Known to occur in Bear Lake County, Blain County.	Open forest habitats	4, 5, 7
Willow Flycatcher	<i>Empidonax traillii</i>	BLM sensitive	SGCN / Wyoming	Breeding habitat consists of deciduous thickets, especially willows and often near water. Winters in shrubby clearings and early successional growth.	Yes – Breeding bird survey route in western Sweetwater Co	Riparian areas - breeding bird survey route in western Sweetwater Co	4
Wilson's Warbler	<i>Wilsonia pusilla</i>	MIS (Medicine Bow NF)	-	This species of warbler inhabits mesic shrub communities or willow woodlands located near the edges of beaver ponds and lakes, riparian zones, fens, bogs, and overgrown clear-cuts.	Yes	Riparian areas	All segments could provide habitat for this species.
Fish							
Big Lost River Whitefish	<i>Prosopium williamsoni</i>	FS sensitive (R4)	SGCN / Wyoming	This species inhabits larger tributaries and the mainstem of the Big Lost River. Two metapopulations currently exist: one above and one below the Mackay Dam.	No – The Project does not cross the Big Lost River area	N/A	N/A
Bluehead Sucker	<i>Catostomus discobolus</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming SGCN / Idaho	Bear, Snake, and Green drainages, all waters. This species has been reported to typically be found in runs or riffles with rock or gravel substrate. Juveniles have been collected from shallow riffles, backwaters, and eddies with silt or gravel substrate. Although the species generally inhabits streams with cool temperatures, bluehead suckers have been found inhabiting small creeks with water temperatures as high as 82.4°F). This species is found in a large variety of river systems ranging from large rivers with discharges of several hundred cubic meters per sec to small creeks with less than a 0.05 cubic meters per second (1.8 cubic feet per sec).	Yes	Snake and Green River drainages	4, 5, 7, 8, 9, 10
Bonneville Cutthroat Trout	<i>Oncorhynchus clarki utah</i>	FS sensitive (R4) BLM sensitive	SGCN / Wyoming SGCN / Idaho	Clear mountain streams within the Bonneville basin, along the Bear River drainage.	Yes – Occurs in Bear River and drainages	Bear River	4
Colorado River Cutthroat Trout	<i>Oncorhynchus clarki pleuriticus</i>	FS sensitive (R2, R4) BLM sensitive	SGCN / Wyoming	Clear mountain streams along the Colorado River drainages located above the Grand Canyon; including the Green River.	Yes – Occurs in Green River	Green River	4
Common Trout	brook trout (<i>Salvelinus fontinalis</i>), rainbow trout (<i>Oncorhynchus mykiss</i>), and brown trout (<i>Salmo trutta</i>)	MIS (Medicine Bow NF)	-	Found in cold waters of the Yampa, North Platte, and Colorado Rivers.	Yes	Rivers	4, 5, 7, 8, 9, 10
Finescale Dace	<i>Phoxinus neogaeus</i>	FS sensitive (R2)	SGCN / Wyoming	Finescale dace typically occur in cool, boggy lakes and sluggish, acidic streams. They are commonly found in lakes and ponds and are often associated with beaver ponds.	Yes	Waterbodies	4, 5, 7, 8, 9, 10
Fine-spotted Cutthroat Trout, Snake River Cutthroat	<i>Oncorhynchus clarki</i> spp	FS sensitive (R4) BLM sensitive	SGCN / Wyoming SGCN / Idaho	Snake River drainage, clear, fast water	Yes – Occurs in Snake River and drainages	Snake River	4, 5, 7, 8, 9, 10

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Fish cont.							
Flannelmouth Sucker	<i>Catostomus latipinnis</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming	Colorado River drainage, large rivers, streams and lakes. Although preferring large rivers with deep riffles and runs, they can also be found in smaller streams and sometimes in lakes. Native to the Colorado River drainage basin, in Wyoming it's found in the Green and Little Snake river drainages. In the spring they leave the large rivers and ascend small tributary streams to spawn;	Yes – Occurs in Green River drainages	Green River	4
Flathead Chub	<i>Platygobio gracilis</i>	FS sensitive (R2)	SGCN / Wyoming	Near the Project area, this species is found in the northern portion of Wyoming including the Big Horn, Tougue, Powder, Little Powder, Belle Fourche, and Cheyenne River systems. This species distribution in Wyoming is north of the project area.	No	N/A	N/A
Hornyhead Chub	<i>Nocomis biguttatus</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming	Found in small to medium sized streams, with gravel and rock substrates, and warm waters with abundant aquatic vegetation.	No	N/A	N/A
Lake Chub	<i>Couesius plumbeus</i>	FS sensitive (R2)	SGCN / Wyoming SGCN / Idaho	Found in glacial scour lakes and rivers with clear water and gravel bottoms.	Yes	Rivers	4
Mountain Sucker	<i>Catostomus platyrhynchus</i>	FS sensitive (R2)	SGCN / Wyoming	This species can be found in small headwater streams along the Snake River, and lentic habitats such as the Lower Green River Lake.	Yes	Rivers	4, 5, 7
Northern Leatherside Chub	<i>Lepidomeda copei</i> (formally <i>Gila copei</i>)	FS sensitive (R4) BLM sensitive	SGCN / Wyoming	The leatherside chub inhabits deep pools in medium sized streams that have cool water temperatures between 60 and 75 degrees fahrenheit. They are found in streams with dense vegetation or abundant lateral habitat. Along the Project area, they can be found in the northeastern portions of the Bonneville Basin, as well as Snake and Bear River drainages along the Wyoming-Idaho-Utah border. Introduced populations can also be found within the Colorado River system.	Yes – this species is found in the Snake River drainage above Shoshone Falls, as well as the Raft River, Goose Creek, Good Creek, and Bear River. In addition, introduced populations occur in the Colorado and Green River system.	The Snake River above Shoshone Falls, as well as the Raft River, Good Creek, Goose Creek, Bear River, Colorado River, and Green River.	4, 7
Northern Redbelly Dace	<i>Phoxinus eos</i>	FS sensitive (R2)	-	Found in slow moving, spring fed streams which contain abundant vegetation and large wood debris.	No – species not native to the Project area.	N/A	N/A
Pearl Dace	<i>Margariscus margarita</i>	FS sensitive (R2)	SGCN / Wyoming	Found in slow moving, spring fed streams with well vegetated banks, and a diverse system of pool habitats.	No	N/A	N/A
Plains Minnow	<i>Hybognathus placitus</i>	FS sensitive (R2)	SGCN / Wyoming	Found along the channels of shallow, fluctuating streams with shifting sand substrates.	No	N/A	N/A
Redband Trout	<i>Oncorhynchus mykiss gairdneri</i>	BLM sensitive	SGCN / Idaho	Redband trout occur in inland drainages of the Pacific Northwest. Great Basin redband trout are found in arid forest and desert environments characterized by extreme fluctuations in stream flow and temperature.	Yes – Occurs in Snake River drainages	Snake River	8, 9, 10
Rio Grande Chub	<i>Gila pandora</i>	FS sensitive (R2)	-	Current distribution limited to the tributary systems of the Rio Grande. Can be found in cool, fast flowing reaches with gravel or cobble substrates, and banks with overhanging vegetation.	No	N/A	N/A
Rio Grande Cutthroat Trout	<i>Oncorhynchus clarkii virginalis</i>	FS sensitive (R2)	-	Current distribution is limited to tributaries of the Rio Grande in Colorado and New Mexico. Found in small, high elevation streams. This species of trout is more of a generalist than other <i>Oncorhynchus</i> .	No	N/A	N/A
Rio Grande Sucker	<i>Catostomus plebeius</i>	FS sensitive (R2)	-	Current distribution limited to the tributary systems of the Rio Grande. Found in slow moving waters that contain coarse substrates.	No	N/A	N/A
Roundtail Chub	<i>Gila robusta</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming	Colorado River drainage, mostly large rivers, also streams and lakes below 7,546 feet. Streams should have a complexity of pool and riffle habitats. Juveniles and adults are typically found in relatively deep, low-velocity habitats that are often associated with woody debris or other types of cover. Substrate in roundtail chub habitat may range from rock and gravel to silt and sand. Larvae have been reported in low velocity areas associated with backwater habitats. Temperature tolerance of roundtail chub has been reported up to 102.2 °F, but temperature preference ranges between 71.6 ° and 75.2 °F.	Yes – Found in Green and Little Snake River drainages	Green and Little Snake River	4
Shoshone Sculpin	<i>Cottus greenei</i>	BLM sensitive	SGCN / Idaho	Shoshone sculpin are found in approximately two dozen springs/streams in the Hagerman Valley. Their habitat is essentially restricted to the clear, cool (60.8 degrees Fahrenheit) well oxygenated water of the Thousand Springs Formation. They select low velocity waters with abundant gravel, rock, and aquatic vegetation.	Yes – Occurs in Hagerman Valley	Waterbodies	8
Southern Leatherside Chub	<i>Lepidomeda aliciae</i> (formally <i>Gila copei</i>)	FS sensitive (R4)	-	This species is native to streams and rivers of the southeastern portion of the Bonneville Basin; similar habitats to the northern leatherside chub, but with a most southern distribution. Occurs in Utah Lake and Sevier River drainages	Unlikely – distribution is likely south of the Project Area	N/A	N/A
Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	FS sensitive (R2)	-	Found predominantly within slow moving headwaters and upland creeks with abundant bank vegetation and large woody debris. Prefers clear waters and a gravel substrate.	No	N/A	N/A
Sturgeon Chub	<i>Macrhybopsis gelida</i>	FS sensitive (R2)	SGCN / Wyoming	Found in fast moving streams with high turbidity. Often in shallow waters such as rock or gravel riffles.	Yes	Rivers	4, 5, 7, 8, 9, 10

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Fish cont.							
Westslope Cutthroat Trout	<i>Oncorhynchus clarki lewisi</i>	FS sensitive (R4) BLM sensitive	SGCN / Idaho	Westslope cutthroat are common in both headwaters lake and stream environments. The newborn fry frequently migrate back to lakes to rear after 1 to 2 years in their native stream. Spawning and rearing streams tend to be cold and nutrient poor. Westslope cutthroat trout seek out gravel substrate in riffles and pool crests for spawning habitat. Westslope cutthroat trout also require cold water. Westslope cutthroat trout tend to thrive in streams with more pool habitat and cover than uniform, simple habitat. Juvenile cutthroat trout overwinter in the interstitial spaces of large stream substrate. Adult cutthroat trout need deep, slow moving pools that do not fill with anchor ice in order to survive the winter.	Yes – Occurs in Snake River and drainages	Snake River	5, 7, 8, 9, 10
Wood River Sculpin	<i>Cottus leiopomus</i>	FS sensitive (R4) BLM sensitive	SGCN / Idaho	The Wood River sculpin occurs only in the Wood River drainage in south-central Idaho. The Wood River sculpin occurs mainly in small to medium sized streams with cool, clear waters and a swift current. Individuals are most commonly found in riffles and runs with a gravel or cobble substrate.	Yes	Waterbodies	8
Yellowstone Cutthroat Trout	<i>Oncorhynchus clarki bouvieri</i>	FS sensitive (R2, R4) BLM sensitive MIS (Sawtooth NF)	SGCN / Wyoming SGCN / Idaho	Yellowstone, Bighorn, and Snake River drainage, small mountain streams and large rivers (including Raft River, Goose Creek, Piney Creek, and Trout Creek)	Yes	Snake River	4, 5, 7, 8, 9, 10
Reptiles							
Black Hills Redbelly Snake	<i>Storeria occipitomaculata pahasapae</i>	FS sensitive (R2)	SGCN / Wyoming	This species inhabits mountainous or hilly woodlands in the Black Hills. It is commonly found under rocks and logs in moist areas.	No – In Wyoming, this species range is limited to Crook and Weston Counties.	N/A	N/A
Common Garter Snake	<i>Thamnophis sirtalis</i>	BLM sensitive	SGCN / Wyoming	Common Garter Snakes are usually found in habitats associated with water, such as streams, rivers, lakes, ponds and marshes. They can also be found in open meadows and coniferous forests	Yes – Found in western Wyoming	Wetlands and open meadows/coniferous forests	2, 3, 4
Longnose Snake	<i>Rhinocheilus lecontei</i>	BLM sensitive	SGCN / Idaho	Arid and semi-arid deserts, grasslands, shrublands, and prairies. Sea level to 6,200 ft	Yes – Occurs at Bruneau Sand Dunes	Sand dunes	9
Desert Massasuga Rattlesnake	<i>Sistrurus catenatus edwardsii</i>	FS sensitive (R2)	-	This species inhabits shortgrass prairie habitat.	No – This species distribution does not overlap the analysis area	N/A	N/A
Midget Faded Rattlesnake	<i>Crotalus viridis concolor</i>	BLM sensitive	SGCN / Wyoming	Mountain foothills shrub, rock outcrop in sagebrush desert.	Yes – Occurs from Green River to Rock Springs	Shrublands	4
Mojave Black-collared Lizard	<i>Crotaphytus bicinctores</i>	BLM sensitive	SGCN / Idaho	Isolated populations occur in eastern Idaho and Utah. Prefers arid rocky hilly deserts with sparse vegetation, but sometimes found in areas with few rocks.	Yes – Occurs in Ada, Canyon, and Elmore counties	Shrublands	8, 9
Western Ground Snake	<i>Sonora semiannulata</i>	BLM sensitive	SGCN / Idaho	Inhabits areas with surface cover and some moisture: grassland, riverbottoms, desert flats, ranchland, sand hummocks, open rocky hillsides with loose soil, sandy washes, dry streambeds, and riparian thickets.	Yes – Occurs near Hammet	Riparian areas	8, 9
Amphibians							
Boreal Toad (Northern Rocky Mountain population)	<i>Bufo boreas boreas</i>	FS sensitive (R2, R4) BLM sensitive	SGCN / Wyoming	Pond margins, wet meadows, riparian areas. Boreal toads live in a wide range of habitats in western North America: wetlands, forests, woodlands, sagebrush, meadows, and floodplains in the mountains and valleys. Boreal toads generally occur between 7,500 and 12,000 feet in Region 2. The wetland habitat classification system of Cowardin et al. (1979) defines the following wetland classes: aquatic bed, streambed, rocky shore, unconsolidated shore, emergent wetland (persistent and non-persistent), scrub-shrub wetland, and forested wetland. Boreal toads are likely to be found within these classes in Riverine, Lacustrine, and Palustrine wetland systems.	Yes	Locations mapped by Idaho CDC and WYNDD.	All segments could provide habitat for this species.
Great Basin Spadefoot	<i>Spea intermontana</i>	BLM sensitive	SGCN / Wyoming	Spring seeps, permanent and temporary waters. Mainly sagebrush flats, semi-desert shrublands, pinyon-juniper woodland. Digs its own burrow in loose soil or uses those of small mammals. Breeds in temporary or permanent water, including rain pools, pools in intermittent streams, and flooded areas along streams. Eggs are attached to vegetation in water or placed on bottom of pool.	Yes – Occurs in Natrona County and Green River Valley	Wetlands and waterbodies	1, 4
Idaho Giant Salamander	<i>Dicamptodon aterrimus</i>	BLM sensitive	SGCN / Idaho	Known to occur up to 2160 m in elevation. Transformed adults, although seldom seen, inhabit moist coniferous forests where they may be found under logs, bark, or rocks. They are most active on warm, rainy nights. Larvae are usually found in swift, cold mountain streams, but may occasionally be found in lakes or ponds.	No – Occurs in northern Idaho outside of Analysis Area.	N/A	N/A

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Amphibians cont.							
Mountain Yellow-Legged Frog	<i>Rana muscosa</i>	FS sensitive (R4)	-	Found in wetland habitats within mountain areas of California and Nevada.	No	N/A	N/A
Northern Leopard Frog	<i>Rana pipiens</i>	FS sensitive (R2) BLM sensitive	SGCN / Wyoming SGCN / Idaho	Beaver ponds, permanent water in plains and foothills. Springs, slow streams, marshes, bogs, ponds, canals, flood plains, reservoirs, and lakes; usually permanent water with rooted aquatic vegetation. In summer, commonly inhabits wet meadows and fields. Takes cover underwater, in damp niches, or in caves when inactive. Overwinters usually underwater.	Yes	Wetland habitat mapped for the Northern Leopard Frog	All segments could provide habitat for this species.
Plains Leopard Frog	<i>Lithobates blairi</i>	FS sensitive (R2)	-	This species inhabits large waterbodies and streams, but will breed in smaller wetlands.	No – This species distribution does not overlap the analysis area	N/A	N/A
Yosemite Toad	<i>Bufo canorus</i>	FS sensitive (R4)	-	Found in wetland habitats within California.	No	N/A	N/A
Spotted Frog	<i>Rana pretiosa (lutiventris)</i>	FS sensitive (R2, R4)	SGCN / Wyoming	Ponds, sloughs, small streams. Columbia Spotted Frogs are fairly aquatic and are generally found in or near permanent bodies of water such as lakes, ponds, sluggish streams and marshes. The littoral zone is generally comprised of emergent vegetation including grasses and sedges. During the summer these frogs can be found some distance from the breeding sites but still associated with moist vegetation. Found from sea level to about 9,842 feet, usually in hilly areas near cool, permanent, quiet water in streams, rivers, lakes, pools, springs, and marshes. Highly aquatic, but may disperse into forests, grasslands, and brushlands. In the Northwest, prefers areas with thick algae and emergent vegetation, but may use sunken, dead, or decaying vegetation as escape cover.	Yes – Riparian/wetland habitats mapped for this species are present within segment 4	Riparian and wetland habitats	4, 9
		BLM sensitive	SGCN / Idaho				
Wood Frog	<i>Lithobates sylvatica</i>	FS sensitive (R2)	-	This species inhabits wetlands habitats as well as adjoining grassy meadows, willow bogs, coniferous forests, and aspen groves in their western range. In the eastern range they inhabit both closed canopy deciduous and coniferous forests.	No – This species distribution does not overlap the analysis area	N/A	N/A
Woodhouse Toad	<i>Bufo woodhousii</i>	BLM sensitive	SGCN / Wyoming	Inhabits a wide variety of habitats - irrigation ditches, temporary pools, backyards, grassland, sagebrush flats, woods, desert streams, farms, river floodplains. Prefers sandy areas. From below sea level to 8,500 ft. (2600 m.)	Yes – Occurs in Ada, Canyon and Elmore County and eastern Wyoming counties.	Wetland and adjacent upland habitats	8, 9, 1E, 1W
			SGCN / Idaho				
Invertebrates							
Bruneau Dunes Tiger Beetle	<i>Cicindela waynei waynei</i>	BLM sensitive	SGCN / Idaho	This species primarily occurs in the sparsely vegetated margins of sand dunes. Adults can be found on dunes but spend much of their time on more stabilized substrate in saddles between dunes. Larvae develop in burrows in flat areas in the narrow area between the drifting sand of the dunes and the established desert plant community. Such sites usually having a covering of small gravel or pebbles.	Yes – Occurs in Minidoka, Blain, and Power Counties	Sand dunes in Owyhee County	4, 9
Blind Cave Leiodid Beetle	<i>Glacivicolia bathyscoides</i>	BLM sensitive	SGCN / Idaho	This species is known only from southern Idaho and westernmost Wyoming. This species has only been found in lava tube caves in the vicinity of permanent ice	Yes – Occurs in Lincoln and Power County	Lava tube caves in the vicinity of permanent ice in Lincoln and Power County	4, 5, 7, 8
California Floater	<i>Anodonta californiensis</i>	BLM sensitive	SGCN / Wyoming	The California floater, a freshwater mussel, is found in the Snake River in scattered locations between Bliss and Alkali Creek. The California floater prefers habitats immediately upstream or downstream of rapids in mud-sand substrates with good water quality.	Yes – Occurs in Elmore, Gooding, Jerome, and Twin Falls County, Idaho	Wetlands	8, 9, 10
			SGCN / Idaho				
Columbia Pebblesnail	<i>Fluminicola fuscus</i>	BLM sensitive	-	The Columbia pebblesnail is found in the Snake River below Lower Salmon Falls Dam and in the tailwaters of the Bliss Dam. The pebblesnail lives in flowing waters and uses gravel- to boulder-sized substrate at the edges or downstream of rapids and whitewater areas.	Yes – Occurs in Gooding and Twin Falls County, Idaho	Wetlands and waterbodies.	8, 9, 10
Cooper's Rocky Mountain Snail	<i>Oreohelix strigosa cooperi</i>	FS sensitive (R2)	SGCN / Wyoming	This species is found in moist forest habitats.	No – Known occurrences are limited to the Black Hills National Forest	N/A	N/A
Dark Blue	<i>Euphilotes ancilla purpura</i>	FS sensitive (R4)	-	This butterfly is endemic to the Spring Mountains of Clark County Nevada. It inhabits stream banks, springs and seeps; primarily in mixed conifer and juniper areas.	No – This species distribution does not overlap the analysis area	N/A	N/A
Hudsonian Emerald	<i>Somatochlora hudsonica</i>	FS sensitive (R2)	-	This species inhabits wetland habitats which contain shallow, organic soils over dolomitic bedrock; calcareous water from intermittent seeps; or shallow small channels and/or sheet-flow	Unlikely – Near the analysis area, this species is known near Moran in Grand Teton National Park and along the North Fork of the Little Laramie River in the Medicine Bow National Forest (Both outside of the analysis area).	N/A	N/A

Table D.11-2. BLM Sensitive, Forest Service Sensitive, or MIS with the Potential to Occur within the Analysis Area

Common Name	Scientific Name	Federal Agency Status	State Species of Greatest Conservation Need (SGCN) / State Listed in	Habitat Description	Does the Species Have Distribution or Potential Habitat within the Analysis Area?	Habitat Unit used for Analysis	Segments Species may be Present In
Invertebrates cont.							
Morand's Checkerspot	<i>Euphydryas anicia morandi</i>	FS sensitive (R4)	-	This butterfly is endemic to the Spring Mountains of Clark County Nevada. There are small populations in the Lee Canyon ski areas. It inhabits meadows and avalanche chutes.	No – This species distribution does not overlap the analysis area	N/A	N/A
Mt. Charleston Blue Butterfly	<i>Icarcia shasta charlestonensis</i>	FS sensitive (R4)	-	This butterfly is endemic to the Spring Mountains of Clark County Nevada. It occurs on relatively flat ridgelines in the Spring Mountains; typically above 8,200 feet.	No – This species distribution does not overlap the analysis area	N/A	N/A
Nokomis Fritillary Butterfly (Silverspot butterfly)	<i>Speyeria nokomis nokomis</i>	FS sensitive (R2)	-	This species of butterfly inhabits spring-fed meadows, seeps, marshes, and boggy streamside meadows associated with flowing water.	No – This species distribution does not overlap the analysis area	N/A	N/A
Ottoo skipper	<i>Hesperia ottoe</i>	FS sensitive (R2)	-	This butterfly is a prairie obligate species that can be found in dry-mesic to mesic prairies.	No – This species distribution does not overlap the analysis area. The closest occurrence is in Platte County.	N/A	N/A
Pygmy mountain Snail	<i>Oreohelix pygmaea</i>	FS sensitive (R2)	SGCN / Wyoming	This species inhabits moist forest habitats.	No – Known occurrences of this species include Tensleep Canyon and Shell Canyon, WY. These canyons are outside of the analysis area	N/A	N/A
Regal Fritillary	<i>Speyeria idalia</i>	FS sensitive (R2)	-	This species inhabits tallgrass prairie, wet meadows, and marshy habitats.	No – This species distribution does not overlap the analysis area. The closest occurrence is in Platte County.	N/A	N/A
Rocky Mountain capshell	<i>Acroloxus coloradensis</i>	FS sensitive (R2)	-	This species inhabits lakes with high calcium content and low elevations (approximately 2,864 m).	No – This species distribution does not overlap the analysis area.	N/A	N/A
St. Anthony Sand Dunes Tiger Beetle	<i>Cicindela arenicola</i>	BLM sensitive	SGCN / Idaho	This species is found on sand dunes. Larvae live in burrows located in flat, grassy areas where the sand is at least a meter thick, often on the windward side of sand dunes.	Yes – Occurs in Bannock, Power, Blaine, Minidoka, Lincoln, and possibly Bingham Counties	Sand dunes	4, 9
Shortface Lanx	<i>Fisherola nuttalli</i>	BLM sensitive	SGCN / Idaho	Shortface lanx inhabits cold, unpolluted, medium to large streams with fast-flowing, well-oxygenated water and cobbleboulder substrate, and is generally found at the edges of rapids. Current populations occur in the Snake River.	Yes – Occurs in Snake River	Snake River	8, 9, 10
Spring Mountain Checkerspot	<i>Chlosyne acastus robusta</i>	FS sensitive (R4)	-	This butterfly is endemic to the Spring Mountains of Clark County Nevada. It can be found in Kyle Canyon and Deer Creek. It occur primarily in riparian areas.	No – This species distribution does not overlap the analysis area	N/A	N/A
Susan's Purse-making Caddisfly	<i>Ochrotrichia susanae</i>	FS sensitive (R2)	-	The larva of this species are aquatic and inhabit small, cold streams that are well-oxygenated, highly buffered, and low in trace metals. Adults are weak flyers and tend to remain close to larva habitat.	No – This species is only know in central Colorado.	N/A	N/A

Notes: **BLM** = Bureau of Land Management; **FS** = U.S. Forest Service; **R2** = Forest Service Region 2; **R4** = Forest Service Region 4.

Table D.11-3. Miles of Habitat Crossed for Federal ESA Wildlife Species with Available Quantitative Data

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Miles of Habitat Crossed						
			Black-Footed Ferret	Canada Lynx	Columbia Spotted Frog	Greater Sage-Grouse	Grizzly Bear	Preble's Meadow Jumping	Yellow-Billed Cuckoo
1W	1W(a) Proposed – Total Length	73.8	1.9			45.7		7.4	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5				7.2		1.1	
	Alternative 1W(a)-B	20.9				9.2		1.3	
	1W(c) Proposed – Total Length	73.6	4.3			44.4		9.2	
2	Proposed – Total Length	91.9	t ^{1/}			85.2		5.5	
	Proposed – Comparison portion for Alternative 2A	16.8				14.3		1.4	
	Alternative 2A	16.0				12.9		1.4	
	Proposed – Comparison portion for Alternative 2B	12.5				10.3		1.3	
	Alternative 2B	12.2				9.0		1.9	
3	Segment 3 Proposed – Total Length	45.9				36.2	26.4		
	Segment 3A Proposed – Total Length	5.1				4.4	5.1		
4 ^{2/}	Proposed – Total Length	197.6			2.3	144.9	132.0		
	Proposed – Comparison portion for Alternatives 4B-4F	85.2			2.3	69.1	71.3		
	Alternative 4B	100.2			1.3	85.3	18.9		
	Alternative 4C	101.6			0.7	83.2	31.1		
	Alternative 4D	100.8			1.2	84.9	18.9		
	Alternative 4E	102.2			0.6	82.8	31.1		
	Alternative 4F	87.5		4.5	1.8	69.1	76.0		
5	Proposed – Total Length	55.7				27.7			
	Proposed – Comparison portion for Alternatives 5A,B	22.3				9.6			
	Alternative 5A	29.7				14.4			t ^{1/}
	Alternative 5B	40.4				17.4			t ^{1/}
	Proposed – Comparison portion for Alternative 5C	32.9				16.0			
	Alternative 5C	26.0				12.7			t ^{1/}
	Proposed – Comparison portion for Alternative 5D	19.2				10.3			
	Alternative 5D	17.0				5.6			t ^{1/}
	Proposed – Comparison portion for Alternative 5E	5.8				1.7			
	Alternative 5E	5.3				0.9			
6	Proposed – Total Length	0.5				0.5			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} "t" indicates only a trace amount (<0.1 mile) crossed

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-3. Miles of Habitat Crossed for Federal ESA Wildlife Species with Available Quantitative Data cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Miles of Habitat Crossed					
			Black-Footed Ferret	Canada Lynx	Columbia Spotted Frog	Greater Sage-Grouse	Grizzly Bear	Preble's Meadow Jumping
7	Proposed – Total Length	118.2				44.3		
	Proposed – Comparison portion for Alternatives 7A,B	35.1				11.8		
	Alternative 7A	37.7				17.2		t ^{1/}
	Alternative 7B	46.2				22.7		
	Proposed – Comparison portion for Alternative 7C	20.1				7.6		
	Alternative 7C	20.3				6.0		
	Proposed – Comparison portion for Alternative 7D	6.2				3.1		
	Alternative 7D	6.8				2.6		
	Proposed – Comparison portion for Alternative 7E	3.8				3.2		
	Alternative 7E	4.5				3.9		
	Proposed – Comparison portion for Alternative 7F	10.5				7.5		
	Alternative 7F	10.8				8.4		
	Proposed – Comparison portion for Alternative 7G	3.3				2.5		
	Alternative 7G	3.4				0.4		
	Proposed – Comparison portion for Alternative 7K	118.2				44.3		
Alternative 7K	148.1				80.4			
8	Proposed – Total Length	131.5			t ^{1/}	74.8		
	Proposed – Comparison portion for Alternative 8A	51.9				31.4		
	Alternative 8A	53.6				25.6		
	Proposed – Comparison portion for Alternative 8B	45.3			t ^{1/}	22.2		
	Alternative 8B	45.8			0.2	16.9		t ^{1/}
	Proposed – Comparison portion for Alternative 8C	6.5				3.6		
	Alternative 8C	6.4				3.2		
	Proposed – Comparison portion for Alternative 8D	6.9				2.7		
	Alternative 8D	8.1				2.3		
	Proposed – Comparison portion for Alternative 8E	7.0				2.8		
	Alternative 8E	18.3			t ^{1/}	9.6		
9	Proposed – Total Length	162.2			0.6	103.4		0.4
	Proposed – Comparison portion for Alternative 9A	7.8				3.7		
	Alternative 9A	7.7				5.1		
	Proposed – Comparison portion for Alternative 9B	49.1			t ^{1/}	39.0		
	Alternative 9B	52.3				22.6		
	Proposed – Comparison portion for Alternative 9C	14.4				13.4		
	Alternative 9C	14.4				8.80		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			0.6	29.7		
	Alternative 9D	60.1			0.1	29.6		
	Alternative 9F	63.3			0.4	30.1		
	Alternative 9G	57.8			0.2	29.6		
	Alternative 9H	61.0			0.5	30.1		
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			0.6	33.1		
Alternative 9E (revised)	70.6			0.2	50.4			
10	Proposed – Total Length	34.4				5.9		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} "t" indicates only a trace amount (<0.1 mile) crossed

Table D.11-4. Miles of Habitat Crossed for BLM and Forest Service Sensitive Species with Available Quantitative Data

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Miles of Habitat Crossed											
			Bald Eagle		Black-Tailed Prairie Dog		Burrowing Owl	Columbian Sharp-Tailed Grouse	Mountain Plover	Northern Goshawk	Northern Leopard Frog	Pygmy Rabbit	White-Tailed Prairie Dog	Wyoming Pocket Gopher
			Within a 1-mile Nest Buffer	Within a 1-mile Winter Roost Buffer	Colony	Complex ^{1/}				within a 1-mile Nest Buffer				
1W	1W(a) Proposed – Total Length	73.8	2.0	6.6	2.6	12.3	50.8		47.0	2.0	1.4		54.6	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	2.0	6.6	1.7	10.7	14.4		11.6		0.4		8.7	
	Alternative 1W(a)-B	20.9		2.0	1.6	20.5	17.6		12.7		0.2		8.7	
	1W(c) Proposed – Total Length	73.6	1.9	6.8	3.0	9.9	51.3		45.5	2.0	1.8		55.3	
2	Proposed – Total Length	91.9					62.4		56.0		1.1	58.5	69.1	29.2
	Proposed – Comparison portion for Alternative 2A	16.8					8.6		8.8		0.6	8.6	9.8	0.5
	Alternative 2A	16.0	1.9				10.1		12.2		0.6	8.2	10.7	1.3
	Proposed – Comparison portion for Alternative 2B	12.5					5.3		6.4		0.5	5.3	6.2	0.5
	Alternative 2B	12.2	2.0				6.2		9.8		0.7	5.6	6.4	1.6
3	Segment 3 Proposed – Total Length	45.9					28.9		38.5		0.3	24.3	29.8	41.8
	Segment 3A Proposed – Total Length	5.1					3.1		4.0		0.3	3.1	3.2	0.6
4 ^{3/}	Proposed – Total Length	197.6	4.2				99.2	57.8	69.6	3.6	7.8	105.2	112.9	8.7
	Proposed – Comparison portion for Alternatives 4B-4F	85.2					48.7	6.5	36.4		3.3	63.4	70.5	
	Alternative 4B	100.2					69.2	8.2	39.4		2.1	70.4	81.9	
	Alternative 4C	101.6					75.0	8.2	39.4		1.5	73.3	87.0	
	Alternative 4D	100.8					66.2	8.2	39.4		2.1	67.2	81.5	
	Alternative 4E	102.2					72.0	8.2	39.4		1.5	70.0	86.6	
	Alternative 4F	87.5					52.3	6.5	36.4		2.8	66.1	69.8	
5	Proposed – Total Length	55.7	1.6	t ^{2/}			21.7	51.4			0.5	17.7		
	Proposed – Comparison portion for Alternatives 5A,B	22.3					8.4	21.9			t ^{2/}	6.1		
	Alternative 5A	29.7					14.0	29.7			0.1	7.9		
	Alternative 5B	40.4					22.8	39.5			0.1	11.7		
	Proposed – Comparison portion for Alternative 5C	32.9					10.9	32.4			0.1	8.4		
	Alternative 5C	26.0					14.8	25.8			0.2	10.6		
	Proposed – Comparison portion for Alternative 5D	19.2	1.6	t ^{2/}			6.0	17.2			0.4	5.7		
	Alternative 5D	17.0	1.7	t ^{2/}			8.3	15.5			0.4	5.9		
	Proposed – Comparison portion for Alternative 5E	5.8	1.6	t ^{2/}			2.9	3.9			0.3	1.7		
Alternative 5E	5.3		t ^{2/}			0.9	1.7			0.2	0.9			
6	Proposed – Total Length	0.5					0.4	0.2			t ^{2/}	0.4		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

^{1/} The number of "colony" miles crossed represents colonies that are not part of complexes; the sum of the two numbers, "colonies" and "complexes," adds up to total miles of prairie dog habitat crossed.

^{2/} "t" indicates only a trace amount (<0.1 mile) crossed

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-4. Miles of Habitat Crossed for BLM and Forest Service Sensitive Species with Available Quantitative Data cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Miles of Habitat Crossed											
			Bald Eagle		Black-Tailed Prairie Dog		Burrowing Owl	Columbian Sharp-Tailed Grouse	Mountain Plover	Northern Goshawk	Northern Leopard Frog	Pygmy Rabbit	White-Tailed Prairie Dog	Wyoming Pocket Gopher
			Within a 1-mile Nest Buffer	Within a 1-mile Winter Roost Buffer	Colony	Complex ^{1/}				within a 1-mile Nest Buffer				
7	Proposed – Total Length	118.2					66.2	76.8			0.3	41.4		
	Proposed – Comparison portion for Alternatives 7A,B	35.1				15.9	35.0			0.1	9.3			
	Alternative 7A	37.7				18.8	37.0			0.6	12.9			
	Alternative 7B	46.2				26.0	46.0			t ^{2/}	13.8			
	Proposed – Comparison portion for Alternative 7C	20.1				15.0	15.9			t ^{2/}	9.8			
	Alternative 7C	20.3				17.5	19.1				14.1			
	Proposed – Comparison portion for Alternative 7D	6.2				4.4	1.1			0.1	3.9			
	Alternative 7D	6.8				4.9	2.1			0.1	4.6			
	Proposed – Comparison portion for Alternative 7E	3.8				1.7					1.7			
	Alternative 7E	4.5				1.0					1.0			
	Proposed – Comparison portion for Alternative 7F	10.5				5.0					3.5			
	Alternative 7F	10.8				3.8					2.5			
	Proposed – Comparison portion for Alternative 7G	3.3				1.8	2.8				1.8			
	Alternative 7G	3.4				2.2	2.6				2.1			
Proposed – Comparison portion for Alternative 7K	118.2					66.2	76.8			0.3	41.4			
Alternative 7K	148.1					75.8	95.1		2.3	0.6	67.5			
8	Proposed – Total Length	131.5					111.1				0.8	109.2		
	Proposed – Comparison portion for Alternative 8A	51.9				37.0				0.2	36.3			
	Alternative 8A	53.6		t ^{2/}		36.2				0.6	32.3			
	Proposed – Comparison portion for Alternative 8B	45.3				41.4				0.2	40.5			
	Alternative 8B	45.8				28.8				0.4	27.6			
	Proposed – Comparison portion for Alternative 8C	6.5				6.4				t ^{2/}	6.4			
	Alternative 8C	6.4				6.2					6.2			
	Proposed – Comparison portion for Alternative 8D	6.9				6.9					6.9			
	Alternative 8D	8.1				6.6					6.6			
	Proposed – Comparison portion for Alternative 8E	7.0				5.3				0.2	5.3			
Alternative 8E	18.3		t ^{2/}		16.6				t ^{2/}	16.6				
9	Proposed – Total Length	162.2					131.6	1.8			0.7	111.1		
	Proposed – Comparison portion for Alternative 9A	7.8				7.6				0.1	7.6			
	Alternative 9A	7.7				7.0				t ^{2/}	7.0			
	Proposed – Comparison portion for Alternative 9B	49.1				46.3				0.1	45.8			
	Alternative 9B	52.3				40.6				0.1	39.2			
	Proposed – Comparison portion for Alternative 9C	14.4				13.0				t ^{2/}	12.5			
	Alternative 9C	14.4				13.4				t ^{2/}	13.2			
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2				40.3				0.6	23.2			
	Alternative 9D	60.1		t ^{2/}		52.6				0.3	51.7			
	Alternative 9F	63.3		t ^{2/}		50.7				0.6	47.1			
	Alternative 9G	57.8		t ^{2/}		51.6				0.5	50.2			
	Alternative 9H	61.0		t ^{2/}		49.8				0.7	45.6			
	Proposed – Comparison portion for Alternative 9E (revised)	61.4				43.2				0.6	26.1			
Alternative 9E (revised)	70.6				58.4				0.2	49.5				
10	Proposed – Total Length	34.4		t ^{2/}			17.0				0.5	17.0		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} The number of "colony" miles crossed represents colonies that are not part of complexes; the sum of the two numbers, "colonies" and "complexes," adds up to total miles of prairie dog habitat crossed.

^{2/} "t" indicates only a trace amount (<0.1 mile) crossed

Table D.11-5. Acres of Construction Impacts to Federal ESA Wildlife Species with Available Quantitative Data

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Construction Impacts						
			Black-Footed Ferret	Canada Lynx	Columbia Spotted Frog	Greater Sage-Grouse	Grizzly Bear	Preble's Meadow Jumping Mouse	Yellow-Billed Cuckoo
1W	1W(a) Proposed – Total Length	73.8	21			515		67	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5				63		10	
	Alternative 1W(a)-B	20.9				129		7	
	1W(c) Proposed – Total Length	73.6	57			575		93	
2	Proposed – Total Length	91.9	22			1,643	6	85	
	Proposed – Comparison portion for Alternative 2A	16.8				261		20	
	Alternative 2A	16.0				289		32	
	Proposed – Comparison portion for Alternative 2B	12.5				191		19	
	Alternative 2B	12.2				164		41	
3	Segment 3 Proposed – Total Length	45.9				669	525		
	Segment 3A Proposed – Total Length	5.1				36	60		
4 ^{2/}	Proposed – Total Length	197.6			54	2,935	2,594		
	Proposed – Comparison portion for Alternatives 4B-4F	85.2			53	1,424	1,443		
	Alternative 4B	100.2			34	1,762	386		
	Alternative 4C	101.6			30	1,687	571		
	Alternative 4D	100.8			34	1,762	388		
	Alternative 4E	102.2			30	1,670	573		
	Alternative 4F	87.5		139	35	1,394	1,494		
5	Proposed – Total Length	55.7				549			
	Proposed – Comparison portion for Alternatives 5A,B	22.3				206			
	Alternative 5A	29.7				318			<1
	Alternative 5B	40.4				346			<1
	Proposed – Comparison portion for Alternative 5C	32.9				335			
	Alternative 5C	26.0				270			1
	Proposed – Comparison portion for Alternative 5D	19.2				217			
	Alternative 5D	17.0				114			2
	Proposed – Comparison portion for Alternative 5E	5.8				58			
Alternative 5E	5.3				43				
6	Proposed – Total Length	0.5				42			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-5. Acres of Construction Impacts to Federal ESA Wildlife Species with Available Quantitative Data cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Construction Impacts						
			Black-Footed Ferret	Canada Lynx	Columbia Spotted Frog	Greater Sage-Grouse	Grizzly Bear	Preble's Meadow Jumping Mouse	Yellow-Billed Cuckoo
7	Proposed – Total Length	118.2				766			<1
	Proposed – Comparison portion for Alternatives 7A,B	35.1				223			t ^{1/}
	Alternative 7A	37.7				333			<1
	Alternative 7B	46.2				417			
	Proposed – Comparison portion for Alternative 7C	20.1				124			
	Alternative 7C	20.3				93			
	Proposed – Comparison portion for Alternative 7D	6.2				51			<1
	Alternative 7D	6.8				49			<1
	Proposed – Comparison portion for Alternative 7E	3.8				50			
	Alternative 7E	4.5				62			
	Proposed – Comparison portion for Alternative 7F	10.5				123			
	Alternative 7F	10.8				151			
	Proposed – Comparison portion for Alternative 7G	3.3				36			
	Alternative 7G	3.4				18			
	Proposed – Comparison portion for Alternative 7K	118.2				764			
Alternative 7K	148.1				1,844			<1	
8	Proposed – Total Length	131.5			<1	1,397			<1
	Proposed – Comparison portion for Alternative 8A	51.9				562			t ^{1/}
	Alternative 8A	53.6				475			t ^{1/}
	Proposed – Comparison portion for Alternative 8B	45.3			<1	443			<1
	Alternative 8B	45.8			7	350			<1
	Proposed – Comparison portion for Alternative 8C	6.5				75			t ^{1/}
	Alternative 8C	6.4				67			
	Proposed – Comparison portion for Alternative 8D	6.9				55			
	Alternative 8D	8.1				52			
	Proposed – Comparison portion for Alternative 8E	7.0				43			
Alternative 8E	18.3			<1	201				
9	Proposed – Total Length	162.2			7	1,925			t ^{1/}
	Proposed – Comparison portion for Alternative 9A	7.8				78			<1
	Alternative 9A	7.7				103			
	Proposed – Comparison portion for Alternative 9B	49.1			t ^{1/}	727			
	Alternative 9B	52.3				425			
	Proposed – Comparison portion for Alternative 9C	14.4				257			
	Alternative 9C	14.4				165			
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			6	550			
	Alternative 9D	60.1			<1	522			
	Alternative 9F	63.3			5	531			
	Alternative 9G	57.8			1	523			t ^{1/}
	Alternative 9H	61.0			6	525			t ^{1/}
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			6	623			
Alternative 9E (revised)	70.6			3	933				
10	Proposed – Total Length	34.4				128			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly.

Blank cells indicate zero acres or null value.

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact.

Table D.11-6. Acres of Construction Impacts to BLM and Forest Service Sensitive Species with Available Quantitative Data

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Habitat Impacted by Construction											
			Bald Eagle		Black-Tailed Prairie Dog		Burrowing Owl	Columbian Sharp-Tailed Grouse	Mountain Plover	Northern Goshawk	Northern Leopard Frog	Pygmy Rabbit	White-Tailed Prairie Dog	Wyoming Pocket Gopher
			Within a 1-mile Nest Buffer	Within a 1-mile Winter Roost Buffer	Colony	Complex ^{1/}				Within a 1-mile Nest Buffer				
1W	1W(a) Proposed – Total Length	73.8	12	59	23	122	514		494	17	8		534	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	12	59	17	99	125		101		2		74	
	Alternative 1W(a)-B	20.9		29	22	269	236		176		<1		132	
	1W(c) Proposed – Total Length	73.6	20	76	34	159	703		700	29	12		724	
2	Proposed – Total Length	91.9	1				1,351		1,254		12	1,219	1,457	521
	Proposed – Comparison portion for Alternative 2A	16.8	1				202		194		6	202	228	9
	Alternative 2A	16.0	43				239		273		14	210	252	23
	Proposed – Comparison portion for Alternative 2B	12.5	1				147		154		6	147	171	9
3	Alternative 2B	12.2	42				131		166		20	125	135	26
	Segment 3 Proposed – Total Length	45.9					525		719		4	468	550	683
4 ^{3/}	Segment 3A Proposed – Total Length	5.1					34		43		2	34	35	6
	Proposed – Total Length	197.6	77				2,079	1,123	1,421	120	131	2,263	2,210	160
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	<1				949	114	701		77	1,312	1,417	
	Alternative 4B	100.2					1,451	176	812		54	1,520	1,683	
	Alternative 4C	101.6					1,525	162	812		50	1,534	1,753	
	Alternative 4D	100.8					1,408	176	814		54	1,477	1,688	
	Alternative 4E	102.2					1,465	158	814		50	1,474	1,743	
5	Alternative 4F	87.5	<1				979	123	701		59	1,332	1,379	
	Proposed – Total Length	55.7	31				521	1,075			8	396		
	Proposed – Comparison portion for Alternatives 5A,B	22.3					194	455			<1	122		
	Alternative 5A	29.7					309	634			1	186		
	Alternative 5B	40.4					486	830			1	254		
	Proposed – Comparison portion for Alternative 5C	32.9					272	719			3	187		
	Alternative 5C	26.0					316	504			6	244		
	Proposed – Comparison portion for Alternative 5D	19.2	31				177	415			6	144		
6	Alternative 5D	17.0	25				211	367			4	128		
	Proposed – Comparison portion for Alternative 5E	5.8	31				92	112			3	67		
	Alternative 5E	5.3	2				61	84			2	51		
6	Proposed – Total Length	0.5					43	17			9	43		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The number of "colony" acres impacted represents colonies that are not part of complexes; the sum of the two numbers, "colonies" and "complexes," adds up to total acres of prairie dog habitat impacted.

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-6. Acres of Construction Impacts to BLM and Forest Service Sensitive Species with Available Quantitative Data cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Habitat Impacted by Construction											
			Bald Eagle		Black-Tailed Prairie Dog		Burrowing Owl	Columbian Sharp-Tailed Grouse	Mountain Plover	Northern Goshawk	Northern Leopard Frog	Pygmy Rabbit	White-Tailed Prairie Dog	Wyoming Pocket Gopher
			Within a 1-mile Nest Buffer	Within a 1-mile Winter Roost Buffer	Colony	Complex ^{1/}				Within a 1-mile Nest Buffer				
7	Proposed – Total Length	118.2					1,184	1,349			6	781		
	Proposed – Comparison portion for Alternatives 7A,B	35.1					285	639			1	196		
	Alternative 7A	37.7					386	756			9	268		
	Alternative 7B	46.2					537	909			1	296		
	Proposed – Comparison portion for Alternative 7C	20.1					276	285			<1	187		
	Alternative 7C	20.3					313	333				248		
	Proposed – Comparison portion for Alternative 7D	6.2					77	28			4	66		
	Alternative 7D	6.8					96	47			4	86		
	Proposed – Comparison portion for Alternative 7E	3.8					28					28		
	Alternative 7E	4.5					33					32		
	Proposed – Comparison portion for Alternative 7F	10.5					106				<1	81		
	Alternative 7F	10.8					105				<1	76		
	Proposed – Comparison portion for Alternative 7G	3.3					37	51			t ^{2/}	37		
	Alternative 7G	3.4					54	67			1	51		
Proposed – Comparison portion for Alternative 7K	118.2					1,183	1,348			6	780			
Alternative 7K	148.1					1,544	1,878		68	18	1,376			
8	Proposed – Total Length	131.5					2,113				11	2,078		
	Proposed – Comparison portion for Alternative 8A	51.9					684				4	674		
	Alternative 8A	53.6					694				2	595		
	Proposed – Comparison portion for Alternative 8B	45.3					798				1	776		
	Alternative 8B	45.8					593				10	567		
	Proposed – Comparison portion for Alternative 8C	6.5					159				<1	159		
	Alternative 8C	6.4					122				t ^{2/}	122		
	Proposed – Comparison portion for Alternative 8D	6.9					141				t ^{2/}	141		
	Alternative 8D	8.1					148				t ^{2/}	148		
	Proposed – Comparison portion for Alternative 8E	7.0					99					99		
Alternative 8E	18.3					311				<1	311			
9	Proposed – Total Length	162.2					2,593	34			8	2,225		
	Proposed – Comparison portion for Alternative 9A	7.8					128				1	128		
	Alternative 9A	7.7					137				1	137		
	Proposed – Comparison portion for Alternative 9B	49.1					937				<1	900		
	Alternative 9B	52.3					726				4	689		
	Proposed – Comparison portion for Alternative 9C	14.4					274				<1	236		
	Alternative 9C	14.4					221				t ^{2/}	202		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2					783				6	501		
	Alternative 9D	60.1					932				3	917		
	Alternative 9F	63.3					939				11	881		
	Alternative 9G	57.8					939				6	900		
	Alternative 9H	61.0					942				11	860		
	Proposed – Comparison portion for Alternative 9E (revised)	61.4					851				6	568		
Alternative 9E (revised)	70.6					1,111				3	961			
10	Proposed – Total Length	34.4					319				5	319		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The number of "colony" acres impacted represents colonies that are not part of complexes; the sum of the two numbers, "colonies" and "complexes," adds up to total acres of prairie dog habitat impacted.

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.11-7. Acres of Operations Impacts to Federal ESA Wildlife Species with Available Quantitative Data

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Operation Impacts						
			Black-Footed Ferret	Canada Lynx	Columbia Spotted Frog	Greater Sage-Grouse	Grizzly Bear	Preble's Meadow Jumping Mouse	Yellow-Billed Cuckoo
1W	1W(a) Proposed – Total Length	73.8	5			124		23	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5				11		5	
	Alternative 1W(a)-B	20.9				22		1	
	1W(c) Proposed – Total Length	73.6	5			84		15	
2	Proposed – Total Length	91.9	7			228	2	22	
	Proposed – Comparison portion for Alternative 2A	16.8				24		2	
	Alternative 2A	16.0				33		7	
	Proposed – Comparison portion for Alternative 2B	12.5				17		1	
	Alternative 2B	12.2				15		4	
3	Segment 3 Proposed – Total Length	45.9				124	106		
	Segment 3A Proposed – Total Length	5.1				8	12		
4 ^{2/}	Proposed – Total Length	197.6			4	420	356		
	Proposed – Comparison portion for Alternatives 4B-4F	85.2			4	179	181		
	Alternative 4B	100.2			2	232	50		
	Alternative 4C	101.6			2	224	66		
	Alternative 4D	100.8			2	234	51		
	Alternative 4E	102.2			2	222	67		
	Alternative 4F	87.5		77	2	176	190		
5	Proposed – Total Length	55.7				99			
	Proposed – Comparison portion for Alternatives 5A,B	22.3				26			
	Alternative 5A	29.7				38			<1
	Alternative 5B	40.4				44			<1
	Proposed – Comparison portion for Alternative 5C	32.9				41			
	Alternative 5C	26.0				29			1
	Proposed – Comparison portion for Alternative 5D	19.2				35			
	Alternative 5D	17.0				24			1
	Proposed – Comparison portion for Alternative 5E	5.8				17			
Alternative 5E	5.3				17				
6	Proposed – Total Length	0.5				39			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of occupancy

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-7. Acres of Operations Impacts to Federal ESA Wildlife Species with Available Quantitative Data cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Operation Impacts					
			Black-Footed Ferret	Canada Lynx	Columbia Spotted Frog	Greater Sage-Grouse	Grizzly Bear	Preble's Meadow Jumping Mouse
7	Proposed – Total Length	118.2				112		t ^{1/}
	Proposed – Comparison portion for Alternatives 7A,B	35.1				29		t ^{1/}
	Alternative 7A	37.7				43		<1
	Alternative 7B	46.2				50		
	Proposed – Comparison portion for Alternative 7C	20.1				14		
	Alternative 7C	20.3				8		
	Proposed – Comparison portion for Alternative 7D	6.2				5		t ^{1/}
	Alternative 7D	6.8				5		t ^{1/}
	Proposed – Comparison portion for Alternative 7E	3.8				4		
	Alternative 7E	4.5				7		
	Proposed – Comparison portion for Alternative 7F	10.5				13		
	Alternative 7F	10.8				15		
	Proposed – Comparison portion for Alternative 7G	3.3				3		
	Alternative 7G	3.4				<1		
Proposed – Comparison portion for Alternative 7K	118.2				112		t ^{1/}	
Alternative 7K	148.1				259		t ^{1/}	
8	Proposed – Total Length	131.5			t ^{1/}	150		t ^{1/}
	Proposed – Comparison portion for Alternative 8A	51.9				71		t ^{1/}
	Alternative 8A	53.6				60		t ^{1/}
	Proposed – Comparison portion for Alternative 8B	45.3			t ^{1/}	43		
	Alternative 8B	45.8			<1	34		<1
	Proposed – Comparison portion for Alternative 8C	6.5				9		
	Alternative 8C	6.4				8		
	Proposed – Comparison portion for Alternative 8D	6.9				5		
	Alternative 8D	8.1				4		
	Proposed – Comparison portion for Alternative 8E	7.0				4		
Alternative 8E	18.3				14			
9	Proposed – Total Length	162.2			t ^{1/}	210		t ^{1/}
	Proposed – Comparison portion for Alternative 9A	7.8				6		
	Alternative 9A	7.7				9		
	Proposed – Comparison portion for Alternative 9B	49.1				84		
	Alternative 9B	52.3				38		
	Proposed – Comparison portion for Alternative 9C	14.4				24		
	Alternative 9C	14.4				13		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			1	54		
	Alternative 9D	60.1				39		t ^{1/}
	Alternative 9F	63.3			1	43		t ^{1/}
	Alternative 9G	57.8			<1	41		t ^{1/}
Alternative 9H	61.0			1	45		t ^{1/}	
Proposed – Comparison portion for Alternative 9E (revised)	61.4			1	61			
Alternative 9E (revised)	70.6			<1	90			
10	Proposed – Total Length	34.4				23		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of occupancy

Table D.11-8. Acres of Operations Impacts to BLM and Forest Service Sensitive Species with Available Quantitative Data

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Habitat Impacted by Operation											
			Bald Eagle		Black-Tailed Prairie Dog		Burrowing Owl	Columbian Sharp-Tailed Grouse	Mountain Plover	Northern Goshawk	Northern Leopard Frog	Pygmy Rabbit	White-Tailed Prairie Dog	Wyoming Pocket Gopher
			Within a 1-mile Nest Buffer	Within a 1-mile Winter Roost Buffer	Colony	Complex ^{1/}				Within a 1-mile Nest Buffer				
1W	1W(a) Proposed – Total Length	73.8	2	11	4	23	107		112	7	2		108	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	2	11	3	18	23		18		<1		13	
	Alternative 1W(a)-B	20.9		7	4	43	37		28		t ^{2/}		22	
	1W(c) Proposed – Total Length	73.6	2	9	4	15	84		82	23	1		86	
2	Proposed – Total Length	91.9	<1				164		165		2	127	174	57
	Proposed – Comparison portion for Alternative 2A	16.8	<1				16		17		<1	16	18	1
	Alternative 2A	16.0	5				24		29		1	21	25	5
	Proposed – Comparison portion for Alternative 2B	12.5	<1				12		14		<1	12	13	1
	Alternative 2B	12.2	4				11		15		<1	10	11	4
3	Segment 3 Proposed – Total Length	45.9					99		119		<1	87	100	71
	Segment 3A Proposed – Total Length	5.1					6		7		<1	6	6	1
4 ^{3/}	Proposed – Total Length	197.6	8				278	149	208	106	10	317	291	18
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	t ^{2/}				114	12	82		5	166	178	
	Alternative 4B	100.2					195	20	109		3	211	227	
	Alternative 4C	101.6					197	19	109		2	206	226	
	Alternative 4D	100.8					191	20	110		3	207	231	
	Alternative 4E	102.2					190	18	110		3	199	227	
5	Alternative 4F	87.5	t ^{2/}				118	13	82		3	172	177	
	Proposed – Total Length	55.7	1				82	156			2	76		
	Proposed – Comparison portion for Alternatives 5A,B	22.3					21	57			t ^{2/}	15		
	Alternative 5A	29.7					30	77			<1	20		
	Alternative 5B	40.4					44	89			<1	26		
	Proposed – Comparison portion for Alternative 5C	32.9					27	91			1	22		
	Alternative 5C	26.0					32	54			<1	26		
	Proposed – Comparison portion for Alternative 5D	19.2	1				26	56			2	25		
	Alternative 5D	17.0	3				34	46			2	26		
Proposed – Comparison portion for Alternative 5E	5.8	1				18	18			1	16			
Alternative 5E	5.3	<1				16	17			1	16			
6	Proposed – Total Length	0.5					41	15			9	41		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

^{1/} The number of "colony" acres impacted represents colonies that are not part of complexes; the sum of the two numbers, "colonies" and "complexes," adds up to total acres of prairie dog habitat impacted

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-8. Acres of Operations Impacts to BLM and Forest Service Sensitive Species with Available Quantitative Data cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Acres of Habitat Impacted by Operation											
			Bald Eagle		Black-Tailed Prairie Dog		Burrowing Owl	Columbian Sharp-Tailed Grouse	Mountain Plover	Northern Goshawk	Northern Leopard Frog	Pygmy Rabbit	White-Tailed Prairie Dog	Wyoming Pocket Gopher
			Within a 1-mile Nest Buffer	Within a 1-mile Winter Roost Buffer	Colony	Complex ^{1/}				Within a 1-mile Nest Buffer				
7	Proposed – Total Length	118.2					139	168			<1	100		
	Proposed – Comparison portion for Alternatives 7A,B	35.1					25	68			<1	17		
	Alternative 7A	37.7					37	89			1	26		
	Alternative 7B	46.2					46	94			<1	27		
	Proposed – Comparison portion for Alternative 7C	20.1					29	30			t ^{2/}	22		
	Alternative 7C	20.3					24	26				19		
	Proposed – Comparison portion for Alternative 7D	6.2					8	1			t ^{2/}	7		
	Alternative 7D	6.8					10	3			t ^{2/}	9		
	Proposed – Comparison portion for Alternative 7E	3.8					2					2		
	Alternative 7E	4.5					3					3		
	Proposed – Comparison portion for Alternative 7F	10.5					11				t ^{2/}	7		
	Alternative 7F	10.8					11				t ^{2/}	8		
	Proposed – Comparison portion for Alternative 7G	3.3					3	4			t ^{2/}	3		
	Alternative 7G	3.4					3	3			t ^{2/}	3		
Proposed – Comparison portion for Alternative 7K	118.2					139	167			<1	100			
Alternative 7K	148.1					188	244		61	3	179			
8	Proposed – Total Length	131.5					215				1	212		
	Proposed – Comparison portion for Alternative 8A	51.9					80				<1	79		
	Alternative 8A	53.6					80				<1	71		
	Proposed – Comparison portion for Alternative 8B	45.3					77				<1	75		
	Alternative 8B	45.8					54				<1	53		
	Proposed – Comparison portion for Alternative 8C	6.5					15				t ^{2/}	15		
	Alternative 8C	6.4					15				t ^{2/}	15		
	Proposed – Comparison portion for Alternative 8D	6.9					13				t ^{2/}	13		
	Alternative 8D	8.1					12				t ^{2/}	12		
	Proposed – Comparison portion for Alternative 8E	7.0					8					8		
Alternative 8E	18.3					24					24			
9	Proposed – Total Length	162.2					291	3			1	252		
	Proposed – Comparison portion for Alternative 9A	7.8					13				t ^{2/}	13		
	Alternative 9A	7.7					13				<1	13		
	Proposed – Comparison portion for Alternative 9B	49.1					115				t ^{2/}	111		
	Alternative 9B	52.3					68				<1	66		
	Proposed – Comparison portion for Alternative 9C	14.4					23				t ^{2/}	19		
	Alternative 9C	14.4					20				t ^{2/}	19		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2					76				1	46		
	Alternative 9D	60.1					73				t ^{2/}	72		
	Alternative 9F	63.3					75				1	70		
	Alternative 9G	57.8					77				<1	74		
	Alternative 9H	61.0					79				1	71		
Proposed – Comparison portion for Alternative 9E (revised)	61.4					83				1	53			
Alternative 9E (revised)	70.6					114				<1	95			
10	Proposed – Total Length	34.4					30				<1	30		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The number of "colony" acres impacted represents colonies that are not part of complexes; the sum of the two numbers, "colonies" and "complexes," adds up to total acres of prairie dog habitat impacted

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.11-9. Number of Greater Sage-Grouse Leks within Specified Distances from Route Centerlines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffer Distance and Active Status														
			0.25-mile Buffer		0.6-mile Buffer		1-mile Buffer		2-mile Buffer		3-mile Buffer		4-mile Buffer		11-mile Buffer		
			Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	
1W	1W(a) Proposed – Total Length	73.8							9(2)		12(2)		16(5)		46(16)	4(2)	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5							3		4		4		15	1	
	Alternative 1W(a)-B	20.9						1		2		2		3		16	2
	1W(c) Proposed – Total Length	73.6						1		6(1)		13(3)		17(5)	1	49(18)	6(4)
2	Proposed – Total Length	91.9			2(1)		5(3)	2(2)	15(7)	2(2)	32(16)	2(2)	41(21)	2(2)	130(59)	8(6)	
	Proposed – Comparison portion for Alternative 2A	16.8							1(1)	1(1)	7(4)	1(1)	9(4)	1(1)	46(17)	4(3)	
	Alternative 2A	16.0							1(1)	1(1)	7(4)	1(1)	10(4)	1(1)	46(17)	4(3)	
	Proposed – Comparison portion for Alternative 2B	12.5							1(1)		1(1)		1(1)		38(14)	2(1)	
	Alternative 2B	12.2							1(1)		1(1)		2(1)		38(14)	2(1)	
3	Segment 3 Proposed – Total Length	45.9							1(1)		3(3)		4(3)		35(17)	1	
	Segment 3A Proposed – Total Length	5.1													12(4)	1	
4 ^{2/}	Proposed – Total Length	197.6			2(2)	1(1)	6(4)	2(1)	14(8)	8(3)	24(13)	8(3)	29(14)	10(5)	106(62)	23(10)	
	Proposed – Comparison portion for Alternatives 4B-4F	85.2			2(2)	1(1)	5(3)	1(1)	12(7)	5(3)	19(11)	5(3)	22(11)	8(5)	75(47)	18(9)	
	Alternative 4B	100.2			1		3(2)		13(7)		30(19)	1(1)	40(26)	5(3)	95(58)	17(7)	
	Alternative 4C	101.6					3(2)		17(9)		31(20)	2(1)	40(27)	5(3)	95(58)	17(7)	
	Alternative 4D	100.8			1		2(1)		15(9)		27(17)	1(1)	35(22)	5(3)	95(58)	17(7)	
	Alternative 4E	102.2					2(1)		19(11)		28(18)	2(1)	35(23)	5(3)	95(58)	17(7)	
	Alternative 4F	87.5			2(2)	1(1)	7(5)	1(1)	12(8)	4(3)	23(12)	4(3)	25(12)	7(5)	73(46)	18(9)	
5	Proposed – Total Length	55.7	1		1		1		1		1		1		2	3	
	Proposed – Comparison portion for Alternatives 5A,B	22.3	1		1		1		1		1		1		2	2	
	Alternative 5A	29.7									1		1	1	5(1)	5(1)	
	Alternative 5B	40.4								1		3	2	4	14(8)	10(3)	
	Proposed – Comparison portion for Alternative 5C	32.9	1		1		1		1		1		1		2	2	
	Alternative 5C	26.0											1		1	1	
	Proposed – Comparison portion for Alternative 5D	19.2													1		
	Alternative 5D	17.0													1		
Proposed – Comparison portion for Alternative 5E	5.8																
Alternative 5E	5.3																
6	Proposed – Total Length	0.5														6(5)	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

The numbers in parentheses indicate the number of leks located on federally managed lands (e.g., a "4(2)" value indicates there are 4 leks within the buffer distance, 2 of which are located on federally managed lands)

^{1/} Refers to leks that have been defined as occupied in Wyoming and Idaho, and all leks in Nevada and Utah

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-9. Number of Greater Sage-Grouse Leks within Specified Distances from Route Centerlines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffer Distance and Active Status													
			0.25-mile Buffer		0.6-mile Buffer		1-mile Buffer		2-mile Buffer		3-mile Buffer		4-mile Buffer		11-mile Buffer	
			Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined
7	Proposed – Total Length	118.2			1	1	1	3(2)	2(1)	3(2)	3(2)	7(5)	7(6)	10(7)	43(37)	28(22)
	Proposed – Comparison portion for Alternatives 7A,B	35.1			1		1		1		1		1	1(1)	2	4(1)
	Alternative 7A	37.7							1		1		1	2(1)	5(1)	8(2)
	Alternative 7B	46.2							1	2	2	4	2	6(2)	16(10)	12(4)
	Proposed – Comparison portion for Alternative 7C	20.1								1(1)		1(1)	1(1)	2(1)	4(3)	6(4)
	Alternative 7C	20.3								2(1)		2(1)	1(1)	2(1)	4(3)	6(4)
	Proposed – Comparison portion for Alternative 7D	6.2									1(1)	4(3)	3(3)	4(3)	5(3)	5(4)
	Alternative 7D	6.8									1(1)	4(3)	3(3)	4(3)	5(3)	5(4)
	Proposed – Comparison portion for Alternative 7E	3.8						1(1)		1(1)		2(1)		2(1)	7(5)	6(5)
	Alternative 7E	4.5						1(1)		2(1)		2(1)		2(1)	8(6)	6(5)
	Proposed – Comparison portion for Alternative 7F	10.5						1(1)		1(1)		2(1)		2(1)	9(6)	6(5)
	Alternative 7F	10.8		1(1)		1(1)		1(1)		2(1)		2(1)		2(1)	10(7)	6(5)
	Proposed – Comparison portion for Alternative 7G	3.3							1(1)		1(1)	1(1)	3(3)	2(2)	31(30)	16(15)
	Alternative 7G	3.4							1(1)		1(1)	1(1)	2(2)	2(2)	31(30)	16(15)
Proposed – Comparison portion for Alternative 7K	118.2			1	1	1	3(2)	2(1)	3(2)	3(2)	7(5)	7(6)	10(7)	43(37)	28(22)	
Alternative 7K	148.1			4(4)	1(1)	7(7)	2(1)	17(13)	17(11)	20(15)	27(17)	34(25)	30(19)	100(66)	67(42)	
8	Proposed – Total Length	131.5								2(2)	3(1)	2(2)	5(3)	22(18)	31(25)	
	Proposed – Comparison portion for Alternative 8A	51.9								1(1)	1(1)	1(1)	4(3)	14(13)	25(22)	
	Alternative 8A	53.6										1(1)	2(1)	1(1)	15(12)	
	Proposed – Comparison portion for Alternative 8B	45.3												5(5)	3(3)	
	Alternative 8B	45.8												4(4)	3(3)	
	Proposed – Comparison portion for Alternative 8C	6.5												1(1)		
	Alternative 8C	6.4												1(1)		
	Proposed – Comparison portion for Alternative 8D	6.9														
	Alternative 8D	8.1														
	Proposed – Comparison portion for Alternative 8E	7.0													1(1)	1(1)
Alternative 8E	18.3													1(1)	2(2)	
9	Proposed – Total Length	162.2				1(1)		1(1)	1(1)	2(2)	1(1)	6(5)	9(9)	10(9)	59(55)	58(54)
	Proposed – Comparison portion for Alternative 9A	7.8											1(1)		25(23)	6(5)
	Alternative 9A	7.7											1(1)		25(23)	6(5)
	Proposed – Comparison portion for Alternative 9B	49.1							1(1)		1(1)		3(3)	2(2)	11(11)	16(14)
	Alternative 9B	52.3											1(1)		7(7)	13(12)
	Proposed – Comparison portion for Alternative 9C	14.4							1(1)		1(1)		3(3)	2(2)	10(10)	16(14)
	Alternative 9C	14.4											1(1)		8(8)	16(14)
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2				1(1)		1(1)		1(1)		3(3)	1(1)	5(5)	13(11)	21(20)
	Alternative 9D	60.1											1(1)	1(1)	3(3)	6(6)
	Alternative 9F	63.3											1(1)	1(1)	3(3)	7(7)
	Alternative 9G	57.8											1(1)	1(1)	3(3)	8(8)
	Alternative 9H	61.0											1(1)	1(1)	3(3)	9(9)
Proposed – Comparison portion for Alternative 9E (revised)	61.4				1(1)		1(1)		1(1)		3(3)	1(1)	5(5)	15(13)	21(20)	
Alternative 9E (revised)	70.6								1(1)	3(1)	8(7)	5(4)	12(11)	16(13)	28(27)	
10	Proposed – Total Length	34.4		1(1)		2(1)		3(2)		5(4)		7(6)	1(1)	7(6)	27(26)	22(20)
Grand Total for the Proposed Routes			1	1(1)	4(3)	5(3)	10(6)	11(8)	22(13)	20(13)	43(25)	31(20)	64(38)	42(30)	280(171)	132(101)

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

The numbers in parentheses indicate the number of leks located on federally managed lands (e.g., a "4(2)" value indicates there are 4 leks within the buffer distance, 2 of which are located on federally managed lands)

^{1/} Refers to leks that have been defined as occupied in Wyoming and Idaho, and all leks in Nevada and Utah

Table D.11-10. Number of Columbian Sharp-Tailed Grouse Leks within Specified Distances from Route Centerlines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffer Distance and Active Status					
			0.25-mile Buffer		0.6-mile Buffer		2-mile Buffer	
			Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined
1W	1W(a) Proposed – Total Length	73.8						
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5						
	Alternative 1W(a)-B	20.9						
	1W(c) Proposed – Total Length	73.6						
2	Proposed – Total Length	91.9						
	Proposed – Comparison portion for Alternative 2A	16.8						
	Alternative 2A	16.0						
	Proposed – Comparison portion for Alternative 2B	12.5						
3	Alternative 2B	12.2						
	Segment 3 Proposed – Total Length	45.9						
4 ^{2/}	Segment 3A Proposed – Total Length	5.1						
	Proposed – Total Length	197.6	2		3		13	1
	Proposed – Comparison portion for Alternatives 4B-4F	85.2						
	Alternative 4B	100.2						
	Alternative 4C	101.6						
	Alternative 4D	100.8						
	Alternative 4E	102.2						
5	Alternative 4F	87.5						
	Proposed – Total Length	55.7	1		4		17	2
	Proposed – Comparison portion for Alternatives 5A,B	22.3	1		3		11	2
	Alternative 5A	29.7	2		5	1	12	2
	Alternative 5B	40.4	1		3	1	16	3
	Proposed – Comparison portion for Alternative 5C	32.9	1		4		16	2
	Alternative 5C	26.0			1		9	1
	Proposed – Comparison portion for Alternative 5D	19.2			1		6	1
	Alternative 5D	17.0	1		1		4	1
6	Proposed – Comparison portion for Alternative 5E	5.8					2	
	Alternative 5E	5.3					2	
6	Proposed – Total Length	0.5						

Note: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Refers to leks that have been defined as occupied in Wyoming and Idaho, and all leks in Nevada

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-10. Number of Columbian Sharp-Tailed Grouse Leks within Specified Distances from Route Centerlines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffer Distance and Active Status					
			0.25-mile Buffer		0.6-mile Buffer		2-mile Buffer	
			Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined	Occupied ^{1/}	Undetermined
7	Proposed – Total Length	118.2	1		4		25	4
	Proposed – Comparison portion for Alternatives 7A,B	35.1	1		3		22	2
	Alternative 7A	37.7	1		3		20	2
	Alternative 7B	46.2			1		21	5
	Proposed – Comparison portion for Alternative 7C	20.1			1		2	2
	Alternative 7C	20.3	1		1		7	1
	Proposed – Comparison portion for Alternative 7D	6.2						
	Alternative 7D	6.8						
	Proposed – Comparison portion for Alternative 7E	3.8						
	Alternative 7E	4.5						
	Proposed – Comparison portion for Alternative 7F	10.5						
	Alternative 7F	10.8						
	Proposed – Comparison portion for Alternative 7G	3.3						
	Alternative 7G	3.4						
	Proposed – Comparison portion for Alternative 7K	118.2	1		4		25	4
Alternative 7K	148.1		1	3	2	15(1)	13(3)	
8	Proposed – Total Length	131.5						
	Proposed – Comparison portion for Alternative 8A	51.9						
	Alternative 8A	53.6						
	Proposed – Comparison portion for Alternative 8B	45.3						
	Alternative 8B	45.8						
	Proposed – Comparison portion for Alternative 8C	6.5						
	Alternative 8C	6.4						
	Proposed – Comparison portion for Alternative 8D	6.9						
	Alternative 8D	8.1						
	Proposed – Comparison portion for Alternative 8E	7.0						
Alternative 8E	18.3							
9	Proposed – Total Length	162.2						
	Proposed – Comparison portion for Alternative 9A	7.8						
	Alternative 9A	7.7						
	Proposed – Comparison portion for Alternative 9B	49.1						
	Alternative 9B	52.3						
	Proposed – Comparison portion for Alternative 9C	14.4						
	Alternative 9C	14.4						
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2						
	Alternative 9D	60.1						
	Alternative 9F	63.3						
	Alternative 9G	57.8						
	Alternative 9H	61.0						
Proposed – Comparison portion for Alternative 9E (revised)	61.4							
Alternative 9E (revised)	70.6							
10	Proposed – Total Length	34.4						

Note: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Refers to leks that have been defined as occupied in Wyoming and Idaho, and all leks in Nevada

Table D.11-11. Miles of Agency Designated Greater Sage-Grouse Habitat Crossed by the Route Centerlines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Core Areas Crossed	Key Areas Crossed	R1 Habitats Crossed	R2 Habitats Crossed	R3 Habitats Crossed	Preliminary Priority Habitats	Preliminary General Habitats
1W	1W(a) Proposed – Total Length	73.8	25.8						
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	0.9						
	Alternative 1W(a)-B	20.9	9.1						
	1W(c) Proposed – Total Length	73.6	24.8						
2	Proposed – Total Length	91.9	40.9						
	Proposed – Comparison portion for Alternative 2A	16.8	4.0						
	Alternative 2A	16.0	4.5						
	Proposed – Comparison portion for Alternative 2B	12.5							
3	Alternative 2B	12.2							
	Segment 3 Proposed – Total Length	45.9							
4 ^{1/}	Segment 3A Proposed – Total Length	5.1							
	Proposed – Total Length	197.6	40.2	14.6				9.2	5.4
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	28.4	2.6				2.6	
	Alternative 4B	100.2	44.0	4.9	0.3			5.2	
	Alternative 4C	101.6	56.4	4.9	0.3			5.2	
	Alternative 4D	100.8	44.6	4.9	0.3			5.2	
	Alternative 4E	102.2	57.0	4.9	0.3			5.2	
	Alternative 4F	87.5	27.0	2.6				2.6	
5	Proposed – Total Length	55.7							
	Proposed – Comparison portion for Alternatives 5A,B	22.3							
	Alternative 5A	29.7		2.9					2.8
	Alternative 5B	40.4		9.1	0.8			1.5	10.9
	Proposed – Comparison portion for Alternative 5C	32.9							
	Alternative 5C	26.0							
	Proposed – Comparison portion for Alternative 5D	19.2							
	Alternative 5D	17.0							
6	Proposed – Comparison portion for Alternative 5E	5.8							
	Alternative 5E	5.3							
6	Proposed – Total Length	0.5			0.3				0.3

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-11. Miles of Agency Designated Greater Sage-Grouse Habitat Crossed by the Route Centerlines cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Core Areas Crossed	Key Areas Crossed	R1 Habitats Crossed	R2 Habitats Crossed	R3 Habitats Crossed	Preliminary Priority Habitats Crossed	Preliminary General Habitats Crossed
7	Proposed – Total Length	118.2		11.9	16.5		5.1	8.4	25.1
	Proposed – Comparison portion for Alternatives 7A,B	35.1							
	Alternative 7A	37.7		4.6				1.3	3.4
	Alternative 7B	46.2		7.9	1.1			2.3	9.6
	Proposed – Comparison portion for Alternative 7C	20.1		0.2	11.0				11.2
	Alternative 7C	20.3			11.0				11.0
	Proposed – Comparison portion for Alternative 7D	6.2		1.7	3.2		0.3	3.0	2.2
	Alternative 7D	6.8		2.5	1.7		0.3	1.4	3.1
	Proposed – Comparison portion for Alternative 7E	3.8		3.0			0.6	0.7	2.9
	Alternative 7E	4.5		3.2			1.3	3.5	1.0
	Proposed – Comparison portion for Alternative 7F	10.5		5.1			1.4	2.3	4.2
	Alternative 7F	10.8		3.3			2.0	4.9	0.4
	Proposed – Comparison portion for Alternative 7G	3.3		3.3				0.7	2.6
	Alternative 7G	3.4		3.4					3.4
Proposed – Comparison portion for Alternative 7K	118.2			11.9	16.5		5.1	8.4	25.1
Alternative 7K	148.1			49.1	39.4	1.8	18.9	72.6	42.8
8	Proposed – Total Length	131.5		15.1	20.0	11.4		6.6	21.1
	Proposed – Comparison portion for Alternative 8A	51.9		7.8	19.1	8.9		6.6	13.4
	Alternative 8A	53.6			15.6	5.7			15.6
	Proposed – Comparison portion for Alternative 8B	45.3							
	Alternative 8B	45.8							
	Proposed – Comparison portion for Alternative 8C	6.5							
	Alternative 8C	6.4							
	Proposed – Comparison portion for Alternative 8D	6.9							
	Alternative 8D	8.1							
	Proposed – Comparison portion for Alternative 8E	7.0							
Alternative 8E	18.3								
9	Proposed – Total Length	162.2		11.2	10.0			16.0	25.8
	Proposed – Comparison portion for Alternative 9A	7.8		0.2				0.2	2.5
	Alternative 9A	7.7		2.2				2.2	1.0
	Proposed – Comparison portion for Alternative 9B	49.1		6.3	8.7			11.7	12.5
	Alternative 9B	52.3							
	Proposed – Comparison portion for Alternative 9C	14.4		5.0	8.6			11.7	1.9
	Alternative 9C	14.4			0.9				0.7
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2							0.5
	Alternative 9D	60.1							0.2
	Alternative 9F	63.3							0.2
	Alternative 9G	57.8							0.3
	Alternative 9H	61.0							0.3
Proposed – Comparison portion for Alternative 9E (revised)	61.4							4.7	
Alternative 9E (revised)	70.6		18.2	5.4	15.2			12.8	
10	Proposed – Total Length	34.4		0.1	6.0	5.7			6.0

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

Table D.11-14. Acres of Construction Impacts to Agency Designated Greater Sage-Grouse Habitat

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Core Areas Crossed	Key Areas Crossed	R1 Habitats Crossed	R2 Habitats Crossed	R3 Habitats Crossed	Preliminary Priority Habitats Crossed	Preliminary General Habitats Crossed
1W	1W(a) Proposed – Total Length	73.8	289						
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	9						
	Alternative 1W(a)-B	20.9	137						
	1W(c) Proposed – Total Length	73.6	298						
2	Proposed – Total Length	91.9	717						
	Proposed – Comparison portion for Alternative 2A	16.8	69						
	Alternative 2A	16.0	91						
	Proposed – Comparison portion for Alternative 2B	12.5							
	Alternative 2B	12.2							
3	Segment 3 Proposed – Total Length	45.9							
	Segment 3A Proposed – Total Length	5.1							
4 ^{1/}	Proposed – Total Length	197.6	792	284				157	127
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	588	48				48	
	Alternative 4B	100.2	855	117	6			124	
	Alternative 4C	101.6	1,024	104	6			110	
	Alternative 4D	100.8	880	118	6			124	
	Alternative 4E	102.2	1,042	100	6			106	
	Alternative 4F	87.5	587	57				57	
5	Proposed – Total Length	55.7							
	Proposed – Comparison portion for Alternatives 5A,B	22.3							
	Alternative 5A	29.7		46	<1			2	42
	Alternative 5B	40.4		166	20			42	200
	Proposed – Comparison portion for Alternative 5C	32.9							
	Alternative 5C	26.0							
	Proposed – Comparison portion for Alternative 5D	19.2							
	Alternative 5D	17.0							
	Proposed – Comparison portion for Alternative 5E	5.8							
Alternative 5E	5.3								
6	Proposed – Total Length	0.5			15				15

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-14. Acres of Construction Impacts to Agency Designated Greater Sage-Grouse Habitat cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Core Areas Crossed	Key Areas Crossed	R1 Habitats Crossed	R2 Habitats Crossed	R3 Habitats Crossed	Preliminary Priority Habitats Crossed	Preliminary General Habitats Crossed
7	Proposed – Total Length	118.2		219	315		75	145	463
	Proposed – Comparison portion for Alternatives 7A,B	35.1							
	Alternative 7A	37.7		70	<1			16	53
	Alternative 7B	46.2		127	25			38	174
	Proposed – Comparison portion for Alternative 7C	20.1		2	220				222
	Alternative 7C	20.3		t ^{2/}	211				211
	Proposed – Comparison portion for Alternative 7D	6.2		27	71		3	40	61
	Alternative 7D	6.8		34	63		3	19	80
	Proposed – Comparison portion for Alternative 7E	3.8		50			7	11	46
	Alternative 7E	4.5		70			14	68	16
	Proposed – Comparison portion for Alternative 7F	10.5		97			21	53	65
	Alternative 7F	10.8		63			51	105	9
	Proposed – Comparison portion for Alternative 7G	3.3		61				14	47
	Alternative 7G	3.4		82				1	82
	Proposed – Comparison portion for Alternative 7K	118.2		218	315		74	144	462
Alternative 7K	148.1		946	735	26	370	1386	826	
8	Proposed – Total Length	131.5		251	379	200		127	408
	Proposed – Comparison portion for Alternative 8A	51.9		114	350	147		127	246
	Alternative 8A	53.6			242	70			238
	Proposed – Comparison portion for Alternative 8B	45.3							
	Alternative 8B	45.8							
	Proposed – Comparison portion for Alternative 8C	6.5							
	Alternative 8C	6.4							
	Proposed – Comparison portion for Alternative 8D	6.9							
	Alternative 8D	8.1							
	Proposed – Comparison portion for Alternative 8E	7.0							
Alternative 8E	18.3								
9	Proposed – Total Length	162.2		226	180	1		292	507
	Proposed – Comparison portion for Alternative 9A	7.8		10				10	48
	Alternative 9A	7.7		40				40	26
	Proposed – Comparison portion for Alternative 9B	49.1		122	170	1		222	246
	Alternative 9B	52.3			20				5
	Proposed – Comparison portion for Alternative 9C	14.4		103	162			222	29
	Alternative 9C	14.4			31				19
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2							16
	Alternative 9D	60.1							9
	Alternative 9F	63.3							9
	Alternative 9G	57.8							10
	Alternative 9H	61.0							10
	Proposed – Comparison portion for Alternative 9E (revised)	61.4							97
Alternative 9E (revised)	70.6		7	85	227		7	240	
10	Proposed – Total Length	34.4		14	93	137			107

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.11-15. Acres of Operations Impacts to Agency Designated Greater Sage-Grouse Habitat

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Core Areas Crossed	Key Areas Crossed	R1 Habitats Crossed	R2 Habitats Crossed	R3 Habitats Crossed	Preliminary Priority Habitats Crossed	Preliminary General Habitats Crossed
1W	1W(a) Proposed – Total Length	73.8	62						
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	1						
	Alternative 1W(a)-B	20.9	23						
	1W(c) Proposed – Total Length	73.6	34						
2	Proposed – Total Length	91.9	90						
	Proposed – Comparison portion for Alternative 2A	16.8	7						
	Alternative 2A	16.0	12						
	Proposed – Comparison portion for Alternative 2B	12.5							
3	Alternative 2B	12.2							
	Segment 3 Proposed – Total Length	45.9							
4 ^{2/}	Segment 3A Proposed – Total Length	5.1							
	Proposed – Total Length	197.6	101	33				18	15
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	78	5				5	
	Alternative 4B	100.2	111	13	2			14	
	Alternative 4C	101.6	131	12	2			14	
	Alternative 4D	100.8	117	13	2			14	
	Alternative 4E	102.2	137	11	2			13	
	Alternative 4F	87.5	81	6				6	
5	Proposed – Total Length	55.7							
	Proposed – Comparison portion for Alternatives 5A,B	22.3							
	Alternative 5A	29.7		7	t ^{1/}			1	6
	Alternative 5B	40.4		23	2			4	29
	Proposed – Comparison portion for Alternative 5C	32.9							
	Alternative 5C	26.0							
	Proposed – Comparison portion for Alternative 5D	19.2							
	Alternative 5D	17.0							
	Proposed – Comparison portion for Alternative 5E	5.8							
Alternative 5E	5.3								
6	Proposed – Total Length	0.5			15				15

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-15. Acres of Operations Impacts to Agency Designated Greater Sage-Grouse Habitat cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Core Areas Crossed	Key Areas Crossed	R1 Habitats Crossed	R2 Habitats Crossed	R3 Habitats Crossed	Preliminary Priority Habitats Crossed	Preliminary General Habitats Crossed
7	Proposed – Total Length	118.2		27	35		8	14	56
	Proposed – Comparison portion for Alternatives 7A,B	35.1							
	Alternative 7A	37.7		10	t ^{1/}			2	8
	Alternative 7B	46.2		20	4			6	26
	Proposed – Comparison portion for Alternative 7C	20.1		<1	24				25
	Alternative 7C	20.3			16				16
	Proposed – Comparison portion for Alternative 7D	6.2		4	5		<1	5	4
	Alternative 7D	6.8		5	3		<1	3	6
	Proposed – Comparison portion for Alternative 7E	3.8		4			1		4
	Alternative 7E	4.5		7			2	7	1
	Proposed – Comparison portion for Alternative 7F	10.5		9			3	4	8
	Alternative 7F	10.8		7			4	10	1
	Proposed – Comparison portion for Alternative 7G	3.3		5				1	4
	Alternative 7G	3.4		5					5
	Proposed – Comparison portion for Alternative 7K	118.2		27	35		8	14	56
Alternative 7K	148.1		131	81	4	55	175	112	
8	Proposed – Total Length	131.5		29	39	16		12	43
	Proposed – Comparison portion for Alternative 8A	51.9		16	38	13		12	29
	Alternative 8A	53.6			29	8			28
	Proposed – Comparison portion for Alternative 8B	45.3							
	Alternative 8B	45.8							
	Proposed – Comparison portion for Alternative 8C	6.5							
	Alternative 8C	6.4							
	Proposed – Comparison portion for Alternative 8D	6.9							
	Alternative 8D	8.1							
	Proposed – Comparison portion for Alternative 8E	7.0							
Alternative 8E	18.3								
9	Proposed – Total Length	162.2		28	17	<1		29	66
	Proposed – Comparison portion for Alternative 9A	7.8		<1					6
	Alternative 9A	7.7		3				3	3
	Proposed – Comparison portion for Alternative 9B	49.1		14	16	<1		22	32
	Alternative 9B	52.3							
	Proposed – Comparison portion for Alternative 9C	14.4		12	13			22	3
	Alternative 9C	14.4			2				1
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2							2
	Alternative 9D	60.1							<1
	Alternative 9F	63.3							<1
	Alternative 9G	57.8							<1
	Alternative 9H	61.0							<1
	Proposed – Comparison portion for Alternative 9E (revised)	61.4							10
Alternative 9E (revised)	70.6		2	9	22		2	28	
10	Proposed – Total Length	34.4		7	8	9			14

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10. Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly.

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.11-16. Sightlines from Occupied and Undetermined Sage-Grouse Leks on Federally Managed Lands that are Located within 4 miles of Construction Sites Proposed on Federally Managed Lands

Lek ID	Agency	Management Status	Route Associated with Closest Disturbance or Centerline ^{1/}	Distance to Closest Disturbance or Project Centerline (miles)	Visible Distance (sightline) from Lek Toward Project (miles)	Distance to Existing Features Crossing Sightline (miles) ^{2/}	Distance to Closest Existing Features that do Not Cross Sightline (miles) ^{3/}	Other Routes within 4 miles ^{1/}
1O062	Bankhead Jones	Occupied	Alternative 7K	1.00	0.09			
1O069	Bankhead Jones	Undetermined	Alternative 7K	1.48	0.03		1.14	7B
22-2281293	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	3.68	0.12	0.74		
22-2282061	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	2.40	0.06			
22-2283321	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.72	0.14			2A
22-2283324	Bureau of Land Management	Undetermined	Segment 2 Proposed - Total Length	0.95	0.75			2A
22-2382221	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	2.50	0.29			
22-2382283	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.68	0.20			
22-2382343	Bureau of Land Management	Undetermined	Segment 2 Proposed - Total Length	0.86	0.12			
22-2481083	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	3.90	0.37	1.44		
22-Hanna Draw East 1	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.84	0.38			
22-Hanna Draw East 2	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	2.34	0.17			
22-Missouri John	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	3.55	0.06			
25-Cherokee Towers	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.23	0.14		0.22	
25-Creston	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	2.84	0.01		0.19	
25-Fox Farm	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.48	0.57			
25-Lake Bed	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	0.55	0.05			
25-Ram Canyon	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.01	0.04			
25-Scottys Peak	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.53	0.21			
25-Separation Hilltop	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	2.33	0.09			
25-Smith Draw	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	1.75	0.20			2A, 2B
25-South Cherokee	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	2.95	0.12	1.42		
25-SW Riner	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	0.86	0.29			
25-West Seaverson	Bureau of Land Management	Occupied	Segment 2 Proposed - Total Length	3.57	0.03			
27-2878143	Bureau of Land Management	Occupied	Segment 1W(c) Proposed - Total Length	3.51	0.30	2.34		1W(a)
27-Bates Creek Reservoir	Bureau of Land Management	Occupied	Segment 1W(a) Proposed - Total Length	0.08	0.08			1W(c)
27-East Fork	Bureau of Land Management	Occupied	Segment 1W(c) Proposed - Total Length	2.73	0.25			1W(a)
27-Upper Lone Tree	Bureau of Land Management	Occupied	Segment 1W(a) Proposed - Total Length	1.27	0.67			1W(c)
2B013	Bureau of Land Management	Occupied	Alternative 4B	1.95	0.06			4C,4D,4E
2B018	Bureau of Land Management	Undetermined	Alternative 4B	3.45	0.98		0.28	4C,4D,4E
2B019	Bureau of Land Management	Undetermined	Alternative 4B	3.64	0.60		0.12	4C,4D,4E
2B021	Bureau of Land Management	Undetermined	Alternative 4B	2.68	0.20		1.39	4,4C,4D,4E,4F
2B035	Bureau of Land Management	Occupied	Segment 4 Proposed - Total Length	0.76	0.03			
2J010	Bureau of Land Management	Undetermined	Segment 10 Proposed - Total Length	2.21	0.33	1.77		
2J012	Bureau of Land Management	Undetermined	Segment 10 Proposed - Total Length	1.22	0.11	0.81		
2J013	Bureau of Land Management	Undetermined	Segment 10 Proposed - Total Length	0.77	0.24	0.34		
2J014	Bureau of Land Management	Undetermined	Segment 10 Proposed - Total Length	0.00	0.00			
2J017	Bureau of Land Management	Undetermined	Segment 10 Proposed - Total Length	1.44	0.24			
2O164	Bureau of Land Management	Undetermined	Segment 9 Proposed - Total Length	2.14	0.96			
2O189	Bureau of Land Management	Occupied	Alternative 9E (revised)	3.66	0.04			
2O192	Bureau of Land Management	Undetermined	Alternative 9E (revised)	1.70	0.61			
2O193	Bureau of Land Management	Undetermined	Alternative 9E (revised)	1.72	0.02			
2O197	Bureau of Land Management	Occupied	Alternative 9E (revised)	2.26	0.15			
2O199	Bureau of Land Management	Undetermined	Alternative 9E (revised)	3.94	0.37			
2O200	Bureau of Land Management	Undetermined	Alternative 9E (revised)	3.80	0.25			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Blank cells indicate zero miles or null value

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Table D.11-16. Sightlines from Occupied and Undetermined Sage-Grouse Leks on Federally Managed Lands that are Located within 4 miles of Construction Sites Proposed on Federally Managed Lands cont.

Lek ID	Agency	Management Status	Route Associated with Closest Disturbance or Centerline ^{1/}	Distance to Closest Disturbance or Project Centerline (miles)	Visible Distance (sightline) from Lek Toward Project (miles)	Distance to Existing Features Crossing Sightline (miles) ^{2/}	Distance to Closest Existing Features that do Not Cross Sightline (miles) ^{3/}	Other Routes within 4 miles ^{1/}
2O201	Bureau of Land Management	Occupied	Alternative 9E (revised)	2.46	0.02			
2O204	Bureau of Land Management	Undetermined	Alternative 9E (revised)	1.06	0.08			
2O205	Bureau of Land Management	Undetermined	Alternative 9E (revised)	2.41	0.03			
2O278	Bureau of Land Management	Undetermined	Segment 9 Proposed - Total Length	0.32	0.02			
2O441	Bureau of Land Management	Undetermined	Alternative 9E (revised)	2.26	0.02			9
2O442	Bureau of Land Management	Undetermined	Alternative 9E (revised)	2.85	0.07			9
2O442a	Bureau of Land Management	Undetermined	Alternative 9E (revised)	3.11	0.10			
2O618	Bureau of Land Management	Occupied	Alternative 9E (revised)	1.33	0.13			9,9D,9F,9G,9H,9I
2O629	Bureau of Land Management	Undetermined	Segment 9 Proposed - Total Length	2.12	0.08			9E
2O641	Bureau of Land Management	Undetermined	Alternative 9E (revised)	1.31	0.07			9,9D,9F,9G,9H,9I
2T010	Bureau of Land Management	Undetermined	Segment 9 Proposed - Total Length	2.69	0.39			
2T014	Bureau of Land Management	Undetermined	Segment 9 Proposed - Total Length	2.51	1.10			
2T016	Bureau of Land Management	Occupied	Segment 9 Proposed - Total Length	3.20	0.47	3.16		
2T063	Bureau of Land Management	Occupied	Alternative 7K	3.72	0.10		0.04	9
2T064	Bureau of Land Management	Occupied	Segment 9 Proposed - Total Length	3.04	0.06	2.93		9A
2T138	Bureau of Land Management	Undetermined	Segment 9 Proposed - Total Length	1.14	0.36			
2T149	Bureau of Land Management	Occupied	Segment 9 Proposed - Total Length	1.68	0.55			9B,9C
2T151	Bureau of Land Management	Occupied	Segment 9 Proposed - Total Length	1.09	0.17			
2T152	Bureau of Land Management	Occupied	Segment 9 Proposed - Total Length	2.19	0.83			
2T156	Bureau of Land Management	Occupied	Segment 9 Proposed - Total Length	3.28	0.81			
4-Alkali Creek East	Bureau of Land Management	Occupied	Alternative 4F	0.95	0.03			4
4-Alkali Creek West	Bureau of Land Management	Undetermined	Alternative 4F	1.05	0.04			4
4C014	National Forest	Undetermined	Alternative 7K	3.85	0.15		2.83	
4C015	National Forest	Occupied	Alternative 7K	3.18	0.07		2.09	
4C016	National Forest	Occupied	Alternative 7K	3.18	0.19		1.95	
4C017	National Forest	Occupied	Alternative 7K	2.22	0.31			
4C018	Bureau of Land Management	Occupied	Alternative 7K	1.19	0.04			
4C019	National Forest	Undetermined	Alternative 7K	1.33	0.22			
4C020	National Forest	Undetermined	Alternative 7K	1.16	0.42			
4C027	Bureau of Land Management	Undetermined	Alternative 7K	0.46	0.04			
4C028	Bureau of Land Management	Occupied	Alternative 7K	1.71	0.25		0.18	
4C029	Bureau of Land Management	Undetermined	Segment 7 Proposed - Total Length	2.83	0.08			7D
4C030	Bureau of Land Management	Undetermined	Alternative 7K	1.07	0.09			
4C036	Bureau of Land Management	Undetermined	Alternative 7K	2.29	0.05		1.57	
4C037	Bureau of Land Management	Undetermined	Segment 7 Proposed - Total Length	0.68	0.10			7A,7B,7C
4C052	Bureau of Land Management	Occupied	Alternative 7K	0.74	0.02			
4C063	National Forest	Occupied	Alternative 7K	3.37	0.09			
4C068	Bureau of Land Management	Undetermined	Alternative 7K	2.19	0.06		0.66	
4C069	Bureau of Land Management	Undetermined	Alternative 7K	0.90	0.17			
4C070	Bureau of Land Management	Undetermined	Alternative 7K	1.19	0.15			7
4C071	Bureau of Land Management	Undetermined	Alternative 7K	0.34	0.02			7,7G
4C091	Bureau of Land Management	Undetermined	Alternative 7K	3.45	0.29	1.77		
4C096	National Forest	Undetermined	Alternative 7K	2.58	0.15	0.14		
4C097	National Forest	Occupied	Alternative 7K	3.47	0.06	0.01		
4C099	National Forest	Undetermined	Alternative 7K	3.26	0.50		0.65	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

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Table D.11-16. Sightlines from Occupied and Undetermined Sage-Grouse Leks on Federally Managed Lands that are Located within 4 miles of Construction Sites Proposed on Federally Managed Lands cont.

Lek ID	Agency	Management Status	Route Associated with Closest Disturbance or Centerline ^{1/}	Distance to Closest Disturbance or Project Centerline (miles)	Visible Distance (sightline) from Lek Toward Project (miles)	Distance to Existing Features Crossing Sightline (miles) ^{2/}	Distance to Closest Existing Features that do Not Cross Sightline (miles) ^{3/}	Other Routes within 4 miles ^{1/}
4C100	National Forest	Undetermined	Alternative 7K	3.71	0.57		1.04	
4C101	Bureau of Land Management	Occupied	Alternative 7K	0.74	0.28			7,7G,9,10
4C102	National Forest	Occupied	Alternative 7K	3.45	0.07	1.66		
4C106	National Forest	Undetermined	Alternative 7K	3.93	0.02		1.57	
4C110	Bureau of Land Management	Occupied	Alternative 7K	3.72	0.01		3.21	
4C111a	Bureau of Land Management	Occupied	Alternative 7K	1.04	0.23			7
4C111b	Bureau of Land Management	Occupied	Alternative 7K	0.70	0.25			7,7G
4C117	Bureau of Land Management	Undetermined	Alternative 7F	0.02	0.01			7,7D,7E
4C119	Bureau of Land Management	Undetermined	Alternative 7K	1.01	0.07			
4C122	Bureau of Land Management	Undetermined	Alternative 7K	0.70	0.06			
4C123	Bureau of Land Management	Undetermined	Alternative 7K	0.70	0.11			
4C127	Bureau of Land Management	Occupied	Alternative 7K	0.17	0.04			
4C128	Bureau of Land Management	Occupied	Alternative 7K	0.71	0.06			
4C129	Bureau of Land Management	Occupied	Alternative 7K	0.72	0.29			
4C133	Bureau of Land Management	Undetermined	Alternative 7K	1.86	0.38		0.89	7,7G,9,10
4C137	Bureau of Land Management	Occupied	Segment 7 Proposed - Total Length	2.82	0.03		0.58	7C,7D
4C138	Bureau of Land Management	Undetermined	Alternative 7K	0.89	0.10	0.89		
4C139	Bureau of Land Management	Occupied	Alternative 7K	0.39	0.10			
4C141	Bureau of Land Management	Occupied	Alternative 7K	0.03	0.03			
4C142	Bureau of Land Management	Undetermined	Alternative 7K	1.74	0.04			
4C143	Bureau of Land Management	Undetermined	Segment 7 Proposed - Total Length	2.51	0.09			7D
4C145a	Bureau of Land Management	Occupied	Segment 7 Proposed - Total Length	3.89	0.11		0.29	7D
4C146	National Forest	Occupied	Alternative 7K	0.23	0.10			
4C163	Bureau of Land Management	Occupied	Alternative 7K	1.98	0.29			
4C165	National Forest	Occupied	Alternative 7K	3.35	0.08	1.04		
4C178	Bureau of Land Management	Occupied	Alternative 7K	2.20	0.02			
4C179	National Forest	Occupied	Alternative 7K	0.33	0.13			
4-Chicken Creek	National Park Service	Occupied	Alternative 4B	2.14	0.41	1.51		4C
4-Chicken Creek 2	National Park Service	Occupied	Alternative 4B	1.96	0.45	1.38		4C
4-County Rd 4	Bureau of Reclamation	Occupied	Alternative 4F	0.93	0.25	0.69		4,4B,4C,4D,4E
4-Craven Reservoir 1	Bureau of Land Management	Occupied	Alternative 4F	0.19	0.16	0.15		4
4-Craven Reservoir 2	Bureau of Land Management	Undetermined	Alternative 4F	0.09	0.09		0.09	4
4-Dempsey Basin	Bureau of Land Management	Occupied	Alternative 4F	0.95	0.31	0.81		
4-East Willow Ck	Bureau of Land Management	Occupied	Alternative 4F	2.27	0.09	2.24		4
4-Horse Creek	Bureau of Land Management	Occupied	Alternative 4C	1.53	0.07		0.64	4E
4-Linden Canyon	Bureau of Land Management	Occupied	Alternative 4B	3.32	0.38	3.30		4C
4-Nancy Hill Grave	Bureau of Land Management	Occupied	Segment 4 Proposed - Total Length	0.28	0.11			4F
4-North Fork Dempsey Creek	Bureau of Land Management	Occupied	Alternative 4F	0.88	0.38	0.53		
4-North Twin Cr	Bureau of Land Management	Occupied	Alternative 4B	2.83	0.64	2.42		4C
4-Opal Bench 1	Bureau of Land Management	Occupied	Alternative 4F	2.73	0.34	2.35		4
4-Opal Bench 2	Bureau of Land Management	Occupied	Alternative 4F	1.25	0.52	0.66		4
4-Oyster Ridge South	Bureau of Land Management	Undetermined	Alternative 4F	2.81	0.14		0.13	4
4-Petersen Ranch Lek	Bureau of Land Management	Occupied	Alternative 4C	2.04	0.29	0.92		4E
4-Quaken Asp	Bureau of Land Management	Undetermined	Segment 4 Proposed - Total Length	0.77	0.11	0.74		4F
4-Round Mtn	Bureau of Land Management	Occupied	Alternative 4F	2.19	0.44	1.65		4

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Table D.11-16. Sightlines from Occupied and Undetermined Sage-Grouse Leks on Federally Managed Lands that are Located within 4 miles of Construction Sites Proposed on Federally Managed Lands cont.

Lek ID	Agency	Management Status	Route Associated with Closest Disturbance or Centerline ^{1/}	Distance to Closest Disturbance or Project Centerline (miles)	Visible Distance (sightline) from Lek Toward Project (miles)	Distance to Existing Features Crossing Sightline (miles) ^{2/}	Distance to Closest Existing Features that do Not Cross Sightline (miles) ^{3/}	Other Routes within 4 miles ^{1/}
4-Seven Mile Gulch 1	Bureau of Land Management	Occupied	Alternative 4B	1.31	1.16		1.03	4C,4D,4E
4-Small Pox Creek	Bureau of Land Management	Occupied	Alternative 4B	2.14	0.07	1.33		4C
4-Wyman Creek	Bureau of Land Management	Occupied	Segment 4 Proposed - Total Length	1.21	0.34			4C,4E
4-Yellow Point North	Bureau of Land Management	Occupied	Alternative 4F	0.64	0.38	0.30		4
5-Anna Richey	Bureau of Land Management	Occupied	Alternative 4B	1.79	0.15		0.27	4C,4D,4E
5-Bert Brush	Bureau of Land Management	Occupied	Alternative 4B	3.05	0.07			4C,4D,4E
5-Bridger Creek	Bureau of Land Management	Occupied	Alternative 4B	2.16	0.28	0.91		4C,4D,4E
5-Bulldog Hollow	Bureau of Land Management	Occupied	Alternative 4B	2.58	0.02	1.29		4C,4D,4E
5-Bulldog Hollow South	Bureau of Land Management	Occupied	Alternative 4B	3.86	0.03	2.6		4D
5-Bulpen Creek	Bureau of Land Management	Occupied	Alternative 4B	0.53	0.12			4C,4D,4E
5-Clear Creek Ridge	Bureau of Land Management	Occupied	Alternative 4D	0.18	0.10			4B,4C,4E
5-Collett Basin	Bureau of Land Management	Occupied	Alternative 4D	2.84	0.98			4B,4C,4E
5-East Fork Bullpen	Bureau of Land Management	Occupied	Alternative 4D	0.83	0.53		0.57	4B,4C,4E
5-Little Round Mtn North	Bureau of Land Management	Occupied	Alternative 4B	0.16	0.02			4C,4D,4E
5-Little Round Mtn South	Bureau of Land Management	Occupied	Alternative 4B	3.12	0.02			4C,4D,4E
5-Middle Clear Creek Ridge	Bureau of Land Management	Occupied	Alternative 4D	1.70	0.12			4B,4E
5-North Crawford	Bureau of Land Management	Occupied	Alternative 4B	3.96	0.16	2.56		
5-Skull Point West	Bureau of Land Management	Occupied	Alternative 4B	2.20	0.17		0.92	4C,4D,4E
5-South Collett Ck	Bureau of Land Management	Occupied	Alternative 4D	3.43	0.03			
5-South Twin Creek	Bureau of Land Management	Occupied	Alternative 4B	0.83	0.03			4C,4D,4E
5-Zieglers Wonder Wash	Bureau of Land Management	Occupied	Alternative 4B	2.73	0.25		0.12	4C,4D,4E
7-Alkali Creek 4	Bureau of Land Management	Occupied	Segment 4 Proposed - Total Length	2.02	0.02	1.81		
7-Blue Rim	Bureau of Land Management	Occupied	Segment 4 Proposed - Total Length	3.19	0.60			
9-Bitter Divide	Bureau of Land Management	Occupied	Segment 3 Proposed - Total Length	1.12	0.33			
9-Desert Springs North	Bureau of Land Management	Occupied	Segment 3 Proposed - Total Length	1.16	0.31			
9-Tipton North	Bureau of Land Management	Occupied	Segment 3 Proposed - Total Length	2.50	0.31			
E018	Bureau of Land Management	Undetermined	Segment 8 Proposed - Total Length	3.21	0.26	3.19		
E020	Bureau of Land Management	Undetermined	Segment 8 Proposed - Total Length	2.36	0.34		0.56	8A
E022	Bureau of Land Management	Undetermined	Segment 8 Proposed - Total Length	3.78	0.55	1.05		
E050	Bureau of Land Management	Occupied	Segment 8 Proposed - Total Length	2.22	0.28		0.42	8A
E051	Bureau of Land Management	Undetermined	Segment 8 Proposed - Total Length	2.97	0.51		2.01	
E071	Bureau of Land Management	Occupied	Segment 8 Proposed - Total Length	2.91	0.31	1.19		

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Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location
1W	1W(a) Proposed – Total Length	2.1	Gravel Pit	Gravel	Crossed
		2.7	Forbis Gravel Pit	Gravel	620 feet SE
		21.3-21.9	Active Mining Claim	2 or more minerals	Crossed
		40.6-42.0	Active Mining Claim	2 or more minerals	Crossed
		43.8-46.3	Active Mining Claim	2 or more minerals	Crossed
	Alternative 1W(a)-B	13.1	Glenrock South Oil/Gas Well	Oil/Gas	938 feet NE
		13.5	Glenrock South Oil/Gas Well	Oil/Gas	927 feet NE
		14.6	Glenrock South Oil/Gas Well	Oil/Gas	425 feet NW
		17.1	Drill Hole	Oil/Gas	526 feet E
		17.5	Drill Hole	Oil/Gas	379 feet E
	1W(c) Proposed – Total Length	19.9-20.5	Active Mining Claim	2 or more minerals	Crossed
		39.2-41.4	Active Mining Claim	2 or more minerals	Crossed
		42.0-42.5	Active Mining Claims	Uranium and other	72 feet E
		42.5-45.0	Active Mining Claims	2 or more minerals	Crossed
2	Proposed – Total Length	5.8	WC Oil/Gas Well	Oil/Gas	Crossed
		9.6-9.9	Active Coal Lease	Coal	Crossed
		9.6-13.0	Seminole II Mine Permit	Coal	Crossed
		10.4-11.4	Mine Surface Reclamation	Coal	Crossed
		11.1-11.5	Active Coal Lease	Coal	Crossed
		12.6-13.0	Active Coal Lease	Coal	Crossed
		15.6-16.0	EDC Mine Permit	Coal	Crossed
		16.9-17.2	Mine Surface Reclamation	Coal	Crossed
		17.1-21.6	EDC Mine Permit	Coal	Crossed
		21.6-23.0	EDC Mine Permit	Coal	550 feet N
		32.0-32.3	Active MMD Claim	Sand and Gravel	Crossed
		37.0-37.7	Active MMD Claim	Sand and Gravel	Crossed
		37.7	Gravel Pit	Gravel	139 feet N
		37.8	Sand Pit	Sand	870 feet S
		62.3-62.8	Active Mining Claim	Uranium	Crossed
		63.8-69.2	Active Mining Claim	Uranium	Crossed
		80.1	Echo Springs Oil/Gas Well	Oil/Gas	940 feet N
		82.2	Echo Springs Oil/Gas Well	Oil/Gas	250 feet N
		83.9	Echo Springs Oil/Gas Well	Oil/Gas	610 feet SE
		84.7	Echo Springs Oil/Gas Well	Oil/Gas	830 feet NW
		85.1	Echo Springs Oil/Gas Well	Oil/Gas	500 feet N
		85.6	Echo Springs Oil/Gas Well	Oil/Gas	660 feet N
		86.1	Echo Springs Oil/Gas Well	Oil/Gas	640 feet N
		86.6	Echo Springs Oil/Gas Well	Oil/Gas	690 feet N
		87.1	Echo Springs Oil/Gas Well	Oil/Gas	960 feet N
		87.1	Echo Springs Oil/Gas Well	Oil/Gas	790 feet N
		87.6	Echo Springs Oil/Gas Well	Oil/Gas	890 feet S
		88.0	Echo Springs Oil/Gas Well	Oil/Gas	670 feet S
	88.1	Echo Springs Oil/Gas Well	Oil/Gas	990 feet N	
	89.5	Echo Springs Oil/Gas Well	Oil/Gas	950 feet NW	
	90.9	Tierney Oil/Gas Well	Oil/Gas	720 feet S	
	91.9	Tierney Oil/Gas Well	Oil/Gas	300 feet S	
	Alternative 2A	9.1-9.4	Gravel Pit	Gravel	Crossed
		10.0-10.3	Active MMD Claim	Sand and Gravel	Crossed
10.5-10.8		Active MMD Claim	Sand and Gravel	Crossed	
10.7		Gravel Pit	Gravel	Crossed	
Alternative 2B	10.8	Gravel Pit	Gravel	318 feet N	
	5.4-5.8	Gravel Pit	Gravel	Crossed	
		6.2-6.5	Gravel Pits	Gravel	316-910 feet S

Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps cont.

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location
3	Segment 3 Proposed – Total Length	0.2	Tierney Oil/Gas Well	Oil/Gas	920 feet SW
		0.9	Tierney Oil/Gas Well	Oil/Gas	870 feet SW
		1.0	Tierney Oil/Gas Well	Oil/Gas	620 feet NE
		1.3	Tierney Oil/Gas Well	Oil/Gas	780 feet NE
		1.4	Tierney Oil/Gas Well	Oil/Gas	380 feet N
		1.5	Tierney Oil/Gas Well	Oil/Gas	430 feet S
		1.6	Tierney Oil/Gas Well	Oil/Gas	540 feet N
		2.1	Frewen Oil/Gas Well	Oil/Gas	880 feet S
		2.6	Frewen Oil/Gas Well	Oil/Gas	960 feet N
		2.8	Frewen Oil/Gas Well	Oil/Gas	180 feet S
		4.1	Frewen Oil/Gas Well	Oil/Gas	500 feet S
		4.2	Frewen Oil/Gas Well	Oil/Gas	920 feet N
		5.7	Frewen Oil/Gas Well	Oil/Gas	280 feet N
		21.1	Tipton Oil/Gas Well	Oil/Gas	985 feet E
		30.2	Patric Draw North Oil/Gas Well	Oil/Gas	950 feet N
		30.4	Patric Draw North Oil/Gas Well	Oil/Gas	340 feet N
		31.6	Arch Oil/Gas Well	Oil/Gas	920 feet N
		34.4	Desert Springs West Oil/Gas Well	Oil/Gas	990 feet N
		34.9	Desert Springs West Oil/Gas Well	Oil/Gas	960 feet N
		35.1	Desert Springs West Oil/Gas Well	Oil/Gas	240 feet S
		35.4	Desert Springs West Oil/Gas Well	Oil/Gas	980 feet N
		38.4	Red Hill Oil/Gas Well	Oil/Gas	790 feet S
		40.3-40.8	Active Coal Lease	Coal	Crossed
		41.4-42.4	Active Coal Lease	Coal	Crossed
		42.7	WC Oil/Gas Well	Oil/Gas	710 feet NE
Segment 3A Proposed – Total Length		2.9	Desert Springs West Oil/Gas Well	Oil/Gas	940 feet SW
4 ^{2/}	Proposed – Total Length	3.0-3.9	Mining Surface Reclamation	Coal	Crossed
		3.4-3.9	Active Coal Lease	Coal	Crossed
		4.9	Deadman Wash Oil/Gas Well	Oil/Gas	810 feet N
		8.7	Deadman Wash Oil/Gas Well	Oil/Gas	540 feet S
		9.7	Mariann Oil/Gas Well	Oil/Gas	660 feet S
		11.0	Mariann Oil/Gas Well	Oil/Gas	130 feet N
		48.7-49.9	Active Solid Mineral Lease	Trona	Crossed
		50.2-51.0	Mining Surface Disturbance	Trona	500 feet S
		50.2-51.4	Active Solid Mineral Lease	Trona	Crossed
		50.8-51.1	Active MMD Claim	Sand and Gravel	Crossed
		52.6-53.6	Active Solid Mineral Lease	Trona	720 feet N
		53.6-53.8	Active Solid Mineral Lease	Trona	Crossed
		70.9	Whiskey Butte Oil/Gas Well	Oil/Gas	720 feet N
		71.4	Whiskey Butte Oil/Gas Well	Oil/Gas	831 feet N
		71.6	Whiskey Butte Oil/Gas Well	Oil/Gas	670 feet N
		71.8	Whiskey Butte Oil/Gas Well	Oil/Gas	720 feet S
		72.1	Whiskey Butte Oil/Gas Well	Oil/Gas	560 feet N
		72.3	Whiskey Butte Oil/Gas Well	Oil/Gas	790 feet S
		72.5	Whiskey Butte Oil/Gas Well	Oil/Gas	860 feet N
		72.7	Whiskey Butte Oil/Gas Well	Oil/Gas	880 feet S
		73.1	Whiskey Butte Oil/Gas Well	Oil/Gas	650 feet S
		73.6	Whiskey Butte Oil/Gas Well	Oil/Gas	360 feet S
		73.8	Whiskey Butte Oil/Gas Well	Oil/Gas	660 feet N
		74.0	Whiskey Butte Oil/Gas Well	Oil/Gas	450 feet N
		74.1	Whiskey Butte Oil/Gas Well	Oil/Gas	600 feet S
74.3	Whiskey Butte Oil/Gas Well	Oil/Gas	340 feet N		
74.3	Whiskey Butte Oil/Gas Well	Oil/Gas	850 feet S		
74.6	Whiskey Butte Oil/Gas Well	Oil/Gas	400 feet S		
75.0	Whiskey Butte Oil/Gas Well	Oil/Gas	450 feet S		
75.4	Whiskey Butte Oil/Gas Well	Oil/Gas	410 feet N		
75.5	Whiskey Butte Oil/Gas Well	Oil/Gas	400 feet S		

Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps cont.

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location	
4 (cont.)	Proposed – Total Length (cont.)	75.6	Whiskey Butte Oil/Gas Well	Oil/Gas	770 feet N	
		75.7	Whiskey Butte Oil/Gas Well	Oil/Gas	950 feet S	
		75.9	Whiskey Butte Oil/Gas Well	Oil/Gas	450 feet N	
		76.0	Whiskey Butte Oil/Gas Well	Oil/Gas	900 feet N	
		76.2	Whiskey Butte Oil/Gas Well	Oil/Gas	730 feet N	
		76.2	Whiskey Butte Oil/Gas Well	Oil/Gas	470 feet S	
		76.6	Cow Hollow Oil/Gas Well	Oil/Gas	700 feet N	
		76.6	Cow Hollow Oil/Gas Well	Oil/Gas	1,000 feet N	
		79.0	Cow Hollow Oil/Gas Well	Oil/Gas	780 feet S	
		79.0	Cow Hollow Oil/Gas Well	Oil/Gas	860 feet S	
		79.6	Cow Hollow Oil/Gas Well	Oil/Gas	670 feet N	
		80.1	Cow Hollow Oil/Gas Well	Oil/Gas	260 feet S	
		80.7	Cow Hollow Oil/Gas Well	Oil/Gas	440 feet S	
		100.2	Active Coal Lease	Coal	430 feet W	
		105.6	Stone Quarry	Stone-Riprap	310 feet S	
	147.2-147.7	Gravel Pit	Gravel	500 feet N		
	195.3	Borrow Pit	Gravel	100 feet NE		
		Alternative 4B	2.2	Gravel Pit	Gravel	880 feet N
			7.4-11.4	Active Solid Mineral Lease	Trona, Oil Shale, Halite	Crossed
			10.2-10.7	Texasgulf Emergency Pond	Soda Ash	540 feet N
			13.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	620 feet S
			15.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	650 feet N
			15.3	Fabian Ditch Oil/Gas Well	Oil/Gas	800 feet S
			15.6	Bruff Oil/Gas Well	Oil/Gas	520 feet N
			16.0	Fabian Ditch Oil/Gas Well	Oil/Gas	Crossed
			16.2	Fabian Ditch Oil/Gas Well	Oil/Gas	950 feet N
			16.4	Fabian Ditch Oil/Gas Well	Oil/Gas	660 feet N
			16.8	Fabian Ditch Oil/Gas Well	Oil/Gas	440 feet N
			17.0	Fabian Ditch Oil/Gas Well	Oil/Gas	390 feet S
			17.4	Fabian Ditch Oil/Gas Well	Oil/Gas	335 feet N
			17.6	Fabian Ditch Oil/Gas Well	Oil/Gas	330 feet S
			18.2	Fabian Ditch Oil/Gas Well	Oil/Gas	520 feet N
			18.5	Fabian Ditch Oil/Gas Well	Oil/Gas	730 feet S
			19.0	Fabian Ditch Oil/Gas Well	Oil/Gas	860 feet S
			19.5	Wilson Ranch Oil/Gas Well	Oil/Gas	970 feet S
	20.5		Wilson Ranch Oil/Gas Well	Oil/Gas	940 feet N	
	21.6		Wilson Ranch Oil/Gas Well	Oil/Gas	150 feet S	
	22.6		Wilson Ranch Oil/Gas Well	Oil/Gas	370 feet S	
	43.5		Glencoe Mine	Unknown	690 feet S	
	43.7		Glencoe Waste Rock Dump	Unknown	400 feet S	
	45.7-46.2	FMC Granger Reclamation	Coal	Crossed		
	47.3-48.6	Elkol Strip Mine	Coal	Crossed		
	47.9-48.7	Active Coal Lease	Coal	Crossed		
	48.0-48.7	Active Coal Lease	Coal	Crossed		
	54.6-54.9	Mine Surface Disturbance	Unknown	110 feet W		
	63.0-64.6	Active Mining Claim	2 or more minerals	Crossed		
	73.3-73.6	Carlisle Mine Surface Disturbance	Coal	480 feet S		
	73.7	Gravel Pit	Gravel	470 feet S		
	Alternative 4C	2.2	Gravel Pit	Gravel	880 feet N	
		7.4-11.4	FMC Active Solid Mineral Lease	Trona, Oil Shale, Halite	Crossed	
		10.2-10.7	Texasgulf Emergency Pond	Soda Ash	540 feet N	
		13.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	620 feet S	
		15.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	650 feet N	
		15.3	Fabian Ditch Oil/Gas Well	Oil/Gas	800 feet S	
	15.6	Bruff Oil/Gas Well	Oil/Gas	520 feet N		
	16.0	Fabian Ditch Oil/Gas Well	Oil/Gas	Crossed		

Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps cont.

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location
4 (cont.)	Alternative 4C (cont.)	16.2	Fabian Ditch Oil/Gas Well	Oil/Gas	950 feet N
		16.4	Fabian Ditch Oil/Gas Well	Oil/Gas	660 feet N
		16.8	Fabian Ditch Oil/Gas Well	Oil/Gas	440 feet N
		17.0	Fabian Ditch Oil/Gas Well	Oil/Gas	390 feet S
		17.4	Fabian Ditch Oil/Gas Well	Oil/Gas	335 feet N
		17.6	Fabian Ditch Oil/Gas Well	Oil/Gas	330 feet S
		18.2	Fabian Ditch Oil/Gas Well	Oil/Gas	520 feet N
		18.5	Fabian Ditch Oil/Gas Well	Oil/Gas	730 feet S
		19.0	Fabian Ditch Oil/Gas Well	Oil/Gas	860 feet S
		19.5	Wilson Ranch Oil/Gas Well	Oil/Gas	970 feet S
		20.5	Wilson Ranch Oil/Gas Well	Oil/Gas	940 feet N
		21.6	Wilson Ranch Oil/Gas Well	Oil/Gas	150 feet S
		22.6	Wilson Ranch Oil/Gas Well	Oil/Gas	370 feet S
		43.5	Glencoe Mine	Unknown	690 feet S
		43.7	Glencoe Mine Waste Rock Dump	Unknown	400 feet S
		45.7-46.2	FMC Mine Reclamation	Coal	Crossed
		47.3-48.6	Elkol Strip Mine	Coal	Crossed
		48.0-48.7	Active Coal Lease	Coal	Crossed
		54.6-54.9	Mine Surface Disturbance	Unknown	110 feet W
		63.0-64.6	Active Mining Claim	2 or More Minerals	Crossed
	78.2-78.4	Gravel Pit	Gravel	Crossed	
	78.3	Gravel Pit	Gravel	Crossed	
	75.9-76.3	Gravel Pit	Gravel	10 feet W	
	2.2	Gravel Pit	Gravel	880 feet N	
	7.4-11.4	FMC Solid Mineral Lease	Trona, Oil Shale, Halite	Crossed	
	10.2-10.7	Texagulf Emergency Pond	Soda Ash	540 feet N	
	13.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	620 feet S	
	15.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	650 feet N	
	15.3	Fabian Ditch Oil/Gas Well	Oil/Gas	800 feet S	
	15.6	Bruff Oil/Gas Well	Oil/Gas	520 feet N	
	16.0	Fabian Ditch Oil/Gas Well	Oil/Gas	Crossed	
	16.2	Fabian Ditch Oil/Gas Well	Oil/Gas	950 feet N	
	16.4	Fabian Ditch Oil/Gas Well	Oil/Gas	660 feet N	
	16.8	Fabian Ditch Oil/Gas Well	Oil/Gas	440 feet N	
	17.0	Fabian Ditch Oil/Gas Well	Oil/Gas	390 feet S	
	17.4	Fabian Ditch Oil/Gas Well	Oil/Gas	335 feet N	
	17.6	Fabian Ditch Oil/Gas Well	Oil/Gas	330 feet S	
	18.2	Bruff Oil/Gas Well	Oil/Gas	470 feet N	
	18.5	Fabian Ditch Oil/Gas Well	Oil/Gas	730 feet S	
	19.0	Fabian Ditch Oil/Gas Well	Oil/Gas	860 feet S	
19.5	Wilson Ranch Oil/Gas Well	Oil/Gas	970 feet S		
20.5	Wilson Ranch Oil/Gas Well	Oil/Gas	940 feet N		
21.6	Wilson Ranch Oil/Gas Well	Oil/Gas	150 feet S		
22.6	Wilson Ranch Oil/Gas Well	Oil/Gas	370 feet S		
43.5	Glencoe Mine	Unknown	690 feet S		
43.7	Glencoe Mine Waste Rock Dump	Unknown	400 feet S		
45.7-46.2	FMC Mine Reclamation	Coal	Crossed		
47.3-48.6	Elkol Strip Mine	Coal	Crossed		
48.0-48.7	Active Coal Lease	Coal	Crossed		
56.2-56.4	Mine Surface Disturbance	Unknown	Crossed		
63.6-65.3	Active Mining Claim	2 or More Minerals	Crossed		
73.9-74.2	Carlisle Mine Surface Reclamation	Coal	480 feet S		
74.3	Gravel Pit	Gravel	470 feet S		
	Alternative 4D				

Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps cont.

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location
4 (cont.)	Alternative 4E	2.2	Gravel Pit	Gravel	880 feet N
		7.4-11.4	FMC Solid Mineral Lease	Trona, Oil Shale, Halite	Crossed
		10.2-10.7	Texas Gulf Emergency Pond	Soda Ash	540 feet N
		13.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	620 feet S
		15.1	Wild Hare Gulch Oil/Gas Well	Oil/Gas	650 feet N
		15.3	Fabian Ditch Oil/Gas Well	Oil/Gas	800 feet S
		15.6	Bruff Oil/Gas Well	Oil/Gas	520 feet N
		16.0	Fabian Ditch Oil/Gas Well	Oil/Gas	Crossed
		16.2	Fabian Ditch Oil/Gas Well	Oil/Gas	950 feet N
		16.4	Fabian Ditch Oil/Gas Well	Oil/Gas	660 feet N
		16.8	Fabian Ditch Oil/Gas Well	Oil/Gas	440 feet N
		17.0	Fabian Ditch Oil/Gas Well	Oil/Gas	390 feet S
		17.4	Fabian Ditch Oil/Gas Well	Oil/Gas	335 feet N
		17.6	Fabian Ditch Oil/Gas Well	Oil/Gas	330 feet S
		18.2	Bruff Oil/Gas Well	Oil/Gas	470 feet N
		18.5	Fabian Ditch Oil/Gas Well	Oil/Gas	730 feet S
		19.0	Fabian Ditch Oil/Gas Well	Oil/Gas	860 feet S
		19.5	Wilson Ranch Oil/Gas Well	Oil/Gas	970 feet S
		20.5	Wilson Ranch Oil/Gas Well	Oil/Gas	940 feet N
		21.6	Wilson Ranch Oil/Gas Well	Oil/Gas	150 feet S
		22.6	WC Oil/Gas Well	Oil/Gas	370 feet S
		43.5	Glencoe Mine	Unknown	690 feet S
		43.7	Glencoe Mine Waste Rock Dump	Unknown	400 feet S
		45.7-46.2	FMC Mine Reclamation	Coal	Crossed
		47.3-48.6	Elkol Strip Mine	Coal	Crossed
		47.4	Mine	Unknown	1,000 feet S
		48.0-48.7	Active Coal Lease	Coal	Crossed
		56.2-56.4	Mine Surface Disturbance	Unknown	Crossed
	63.6-65.3	Active Mining Claim	2 or More Minerals	Crossed	
	76.5-76.9	Gravel Pit	Gravel	10 feet W	
	78.8-79.0	Gravel Pit	Gravel	Crossed	
	Alternative 4F	1.1-2.0	Active Solid Mineral Lease	Trona	720 feet N
		2.0-2.2	Active Solid Mineral Lease	Trona	Crossed
		19.3	Whiskey Butte Oil/Gas Well	Oil/Gas	720 feet N
		19.8	Whiskey Butte Oil/Gas Well	Oil/Gas	831 feet N
20.0		Whiskey Butte Oil/Gas Well	Oil/Gas	670 feet N	
20.2		Whiskey Butte Oil/Gas Well	Oil/Gas	720 feet S	
20.5		Whiskey Butte Oil/Gas Well	Oil/Gas	560 feet N	
20.7		Whiskey Butte Oil/Gas Well	Oil/Gas	790 feet S	
20.9		Whiskey Butte Oil/Gas Well	Oil/Gas	860 feet N	
21.1		Whiskey Butte Oil/Gas Well	Oil/Gas	880 feet S	
21.5		Whiskey Butte Oil/Gas Well	Oil/Gas	650 feet S	
22.0		Whiskey Butte Oil/Gas Well	Oil/Gas	360 feet S	
22.2		Whiskey Butte Oil/Gas Well	Oil/Gas	660 feet N	
22.4		Whiskey Butte Oil/Gas Well	Oil/Gas	450 feet N	
22.5		Whiskey Butte Oil/Gas Well	Oil/Gas	600 feet S	
22.7		Whiskey Butte Oil/Gas Well	Oil/Gas	340 feet N	
22.8		Whiskey Butte Oil/Gas Well	Oil/Gas	850 feet S	
23.0		Whiskey Butte Oil/Gas Well	Oil/Gas	400 feet S	
23.4		Whiskey Butte Oil/Gas Well	Oil/Gas	450 feet S	
23.8		Whiskey Butte Oil/Gas Well	Oil/Gas	410 feet N	
24.0	Whiskey Butte Oil/Gas Well	Oil/Gas	400 feet S		
24.1	Whiskey Butte Oil/Gas Well	Oil/Gas	770 feet N		
24.1	Whiskey Butte Oil/Gas Well	Oil/Gas	950 feet S		
24.3	Whiskey Butte Oil/Gas Well	Oil/Gas	450 feet N		

Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps cont.

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location
4 (cont.) ^{2/}	Alternative 4F (cont.)	24.4	Whiskey Butte Oil/Gas Well	Oil/Gas	900 feet N
		24.6	Whiskey Butte Oil/Gas Well	Oil/Gas	730 feet N
		24.6	Whiskey Butte Oil/Gas Well	Oil/Gas	470 feet S
		25.0	Cow Hollow Oil/Gas Well	Oil/Gas	700 feet N
		27.0	Cow Hollow Oil/Gas Well	Oil/Gas	1,000 feet N
		27.4	Cow Hollow Oil/Gas Well	Oil/Gas	780 feet S
		27.4	Cow Hollow Oil/Gas Well	Oil/Gas	860 feet S
		28.0	Cow Hollow Oil/Gas Well	Oil/Gas	670 feet N
		28.5	Cow Hollow Oil/Gas Well	Oil/Gas	260 feet S
		29.1	Cow Hollow Oil/Gas Well	Oil/Gas	440 feet S
		48.6	Active Coal Lease	Coal	430 feet W
5	Proposed-Total Length	51.4	Borrow Pit	Sand/Gravel	300 feet W
	Alternative 5B	20.0-20.2	Active MMD Claim	Sand/Gravel	500 feet S
	Alternative 5D	15.9	Borrow Pit	Sand/Gravel	Crossed
7	Alternative 7B	21.3-21.4	Borrow Pit	Sand/Gravel	340 feet N
		21.3-21.5	Active MMD Claim	Sand/Gravel	Crossed
	Alternative 7K	40.2	Borrow Pit	Sand/Gravel	500 feet N
		77.5-79.9	Active Geothermal Lease	Geothermal	Crossed
		95.4-95.7	Active MMD Claim	Stone/Riprap	160 feet N
		95.5	Borrow Pit	Stone/Riprap	160 feet N
		107.7-108.7	Active Mining Claim	Unknown	Crossed
		109.4	Active Mining Claim	Unknown	690 feet S
		112.2-112.7	Active Mining Claim	Unknown	Crossed
		112.7-113.2	Active Mining Claim	Unknown	820 feet W
120.4-121.9	Active Mining Claim	Specialty Stone	Crossed		
137.1-137.6	Active Mining Claim	Gold	130 feet N		
8	Proposed – Total Length	21.9-22.0	Gravel Pit	Gravel	250 feet S
		57.4	Gravel Pit	Sand/Gravel	280 feet S
		88.5	Gravel Pit	Gravel	220 feet S
		91.2	Gravel Pit	Gravel	Crossed
		117.5	Clay Pit	Clay	Crossed
	Alternative 8A	39.9	Gravel Pit	Sand/Gravel	Crossed
	Alternative 8B	29.2-29.5	Galey Gravel Pit	Gravel	450 feet S
		34.9-35.1	Active MMD Claim-BLM Pit	Pumice/Cinders	10 feet E
		40.7-40.8	Cinder Pit	Sand/Gravel	510 feet NW

Table D.12-1. Mining Activities Within 1,000 Feet of Transmission Line Routes, Observed From Aerial Photograph Reconnaissance and Topographic Maps cont.

Segment Number	Proposed Alternative or Route Name ^{1/}	Milepost Location	Land Use/Feature Type	Mineral Product	Location
9	Proposed – Total Length	3.7-4.0	Gravel Pit	Sand/Gravel	Crossed
		14.7	Active MMD Claim-BLM Pit	Sand/Gravel	430 feet S
		32.6-33.6	Active Mining Claim	Unknown	Crossed
		57.7	Gravel Pit	Sand/Gravel	450 feet SW
		116.6-116.8	Gravel Pit	Sand/Gravel	450 feet SW
		150.6-150.9	Active MMD Claim-BLM Pit	Sand/Gravel	Crossed
		160.7-161.3	Active MMD Claim-BLM Pit	Specialty Stone	Crossed
		161.0-161.1	Clay Pit	Clay	Crossed
	Alternative 9A	5.9-6.2	Gravel Pit	Sand/Gravel	Crossed
		6.3	Gravel Pit	Sand/Gravel	310 feet N
	Alternative 9B	16.7	Active MMD Claim-BLM Pit	Sand/Gravel	950 feet S
		40.2	Gravel Pit	Sand/Gravel	420 feet S
		40.2-40.4	Active MMD Claim-ITD Pit	Sand/Gravel	Crossed
	Alternative 9C	9.6-9.9	Active MMD Claim-BLM Pit	Sand/Gravel	560 feet S
	Alternative 9D	5.8-5.9	Active MMD Claim-Owyhee Co. Pit	Sand/Gravel	920 feet NE
		8.3-8.5	Gravel Pit	Sand/Gravel	340 feet N
		14.8-14.9	Active MMD Claim-BLM Pit	Common Clay	340 feet W
		25.2-25.5	Active MMD Claim-BLM Pit	Common Clay	Crossed
	Alternative 9F	28.4-28.7	Active MMD Claim-BLM Pit	Common Clay	Crossed
	Alternative 9G	5.8-5.9	Active MMD Claim-Owyhee Co. Pit	Sand/Gravel	920 feet NE
		8.3-8.5	Gravel Pit	Sand/Gravel	340 feet N
		14.8-14.9	Active MMD Claim-BLM Pit	Common Clay	340 feet W
		25.2-25.5	Active MMD Claim-BLM Pit	Common Clay	Crossed
	Alternative 9H	28.4-28.7	Active MMD Claim-BLM Pit	Common Clay	Crossed
	Alternative 9E (revised)	2.5-5.9	Active Geothermal Lease	Geothermal	Crossed
		5.9-6.4	Active Mining Claim	Unknown	Crossed
		40.7-41.3	Active Mining Claim	Unknown	Crossed
42.2-42.8		Active Mining Claim	Unknown	Crossed	
44.6-44.7		Active Mining Claim	Placer	820 feet NE	

Note: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Some or all alternatives in Segments 5, 6, 7, 8, 9, and 10 do not contain mining activities. Alternatives without mining activities do not appear in this table.

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC	
1W	1W(a) Proposed - Total Length	73.8	Quaternary alluvium	6.1	3 ^{1/}	
			Casper Formation	1.9	3	
			Chugwater Formation or group	2.7	3	
			Cloverly and Morrison Formations	0.2	5	
			Cloverly, Morrison, and Sundance Formations	1.9	5	
			Cody Shale	1.4	3	
			Dune sand and loess	0.2	2 ^{2/}	
			Fox Hills Sandstone	2.7	3	
			Frontier Formation	1.6	3	
			Goose Egg Formation	8.1	2	
			Granite Gneiss	2.2	1 ^{3/}	
			Granitic rocks	5.2	1 ^{3/}	
			Lance Formation	5.6	5	
			Madison limestone, Darby Formation, Bighorn dolomite, Gallatin Limestone, GrosVentre Formation and Flathead Sandstone	0.8	3 ^{4/}	
			Mesaverde Formation or group	3.7	3	
			Mowry and Thermopolis shales	1.8	4 ^{4/}	
			Niobrara Formation	0.7	5	
			Steele Shale	3.1	3	
	Tensleep Sandstone and Amsden Formation	0.3	3			
	Upper Miocene Rocks	3.0	5 [/]			
	White River Formation	12.8	5			
	White River Formation - upper conglomerate member	7.9	5			
				Paleontology Risk Factor	249.6	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	Quaternary alluvium	3.0	3 ^{1/}	
			Cody Shale	1.4	3	
			Dune sand and loess	0.2	2 ^{2/}	
			Fox Hills Sandstone	2.7	3	
			Lance Formation	5.6	5	
			Mesa Verde Formation or group	3.7	3	
				Paleontology Risk Factor	60.8	
	Alternative 1W(a)-B	20.9	Quaternary alluvium	1.0	3 ^{1/}	
			Cody Shale	2.1	3	
			Dune sand and loess	4.4	2 ^{2/}	
			Fox Hills Sandstone	1.1	3	
			Lance Formation	3.8	5	
			Mesa Verde Formation or group	8.5	3	
				Paleontology Risk Factor	65.9	
	1W(c) Proposed – Total Length	73.6	Quaternary alluvium	7.8	3 ^{1/}	
			Casper Formation	2.5	3	
			Chugwater Formation or group	7.7	3	
			Cloverly and Morrison Formations	0.2	5	
Cloverly, Morrison, and Sundance Formations			0.5	5		
Cody Shale			4.0	3		
Fox Hills Sandstone			1.0	3		
Frontier Formation			0.8	3		
Goose Egg Formation			3.8	2		
Granite Gneiss			2.3	1 ^{3/}		
Granitic rocks			5.9	1 ^{3/}		
Lance Formation			5.0	5		
Madison limestone, Darby Formation, Bighorn dolomite, Gallatin Limestone, GrosVentre Formation and Flathead Sandstone			0.7	3 ^{4/}		
Mesaverde Formation or group			0.6	3		
Mowry and Thermopolis shales			0.9	4 ^{4/}		
Niobrara Formation			3.7	5		
Steele Shale			2.2	3		
Upper Miocene Rocks			2.5	5 [/]		
White River Formation	13.8	5				
White River Formation - upper conglomerate member	7.8	5				
			Paleontology Risk Factor	256.3		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
 PFYC - Potential Fossil Yield Classification
 Footnote explanations are provided on the last page of this table

Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
2	Proposed - Total Length	91.9	Quaternary undifferentiated (alluvium, colluvium, gravel, lacustrine)	12.9	3 ^{1/}
			Ferris Formation	7.0	5
			Fort Union Formation	12.5	3
			Hanna Formation	15.6	5
			Lance Formation	4.2	5
			Lewis Shale	3.9	3
			Medicine Bow Formation	1.7	3
			Mesa Verde Formation or group	6.3	3
			Miocene Rocks	3.8	5 [/]
			Niobrara Formation	0.5	5
			Steele Shale	3.5	3
			Steele Shale and Niobrara Formations	10.3	5 ^{4/}
			Wasatch Formation	9.7	5
			Paleontology Risk Factor		
	Proposed – Comparison portion for Alternative 2A	16.8	Quaternary alluvium	2.9	3 ^{1/}
			Lewis Shale	1.6	3
			Medicine Bow Formation	1.1	3
			Mesa Verde Formation or group	1.4	3
			Miocene Rocks	2.5	5 [/]
			Steele Shale	3.5	3
			Steele Shale and Niobrara Formations	3.9	5 ^{4/}
	Paleontology Risk Factor			51.0	
	Alternative 2A	16.0	Quaternary undifferentiated (alluvium, colluvium, gravel)	3.0	3 ^{1/}
			Lewis Shale	2.7	3
			Medicine Bow Formation	1.3	3
			Mesa Verde Formation or group	2.2	3
			Miocene Rocks	1.3	5 [/]
Steele Shale			1.7	3	
Steele Shale and Niobrara Formations			3.9	5 ^{4/}	
Paleontology Risk Factor			52.2		
Proposed – Comparison portion for Alternative 2B	12.5	Quaternary alluvium	2.9	3 ^{1/}	
		Mesaverde Formation or group	1.0	3	
		Miocene Rocks	1.3	5 [/]	
		Steele Shale	3.5	3	
		Steele Shale and Niobrara Formations	3.9	5 ^{4/}	
Paleontology Risk Factor			41.7		
Alternative 2B	12.2	Quaternary alluvium	3.7	3 ^{1/}	
		Lewis Shale	0.5	3	
		Mesaverde Formation or group	1.4	3	
		Miocene Rocks	1.5	5 [/]	
		Steele Shale	1.6	3	
		Steele Shale and Niobrara Formations	3.5	5 ^{4/}	
Paleontology Risk Factor			39.1		
3	Segment 3 Proposed – Total Length	45.9	Quaternary undifferentiated (alluvium, colluvium, lacustrine)	3.6	3 ^{1/}
			Dune sand and loess	5.0	2 ^{2/}
			Fort Union Formation	5.0	3
			Fox Hills Sandstone and Lewis Shale	2.5	3
			Green River Formation: Luman Tongue	11.2	5
			Lance Formation	2.3	5
			Wasatch Formation	16.4	5
	Paleontology Risk Factor			192.8	
	Segment 3A Proposed - Total Length	5.1	Fox Hills Sandstone and Lewis Shale	3.7	3
			Mesaverde Group, Almond Formation	1.4	3
Paleontology Risk Factor			15.3		

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC			
4	Segment 4 Proposed - Total Length	197.6	Quaternary undifferentiated (alluvium, colluvium, gravel, landslide)	28.9	3 ^{1/}			
			Ankareh Formation, Thaynes Limestone, Woodside Shale, and Dinwoody Formation	0.6	3			
			Aspen Shale	1.7	3			
			Baxter Shale	3.2	3			
			Bear River Formation	0.4	3			
			Bridger Formation	32.1	5			
			Dune sand and loess	1.8	2 ^{2/}			
			Evanston Formation	1.5	3			
			Fort Union Formation	1.3	3			
			Fowkes Formation	0.9	3			
			Fox Hills Sandstone and Lewis Shale	1.2	3			
			Frontier Formation	2.2	3			
			Gannett Group	1.2	3			
			Green River and Wasatch Formations	30.7	5			
			Hilliard Shale	5.8	3			
			Mesa Verde Group	19.7	3			
			Nugget Sandstone	1.3	3			
			Phosphoria Formation	0.2	3			
			Sage Junction, Quealy, Cokeville, Thomas Fork, and Smiths Formations	0.9	3			
			Salt Lake Formation	0.4	3			
			Stump Formation, Preuss Sandstone or Redbeds, and Twin Creek Limestone	2.0	3			
			Wasatch Formation	6.5	5			
			Water	0.7	0			
			Wells and Amsden Formations, Madison Limestone	0.4	3A			
			Blacksmith, Bancroft, and Ute Limestones	1.0	3A			
			Bloomington Formation (Cambrian siltstone/limestone)	0.2	5 [/]			
			Lead Bell Shale	0.7	3A			
			Nounan Limestone	0.5	5 [/]			
			St. Charles Limestone	1.9	3A			
			Twin Creek Limestone	5.2	3A ^{6/}			
			Nugget Sandstone	0.2	2 ^{8/}			
			Garden City Formation	1.9	3A			
			Swan Peak Quartzite	1.7	3A			
			Brigham Quartzite	6	3A			
			Bonneville and Alpine Formations	2.2	4A ^{9/}			
			Main Canyon Formation	1.1	5 [/]			
			Ankareh Formation	0.1	3 ^{12/}			
			Thaynes Limestone	1.9	5A ^{7/}			
			Timothy Sandstone	0.2	2			
			Salt Lake Formation	24.3	3A ^{6/}			
			Salt Lake and Starlight Formations, undifferentiated	3.0	4A ^{4/}			
			Paleontology Risk Factor				731.0	
				Proposed – Comparison portion for Alternatives 4B-4F	85.2	Quaternary undifferentiated (alluvium, colluvium, gravel, landslide)	13.2	3 ^{1/}
						Ankareh Formation, Thaynes Limestone, Woodside Shale, and Dinwoody Formation	0.6	3
Aspen Shale	1.7	3						
Bear River Formation	0.4	3						
Bridger Formation	21.5	5						
Dune sand and loess	1.8	2 ^{2/}						
Evanston Formation	1.5	3						
Fowkes Formation	0.9	3						
Frontier Formation	2.2	3						
Gannett Group	1.2	3						
Green River and Wasatch Formations	20.0	5						
Hilliard Shale	5.8	3						
Nugget Sandstone	1.3	2						
Phosphoria Formation	0.2	3						
Sage Junction, Quealy, Cokeville, Thomas Fork, and Smiths Formations	0.9	3						

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
4 (cont.)	Proposed – Comparison portion for Alternatives 4B-4F (cont.)	85.2	Salt Lake Formation	0.4	3
			Stump Formation, Preuss Sandstone or Redbeds, and Twin Creek Limestone	2.0	3
			Wasatch Formation	3.0	5
			Water	0.7	0
			Wells and Amsden Formations, Madison Limestone	0.4	3A
			Twin Creek Limestone	2.7	3A
			Salt Lake Formation	2.9	3A
			Paleontology Risk Factor	339.7	
	Alternative 4B	100.2	Adaville Formation	1.0	3
			Quaternary undifferentiated (alluvium, colluvium, gravel)	13.7	3 ^{1/}
			Ankareh Formation, Thaynes Limestone, Woodside Shale, and Dinwoody Formation	1.1	3
			Aspen Shale	0.7	3
			Bridger Formation	27.9	5
			Evanston Formation	4.1	3
			Fowkes Formation	2.0	3
			Frontier Formation	1.3	3
			Gannett Group	0.1	3
			Green River and Wasatch Formations	12.3	5
			Hilliard Shale	3.9	3
			Nugget Sandstone	2.6	3
			Salt Lake Formation	4.0	3
			Stump Fm., Preuss Redbeds, Twin Creek Limestone	0.8	3
			Wasatch Formation	17.4	5
			Twin Creek Limestone	4.0	3A
	Salt Lake Formation	3.2	3A		
	Paleontology Risk Factor	415.5			
	Alternative 4C	101.6	Adaville Formation	1.0	3
			Quaternary undifferentiated (alluvium, colluvium, gravel)	18.3	3 ^{1/}
			Ankareh Formation, Thaynes limestone, Woodside shale, and Dinwoody Formation	1.1	3
			Aspen Shale	0.7	3
			Bridger Formation	27.9	5
			Evanston Formation	2.7	3
			Fowkes Formation	1.9	3
			Frontier Formation	1.3	3
			Gannett Group	1.0	3
			Green River and Wasatch Formations	12.0	5
			Hilliard Shale	3.9	3
			Nugget Sandstone	1.9	3
			Sage Junction, Quely, Cokeville, Thomas Fork, and Smiths Formations	2.9	3
			Salt Lake Formation	1.9	3
			Stump Fm., Preuss Redbeds, Twin Creek Limestone	1.0	3
			Wasatch Formation	15.0	5
	Twin Creek Limestone	4.0	3A		
	Salt Lake Formation	3.2	3A		
Paleontology Risk Factor	414.9				
Alternative 4D	100.7	Adaville Formation	1.0	3	
		Quaternary undifferentiated (alluvium, colluvium, gravel)	13.7	3 ^{1/}	
		Aspen Shale	0.7	3	
		Bridger Formation	27.9	5	
		Evanston Formation	4.1	3	
		Fowkes Formation	2.0	3	
		Frontier Formation	1.3	3	
		Gannett group	0.1	3	
		Green River and Wasatch Formations	19.3	5	
		Hilliard Shale	3.9	3	
		Nugget Sandstone	2.3	3	
		Salt Lake Formation	4.0	3	

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
4 (cont.)	Alternative 4D (cont.)	100.7	Stump Fm., Preuss Redbeds, Twin Creek Limestone	0.8	3
			Wasatch Formation	12.4	5
			Twin Creek Limestone	4.0	3A
			Salt Lake Formation	3.2	3A
			Paleontology Risk Factor	421.3	
	Alternative 4E	102.2	Adaville Formation	1.0	3
			Quaternary undifferentiated (alluvium, colluvium, gravel)	18.3	3 ^{1/}
			Aspen Shale	0.7	3
			Bridger Formation	27.9	5
			Evanston Formation	2.7	3
			Fowkes Formation	1.9	3
			Frontier Formation	1.3	3
			Gannett Group	1.0	3
			Green River and Wasatch Formations	19.0	5
			Hilliard Shale	3.9	3
			Nugget Sandstone	1.7	3
			Sage Junction, Quealy, Cokeville, Thomas Fork, and Smiths Formations	2.9	3
			Salt Lake Formation	1.9	3
			Stump Fm., Preuss Redbeds, Twin Creek Limestone	1.0	3
			Wasatch Formation	9.9	5
	Twin Creek Limestone	4.0	3A		
	Salt Lake Formation	3.2	3A		
	Paleontology Risk Factor	420.5			
	Alternative 4F	87.5	Quaternary undifferentiated (alluvium, colluvium, gravel)	9.3	3 ^{1/}
			Ankareh Formation, Thaynes Limestone, Woodside Shale, and Dinwoody Formation	0.9	3
			Aspen Shale	1.7	3
			Bear River Formation	0.4	3
			Bridger Formation	21.5	5
			Dune sand and loess	1.8	2 ^{2/}
			Evanston Formation	0.4	3
			Fowkes Formation	0.6	3
			Frontier Formation	2.2	3
			Gannett Group	0.9	3
			Green River and Wasatch Formations	18.9	5
			Hilliard Shale	5.8	3
			Nugget Sandstone	0.9	3
			Phosphoria Formation	0.5	3
			Sage Junction, Quealy, Cokeville, Thomas Fork, and Smiths Formations	1.1	3
			Salt Lake Formation	0.4	3
			Stump Fm., Pruess Sandstone or Redbeds, and Twin Creek Limestone	1.6	3
			Wasatch Formation	12.0	5
	Wells and Amsden Formations	0.8	3		
Twin Creek Limestone	2.7	3A			
Salt Lake Formation	2.9	3A			
Paleontology Risk Factor	364.9				
Proposed – Comparison portion for Alternative 4G	2.4	Garden City Formation	1.0	3A	
		St. Charles Limestone	1.2	3A	
		Pleistocene surficial deposits	0.2	3A	
Paleontology Risk Factor	7.2				
Alternative 4G	2.6	Quaternary undifferentiated (alluvium, colluvium, gravel)	2.2	3A	
		Ankareh Formation, Thaynes Limestone, Woodside Shale, and Dinwoody Formation	0.3	3A	
		Aspen Shale	0.1	3A	
Paleontology Risk Factor	7.8				
5	Proposed – Total Length	55.7	Nounan Dolomite	0.2	5/
			St. Charles Limestone	0.5	3A
			Deep Creek Formation	1.4	5/
			Great Blue Limestone	1.0	5/
			Fish Haven Dolomite	1.4	3A
			Garden City Formation	2.8	3A
			Swan Peak Quartzite	2.1	3A
			PreCambrian undifferentiated	3.4	1
			Oquirrh Formation	10.2	5/
			Quaternary undifferentiated (alluvium, colluvium, terrace, dunes, loess)	22.4	3 ^{1/}
Sunbeam Formation	3.4	5/			

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
5 (cont.)	Proposed – Total Length (cont.)	55.7	Quaternary travertine	0.3	5/
			Salt Lake Formation	0.5	3A
			Starlight Formation	4.8	4A
			Starlight and Salt Lake Formations, undifferentiated	1.1	4A
			Paleontology Risk Factor	116.1	
	Proposed – Comparison portion for Alternatives 5A,B	22.3	Nounan Dolomite	0.2	5/
			St. Charles Limestone	0.5	3A
			Fish Haven Dolomite	1.4	3A
			Garden City Formation	2.8	3A
			Swan Peak Quartzite	1.9	3A
			Oquirrh Formation	7.2	5/
			Quaternary undifferentiated (alluvium, colluvium, terrace, dunes, loess)	6.3	3 ^{1/}
			Quaternary travertine	0.3	2
			Salt Lake Formation	0.5	3A
			Starlight and Salt Lake Formations, undifferentiated	1.1	4A ^{4/}
	Paleontology Risk Factor	45.2			
	Alternative 5A	29.7	Swan Peak Quartzite	0.7	3A
			Oquirrh Formation	0.2	5/
			Upper Paleozoic, undifferentiated	14.2	5/
			Quaternary undifferentiated (alluvium, colluvium)	11.4	3 ^{1/}
			Laketown Dolomite	1.0	3A
			Salt Lake Formation	2.2	3A
	Paleontology Risk Factor	45.9			
	Alternative 5B	40.4	Swan Peak Quartzite	0.7	3A
			Oquirrh Formation	7.2	5/
			Upper Paleozoic, undifferentiated	10.5	5/
			Quaternary undifferentiated (alluvium, colluvium, gravel, loess)	14.1	3 ^{1/}
			Laketown Dolomite	1.0	3A
			Salt Lake Formation	7.0	3A
	Paleontology Risk Factor	68.4			
	Proposed – Comparison portion for Alternative 5C	32.9	Nounan Dolomite	0.2	5/
			St. Charles Limestone	0.5	3A
Deep Creek Formation			1.4	5/	
Great Blue Limestone			1.0	5/	
Fish Haven Dolomite			0.9	3A	
Garden City Formation			0.8	3A	
Swan Peak Quartzite			1.5	3A	
Oquirrh Formation			10.2	5/	
Quaternary undifferentiated (alluvium, gravel, loess)			14.3	3 ^{1/}	
Quaternary travertine			0.3	5/	
Salt Lake Formation			0.5	3A	
Starlight Formation			0.1	4A	
Starlight and Salt Lake Formations, undifferentiated	1.1	4A ^{4/}			
Paleontology Risk Factor	59.7				
Alternative 5C	26.0	St. Charles Limestone	0.2	3A	
		Fish Haven Dolomite	0.8	3A	
		Garden City Formation	1.0	3A	
		Swan Peak Quartzite	1.4	3A	
		Quaternary undifferentiated (alluvium, gravel, loess)	19.3	3 ^{1/}	
		Starlight Formation	0.1	4A	
		Starlight and Salt Lake Formations, undifferentiated	3.2	4A ^{4/}	
Paleontology Risk Factor	81.3				
Proposed – Comparison portion for Alternative 5D	19.2	Deep Creek Formation	1.4	5/	
		Great Blue Limestone	1.0	5/	
		Oquirrh Formation	13.2	5/	
		Quaternary undifferentiated (alluvium, terrace deposits, dune sand, gravel, loess)	3.4	3 ^{1/}	
		Sunbeam Formation	0.1	5/	
		Starlight Formation	0.1	4A	
Paleontology Risk Factor	10.6				

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Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC	
5 (cont.)	Alternative 5D	17.0	Oquirrh Formation	0.1	5/	
			Quaternary undifferentiated (alluvium, terrace deposits, dune sand, gravel, loess)	16.3	3	
			Sunbeam Formation	0.6	5/	
	Paleontology Risk Factor				48.9	
	Proposed - Comparison portion for Alternative 5E	5.8	Quaternary undifferentiated (alluvium, terrace deposits, dune sand, gravel, loess)	2.4	3 ^{1/}	
			Sunbeam Formation	3.4	5/	
			Paleontology Risk Factor			
	Proposed - Comparison portion for Alternative 5E	5.3	Quaternary undifferentiated (alluvium, terrace deposits, dune sand, gravel, loess)	2.2	3 ^{1/}	
			Sunbeam Formation	3.0	5/	
Paleontology Risk Factor				6.6		
6	Proposed - Total Length	0.5	Quaternary dune sand	0.2	2	
			Wendell Grade Basalt	0.3	1	
			Paleontology Risk Factor			
7	Proposed - Total Length	118.2	Albion Range metamorphic rocks	2.9	1 ^{3/}	
			Dolomite of Cassia County	0.8	5/	
			Nounan Dolomite	0.5	5/	
			St. Charles Limestone	0.3	3A	
			Unknown quartzite	2.9	1 ^{3/}	
			Manning Canyon Shale	0.2	5/	
			Fish Haven Dolomite	1.7	3A	
			Garden City Formation	2.0	3A	
			Swan Peak Quartzite	3.8	3A	
			PreCambrian undifferentiated	2.7	1 ^{3/}	
			Permian Limestone	0.2	5/	
			Oquirrh Formation	10.5	5/	
			Snake River Basalt	12.4	1 ^{3/}	
			Quaternary undifferentiated (alluvial fan, gravel, loess)	60.2	3 ^{1/}	
			Basalt of Table Mountain	3.0	1 ^{3/}	
			Quaternary travertine	0.1	5/	
			Tertiary basalt	1.4	1 ^{3/}	
			Basalt of Table Mountain	0.1	1 ^{3/}	
			Idavada Volcanics	5.5	3A ^{11/}	
			Salt Lake Formation	1.1	3A	
			Starlight Formation	4.3	4A	
	Starlight and Salt Lake Formations, undifferentiated	1.1	4A ^{4/}			
	Rhyolitic lava	0.4	1 ^{3/}			
	Paleontology Risk Factor				271.2	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	Nounan Dolomite	0.5	5/	
			St. Charles Limestone	0.3	3A	
			Fish Haven Dolomite	1.7	3A	
			Garden City Formation	2.0	3A	
			Swan Peak Quartzite	3.8	3A	
			Oquirrh Formation	7.3	5/	
			Quaternary undifferentiated (alluvial fan, gravel, loes, travertines)	16.3	3 ^{1/}	
			Basalt of Table Mountain	0.1	1 ^{3/}	
			Salt Lake Formation	1.0	3A	
Starlight Formation			0.7	4A		
Starlight and Salt Lake Formations, undifferentiated			1.1	4A ^{4/}		
Paleontology Risk Factor				82.6		
Alternative 7A	37.7	Swan Peak Quartzite	0.4	3A		
		Oquirrh Formation	7.1	5/		
		Upper Paleozoic, undifferentiated	7.0	5/		
		Quaternary undifferentiated (alluvium ,gravel, loess)	18.3	3 ^{1/}		
		Laketown Dolomite	0.5	3A		
		Salt Lake Formation	2.4	3A		
		Starlight Formation	2.0	4A		
Paleontology Risk Factor				72.8		

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
7 (cont.)	Alternative 7B	46.2	Swan Peak Quartzite	0.4	3A
			Oquirrh Formation	6.1	5/
			Upper Paleozoic, undifferentiated	9.9	5/
			Quaternary undifferentiated (alluvium, gravel, loess)	20.1	3 ^{1/}
			Laketown Dolomite	0.5	3A
			Salt Lake Formation	7.2	3A
			Starlight Formation	2.0	4A
			Paleontology Risk Factor	92.6	
	Proposed – Comparison portion for Alternative 7C	20.1	Quaternary alluvium	9.0	3 ^{1/}
			Snake River Basalt	11.2	1 ^{3/}
	Paleontology Risk Factor	38.2			
	Alternative 7C	20.3	Oquirrh Formation	4.1	5/
			Quaternary alluvium	5.9	3 ^{1/}
			Snake River Basalt	10.3	1 ^{3/}
	Paleontology Risk Factor	28.0			
	Proposed – Comparison portion for Alternative 7D	6.2	Unknown quartzite	0.8	1 ^{3/}
			Quaternary alluvium	2.4	3 ^{1/}
			Snake River Basalt	1.2	1 ^{3/}
			Tertiary basalt	1.4	1 ^{3/}
			Rhyolitic lava	0.4	1 ^{3/}
	Paleontology Risk Factor	11.0			
	Alternative 7D	6.8	Unknown quartzite	0.8	1 ^{3/}
			Quaternary alluvium	4.3	3 ^{1/}
			Snake River Basalt	1.7	1 ^{3/}
	Paleontology Risk Factor	15.4			
	Proposed – Comparison portion for Alternative 7E	3.8	Albion Range metamorphic rocks	1.8	1 ^{3/}
			Unknown quartzite	0.5	1 ^{3/}
			Quaternary alluvium	1.5	3 ^{1/}
Paleontology Risk Factor	6.8				
Alternative 7E	4.5	Albion Range metamorphic rocks	3.2	1 ^{3/}	
		Unknown quartzite	0.6	1 ^{3/}	
		Quaternary alluvium	0.7	3 ^{1/}	
Paleontology Risk Factor	5.9				
Proposed – Comparison portion for Alternative 7F	10.5	Albion Range metamorphic rocks	2.9	1 ^{3/}	
		Dolomite of Cassia County	0.8	5/	
		Unknown quartzite	2.1	1 ^{3/}	
		Manning Canyon Shale	0.2	5/	
		Permian Limestone	0.2	5/	
		Quaternary alluvium	4.3	3 ^{1/}	
Paleontology Risk Factor	17.9				
Alternative 7F	10.8	Albion Range metamorphic rocks	1.2	1 ^{3/}	
		Dolomite of Cassia County	0.5	5/	
		Schist of Mahogany Peaks	0.6	1 ^{3/}	
		Dayley Creek quartzite	1.7	1 ^{3/}	
		Unknown quartzite	1.3	1 ^{3/}	
		Quaternary alluvium	5.5	3 ^{1/}	
Paleontology Risk Factor	20.5				
Proposed – Comparison portion for Alternative 7G	3.3	Idavada Volcanics	3.3	3A ^{11/}	
Paleontology Risk Factor	9.9				
Alternative 7G	3.4	Idavada Volcanics	3.4	3A ^{11/}	
Paleontology Risk Factor	10.2				

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
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PFYC - Potential Fossil Yield Classification
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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC	
7 (cont.)	Proposed – Comparison portion for Alternative 7K	118.2	Albion Range metamorphic rocks	2.9	1 ^{3/}	
			Dolomite of Cassia County	0.8	5/	
			Nounan Dolomite	0.5	5/	
			St. Charles Limestone	0.3	3A	
			Unknown quartzite	2.9	1 ^{3/}	
			Manning Canyon Shale	0.2	5/	
			Fish Haven Dolomite	1.7	3A	
			Garden City Formation	2.0	3A	
			Swan Peak Quartzite	3.8	3A	
			PreCambrian undifferentiated	2.7	1 ^{3/}	
			Permian Limestone	0.2	5/	
			Oquirrh Formation	10.5	5/	
			Snake River Basalt	12.4	1 ^{3/}	
			Quaternary undifferentiated (alluvial fan, gravel, loess)	60.2	3 ^{1/}	
			Basalt of Table Mountain	3.0	1 ^{3/}	
			Quaternary travertine	0.1	5/	
			Tertiary basalt	1.4	1 ^{3/}	
			Basalt of Table Mountain	0.1	1 ^{3/}	
	Idavada Volcanics	5.5	3A ^{11/}			
	Salt Lake Formation	1.1	3A			
	Starlight Formation	4.3	4A			
	Starlight and Salt Lake Formations, undifferentiated	1.1	4A ^{4/}			
	Rhyolitic lava	0.4	1 ^{3/}			
	Paleontology Risk Factor				271.2	
	Alternative 7K	148.1	Gneiss	2.0	1 ^{3/}	
			Unknown quartzite	1.2	1 ^{3/}	
			Pogonip Group - marble	0.4	1 ^{3/}	
			Swan Peak Quartzite	0.4	3A	
			PreCambrian undifferentiated	2.7	1 ^{3/}	
			Elba quartzite	3.7	1 ^{3/}	
			Oquirrh Formation	11.7	5/	
			Permian Limestone-includes Phosphoria Formation	0.4	5A	
			Upper Paleozoic, undifferentiated	9.9	5/	
			Quaternary undifferentiated (alluvium, gravel, loess)	71.2	3 ^{1/}	
			Laketown Dolomite	0.5	3A	
			Idavada Volcanics	11.8	3A ^{11/}	
			Salt Lake Formation	15.2	3A	
			Starlight Formation	5.5	4A	
Tertiary lava and tuffs			1.1	5/		
Goose Creek rhyolite ash flow tuffs	9.7	5/				
Rhyolitic lava	0.7	1 ^{3/}				
Paleontology Risk Factor				332.0		
8	Proposed – Total Length	131.5	Quaternary undifferentiated (alluvium, gravel, fluvial, landslide)	23.4	3 ^{1/}	
			Bruneau Formation - basalt	23.4	4A	
			Bonneville flood deposits	1.2	3A	
			Snake River Basalt	21.3	1 ^{3/}	
			Bruneau Formation lake sediments	5.6	4A	
			Quaternary dune sand	0.2	2 ^{2/}	
			McKinney Basalt	8.4	1 ^{3/}	
			Glenns Ferry Formation	20.6	5A	
			Thousand Springs basalt	4.2	1 ^{3/}	
			Idaho Group sediments (fluvial, lacustrine, eolian)	4.4	5/	
			Wendell Grade Basalt	15.0	1 ^{3/}	
			Banbury Basalt	0.9	1 ^{3/}	
			Basalt, undifferentiated	0.3	1 ^{3/}	
			Chalky Volcanic field	1.1	5A ^{10/}	
			Poison Creek/Chalk Hills, undifferentiated	1.5	5A	
			Water	0.2	0	
			Paleontology Risk Factor			

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PFYC - Potential Fossil Yield Classification

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
8 (cont.)	Proposed – Comparison portion for Alternative 8A	51.9	Quaternary undifferentiated (alluvium, landslide)	3.2	3 ^{1/}
			Bruneau Formation - basalt	3.2	1 ^{3/}
			Bruneau Formation lake sediments	1.9	4A
			McKinney Basalt	8.4	1 ^{3/}
			Glenns Ferry Formation	15.3	5A
			Thousand Springs basalt	4.2	1 ^{3/}
			Wendell Grade Basalt	15.0	1 ^{3/}
			Banbury Basalt	0.9	1 ^{3/}
			Paleontology Risk Factor	135.0	
	Alternative 8A	53.6	Quaternary undifferentiated (alluvium, landslide)	2.7	3 ^{1/}
			Bruneau Formation - basalt	1.8	4A
			Bruneau Formation lake sediments	4.0	4A
			Bonneville flood deposits-Melon Gravel	0.9	3A
			Idaho Group-Black Mesa Gravel	4.0	3A
			Tuana Gravel	5.8	3A
			Glenns Ferry Formation	11.3	5A
			Thousand Springs basalt	3.0	1 ^{3/}
			Wendell Grade Basalt	20.1	1 ^{3/}
	Paleontology Risk Factor	143.0			
	Proposed – Comparison portion for Alternative 8B	45.3	Quaternary undifferentiated (alluvium, gravel, fluvial)	10.3	3 ^{1/}
			Bonneville flood deposits	1.2	3A
			Snake River Basalt	21.3	1 ^{3/}
			Quaternary dune sand	0.2	2 ^{2/}
			Glenns Ferry Formation	4.8	5A
Idaho Group sediments (fluvial, lacustrine, eolian)			4.4	5 [/]	
Basalt, undifferentiated			0.3	1 ^{3/}	
Chalky Volcanic field			1.1	5A ^{10/}	
Poison Creek/Chalk Hills, undifferentiated			1.5	5A	
Water	0.2	0			
Paleontology Risk Factor	93.5				
Alternative 8B	45.8	Quaternary undifferentiated (alluvium, gravel, fluvial)	11.4	3 ^{1/}	
		Bonneville flood deposits	2.6	3A	
		Snake River Basalt	8.4	1 ^{3/}	
		Glenns Ferry Formation	5.5	5A	
		Idaho Group sediments (fluvial, lacustrine, eolian)	17.0	5 [/]	
		Poison Creek/Chalk Hills, undifferentiated	0.8	5A	
Paleontology Risk Factor	81.9				
Proposed – Comparison portion for Alternative 8C	6.5	Quaternary undifferentiated (alluvium, gravel, fluvial)	6.2	3 ^{1/}	
		Idaho Group sediments (fluvial, lacustrine, eolian)	0.3	5 [/]	
Paleontology Risk Factor	18.6				
Alternative 8C	6.4	Quaternary undifferentiated (alluvium, gravel, fluvial)	6.2	3 ^{1/}	
		Idaho Group sediments (fluvial, lacustrine, eolian)	0.2	5 [/]	
Paleontology Risk Factor	18.6				
Proposed – Comparison portion for Alternative 8D	6.9	Snake River Basalt	6.9	1 ^{3/}	
		Paleontology Risk Factor	6.9		
Alternative 8D	8.1	Quaternary alluvium	0.3	3 ^{1/}	
		Snake River Basalt	7.0	1 ^{3/}	
		Idaho Group sediments (fluvial, lacustrine, eolian)	0.8	5 [/]	
		Paleontology Risk Factor	7.9		
Proposed – Comparison portion for Alternative 8E	7.0	Bonneville flood deposits	1.2	3A	
		Quaternary dune sand	0.2	2 ^{2/}	
		Snake River Basalt	3.9	1 ^{3/}	
		Glenns Ferry Formation	1.3	5A	
		Basalt, undifferentiated	0.1	1 ^{3/}	
		Water	0.2	0	
Paleontology Risk Factor	14.5				
Alternative 8E	18.3	Snake River Basalt	17.1	1 ^{3/}	
		Quaternary landslide	0.2	3 ^{1/}	
		Glenns Ferry Formation	0.9	5A	
		Water	0.1	0	
Paleontology Risk Factor	22.2				

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
9	Proposed - Total Length	162.2	Quaternary alluvium	15.4	3 ^{1/}
			Bruneau Formation-basalt	0.3	4A
			Bruneau Formation lake sediments	23.2	4A
			Quaternary Crowsnest Gravels	0.6	3 ^{1/}
			Idaho Group-Black Mesa Gravel	5.5	3A
			Bruneau Formation	3.0	4A
			Tuana Gravel	9.7	3A
			Glenns Ferry Formation	43.7	5A
			Banbury Basalt	30.6	1 ^{3/}
			Chalk Hills Formation	0.7	5A
			Chalky Volcanic field	0.6	5A ^{10/}
			Idavada Volcanics	14.3	3A ^{11/}
			Snake River Basalt	8.2	1 ^{3/}
			Poison Creek/Chalk Hills, undifferentiated	6.1	5A
	Snake River Rhyolite	0.4	1 ^{3/}		
	Paleontology Risk Factor			537.2	
	Proposed – Comparison portion for Alternative 9A	7.8	Glenns Ferry Formation	4.2	5A
			Banbury Basalt	3.6	1 ^{3/}
			Paleontology Risk Factor		
	Alternative 9A	7.7	Quaternary alluvium	0.7	3 ^{1/}
			Glenns Ferry Formation	2.6	5A
			Banbury Basalt	3.0	1 ^{3/}
			Idavada Volcanics	1.4	3A ^{11/}
	Paleontology Risk Factor			22.3	
	Proposed – Comparison portion for Alternative 9B	49.1	Quaternary alluvium	0.1	3 ^{1/}
			Bruneau Formation lake sediments	7.4	4A
			Idaho Group-Black Mesa Gravel	5.5	3A
			Tuana Gravel	8.7	3A
			Glenns Ferry Formation	9.1	5A
			Banbury Basalt	8.9	1 ^{3/}
			Idavada Volcanics	9.4	3A ^{11/}
	Paleontology Risk Factor			155.1	
Alternative 9B	52.3	Quaternary alluvium	1.6	3 ^{1/}	
		Bruneau Formation - basalt	0.1	4A	
		Bruneau Formation lake sediments	8.1	4A	
		Idaho Group-Black Mesa Gravel	6.1	3A	
		Tuana Gravel	9.4	3A	
		Glenns Ferry Formation	16.0	5A	
		Banbury Basalt	7.8	1 ^{3/}	
		Idavada Volcanics	3.3	3A ^{11/}	
Paleontology Risk Factor			181.8		
Proposed – Comparison portion for Alternative 9C	14.4	Quaternary alluvium	0.1	3 ^{1/}	
		Banbury Basalt	7.4	1 ^{3/}	
		Idavada Volcanics	6.9	3A ^{11/}	
Paleontology Risk Factor			28.4		
Alternative 9C	14.4	Tuana Gravel	0.2	3A	
		Glenns Ferry Formation	0.2	5A	
		Banbury Basalt	7.2	1 ^{3/}	
		Idavada Volcanics	6.8	3A ^{11/}	
Paleontology Risk Factor			29.2		
Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	Quaternary alluvium	12.3	3 ^{1/}	
		Bruneau Formation lake sediments	10.0	4A	
		Bruneau Formation	3.0	4A	
		Glenns Ferry Formation	24.5	5A	
		Chalk Hills Formation	0.7	5A	
		Snake River Basalt	4.2	1 ^{3/}	
		Poison Creek/Chalk Hills, undifferentiated	2.4	5A	
Paleontology Risk Factor			231.1		

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC	
9 (cont.)	Alternative 9D	60.2	Quaternary alluvium	2.1	3 ^{1/}	
			Bruneau Formation - basalt	2.9	4A	
			Snake River Basalt	16.2	1 ^{3/}	
			Bruneau Formation lake sediments	16.0	4A	
			Bonneville flood deposits-Melon Gravel	0.2	3A	
			Glenns Ferry Formation	21.7	5A	
			Poison Creek/Chalk Hills, undifferentiated	0.9	5A	
			Water	0.1	0	
				Paleontology Risk Factor	211.7	
	Alternative 9F	63.3	Quaternary alluvium	3.3	3 ^{1/}	
			Bruneau Formation - Basalt	1.7	4A	
			Snake River Basalt	16.2	1 ^{3/}	
			Bruneau Formation lake sediments	13.7	4A	
			Bonneville flood deposits-Melon Gravel	0.2	3A	
			Bruneau Formation	0.8	4A	
			Glenns Ferry Formation	26.4	5A	
			Poison Creek/Chalk Hills, undifferentiated	0.9	5A	
	Water	0.1	0			
				Paleontology Risk Factor	228.0	
	Alternative 9G	57.8	Quaternary alluvium	1.9	3 ^{1/}	
			Bruneau Formation - Basalt	2.9	4A	
			Snake River Basalt	16.2	1 ^{3/}	
			Bruneau Formation lake sediments	16.0	4A	
			Bonneville flood deposits-Melon Gravel	0.2	3A	
			Glenns Ferry Formation	20.1	5A	
			Poison Creek/Chalk Hills, undifferentiated	0.4	5A	
			Water	0.1	0	
				Paleontology Risk Factor	200.6	
Alternative 9H	61.0	Quaternary alluvium	3.1	3 ^{1/}		
		Bruneau Formation - Basalt	1.7	4A		
		Snake River Basalt	16.2	1 ^{3/}		
		Bruneau Formation lake sediments	13.7	4A		
		Bonneville flood deposits-Melon Gravel	0.2	3A		
		Bruneau Formation	0.8	4A		
		Glenns Ferry Formation	24.8	4A		
		Poison Creek/Chalk Hills, undifferentiated	0.4	5A		
Water	0.1	0				
			Paleontology Risk Factor	216.9		

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Table D.13-1. Paleontology Risk Factors for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (miles)	Formation Name	Miles Crossed	PFYC
9 (cont.)	Proposed - Comparison portion for Alternative 9E (revised)	61.4	Quaternary alluvium	12.3	3 ^{1/}
			Bruneau Formation lake sediments	10.0	4A
			Bruneau Formation	3.0	4A
			Glenns Ferry Formation	24.5	5A
			Chalk Hills Formation	0.7	5A
			Snake River Basalt	8.2	1 ^{3/}
			Poison Creek/Chalk Hills, undifferentiated	2.8	5A
			Paleontology Risk Factor	237.1	
	Alternative 9E (revised)	70.6	Quaternary alluvium	8.2	3 ^{1/}
			Bruneau Formation lake sediments	1.7	4A
			Idaho Group-Black Mesa Gravel	4.3	3A
			Glenns Ferry Formation	20.1	5A
			Banbury Basalt	1.8	1 ^{3/}
			Chalk Hills Formation	9.2	5A
			Idavada Volcanics	5.0	3A ^{11/}
			Snake River Basalt	8.0	1 ^{3/}
Poison Creek/Chalk Hills, undifferentiated	12.4	5A			
Paleontology Risk Factor	277.6				
10	Proposed – Total Length	34.4	Quaternary alluvium	1.5	3 ^{1/}
			Snake River Basalt	16.4	1 ^{3/}
			Hansen Butte basalt	8.5	1 ^{3/}
			Hazelton Butte basalt	0.5	1 ^{3/}
			Skeleton Butte basalt	4.2	1 ^{3/}
			Thousand Springs basalt	0.1	1 ^{3/}
			Wendell Grade Basalt	2.9	1 ^{3/}
			Idavada Volcanics	0.3	3A ^{11/}
Paleontology Risk Factor	38.0				

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Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
PFYC - Potential Fossil Yield Classification

^{1/} Quaternary sediments (alluvium, gravel, loess, landslides) were designated PFYC Class 3. They may have fit Class 2 (less than 10,000 years old). Idaho classes unconsolidated Pleistocene deposits as Class 3A.

^{2/} Quaternary dune sand designated as PFYC Class 2 -which includes recent aeolian deposits.

^{3/} igneous, metamorphic, and PreCambrian rocks classified as PFYC Class 1-unless given a different formation-specific definition in Wyoming or Idaho.

^{4/} Where multiple formations were grouped, the highest single PFYC Class was used for the entire group.

^{5/} PFYC rankings for this formation were not designated in Wyoming or Idaho PFYC codes, and not readily defined by PFYC criteria (BLM, IM 2008-009).

^{6/} Salt Lake Formation and Twin Creek Limestone classed as Class 3 in Wyoming and Class 3A in Idaho.

^{7/} Thaynes Limestone and Phosphoria Formation classed as Class 3 in Wyoming and Class 5A in Idaho.

^{8/} Nugget Sandstone classed as Class 3 in Wyoming and Class 2 in Idaho.

^{9/} Bonneville flood deposits classed as Class 4A in Idaho Falls, Idaho district and Class 3A in Twin Falls district. Melon Gravel is classed as Class 3A in Boise district.

^{10/} The Chalky Point locality was discussed in the Chalk Hills formation in Idaho PFYC literature. It is unknown if the Chalky volcanics is the same as Chalky Point. However, given similar nomenclature and proximity to Chalk Hills, the Chalky volcanics were assumed as Class 5A.

^{11/} USGS includes the Idavada Volcanics as part of the Challis Volcanic Group, which is classed as Class 3A.

^{12/} The Ankareh Formation is not mentioned in Idaho classifications, but classed as Class 3 in Wyoming.

Table D.14-1. OPS Earthquake Hazard for Proposed and Alternative Routes

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Earthquake Zone Rank		
			Low < 70	Medium 70 to 84	High 85 to 100
1W	1W(a) Proposed – Total Length	73.8	73.8		
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	16.5		
	Alternative 1W(a)-B	20.9	20.9		
	1W(c) Proposed – Total Length	73.6	73.6		
2	Proposed – Total Length	91.9	91.9		
	Proposed – Compare to Alternative 2A	16.8	16.8		
	Alternative 2A	16.0	16.0		
	Proposed – Compare to Alternative 2B	12.5	12.5		
	Alternative 2B	12.2	12.2		
3	Segment 3 Proposed – Total Length	45.9	45.9		
	Segment 3A Proposed – Total Length	5.1	5.1		
4 ^{1/}	Proposed – Total Length	197.6	89.6	16.5	91.5
	Proposed – Compare to Alternatives 4B-4F	85.2	38.0	16.5	30.6
	Alternative 4B	100.2	38.8	18.3	43.2
	Alternative 4C	101.6	38.8	18.3	44.6
	Alternative 4D	100.8	38.8	18.4	43.6
	Alternative 4E	102.2	38.8	18.4	45.0
	Alternative 4F	87.5	38.0	16.7	32.8
5	Proposed – Total Length	55.7		10.0	45.6
	Proposed – Compare to Alternatives 5A,B	22.3			22.3
	Alternative 5A	29.7			29.7
	Alternative 5B	40.4			40.4
	Proposed – Compare to Alternative 5C	32.9		4.3	28.6
	Alternative 5C	26.0		2.9	23.1
	Proposed – Compare to Alternative 5D	19.2		10.0	9.2
	Alternative 5D	17.0		7.7	9.3
	Proposed – Compare to Alternative 5E	5.8		5.8	
Alternative 5E	5.3		5.3		
6	Proposed – Total Length	0.5	0.3	0.2	

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 Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-1. OPS Earthquake Hazard for Proposed and Alternative Routes cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Earthquake Zone Rank		
			Low < 70	Medium 70 to 84	High 85 to 100
7	Proposed – Total Length	118.2	41.2	31.2	45.7
	Proposed – Compare to Alternatives 7A,B	35.1		1.0	34.1
	Alternative 7A	37.7		0.9	36.8
	Alternative 7B	46.2		0.9	45.3
	Proposed – Compare to Alternative 7C	20.1		20.1	
	Alternative 7C	20.3		20.3	
	Proposed – Compare to Alternative 7D	6.2	1.3	4.9	
	Alternative 7D	6.8	2.1	4.7	
	Proposed – Compare to Alternative 7E	3.8	3.8		
	Alternative 7E	4.5	4.5		
	Proposed – Compare to Alternative 7F	10.5	10.5		
	Alternative 7F	10.8	10.0	0.8	
	Proposed – Compare to Alternative 7G	3.3	3.3		
	Alternative 7G	3.4	3.4		
	Proposed – Comparison portion for Alternative 7K	118.2	41.2	31.2	45.7
Alternative 7K	148.1	31.9	30.9	85.2	
8	Proposed – Total Length	131.5	131.5		
	Proposed – Compare to Alternative 8A	51.9	51.9		
	Alternative 8A	53.6	53.6		
	Proposed – Compare to Alternative 8B	45.3	45.3		
	Alternative 8B	45.8	45.8		
	Alternative 8B – Compare to Alternative 8C	6.5	6.5		
	Alternative 8C	6.4	6.4		
	Proposed – Compare to Alternative 8D	6.9	6.9		
	Alternative 8D	8.1	8.1		
	Proposed – Compare to Alternative 8E	7.0	7.0		
	Alternative 8E	18.3	18.3		
	9	Proposed – Total Length	162.2	162.2	
Proposed – Compare to Alternative 9A		7.8	7.8		
Alternative 9A		7.7	7.7		
Proposed – Compare to Alternative 9B		49.1	49.1		
Alternative 9B		52.3	52.3		
Proposed – Compare to Alternative 9C		14.4	14.4		
Alternative 9C		14.4	14.4		
Proposed – Compare to Alternative 9D,F,G,H		57.2	57.2		
Alternative 9D		60.1	60.1		
Alternative 9F		63.3	63.3		
Alternative 9G		57.8	57.8		
Alternative 9H		61.0	61.0		
Proposed – Compare to Alternative 9E (revised)		61.4	61.4		
Alternative 9E (revised)	70.6	70.6			
10	Proposed – Total Length	34.4	34.4		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

Table D.14-2. Affected Miles by Earthquake Magnitude Buffers

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffered Mileage		
			Magnitude 0.1 to 6	Magnitude 6.0 to 6.9	Magnitude >7
1W	1W(a) Proposed – Total Length	73.8	53.4		
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	16.5		
	Alternative 1W(a)-B	20.9	20.9		
	1W(c) Proposed – Total Length	73.6	49.7		
2	Proposed – Total Length	91.9	85.7		
	Proposed – Comparison portion for Alternative 2A	16.8	16.8		
	Alternative 2A	16.0	16.0		
	Proposed – Comparison portion for Alternative 2B	12.5	12.5		
	Alternative 2B	12.2	12.2		
3	Segment 3 Proposed – Total Length	45.9	30.0		
	Segment 3A Proposed – Total Length	5.1	5.1		
4 ^{1/}	Proposed – Total Length	197.6	166.1	24.4	
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	66.4		
	Alternative 4B	100.2	82.2		
	Alternative 4C	101.6	79.5		
	Alternative 4D	100.8	82.8		
	Alternative 4E	102.2	80.1		
	Alternative 4F	87.5	64.9		
5	Proposed – Total Length	55.7	7.3	49.0	4.5
	Proposed – Comparison portion for Alternatives 5A,B	22.3		22.3	
	Alternative 5A	29.7		29.7	
	Alternative 5B	40.4	9.9	40.4	
	Proposed – Comparison portion for Alternative 5C	32.9		32.0	
	Alternative 5C	26.0		24.8	
	Proposed – Comparison portion for Alternative 5D	19.2		12.5	4.5
	Alternative 5D	17.0		13.0	3.1
	Proposed – Comparison portion for Alternative 5E	5.8			4.5
Alternative 5E	5.3			4.3	
6	Proposed – Total Length	0.5	0.3		0.5

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-2. Affected Miles by Earthquake Magnitude Buffers cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffered Mileage		
			Magnitude 0.1 to 6	Magnitude 6.0 to 6.9	Magnitude >7
7	Proposed – Total Length	118.2	6.8	58.9	4.9
	Proposed – Comparison portion for Alternatives 7A,B	35.1		35.1	
	Alternative 7A	37.7		37.7	
	Alternative 7B	46.2	11.1	46.2	
	Proposed – Comparison portion for Alternative 7C	20.1		7.0	4.9
	Alternative 7C	20.3		10.4	
	Proposed – Comparison portion for Alternative 7D	6.2			
	Alternative 7D	6.8			
	Proposed – Comparison portion for Alternative 7E	3.8			
	Alternative 7E	4.5			
	Proposed – Comparison portion for Alternative 7F	10.5			
	Alternative 7F	10.8			
	Proposed – Comparison portion for Alternative 7G	3.3			
	Alternative 7G	3.4			
	Proposed – Comparison portion for Alternative 7K	118.2	6.8	58.9	4.9
Alternative 7K	148.1	70.7	89.2		
8	Proposed – Total Length	131.5	27.4		65.9
	Proposed – Comparison portion for Alternative 8A	51.9	27.4		51.9
	Alternative 8A	53.6	25.8		53.6
	Proposed – Comparison portion for Alternative 8B	45.3			
	Alternative 8B	45.8			
	Alternative 8B – Comparison portion for Alternative 8C	6.5			
	Alternative 8C	6.4			
	Proposed – Comparison portion for Alternative 8D	6.9			
	Alternative 8D	8.1			
	Proposed – Comparison portion for Alternative 8E	7.0			
Alternative 8E	18.3				
9	Proposed – Total Length	162.2			
	Proposed – Comparison portion for Alternative 9A	7.8			
	Alternative 9A	7.7			
	Proposed – Comparison portion for Alternative 9B	49.1			
	Alternative 9B	52.3			21.6
	Proposed – Comparison portion for Alternative 9C	14.4			
	Alternative 9C	14.4			
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2			
	Alternative 9D	60.1			
	Alternative 9F	63.3			
	Alternative 9G	57.8			
	Alternative 9H	61.0			
	Proposed – Comparison portion for Alternative 9E (revised)	61.4			
Alternative 9E (revised)	70.6				
10	Proposed – Total Length	34.4	14.0		26.6

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

Table D.14-3. Miles of Landslide Hazard Ranking Crossed by Alternative

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffered Mileage		
			Low Risk <70	Medium Risk 70-84	High Risk 85-100
1W	1W(a) Proposed – Total Length	73.8	69.5		4.3
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	16.5		
	Alternative 1W(a)-B	20.9	20.9		
	1W(c) Proposed – Total Length	73.6	69.9		3.7
2	Proposed – Total Length	91.9	91.9		
	Proposed – Compare to Alternative 2A	16.8	16.8		
	Alternative 2A	16.0	16.0		
	Proposed – Compare to Alternative 2B	12.5	12.5		
	Alternative 2B	12.2	12.2		
3	Segment 3 Proposed – Total Length	45.9	34.6	11.4	
	Segment 3A Proposed – Total Length	5.1		5.1	
4 ^{1/}	Proposed – Total Length	197.6	143.9	13.9	39.8
	Proposed – Compare to Alternatives 4B-4F	85.2	43.9	3.0	38.2
	Alternative 4B	100.2	50.1	5.0	45.1
	Alternative 4C	101.6	46.5	16.7	38.4
	Alternative 4D	100.8	50.1	5.0	45.7
	Alternative 4E	102.2	46.5	16.7	39.0
	Alternative 4F	87.5	43.9	2.4	41.2
5	Proposed – Total Length	55.7	55.7		
	Proposed – Compare to Alternatives 5A,B	22.3	22.3		
	Alternative 5A	29.7	29.7		
	Alternative 5B	40.4	40.4		
	Proposed – Compare to Alternative 5C	32.9	32.9		
	Alternative 5C	26.0	26.0		
	Proposed – Compare to Alternative 5D	19.2	19.2		
	Alternative 5D	17.0	17.0		
	Proposed – Compare to Alternative 5E	5.8	5.8		
Alternative 5E	5.3	5.3			
6	Proposed – Total Length	0.5	0.5		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-3. Miles of Landslide Hazard Ranking Crossed by Alternative cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Buffered Mileage		
			Low Risk <70	Medium Risk 70-84	High Risk 85-100
7	Proposed – Total Length	118.2	118.2		
	Proposed – Compare to Alternatives 7A,B	35.1	35.1		
	Alternative 7A	37.7	37.7		
	Alternative 7B	46.2	46.2		
	Proposed – Compare to Alternative 7C	20.1	20.1		
	Alternative 7C	20.3	20.3		
	Proposed – Compare to Alternative 7D	6.2	6.2		
	Alternative 7D	6.8	6.8		
	Proposed – Compare to Alternative 7E	3.8	3.8		
	Alternative 7E	4.5	4.5		
	Proposed – Compare to Alternative 7F	10.5	10.5		
	Alternative 7F	10.8	10.8		
	Proposed – Compare to Alternative 7G	3.3	3.3		
	Alternative 7G	3.4	3.4		
Proposed – Comparison portion for Alternative 7K	118.2	118.2			
Alternative 7K	148.1	148.1			
8	Proposed – Total Length	131.5	124.3	7.2	
	Proposed – Compare to Alternative 8A	51.9	47.1	4.8	
	Alternative 8A	53.6	53.6		
	Proposed – Compare to Alternative 8B	45.3	42.9	2.4	
	Alternative 8B	45.8	42.3	3.4	
	Alternative 8B – Compare to Alternative 8C	6.5	6.5		
	Alternative 8C	6.4	6.4		
		6.9			
	Alternative 8D	8.1	8.1		
	Proposed – Compare to Alternative 8E	7.0	4.6	2.4	
Alternative 8E	18.3	18.3			
9	Proposed – Total Length	162.2	162.2		
	Proposed – Compare to Alternative 9A	7.8	7.8		
	Alternative 9A	7.7	7.7		
	Proposed – Compare to Alternative 9B	49.1	49.1		
	Alternative 9B	52.3	52.3		
	Proposed – Compare to Alternative 9C	14.4	14.4		
	Alternative 9C	14.4	14.4		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	57.2		
	Alternative 9D	60.1	60.1		
	Alternative 9F	63.3	63.3		
	Alternative 9G	57.8	57.8		
	Alternative 9H	61.0	61.0		
Proposed – Compare to Alternative 9E (revised)	61.4	61.4			
Alternative 9E (revised)	70.6	70.6			
10	Seg 10 Proposed – Total Length	34.4	34.4		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

Table D.14-4. Acres of Construction Disturbance within Subsidence Areas

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Total Disturbance Acreage	Mineral				Total Subsidence Potential Area ^{1/}
				Coal	Oil and Gas	Trona	Abandoned Underground Mines	
1W	1W(a) Proposed – Total Length	73.8	775		43		9	43
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	148		7		3	7
	Alternative 1W(a)-B	20.9	271		34		18	38
	1W(c) Proposed – Total Length	73.6	956		60		10	64
2	Proposed – Total Length	91.9	1,778	73	677		28	694
	Proposed – Comparison portion for Alternative 2A	16.8	309		110			110
	Alternative 2A	16.0	355		153		12	165
	Proposed – Comparison portion for Alternative 2B	12.5	237		93			93
3	Alternative 2B	12.2	209		68			68
	Segment 3 Proposed – Total Length	45.9	832	22	362			362
4 ^{2/}	Segment 3A Proposed – Total Length	5.1	60	8	19			19
	Proposed – Total Length	197.6	3,892	24	890	96	37	971
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	1,711		608	19	37	650
	Alternative 4B	100.2	2,080	15	779	93	73	905
	Alternative 4C	101.6	2,070	15	696	93	55	804
	Alternative 4D	100.8	2,107	15	824	94	73	951
	Alternative 4E	102.2	2,078	15	735	94	55	844
5	Alternative 4F	87.5	1,726		568	19	25	598
	Proposed-Total Length	55.7	1,179					
	Proposed – Comparison portion for Alternatives 5A,B	22.3	461					
	Alternative 5A	29.7	644					
	Alternative 5B	40.4	842					
	Proposed – Comparison portion for Alternative 5C	32.9	731					
	Alternative 5C	26.0	509					
	Proposed – Comparison portion for Alternative 5D	19.2	484					
6	Alternative 5D	17.0	416					
	Proposed – Comparison portion for Alternative 5E	5.8	174					
	Alternative 5E	5.3	165					
6	Proposed-Total Length	0.5	65					

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

^{1/} The Total Subsidence Potential Area is a GIS analysis of the dissolved area of all four categories. If categories overlap, the total area may be less than the sum of the categories.

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-4. Acres of Construction Disturbance within Subsidence Areas cont.

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Total Disturbance Acreage	Mineral				Total Subsidence Potential Area
				Coal	Oil and Gas	Trona	Abandoned Underground Mines	
7	Proposed-Total Length	118.2	2,252					
	Proposed – Comparison portion for Alternatives 7A,B	35.1	652					
	Alternative 7A	37.7	774					
	Alternative 7B	46.2	920					
	Proposed – Comparison portion for Alternative 7C	20.1	372					
	Alternative 7C	20.3	362					
	Proposed – Comparison portion for Alternative 7D	6.2	132					
	Alternative 7D	6.8	153					
	Proposed – Comparison portion for Alternative 7E	3.8	72					
	Alternative 7E	4.5	96					
	Proposed – Comparison portion for Alternative 7F	10.5	225					
	Alternative 7F	10.8	213					
	Proposed – Comparison portion for Alternative 7G	3.3	64					
	Alternative 7G	3.4	87					
	Proposed – Comparison portion for Alternative 7K	118.2	2,249					
Alternative 7K	148.1	2,859						
8	Proposed – Total Length	131.5	2,518					
	Proposed – Comparison portion for Alternative 8A	51.9	963					
	Alternative 8A	53.6	978					
	Proposed – Comparison portion for Alternative 8B	45.3	899					
	Alternative 8B	45.8	916					
	Proposed – Comparison portion for Alternative 8C	6.5	163					
	Alternative 8C	6.4	140					
	Proposed – Comparison portion for Alternative 8D	6.9	147					
	Alternative 8D	8.1	174					
	Proposed – Comparison portion for Alternative 8E	7.0	124					
Alternative 8E	18.3	334						
9	Proposed – Total Length	162.2	3,293					
	Proposed – Comparison portion for Alternative 9A	7.8	147					
	Alternative 9A	7.7	162					
	Proposed – Comparison portion for Alternative 9B	49.1	1,037					
	Alternative 9B	52.3	965					
	Proposed – Comparison portion for Alternative 9C	14.4	304					
	Alternative 9C	14.4	320					
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	1,145					
	Alternative 9D	60.1	1,046					
	Alternative 9F	63.3	1,165					
	Alternative 9G	57.8	1,058					
	Alternative 9H	61.0	1,162					
	Proposed – Comparison portion for Alternative 9E (revised)	61.4	1,230					
Alternative 9E (revised)	70.6	1,289						
10	Proposed – Total Length	34.4	670					

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The Total Subsidence Potential Area is a GIS analysis of the dissolved area of all four categories. If categories overlap, the total area may be less than the sum of the categories.

Table D.14-5. Acres of Operations Disturbance within Subsidence Areas

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Total Disturbance Acreage	Mineral				Total Subsidence Potential Area ^{1/}
				Coal	Oil and Gas	Trona	Abandoned Underground Mines	
1W	1W(a) Proposed – Total Length	73.8	177		13		5	13
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	27		1		0	1
	Alternative 1W(a)-B	20.9	44		4		2	5
	1W(c) Proposed – Total Length	73.6	124		12			12
2	Proposed – Total Length	91.9	245	9	78		6	82
	Proposed – Comparison portion for Alternative 2A	16.8	28		11			11
	Alternative 2A	16.0	40		19		1	21
	Proposed – Comparison portion for Alternative 2B	12.5	21		8			8
	Alternative 2B	12.2	17		8			8
3	Segment 3 Proposed – Total Length	45.9	140	3	46			46
	Segment 3A Proposed – Total Length	5.1	12	1	4			4
4 ^{2/}	Proposed – Total Length	197.6	530	3	115	9	6	126
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	213		81	2	6	87
	Alternative 4B	100.2	273	2	109	12	9	125
	Alternative 4C	101.6	265	2	94	12	7	107
	Alternative 4D	100.8	280	2	118	12	9	134
	Alternative 4E	102.2	269	2	101	12	7	114
	Alternative 4F	87.5	214		80	2	3	83
5	Proposed-Total Length	55.7	169					
	Proposed – Comparison portion for Alternatives 5A,B	22.3	58					
	Alternative 5A	29.7	80					
	Alternative 5B	40.4	82					
	Proposed – Comparison portion for Alternative 5C	32.9	94					
	Alternative 5C	26.0	56					
	Proposed – Comparison portion for Alternative 5D	19.2	63					
	Alternative 5D	17.0	53					
	Proposed – Comparison portion for Alternative 5E	5.8	24					
Alternative 5E	5.3	24						
6	Proposed-Total Length	0.5	61					

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The Total Subsidence Potential Area is a GIS analysis of the dissolved area of all four categories. If categories overlap, the total area may be less than the sum of the categories.

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-5. Acres of Operations Disturbance within Subsidence Areas cont.

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Total Disturbance Acreage	Mineral				Total Subsidence Potential Area
				Coal	Oil and Gas	Trona	Abandoned Underground Mines	
7	Proposed-Total Length	118.2	265					
	Proposed – Comparison portion for Alternatives 7A,B	35.1	71					
	Alternative 7A	37.7	93					
	Alternative 7B	46.2	96					
	Proposed – Comparison portion for Alternative 7C	20.1	36					
	Alternative 7C	20.3	28					
	Proposed – Comparison portion for Alternative 7D	6.2	11					
	Alternative 7D	6.8	13					
	Proposed – Comparison portion for Alternative 7E	3.8	5					
	Alternative 7E	4.5	9					
	Proposed – Comparison portion for Alternative 7F	10.5	23					
	Alternative 7F	10.8	23					
	Proposed – Comparison portion for Alternative 7G	3.3	6					
	Alternative 7G	3.4	6					
	Proposed – Comparison portion for Alternative 7K	118.2	264					
Alternative 7K	148.1	382						
8	Proposed – Total Length	131.5	249					
	Proposed – Comparison portion for Alternative 8A	51.9	102					
	Alternative 8A	53.6	103					
	Proposed – Comparison portion for Alternative 8B	45.3	87					
	Alternative 8B	45.8	69					
	Proposed – Comparison portion for Alternative 8C	6.5	15					
	Alternative 8C	6.4	16					
	Proposed – Comparison portion for Alternative 8D	6.9	15					
	Alternative 8D	8.1	15					
	Proposed – Comparison portion for Alternative 8E	7.0	10					
Alternative 8E	18.3	26						
9	Proposed – Total Length	162.2	360					
	Proposed – Comparison portion for Alternative 9A	7.8	15					
	Alternative 9A	7.7	14					
	Proposed – Comparison portion for Alternative 9B	49.1	122					
	Alternative 9B	52.3	83					
	Proposed – Comparison portion for Alternative 9C	14.4	27					
	Alternative 9C	14.4	26					
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	106					
	Alternative 9D	60.1	84					
	Alternative 9F	63.3	93					
	Alternative 9G	57.8	87					
	Alternative 9H	61.0	96					
	Proposed – Comparison portion for Alternative 9E (revised)	61.4	116					
Alternative 9E (revised)	70.6	135						
10	Proposed – Total Length	34.4	74					

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.14-6. Miles of Each Depth to Shallow Bedrock Category Crossed by Proposed and Alternative Routes

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Depth to Bedrock (feet)			
			1 to 4	4 to 8	8 to 12	Total Shallow Bedrock
1W	1W(a) Proposed – Total Length	73.8	4.6		14.3	18.9
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	3.3			3.3
	Alternative 1W(a)-B	20.9				
	1W(c) Proposed – Total Length	73.6	7.1		13.7	20.9
2	Proposed – Total Length	91.9				
	Proposed – Comparison portion for Alternative 2A	16.8				
	Alternative 2A	16.0				
	Proposed – Comparison portion for Alternative 2B	12.5				
3	Alternative 2B	12.2				
	Segment 3 Proposed – Total Length	45.9	31.0	3.1		34.1
4 ^{1/}	Segment 3A Proposed – Total Length	5.1	2.5			2.5
	Proposed – Total Length	197.6	60.3	2.8	10.2	73.3
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	31.8			31.8
	Alternative 4B	100.2	53.0			53.0
	Alternative 4C	101.6	45.3			45.3
	Alternative 4D	100.8	54.1			54.1
	Alternative 4E	102.2	46.3			46.3
5	Alternative 4F	87.5	35.8			35.8
	Proposed-Total Length	55.7	2.4	13.5		16.0
	Proposed – Comparison portion for Alternatives 5A,B	22.3	2.4	11.1		13.6
	Alternative 5A	29.7	5.4	10.5		15.9
	Alternative 5B	40.4	2.6	14.9		17.5
	Proposed – Comparison portion for Alternative 5C	32.9	2.4	10.3		12.8
	Alternative 5C	26.0	2.4	1.5		3.9
	Proposed – Comparison portion for Alternative 5D	19.2		2.4		2.4
	Alternative 5D	17.0		1.5		1.5
6	Proposed – Comparison portion for Alternative 5E	5.8		1.0		1.0
	Alternative 5E	5.3		0.7		0.7
	Proposed-Total Length	0.5	0.3	0.2		0.5

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-6. Miles of Each Depth to Shallow Bedrock Category Crossed by Proposed and Alternative Routes cont.

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Depth to Bedrock (feet)			
			1 to 4	4 to 8	8 to 12	Total Shallow Bedrock
7	Proposed – Total Length	118.2	17.6	23.3	6.9	47.8
	Proposed – Comparison portion for Alternatives 7A,B	35.1	2.4	10.8		13.2
	Alternative 7A	37.7	5.4	10.3		15.7
	Alternative 7B	46.2	2.2	15.0		17.2
	Proposed – Comparison portion for Alternative 7C	20.1	12.0			12.0
	Alternative 7C	20.3	10.2			10.2
	Proposed – Comparison portion for Alternative 7D	6.2	2.2		0.8	3.0
	Alternative 7D	6.8	3.2		0.8	4.0
	Proposed – Comparison portion for Alternative 7E	3.8		1.1	2.7	3.8
	Alternative 7E	4.5		0.1	4.4	4.5
	Proposed – Comparison portion for Alternative 7F	10.5		3.7	6.1	9.8
	Alternative 7F	10.8		1.4	5.9	7.3
	Proposed – Comparison portion for Alternative 7G	3.3		1.0		1.0
	Alternative 7G	3.4		0.2		0.2
Proposed – Comparison portion for Alternative 7K	118.2	17.6	23.3	6.9	47.8	
Alternative 7K	148.1	11.8	37.1	14.5	63.4	
8	Proposed – Total Length	131.5	25.3	77.1	10.2	112.6
	Proposed – Comparison portion for Alternative 8A	51.9	12.3	22.2	5.5	40.0
	Alternative 8A	53.6	12.0	24.5	4.9	41.4
	Proposed – Comparison portion for Alternative 8B	45.3	13.0	20.6	4.6	38.3
	Alternative 8B	45.8	1.6	24.4	8.5	34.5
	Alternative 8B – Comparison portion for Alternative 8C	6.5		6.5		6.5
	Alternative 8C	6.4		6.4		6.4
	Proposed – Comparison portion for Alternative 8D	6.9		3.9		3.9
	Alternative 8D	8.1		4.3		4.3
	Proposed – Comparison portion for Alternative 8E	7.0	2.5		2.5	5.0
Alternative 8E	18.3	1.9		11.8	13.7	
9	Proposed – Total Length	162.2	72.0	33.0	30.2	135.3
	Proposed – Comparison portion for Alternative 9A	7.8	5.7		2.1	7.8
	Alternative 9A	7.7	4.1		3.6	7.7
	Proposed – Comparison portion for Alternative 9B	49.1	17.1	29.5		46.7
	Alternative 9B	52.3	3.0	41.7	4.2	48.9
	Proposed – Comparison portion for Alternative 9C	14.4	12.8			12.8
	Alternative 9C	14.4	5.2	1.8	4.2	11.2
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	43.3		5.0	48.3
	Alternative 9D	60.1	12.4		7.8	20.2
	Alternative 9F	63.3	19.7		7.8	27.5
	Alternative 9G	57.8	9.2		11.1	20.3
	Alternative 9H	61.0	16.5		11.1	27.6
Proposed – Comparison portion for Alternative 9E (revised)	61.4	44.0		8.6	52.6	
Alternative 9E (revised)	70.6	54.0		8.7	62.7	
10	Proposed – Total Length	34.4	6.8	0.4	0.6	7.8

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
Blank cells indicate zero miles or null value

Table D.14-7. Miles of Shallow Bedrock in Landslide, Subsidence, or Coal (Methane) Zones

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Bedrock/ Landslide ^{1/}	Bedrock/ Subsidence	Bedrock/ Coal	Bedrock in All Zones ^{2/}
1W	1W(a) Proposed – Total Length	73.8		0.6		0.6
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5				
	Alternative 1W(a)-B	20.9				
	1W(c) Proposed – Total Length	73.6		0.5		0.5
2	Proposed – Total Length	91.9				
	Proposed – Comparison portion for Alternative 2A	16.8				
	Alternative 2A	16.0				
	Proposed – Comparison portion for Alternative 2B	12.5				
3	Segment 3 Proposed – Total Length	45.9	6.3	16.6	0.5	19.7
	Segment 3A Proposed – Total Length	5.1	2.5	1.0	1.0	2.5
4 ^{3/}	Proposed – Total Length	197.6	34.6	28.8	0.8	44.4
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	29.9	18.2	0.8	31.1
	Alternative 4B	100.2	43.6	31.5	3.9	49.0
	Alternative 4C	101.6	35.8	25.9	3.9	41.3
	Alternative 4D	100.8	44.6	33.0	3.9	50.0
	Alternative 4E	102.2	36.9	27.4	3.9	42.3
	Alternative 4F	87.5	33.9	15.4	0.8	35.1
5	Proposed-Total Length	55.7				
	Proposed – Comparison portion for Alternatives 5A,B	22.3				
	Alternative 5A	29.7				
	Alternative 5B	40.4				
	Proposed – Comparison portion for Alternative 5C	32.9				
	Alternative 5C	26.0				
	Proposed – Comparison portion for Alternative 5D	19.2				
	Alternative 5D	17.0				
	Proposed – Comparison portion for Alternative 5E	5.8				
Alternative 5E	5.3					
6	Proposed-Total Length	0.5				

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} Landslide is defined as medium or high landslide hazards as shown on Table D.14-3.

^{2/} Bedrock in all zones is a GIS analysis of the dissolved area of all three bedrock categories. If categories overlap, the distance may be less than the sum of the three numbers.

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.14-7. Miles of Shallow Bedrock in Landslide, Subsidence, or Coal (Methane) Zones cont.

Segment Number	Proposed Alternative or Route Name	Segment Length (Miles)	Bedrock/ Landslide ^{1/}	Bedrock/ Subsidence	Bedrock/ Coal	Bedrock in All Zones ^{2/}
7	Proposed-Total Length	118.2				
	Proposed – Comparison portion for Alternatives 7A,B	35.1				
	Alternative 7A	37.7				
	Alternative 7B	46.2				
	Proposed – Comparison portion for Alternative 7C	20.1				
	Alternative 7C	20.3				
	Proposed – Comparison portion for Alternative 7D	6.2				
	Alternative 7D	6.8				
	Proposed – Comparison portion for Alternative 7E	3.8				
	Alternative 7E	4.5				
	Proposed – Comparison portion for Alternative 7F	10.5				
	Alternative 7F	10.8				
	Proposed – Comparison portion for Alternative 7G	3.3				
	Alternative 7G	3.4				
	Proposed – Comparison portion for Alternative 7K	118.2				
Alternative 7K	148.1					
8	Proposed – Total Length	131.5	0.8			0.8
	Proposed – Comparison portion for Alternative 8A	51.9				
	Alternative 8A	53.6				
	Proposed – Comparison portion for Alternative 8B	45.3	0.8			0.8
	Alternative 8B	45.8	2.7			2.7
	Proposed – Comparison portion for Alternative 8C	6.5				
	Alternative 8C	6.4				
	Proposed – Comparison portion for Alternative 8D	6.9				
	Alternative 8D	8.1				
	Proposed – Comparison portion for Alternative 8E	7.0	0.8			0.8
Alternative 8E	18.3					
9	Proposed – Total Length	162.2				
	Proposed – Comparison portion for Alternative 9A	7.8				
	Alternative 9A	7.7				
	Proposed – Comparison portion for Alternative 9B	49.1				
	Alternative 9B	52.3				
	Proposed – Comparison portion for Alternative 9C	14.4				
	Alternative 9C	14.4				
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2				
	Alternative 9D	60.1				
	Alternative 9F	63.3				
	Alternative 9G	57.8				
	Alternative 9H	61.0				
	Proposed – Comparison portion for Alternative 9E (revised)	61.4				
Alternative 9E (revised)	70.6					
10	Proposed – Total Length	34.4				

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} Landslide is defined as medium or high landslide hazards as shown on Table D.14-3.

^{2/} Bedrock in all zones is a GIS analysis of the dissolved area of all three bedrock categories. If categories overlap, the distance may be less than the sum of the three numbers.

Table D.15-1. Analysis of Soil Factors in Construction Disturbance Areas (in acres)

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Acres	Highly Wind Erodible	High K Factor	Slope > 25%	Low T Factor	Prime Farmland	Compaction Prone	Stony/Rocky	Droughty Soil	Shallow Bedrock	Hydric Soil
1W	1W(a) Proposed – Total Length	73.8	775	260	37	37	37			37	297	37	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	148	108	24	24	24			24	133	24	
	Alternative 1W(a)-B	20.9	271	98	5	5	5			5	102	5	
	1W(c) Proposed – Total Length	73.6	956	316	73	73	73			73	389	73	
2	Proposed – Total Length	91.9	1,778	1,115	59						1,114		
	Proposed – Comparison portion for Alternative 2A	16.8	309	289							289		
	Alternative 2A	16.0	355	321							321		
	Proposed – Comparison portion for Alternative 2B	12.5	237	237							237		
	Alternative 2B	12.2	209	209							209		
3	Segment 3 Proposed – Total Length	45.9	832	832	218		578				614	531	
	Segment 3A Proposed – Total Length	5.1	60	60	29		31				31	31	
4 ^{1/}	Proposed – Total Length	197.6	3,890	1,917	1,788	696	1,768		145	922	2,425	1,145	205
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	1,710	1,080	559	72	898		27	561	1,134	673	86
	Alternative 4B	100.2	2,080	1,356	808	1	1,195		24	623	1,412	1,059	88
	Alternative 4C	101.6	2,070	1,355	819		1,049		24	639	1,412	936	67
	Alternative 4D	100.8	2,107	1,383	809	1	1,240		24	627	1,398	1,104	88
	Alternative 4E	102.2	2,077	1,375	808		1,075		24	631	1,385	961	67
	Alternative 4F	87.5	1,725	1,109	577	135	972		27	485	1,059	759	85
5	Proposed – Total Length	55.7	1,179	97	1,028	351	445	473		462	540	64	
	Proposed – Comparison portion for Alternatives 5A,B	22.3	461	18	396	255	254	29		255	255	64	
	Alternative 5A	29.7	644	24	515	330	330	182		330	330	128	
	Alternative 5B	40.4	842		790	368	368	265		368	368	51	
	Proposed – Comparison portion for Alternative 5C	32.9	731	18	666	268	268	292		268	268	64	
	Alternative 5C	26.0	509	48	509	106	91	92		91	91	54	
	Proposed – Comparison portion for Alternative 5D	19.2	484	79	404	37	85	390		37	116		
	Alternative 5D	17.0	416	72	343	3	55	337		3	76		
	Proposed – Comparison portion for Alternative 5E	5.8	174	79	95		48	126			79		
Alternative 5E	5.3	165	90	74		42	122			90			
6	Proposed – Total Length	0.5	65	65			63	2			65	30	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.15-1. Analysis of Soil Factors in Construction Disturbance Areas (in acres) cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Acres	Highly Wind Erodible	High K Factor	Slope > 25%	Low T Factor	Prime Farmland	Compaction Prone	Stony/Rocky	Droughty Soil	Shallow Bedrock	Hydric Soil
7	Proposed – Total Length	118.2	2,252	483	2,159	520	745	1,272		601	896	357	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	652	14	594	278	241	254		278	278	58	
	Alternative 7A	37.7	774	24	648	354	321	312		354	354	125	
	Alternative 7B	46.2	920		875	366	333	325		366	366	44	
	Proposed – Comparison portion for Alternative 7C	20.1	372	34	372		232	287			232	232	
	Alternative 7C	20.3	362	12	361	<1	179	269		<1	179	179	
	Proposed – Comparison portion for Alternative 7D	6.2	132	15	132	11	59	59		11	70	59	
	Alternative 7D	6.8	153	25	153	11	82	82		11	92	82	
	Proposed – Comparison portion for Alternative 7E	3.8	72	17	72	55		17		55	55		
	Alternative 7E	4.5	96	9	96	82		9		82	82		
	Proposed – Comparison portion for Alternative 7F	10.5	225	102	225	104		102		104	104		
	Alternative 7F	10.8	213	37	213	113		37		113	113		
	Proposed – Comparison portion for Alternative 7G	3.3	64	50	64		14	50					
	Alternative 7G	3.4	87	77	87		10	77					
Proposed – Comparison portion for Alternative 7K	118.2	2,249	482	2,156	519	745	1,271		600	895	357		
Alternative 7K	148.1	2,859	939	2,620	873	1,402	733		960	1,227	215		
8	Proposed – Total Length	131.5	2,518	691	1,842		2,062	486		3	1,511	496	
	Proposed – Comparison portion for Alternative 8A	51.9	963	580	337		637	359			653	221	
	Alternative 8A	53.6	978	644	332		283	244		10	687	200	
	Proposed – Comparison portion for Alternative 8B	45.3	899	110	849		769	126		3	385	275	
	Alternative 8B	45.8	916	238	859		700	422			294	34	
	Alternative 8B – Comparison portion for Alternative 8C	6.5	163		163		163				80		
	Alternative 8C	6.4	140		139		139				57		
	Proposed – Comparison portion for Alternative 8D	6.9	147		147		87	7			80		
	Alternative 8D	8.1	174		174		98	8			90		
	Proposed – Comparison portion for Alternative 8E	7.0	124	59	93		93	59			44	53	
Alternative 8E	18.3	334	287	334		245	287			17	30		
9	Proposed – Total Length	162.2	3,293	1,486	1,588	33	2,131	1,062		534	1,812	1,430	
	Proposed – Comparison portion for Alternative 9A	7.8	147		86		147	61		61	61	86	
	Alternative 9A	7.7	162		68		162	94		94	94	68	
	Proposed – Comparison portion for Alternative 9B	49.1	1,037	138	885		407	40		64	202	343	
	Alternative 9B	52.3	965	210	700		205	135		134	304	71	
	Proposed – Comparison portion for Alternative 9C	14.4	304		291		304	12		65	65	239	
	Alternative 9C	14.4	320	39	225		280	133		144	144	136	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	1,145	973	273		953	293			870	851	
	Alternative 9D	60.1	1,046	982	692		396	800			362	236	
	Alternative 9F	63.3	1,165	1,094	699		524	790			480	357	
	Alternative 9G	57.8	1,058	1,020	692		443	834			387	199	
	Alternative 9H	61.0	1,162	1,125	692		564	817			491	321	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	1,230	1,039	362		1,042	359			868	872		
Alternative 9E (revised)	70.6	1,289	770	709		1,095	383			580	906		
10	Proposed – Total Length	34.4	670	318	528		291	181		125	266	138	
Total of All Proposed Segments (grey shaded areas)		990.4	18,268	7,640	9,349	1,710	8,224	3,476	145	2,757	9,960	4,332	205

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.15-2. Analysis of Soil Factors in Operations Disturbance Areas (in acres)

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Acres	Erosion Factors			Sensitive Soils		Factors Affecting Reclamation					Permanent Soil Loss
				Highly Wind Erodible	High K Factor	Slope > 25%	Low T Factor	Prime Farmland	Compaction Prone	Stony/Rocky	Droughty Soil	Shallow Bedrock	Hydric Soil	
1W	1W(a) Proposed – Total Length	73.8	177	58	6	6	6		6	64	6		177	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	27	20	4	4	4		4	24	4		27	
	Alternative 1W(a)-B	20.9	44	15	1	1	1		1	16	1		44	
	1W(c) Proposed – Total Length	73.6	124	40	8	8	8		8	48	8		124	
2	Proposed – Total Length	91.9	245	121	7					121			245	
	Proposed – Comparison portion for Alternative 2A	16.8	28	27						27			28	
	Alternative 2A	16.0	40	37						37			40	
	Proposed – Comparison portion for Alternative 2B	12.5	21	21						21			21	
3	Alternative 2B	12.2	17	17						17			17	
	Segment 3 Proposed – Total Length	45.9	140	140	76		60			63	57		140	
4 ^{1/}	Segment 3A Proposed – Total Length	5.1	12	12	3		9			9	9		12	
	Proposed – Total Length	197.6	529	279	277	92	228		12	139	316	141	16	529
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	212	137	69	10	111		2	73	142	90	6	212
	Alternative 4B	100.2	273	185	109	<1	157		2	83	190	146	7	273
	Alternative 4C	101.6	265	188	99		138		2	74	180	127	6	265
	Alternative 4D	100.8	280	192	109	<1	166		2	85	191	154	7	280
	Alternative 4E	102.2	269	195	96		142		2	72	177	132	6	269
5	Alternative 4F	87.5	214	142	74	23	127		2	61	130	106	7	214
	Proposed – Total Length	55.7	169	22	138	47	92	49		80	100	9		169
	Proposed – Comparison portion for Alternatives 5A,B	22.3	58	2	49	37	37	4		37	37	9		58
	Alternative 5A	29.7	80	2	62	50	50	18		50	50	18		80
	Alternative 5B	40.4	82		86	46	46	22		46	46	6		92
	Proposed – Comparison portion for Alternative 5C	32.9	94	2	84	37	37	37		37	37	9		94
	Alternative 5C	26.0	56	4	55	14	12	9		12	12	6		55
	Proposed – Comparison portion for Alternative 5D	19.2	63	20	43	3	21	40		3	23			63
	Alternative 5D	17.0	53	21	32	1	21	28		1	22			53
6	Proposed – Comparison portion for Alternative 5E	5.8	24	20	4		19	5			20			24
	Alternative 5E	5.3	24	21	4		18	6			21			24
6	Proposed – Total Length	0.5	61	61			60	1			61	28		61

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.15-2. Analysis of Soil Factors in Operations Disturbance Areas (in acres) cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Acres	Erosion Factors			Sensitive Soils		Factors Affecting Reclamation					Permanent Soil Loss
				Highly Wind Erodible	High K Factor	Slope > 25%	Low T Factor	Prime Farmland	Compaction Prone	Stony/Rocky	Droughty Soil	Shallow Bedrock	Hydric Soil	
7	Proposed – Total Length	118.2	265	39	253	68	128	113	99	130	40		265	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	71	2	64	38	35	20	38	38	7		71	
	Alternative 7A	37.7	93	3	74	51	49	28	51	51	19		93	
	Alternative 7B	46.2	96		91	44	42	28	44	44	5		96	
	Proposed – Comparison portion for Alternative 7C	20.1	36	3	36		25	30		25	25		36	
	Alternative 7C	20.3	28	<1	28		15	21		15	15		28	
	Proposed – Comparison portion for Alternative 7D	6.2	11	2	11	1	4	4	1	4	4		11	
	Alternative 7D	6.8	13	3	13	1	5	5	1	6	5		13	
	Proposed – Comparison portion for Alternative 7E	3.8	5	1	5	4		1	4	4			5	
	Alternative 7E	4.5	9	<1	9	7		<1	7	7			9	
	Proposed – Comparison portion for Alternative 7F	10.5	23	9	23	11		9	11	11			23	
	Alternative 7F	10.8	23	6	23	12		6	12	12			23	
	Proposed – Comparison portion for Alternative 7G	3.3	6	4	6		2	4					6	
	Alternative 7G	3.4	6	5	6		<1	5					6	
Proposed – Comparison portion for Alternative 7K	118.2	264	39	253	68	128	113	99	130	40		264		
Alternative 7K	148.1	382	109	349	115	211	77	139	175	30		381		
8	Proposed – Total Length	131.5	249	78	173		207	44	<1	156	61		248	
	Proposed – Comparison portion for Alternative 8A	51.9	102	70	28		71	34		78	36		102	
	Alternative 8A	53.6	103	73	30		41	23	2	78	33		103	
	Proposed – Comparison portion for Alternative 8B	45.3	87	7	85		76	11	<1	36	24		87	
	Alternative 8B	45.8	69	10	68		55	27		21	<1		69	
	Alternative 8B – Comparison portion for Alternative 8C	6.5	15		15		15			5			15	
	Alternative 8C	6.4	16		16		16			3			16	
	Proposed – Comparison portion for Alternative 8D	6.9	15		15		8	1		7			15	
	Alternative 8D	8.1	15		15		8	2		6			15	
	Proposed – Comparison portion for Alternative 8E	7.0	10	5	8		8	5		3	4		10	
Alternative 8E	18.3	26	21	26		20	21		2	4		26		
9	Proposed – Total Length	162.2	360	149	187	4	223	99	51	183	145		360	
	Proposed – Comparison portion for Alternative 9A	7.8	15		10		15	5	5	5	10		15	
	Alternative 9A	7.7	14		6		14	8	8	8	6		14	
	Proposed – Comparison portion for Alternative 9B	49.1	122	22	100		37	3	3	25	34		122	
	Alternative 9B	52.3	83	18	59		16	11	12	28	4		83	
	Proposed – Comparison portion for Alternative 9C	14.4	27		26		27	t ^{2/}	3	3	24		27	
	Alternative 9C	14.4	26	2	17		24	11	12	12	12		26	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	106	89	27		91	25		79	81		106	
	Alternative 9D	60.1	84	76	58		32	63		27	20		84	
	Alternative 9F	63.3	93	85	58		44	60		36	32		93	
	Alternative 9G	57.8	87	85	60		37	70		28	15		87	
Alternative 9H	61.0	96	94	60		49	67		38	28		96		
Proposed – Comparison portion for Alternative 9E (revised)	61.4	116	95	37		101	31		79	85		116		
Alternative 9E (revised)	70.6	135	85	72		115	43		63	93		135		
10	Proposed – Total Length	34.4	74	37	50		49	13	10	35	24		74	
Total of All Proposed Segments (grey shaded areas)		990.4	2,405	1,036	1,178	225	1,070	319	12	393	1,286	528	16	2,404

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{2/} "t" indicates only a trace amount (<0.1 acre) of impact

Table D.15-3. Soil Impacts on National Forest-Construction Areas (in acres)

Segment Number	Proposed or Alternative Name	Total Segment Acres	Total National Forest Acres	Highly Erodible Soil (High K Factor)	Low Soil Loss Tolerance (Low T Factor)	hhm ^{1/}	hmm ^{2/}
Medicine Bow-Routt National Forests							
1W	1W(a) Proposed – Total Length	775	16				
	1W(c) Proposed – Total Length	956	24				
Total of All Medicine Bow NF Segments (grey shaded areas)		1,731	40				
Caribou-Targhee National Forest							
4	Proposed – Total Length	3,890	148	148		8	20
	Proposed – Comparison Portion for Alternative 4G	30	30			7	12
	Alternative 4G	40	48			2	16
Sawtooth National Forest							
7	Proposed – Comparison portion for Alternative 7K	2,246	<1	<1			
	Alternative 7K	2,855	230	123	227		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

^{1/} "hhm" means two of the three soils in the map unit have a high erosion hazard and one has moderate hazard. Between 50 and 75 percent of the area has high hazard.

^{2/} "hmm" means only one of the three soils has a high erosion hazard with the remaining in moderate hazard. These areas have less than 50 percent in high erosion hazard.

Table D.15-4. Soil Impacts on National Forest-Operations Areas (in acres)

Segment Number	Proposed or Alternative Name	Total Segment Acres	Total Forest Acres	Highly Erodible Soil (High K Factor)	Low Soil Loss Tolerance (Low T Factor)	Permanent Soil Loss	hhm ^{2/}	hmm ^{3/}
Medicine Bow-Routt National Forests								
1W	1W(a) Proposed – Total Length	177	3			3		
	1W(c) Proposed – Total Length	124	3			3		
Total of All Medicine Bow NF Segments (grey shaded areas)		301	6			6		
Caribou-Targhee National Forest								
4	Proposed – Total Length	529	19	19		19	2	3
	Proposed – Comparison portion for Alternative 4G		5				1	2
	Alternative 4G							
Sawtooth National Forest								
7	Proposed – Comparison portion for Alternative 7K	264	t ^{1/}	t ^{1/}		t ^{1/}		
	Alternative 7K	381	38	21	37	38		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} "hhm" means two of the three soils in the map unit have a high erosion hazard and one has moderate hazard. Between 50 and 75 percent of the area has high hazard.

^{3/} "hmm" means only one of the three soils has a high erosion hazard with the remaining in moderate hazard. These areas have less than 50 percent in high erosion hazard.

Table D.16-1. Surface Water Road Crossings by Crossing Type

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Crossings ^{1/}	Number of Crossings															Estimated Disturbance Area (Acres) ^{2/}	Total Drive-through	Total Cut/Fill	Total Culvert
				Ephemeral			Intermittent Dry			Intermittent Wet			Perennial			Artificial						
				Drive Through	Cut/Fill	TMDL/303(d)	Drive Through	Cut/Fill	Temporary Culvert	TMDL/303(d)	Avoid	Temporary Culvert	TMDL/303(d)	Permanent Culvert	Avoid	TMDL/303(d)	Avoid	TMDL/303(d)				
1W	1W(a) Proposed – Total Length	73.8	230	81	74		12	27				28		1	2		5		2	93	101	29
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	31	5	4		3	8				6					5			8	12	6
	Alternative 1W(a)-B	20.9	23	6	5		4	8												9	14	
	1W(c) Proposed – Total Length	73.6	185	70	51		13	29				10		2	4		6		1	82	81	12
2	Proposed – Total Length	91.9	192	96	68		2	4	8			1		9 ^{3/}	1		4		<1	97	72	18
	Proposed – Comparison portion for Alternative 2A	16.8	31	16	11			1	2										<1	16	12	2
	Alternative 2A	16.0	45	23	17				3			2							<1	23	17	5
	Proposed – Comparison portion for Alternative 2B	12.5	24	12	8			1	2										<1	12	9	2
3	Segment 3 Proposed – Total Length	45.9	96	39	25		6	13				3		4	6				1	45	38	7
	Segment 3A Proposed – Total Length	5.1	12	7	3		1	1						1	1					7	3	1
4 ^{5/}	Proposed – Total Length	197.6	442	123	100	5	37	85				17		20	30	9	16		3	156	189	41
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	242	63	52	1	23	55				10		10	15		13		t ^{4/}	85	108	20
	Alternative 4B	100.2	375	137	112	1	13	31				50		5	8		18		4	146	147	55
	Alternative 4C	101.6	354	131	106	1	14	32				43		4	7		17		4	140	142	47
	Alternative 4D	100.8	413	158	129	1	13	31				50		5	8		18		5	166	165	55
	Alternative 4E	102.2	387	149	121	1	14	32				43		4	7		17		4	158	157	47
	Alternative 4F	87.5	220	60	49	1	16	36				4		18	26		10		2	74	87	22
5	Proposed – Total Length	55.7	170	71	31	61											7		1	71	30	
	Proposed – Comparison portion for Alternatives 5A,B	22.3	77	20	9	47													1	18	8	
	Alternative 5A	29.7	78	19	8	21	4	3			2	12		3	5				2	18	9	15
	Alternative 5B	40.4	96	37	16	21	7	4			1	3		3	4				1	32	15	6
	Proposed – Comparison portion for Alternative 5C	32.9	145	65	28	51											1		1	57	25	
	Alternative 5C	26.0	52	21	9	17	1	1									3		<1	30	13	
	Proposed – Comparison portion for Alternative 5D	19.2	75	47	20	6											2		<1	43	19	
	Alternative 5D	17.0	51	27	11	6	2	2									3		<1	24	11	
	Proposed – Comparison portion for Alternative 5E	5.8	5	3	1												1			3	1	
Alternative 5E	5.3	6	4	2												1			4	2		
6	Proposed – Total Length	0.5																				

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The number of crossings are based on the disturbance acres for each stream crossing type and have been rounded to the nearest whole number; therefore numbers are inexact and columns/rows may not sum exactly

^{2/} Estimated Disturbance Acres are in addition to the disturbance area of the road that would be needed for stream crossings

^{3/} These nine crossings are not all perennial, some will require a permanent culvert

^{4/} "t" indicates only a trace amount (<0.1 acre) of disturbance

^{5/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-1. Surface Water Road Crossings by Crossing Type cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Crossings ^{1/}	Number of Crossings															Estimated Disturbance Area (Acres) ^{2/}	Total Drive-through	Total Cut/Fill	Total Culvert	
				Ephemeral			Intermittent Dry			Intermittent Wet			Perennial			Artificial							
				Drive Through	Cut/Fill	TMDL/303(d)	Drive Through	Cut/Fill	Temporary Culvert	TMDL/303(d)	Avoid	Temporary Culvert	TMDL/303(d)	Permanent Culvert	Avoid	TMDL/303(d)	Avoid	TMDL/303(d)					
7	Proposed – Total Length	118.2	259	56	74	51		2	11			3	1	15	3	1	42		2	53	72	31	
	Proposed – Comparison portion for Alternatives 7A,B	35.1	82	16	22	44													1	12	16	2	
	Alternative 7A	37.7	106	20	26	22		2	8	5		12		8	2		1		1	11	16	11	
	Alternative 7B	46.2	98	24	31	23		2	9			1		7	1				1	17	24	9	
	Proposed – Comparison portion for Alternative 7C	20.1	17	3	5									1			8			3	5	3	
	Alternative 7C	20.3	24	10	12				1								1			9	13	2	
	Proposed – Comparison portion for Alternative 7D	6.2	17	4	6				1				2				4			4	6	1	
	Alternative 7D	6.8	17	4	5								2				6		<1	4	5	2	
	Proposed – Comparison portion for Alternative 7E	3.8	5											4	1								3
	Alternative 7E	4.5	7											6	1				<1				5
	Proposed – Comparison portion for Alternative 7F	10.5	32	3	4			1	6				1		14	3					3	4	12
	Alternative 7F	10.8	19	3	5			1	5				1		3	1				<1	3	5	4
	Proposed – Comparison portion for Alternative 7G	3.3	4	2	2																2	2	
	Alternative 7G	3.4	0																				
Proposed – Comparison portion for Alternative 7K	118.2	259	56	74	51		2	11			3	1	15	3	1	42		1	53	72	15		
Alternative 7K	148.1	494	137	179	30		11	59	1		9		38	8	1	19	2	<1	133	184	28		
8	Proposed – Total Length	131.5	266	114	56	19	7	15	2		1	1	3	9		37	2	1	110	66	3		
	Proposed – Comparison portion for Alternative 8A	51.9	59	16	11	1	1	2					2	6		20		t ^{4/}	19	11	2		
	Alternative 8A	53.6	54	9	7	1	1	2					2	3		27	1	<1	12	8	1		
	Proposed – Comparison portion for Alternative 8B	45.3	116	47	33	18	3	6					2			5	2	<1	46	27			
	Alternative 8B	45.8	71	21	15	28		1					2			3	1	<1	13	7			
	Proposed – Comparison portion for Alternative 8C	6.5	18	8	5	2		1					2						<1	7	5		
	Alternative 8C	6.4	21	11	7	2		1											<1	10	6		
	Proposed – Comparison portion for Alternative 8D	6.9	10	2	1	5											2		<1				
	Alternative 8D	8.1	9	2	2	3											2		<1				
	Proposed – Comparison portion for Alternative 8E	7.0	6	1													5			1			
Alternative 8E	18.3	14	7	5		1	1												9	5			
9	Proposed – Total Length	162.2	322	106	84	17	3	6	7	6		15		2	2	2	72		2	108	90	25	
	Proposed – Comparison portion for Alternative 9A	7.8	16	4	3											2	7			4	6	2	
	Alternative 9A	7.7	14	1	1									1		5	6		t ^{4/}	1	7	1	
	Proposed – Comparison portion for Alternative 9B	49.1	70	20	16	10	1	3	4	5		6		1	1		3		<1	22	19	3	
	Alternative 9B	52.3	57	20	15	6								1	1		14		<1	18	18	4	
	Proposed – Comparison portion for Alternative 9C	14.4	27	13	11												3			13	11	1	
	Alternative 9C	14.4	21	4	3	1							1				12		t ^{4/}	4	3	2	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	136	45	35			1	1	2							51		t ^{4/}	44	36	13	
	Alternative 9D	60.1	42	21	17	3											1		<1	20	16	2	
	Alternative 9F	63.3	57	27	21	3											6		<1	25	20	3	
	Alternative 9G	57.8	35	17	14	3											1		<1	16	13	2	
	Alternative 9H	61.0	50	23	18	3											6		<1	21	17	3	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	136	45	35			1	1	2							51							
Alternative 9E (revised)	70.6	109	44	35	19							1	1	3	4	1	1	<1	58	56	7		
10	Proposed – Total Length	34.4	26	8		5						3					10			14	1	1	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} The number of crossings are based on the disturbance acres for each stream crossing type and have been rounded to the nearest whole number; therefore numbers are inexact and columns/rows may not sum exactly

^{2/} Estimated Disturbance Acres are in addition to the disturbance area of the road that would be needed for stream crossings

^{3/} These nine crossings are not all perennial, some will require a permanent culvert (pertains to Segment 2 on page 1 of this table)

^{4/} "t" indicates only a trace amount (<0.1 acre) of disturbance

Table D.16-2. Potential Construction Disturbance (in Acres per Risk Rank) In Areas of Flood Hazard Risk

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Flood Hazard Rank		
			0 to 69	70 to 84	85 to 100
			Low Risk	Moderate Risk	High Risk
1W	1W(a) Proposed – Total Length	73.8	689	26	61
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	117	14	17
	Alternative 1W(a)-B	20.9	229	15	28
	1W(c) Proposed – Total Length	73.6	893	5	59
2	Proposed – Total Length	91.9	1,579	35	167
	Proposed – Comparison portion for Alternative 2A	16.8	251	4	54
	Alternative 2A	16.0	262		93
	Proposed – Comparison portion for Alternative 2B	12.5	193	4	40
	Alternative 2B	12.2	139	2	68
3	Segment 3 Proposed – Total Length	45.9	771	63	
	Segment 3A Proposed – Total Length	5.1	60		
4 ^{1/}	Proposed – Total Length	197.6	3,269	355	273
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	1,271	245	198
	Alternative 4B	100.2	1,577	321	185
	Alternative 4C	101.6	1,618	302	153
	Alternative 4D	100.8	1,602	321	186
	Alternative 4E	102.2	1,625	302	154
	Alternative 4F	87.5	1,329	201	198
5	Proposed – Total Length	55.7	745	307	127
	Proposed – Comparison portion for Alternatives 5A,B	22.3	412	7	42
	Alternative 5A	29.7	521	45	78
	Alternative 5B	40.4	719	43	80
	Proposed – Comparison portion for Alternative 5C	32.9	450	223	59
	Alternative 5C	26.0	331	88	90
	Proposed – Comparison portion for Alternative 5D	19.2	92	300	92
	Alternative 5D	17.0	37	214	165
	Proposed – Comparison portion for Alternative 5E	5.8	13	93	68
	Alternative 5E	5.3	13	97	55
6	Proposed – Total Length	0.5	44	21	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-2. Potential Construction Disturbance (in Acres per Risk Rank) In Areas of Flood Hazard Risk cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Flood Hazard Rank		
			0 to 69	70 to 84	85 to 100
			Low Risk	Moderate Risk	High Risk
7	Proposed – Total Length	118.2	1,806	245	200
	Proposed – Comparison portion for Alternatives 7A,B	35.1	428	124	101
	Alternative 7A	37.7	594	89	92
	Alternative 7B	46.2	712	83	125
	Proposed – Comparison portion for Alternative 7C	20.1	250	48	74
	Alternative 7C	20.3	254	75	33
	Proposed – Comparison portion for Alternative 7D	6.2	94	35	3
	Alternative 7D	6.8	104	40	9
	Proposed – Comparison portion for Alternative 7E	3.8	72		
	Alternative 7E	4.5	96		
	Proposed – Comparison portion for Alternative 7F	10.5	225		
	Alternative 7F	10.8	213		
	Proposed – Comparison portion for Alternative 7G	3.3	64		
	Alternative 7G	3.4	87		
	Proposed – Comparison portion for Alternative 7K	118.2	1,804	245	200
Alternative 7K	148.1	2,723	24	112	
8	Proposed – Total Length	131.5	2,134	56	328
	Proposed – Comparison portion for Alternative 8A	51.9	816	18	128
	Alternative 8A	53.6	833	22	123
	Proposed – Comparison portion for Alternative 8B	45.3	745	23	131
	Alternative 8B	45.8	721		195
	Proposed – Comparison portion for Alternative 8C	6.5	163		
	Alternative 8C	6.4	140		
	Proposed – Comparison portion for Alternative 8D	6.9	95		52
	Alternative 8D	8.1	89		85
	Proposed – Comparison portion for Alternative 8E	7.0	93		31
	Alternative 8E	18.3	291	17	27
9	Proposed – Total Length	162.2	2,664	267	363
	Proposed – Comparison portion for Alternative 9A	7.8	147		
	Alternative 9A	7.7	162		
	Proposed – Comparison portion for Alternative 9B	49.1	848	58	130
	Alternative 9B	52.3	802	8	155
	Proposed – Comparison portion for Alternative 9C	14.4	187	59	58
	Alternative 9C	14.4	206	8	106
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	885	91	168
	Alternative 9D	60.1	874	62	111
	Alternative 9F	63.3	921	90	154
	Alternative 9G	57.8	876	34	147
	Alternative 9H	61.0	924	63	176
	Proposed – Comparison portion for Alternative 9E (revised)	61.4	941	91	198
Alternative 9E (revised)	70.6	999	108	182	
10	Proposed – Total Length	34.4	630		41

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.16-3. Potential Operations (in Acres per Risk Rank) Disturbance In Areas of Flood Hazard Risk

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Flood Hazard Rank		
			0 to 69	70 to 84	85 to 100
			Low Risk	Moderate Risk	High Risk
1W	1W(a) Proposed – Total Length	73.8	143	10	23
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	21	3	3
	Alternative 1W(a)-B	20.9	37	3	4
	1W(c) Proposed – Total Length	73.6	105	<1	19
2	Proposed – Total Length	91.9	179	4	62
	Proposed – Comparison portion for Alternative 2A	16.8	19	1	8
	Alternative 2A	16.0	26		13
	Proposed – Comparison portion for Alternative 2B	12.5	13	1	7
	Alternative 2B	12.2	12	t ^{1/}	5
3	Segment 3 Proposed – Total Length	45.9	134	6	
	Segment 3A Proposed – Total Length	5.1	12		
4 ^{2/}	Proposed – Total Length	197.6	465	39	26
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	164	27	21
	Alternative 4B	100.2	215	35	23
	Alternative 4C	101.6	213	32	20
	Alternative 4D	100.8	222	35	23
	Alternative 4E	102.2	216	32	21
	Alternative 4F	87.5	172	22	21
5	Proposed – Total Length	55.7	120	37	12
	Proposed – Comparison portion for Alternatives 5A,B	22.3	52	2	5
	Alternative 5A	29.7	60	7	13
	Alternative 5B	40.4	79	6	7
	Proposed – Comparison portion for Alternative 5C	32.9	57	27	10
	Alternative 5C	26.0	38	7	11
	Proposed – Comparison portion for Alternative 5D	19.2	21	36	7
	Alternative 5D	17.0	16	24	13
	Proposed – Comparison portion for Alternative 5E	5.8	12	10	2
Alternative 5E	5.3	12	10	2	
6	Proposed – Total Length	0.5	42	18	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} "t" indicates only a trace amount (<0.1 acre) of impact

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-3. Potential Operations (in Acres per Risk Rank) Disturbance In Areas of Flood Hazard Risk cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Flood Hazard Rank		
			0 to 69	70 to 84	85 to 100
			Low Risk	Moderate Risk	High Risk
7	Proposed – Total Length	118.2	226	18	21
	Proposed – Comparison portion for Alternatives 7A,B	35.1	52	7	12
	Alternative 7A	37.7	70	9	14
	Alternative 7B	46.2	79	8	10
	Proposed – Comparison portion for Alternative 7C	20.1	27	4	5
	Alternative 7C	20.3	20	5	2
	Proposed – Comparison portion for Alternative 7D	6.2	8	2	1
	Alternative 7D	6.8	8	3	2
	Proposed – Comparison portion for Alternative 7E	3.8	5		
	Alternative 7E	4.5	9		
	Proposed – Comparison portion for Alternative 7F	10.5	23		
	Alternative 7F	10.8	23		
	Proposed – Comparison portion for Alternative 7G	3.3	6		
	Alternative 7G	3.4	6		
	Proposed – Comparison portion for Alternative 7K	118.2	226	18	21
Alternative 7K	148.1	369	4	9	
8	Proposed – Total Length	131.5	210	8	31
	Proposed – Comparison portion for Alternative 8A	51.9	88	4	10
	Alternative 8A	53.6	93	1	9
	Proposed – Comparison portion for Alternative 8B	45.3	70	3	14
	Alternative 8B	45.8	53		16
	Proposed – Comparison portion for Alternative 8C	6.5	15		
	Alternative 8C	6.4	16		
	Proposed – Comparison portion for Alternative 8D	6.9	10		6
	Alternative 8D	8.1	8		8
	Proposed – Comparison portion for Alternative 8E	7.0	7		3
	Alternative 8E	18.3	23	2	2
9	Proposed – Total Length	162.2	296	27	37
	Proposed – Comparison portion for Alternative 9A	7.8	15		
	Alternative 9A	7.7	14		
	Proposed – Comparison portion for Alternative 9B	49.1	106	5	11
	Alternative 9B	52.3	73	1	10
	Proposed – Comparison portion for Alternative 9C	14.4	19	5	2
	Alternative 9C	14.4	19	<1	7
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	82	9	15
	Alternative 9D	60.1	69	5	9
	Alternative 9F	63.3	75	7	11
	Alternative 9G	57.8	74	3	10
	Alternative 9H	61.0	80	5	12
	Proposed – Comparison portion for Alternative 9E (revised)	61.4	86	9	21
Alternative 9E (revised)	70.6	98	12	25	
10	Proposed – Total Length	34.4	69		5

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value

Table D.16-5. Surface Water Diversions Within One-Half Mile Buffer of Transmission Lines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Surface Water Diversions
1W	1W(a) Proposed – Total Length	73.8	3
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	0
	Alternative 1W(a)-B	20.9	0
	1W(c) Proposed – Total Length	73.6	2
2	Proposed – Total Length	91.9	0
	Proposed – Comparison portion for Alternative 2A	16.8	0
	Alternative 2A	16.0	0
	Proposed – Comparison portion for Alternative 2B	12.5	0
	Alternative 2B	12.2	0
3	Segment 3 Proposed – Total Length	45.9	0
	Segment 3A Proposed – Total Length	5.1	0
4 ^{1/}	Proposed – Total Length	197.6	127
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	10
	Alternative 4B	100.2	22
	Alternative 4C	101.6	21
	Alternative 4D	100.8	21
	Alternative 4E	102.2	20
5	Proposed – Total Length	55.7	119
	Proposed – Comparison portion for Alternatives 5A,B	22.3	30
	Alternative 5A	29.7	26
	Alternative 5B	40.4	28
	Proposed – Comparison portion for Alternative 5C	32.9	29
	Alternative 5C	26.0	29
	Proposed – Comparison portion for Alternative 5D	19.2	25
	Alternative 5D	17.0	98
	Proposed – Comparison portion for Alternative 5E	5.8	21
Alternative 5E	5.3	17	
6	Proposed – Total Length	0.5	5

Source: IDWR

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Surface Water Diversions
7	Proposed – Total Length	118.2	693
	Proposed – Comparison portion for Alternatives 7A,B	35.1	46
	Alternative 7A	37.7	59
	Alternative 7B	46.2	31
	Proposed – Comparison portion for Alternative 7C	20.1	57
	Alternative 7C	20.3	113
	Proposed – Comparison portion for Alternative 7D	6.2	67
	Alternative 7D	6.8	63
	Proposed – Comparison portion for Alternative 7E	3.8	10
	Alternative 7E	4.5	7
	Proposed – Comparison portion for Alternative 7F	10.5	56
	Alternative 7F	10.8	14
	Proposed – Comparison portion for Alternative 7G	3.3	63
	Alternative 7G	3.4	66
	Proposed – Comparison portion for Alternative 7K	118.2	693
Alternative 7K	148.1	311	
8	Proposed – Total Length	131.5	324
	Proposed – Comparison portion for Alternative 8A	51.9	169
	Alternative 8A	53.6	591
	Proposed – Comparison portion for Alternative 8B	45.3	78
	Alternative 8B	45.8	239
	Proposed – Comparison portion for Alternative 8C	6.5	11
	Alternative 8C	6.4	23
	Proposed – Comparison portion for Alternative 8D	6.9	0
	Alternative 8D	8.1	119
9	Proposed – Comparison portion for Alternative 8E	7.0	10
	Alternative 8E	18.3	11
	Proposed – Total Length	162.2	562
	Proposed – Comparison portion for Alternative 9A	7.8	16
	Alternative 9A	7.7	19
	Alternative 9B	52.3	144
	Proposed – Comparison portion for Alternative 9C	14.4	16
	Alternative 9C	14.4	55
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	308
	Alternative 9D	60.1	140
Alternative 9F	63.3	184	
Alternative 9G	57.8	134	
Alternative 9H	61.0	178	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	317	
Alternative 9E (revised)	70.6	189	
10	Proposed – Total Length	34.4	169

Table D.16-6. Number of Surface Water Road Crossings by Stream Type

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Perennial			Intermittent - Wet		Intermittent - Dry			Ephemeral			Artificial ^{1/}			Total				
			Non-listed	Sediment-Impaired	Temperature - Impaired	Non-listed	Sediment-Impaired	Non-listed	Sediment-Impaired	Temperature - Impaired	Non-listed	Sediment-Impaired	Temperature - Impaired	Non-listed	Sediment-Impaired	Temperature - Impaired	Stream Crossings	Percent Ephemeral, Non-listed	Sediment-Impaired	Percent of SI to total crossings	Temperature-Impaired
1W	1W(a) Proposed – Total Length	73.8	3			28		39			155			5			230	67			
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5				6		11			9			5			31	29			
	Alternative 1W(a)-B	20.9						12			11						23	48			
	1W(c) Proposed – Total Length	73.6	6			10		42			121			6			185	65			
2	Proposed – Total Length	91.9	10			1		13			164			4			192	90			
	Proposed – Comparison portion for Alternative 2A	16.8						4			27						31	87			
	Alternative 2A	16.0				2		3			40						45	95			
	Proposed – Comparison portion for Alternative 2B	12.5						4			20						24	83			
	Alternative 2B	12.2				1					20						21	95			
3	Segment 3 Proposed – Total Length	45.9	10			3		19			64						96	67			
	Segment 3A Proposed – Total Length	5.1	2					2			10						14	86			
4 ^{3/}	Proposed – Total Length	197.6	50	8	1	17		122			223	5		16			442	50	5	1.1	
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	25			10		78			115	1		13			242	48	1		
	Alternative 4B	100.2	13			50		44			249	1		18			375	66	1		
	Alternative 4C	101.6	11			43		45			237	1		17			354	67	1		
	Alternative 4D	100.8	13			50		44			287	1		18			413	69	1		
	Alternative 4E	102.2	11			43		45			270	1		17			387	70	1		
	Alternative 4F	87.5	44			4		52			109	1		10			220	50	1		
5	Proposed – Total Length	55.7									102	61		7			170	60	64	37.4	
	Proposed – Comparison portion for Alternatives 5A,B	22.3									29	47					76	38	51	66.2	
	Alternative 5A	29.7	8			12		7	2		27	21					77	35	31	39.7	
	Alternative 5B	40.4	7			3		11	1		53	21					96	55	39	40.6	
	Proposed – Comparison portion for Alternatives 5C	32.9									93	51		1			145	47	64	43.8	
	Alternative 5C	26.0						2			30	17		3			52	58	6	11.5	
	Proposed – Comparison portion for Alternatives 5D	19.2									67	6		2			75	83	12	16.0	
	Alternative 5D	17.0						4			38	6		3			51	61	14	27.5	
	Proposed – Comparison portion for Alternatives 5E	5.8									4			1			5	80			
Alternative 5E	5.3									5			1			6	83				
6	Proposed – Total Length	0.5																			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Blank cells indicate null value

SI = sediment-impaired; TI = temperature-impaired

^{1/} Artificial = pipe, aqueduct, canal, drain, ditch or artificial path (natural stream channelized into pipe, ditch or culvert)

^{2/} The number of crossings are based on the disturbance acres for each stream crossing type and have been rounded to the nearest whole number; therefore numbers are inexact and columns/rows may not sum exactly

^{3/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-6. Number of Surface Water Road Crossings by Stream Type cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Perennial			Intermittent - Wet		Intermittent - Dry			Ephemeral			Artificial ^{1/}			Total					
			Non-listed	Sediment-Impaired	Temperature - Impaired	Non-listed	Sediment-Impaired	Non-listed	Sediment-Impaired	Temperature - Impaired	Non-listed	Sediment-Impaired	Temperature - Impaired	Non-listed	Sediment-Impaired	Temperature - Impaired	Stream Crossings	Percent Ephemeral, Non-listed	Sediment-Impaired	Percent of SI to total crossings	Temperature-Impaired	Percent of TI to Total Crossings
7	Proposed – Total Length	118.2	18	1		3	1	13			130	51		42			259	42	57	21.9		
	Proposed – Comparison portion for Alternatives 7A,B	35.1									38	44					82	23	55	66.3		
	Alternative 7A	37.7	10			12		10	5		46	22			1		106	25	45	42.5		
	Alternative 7B	46.2	8			1		11			55	23					98	14	37	37.8		
	Proposed – Comparison portion for Alternative 7C	20.1	1								8			8			17	47				
	Alternative 7C	20.3						1			22			1			24	92				
	Proposed – Comparison portion for Alternative 7D	6.2				2		1			10			4			17	59				
	Alternative 7D	6.8				2					9			6			17	53				
	Proposed – Comparison portion for Alternative 7E	3.8	5														5					
	Alternative 7E	4.5	7														7					
	Proposed – Comparison portion for Alternative 7F	10.5	17			1		7			7						32	22				
	Alternative 7F	10.8	4			1		6			8						19	42				
	Proposed – Comparison portion for Alternative 7G	3.3									4						4	100				
	Alternative 7G	3.4																				
Proposed – Comparison portion for Alternative 7K	118.2	18	1		3	1	13			130	51		42			259	42	57	21.9			
Alternative 7K	148.1	46	1		9		70		1	316	22	8	19	1	1	494	64	16	3.3	9	1.9	
8	Proposed – Total Length	131.5	12			1	1	22	2		170	16	3	37	1	1	266	59	36	13.8		
	Proposed – Comparison portion for Alternative 8A	51.9	8					3			27	1		20			59	46	1	1.7		
	Alternative 8A	53.6	4					3	2		16	1		27	1		54	30	2	3.8		
	Proposed – Comparison portion for Alternative 8B	45.3						9	2		80	15	3	5	1	1	116	57	34	30.4		
	Alternative 8B	45.8						1	2		36	26	2	3	1		71	25	46	66.7		
	Proposed – Comparison portion for Alternative 8C	6.5						1	2		13	2					18	61	6	33.3		
	Alternative 8C	6.4						1			18	2					21	71	5	23.8		
	Proposed – Comparison portion for Alternative 8D	6.9									3	4	1		1	1	10	38	8	100.0		
	Alternative 8D	8.1									4	2	1		1	1	9	50	8	100.0		
Proposed – Comparison portion for Alternative 8E	7.0									1			5			6	17					
Alternative 8E	18.3							2		12						14	86					
9	Proposed – Total Length	162.2	4	2		15		16	5	1	190	14	3	72			322	59	15	4.7	5	1.6
	Proposed – Comparison portion for Alternative 9A	7.8		2							7			7			16	44				
	Alternative 9A	7.7	1	4	1						2			6			14	15			1	7.7
	Proposed – Comparison portion for Alternative 9B	49.1	2			6		8	5		36	10		3			70	50	13	18.6		
	Alternative 9B	52.3	2							35	6			14			57	53	8	14.0		
	Proposed – Comparison portion for Alternative 9C	14.4									24			3			27	89				
	Alternative 9C	14.4					1				7	1		12			21	33	2	9.5		
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	1					2	1	1	80			51			136	59			1	0.7
	Alternative 9D	60.1									38	3		1			42	86	5	11.9		
	Alternative 9F	63.3									48	3		6			57	79	5	8.8	1	1.8
	Alternative 9G	57.8									31	3		1			35	83	5	14.3		
Alternative 9H	61.0									41	3		6			50	76	5	10.0	1	2.0	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	1					2	1	1	80			51			136						
Alternative 9E (revised)	70.6	7			1	1				79	12	7	1	1		109	65	19	13.6	8	5.7	
10	Proposed – Total Length	34.4							3		8	5		10			26	31				
Total of Proposed Only^{2/}			141	11	1	83	2	288	10	1	1,337	152	6	199	1	1	2,202	60	177		5	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Blank cells indicate null value
 SI = sediment-impaired; TI = temperature-impaired

Source: DEQ

^{1/} Artificial = pipe, aqueduct, canal, drain, ditch or artificial path (natural stream channelized into pipe, ditch or culvert)

^{2/} The number of crossings are based on the disturbance acres for each stream crossing type and have been rounded to the nearest whole number; therefore numbers are inexact and columns/rows may not sum exactly

Table D.16-7. Potential Construction Disturbance (in Acres per Depth Range) in Areas Containing Shallow Groundwater

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Depth to Groundwater					Total Acres	Percent
			1 to 4 feet	4 to 7 feet	7 to 10 feet	10 to 14 feet	14+ feet		
1W	1W(a) Proposed – Total Length	73.8					777	777	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5					148	148	
	Alternative 1W(a)-B	20.9					271	271	
	1W(c) Proposed – Total Length	73.6					957	957	
2	Proposed – Total Length	91.9					1,780	1,780	
	Proposed – Comparison portion for Alternative 2A	16.8					309	309	
	Alternative 2A	16.0					355	355	
	Proposed – Comparison portion for Alternative 2B	12.5					238	238	
3	Alternative 2B	12.2					209	209	
	Segment 3 Proposed – Total Length	45.9					833	833	
4 ^{1/}	Segment 3A Proposed – Total Length	5.1					60	60	
	Proposed – Total Length	197.6	205	28			3,663	3,896	6.0
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	86	28			1,598	1,712	6.6
	Alternative 4B	100.2	88	72			1,922	2,083	7.7
	Alternative 4C	101.6	67	56			1,949	2,072	5.9
	Alternative 4D	100.8	88	53			1,968	2,110	6.7
	Alternative 4E	102.2	67	37			1,976	2,080	5.0
	Alternative 4F	87.5	85	28			1,614	1,727	6.5
5	Proposed – Total Length	55.7			18		1,160	1,179	1.5
	Proposed – Comparison portion for Alternatives 5A,B	22.3			18		443	461	3.9
	Alternative 5A	29.7			24		620	644	3.7
	Alternative 5B	40.4					842	842	0.0
	Proposed – Comparison portion for Alternatives 5C	32.9			18		713	731	2.5
	Alternative 5C	26.0			35		474	509	7.0
	Proposed – Comparison portion for Alternatives 5D	19.2					484	484	
	Alternative 5D	17.0					416	416	
6	Proposed – Comparison portion for Alternatives 5E	5.8					174	174	
	Alternative 5E	5.3					165	165	
6	Proposed – Total Length	0.5					65	65	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-7. Potential Construction Disturbance (in Acres per Depth Range) in Areas Containing Shallow Groundwater cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Depth to Groundwater					Total Acres	Percent
			1 to 4 feet	4 to 7 feet	7 to 10 feet	10 to 14 feet	14+ feet		
7	Proposed – Total Length	118.2	28		14	203	2,007	2,252	10.9
	Proposed – Comparison portion for Alternatives 7A,B	35.1	28		14		611	652	6.3
	Alternative 7A	37.7	15		25		735	774	5.0
	Alternative 7B	46.2	32				888	920	3.5
	Proposed – Comparison portion for Alternative 7C	20.1					372	372	
	Alternative 7C	20.3					362	362	
	Proposed – Comparison portion for Alternative 7D	6.2					132	132	
	Alternative 7D	6.8					153	153	
	Proposed – Comparison portion for Alternative 7E	3.8					72	72	
	Alternative 7E	4.5					96	96	
	Proposed – Comparison portion for Alternative 7F	10.5					225	225	
	Alternative 7F	10.8					213	213	
	Proposed – Comparison portion for Alternative 7G	3.3					64	64	
	Alternative 7G	3.4					87	87	
Proposed – Comparison portion for Alternative 7K	118.2	28		14	203	2,004	2,249	10.9	
Alternative 7K	148.1	2				2,857	2,859	0.1	
8	Proposed – Total Length	131.5					2,518	2,518	
	Proposed – Comparison portion for Alternative 8A	51.9					963	963	
	Alternative 8A	53.6					978	978	
	Proposed – Comparison portion for Alternative 8B	45.3					899	899	
	Alternative 8B	45.8					916	916	
	Proposed – Comparison portion for Alternative 8C	6.5					163	163	
	Alternative 8C	6.4					140	140	
	Proposed – Comparison portion for Alternative 8D	6.9					147	147	
	Alternative 8D	8.1					174	174	
	Proposed – Comparison portion for Alternative 8E	7.0					124	124	
Alternative 8E	18.3					334	334		
9	Proposed – Total Length	162.2					3,293	3,293	
	Proposed – Comparison portion for Alternative 9A	7.8					147	147	
	Alternative 9A	7.7					162	162	
	Proposed – Comparison portion for Alternative 9B	49.1					1,037	1,037	
	Alternative 9B	52.3					965	965	
	Proposed – Comparison portion for Alternative 9C	14.4					304	304	
	Alternative 9C	14.4					320	320	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2					1,145	1,145	
	Alternative 9D	60.1					1,046	1,046	
	Alternative 9F	63.3					1,165	1,165	
	Alternative 9G	57.8					1,058	1,058	
	Alternative 9H	61.0					1,162	1,162	
Proposed – Comparison portion for Alternative 9E (revised)	61.4					1,230	1,230		
Alternative 9E (revised)	70.6					1,289	1,289		
10	Proposed – Total Length	34.4					671	671	

Source: STATSGO

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acres have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

Table D.16-8. Potential Operations Disturbance (in Acres per Depth Range) in Areas Containing Shallow Groundwater

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Depth to Groundwater					Total Acres	Percent
			1 to 4 feet	4 to 7 feet	7 to 10 feet	10 to 14 feet	14+ feet		
1W	1W(a) Proposed – Total Length	73.8					177	177	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5					27	27	
	Alternative 1W(a)-B	20.9					44	44	
	1W(c) Proposed – Total Length	73.6					124	124	
2	Proposed – Total Length	91.9					245	245	
	Proposed – Comparison portion for Alternative 2A	16.8					28	28	
	Alternative 2A	16.0					40	40	
	Proposed – Comparison portion for Alternative 2B	12.5					21	21	
	Alternative 2B	12.2					17	17	
3	Segment 3 Proposed – Total Length	45.9					140	140	
	Segment 3A Proposed – Total Length	5.1					12	12	
4 ^{1/}	Proposed – Total Length	197.6	16	3			510	530	3.7
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	6	3			203	213	4.6
	Alternative 4B	100.2	7	7			259	273	5.2
	Alternative 4C	101.6	6	6			254	265	4.4
	Alternative 4D	100.8	7	6			268	280	4.5
	Alternative 4E	102.2	6	4			259	269	3.7
	Alternative 4F	87.5	7	3			204	214	4.6
5	Proposed – Total Length	55.7			2		166	169	1.5
	Proposed – Comparison portion for Alternatives 5A,B	22.3			2		56	58	4.3
	Alternative 5A	29.7			2		78	80	2.9
	Alternative 5B	40.4					92	92	
	Proposed – Comparison portion for Alternatives 5C	32.9			2		91	94	2.7
	Alternative 5C	26.0			3		52	56	6.1
	Proposed – Comparison portion for Alternatives 5D	19.2					63	63	
	Alternative 5D	17.0					53	53	
	Proposed – Comparison portion for Alternatives 5E	5.8					24	24	
Alternative 5E	5.3					24	24		
6	Proposed – Total Length	0.5					61	61	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-8. Potential Operations Disturbance (in Acres per Depth Range) in Areas Containing Shallow Groundwater cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Depth to Groundwater					Total Acres	Percent
			1 to 4 feet	4 to 7 feet	7 to 10 feet	10 to 14 feet	14+ feet		
7	Proposed – Total Length	118.2	2		2	19	242	265	8.7
	Proposed – Comparison portion for Alternatives 7A,B	35.1	2		2		67	71	5.5
	Alternative 7A	37.7	1		3		89	93	4.4
	Alternative 7B	46.2	2				94	96	2.3
	Proposed – Comparison portion for Alternative 7C	20.1					36	36	
	Alternative 7C	20.3					28	28	
	Proposed – Comparison portion for Alternative 7D	6.2					11	11	
	Alternative 7D	6.8					13	13	
	Proposed – Comparison portion for Alternative 7E	3.8					5	5	
	Alternative 7E	4.5					9	9	
	Proposed – Comparison portion for Alternative 7F	10.5					23	23	
	Alternative 7F	10.8					23	23	
	Proposed – Comparison portion for Alternative 7G	3.3					6	6	
	Alternative 7G	3.4					6	6	
Proposed – Comparison portion for Alternative 7K	118.2	2		2	19	241	264	8.7	
Alternative 7K	148.1	0				381	382	0.1	
8	Proposed – Total Length	131.5					249	249	
	Proposed – Comparison portion for Alternative 8A	51.9					102	102	
	Alternative 8A	53.6					103	103	
	Proposed – Comparison portion for Alternative 8B	45.3					87	87	
	Alternative 8B	45.8					69	69	
	Proposed – Comparison portion for Alternative 8C	6.5					15	15	
	Alternative 8C	6.4					16	16	
	Proposed – Comparison portion for Alternative 8D	6.9					15	15	
	Alternative 8D	8.1					15	15	
	Proposed – Comparison portion for Alternative 8E	7.0					10	10	
Alternative 8E	18.3					26	26		
9	Proposed – Total Length	162.2					360	360	
	Proposed – Comparison portion for Alternative 9A	7.8					15	15	
	Alternative 9A	7.7					14	14	
	Proposed – Comparison portion for Alternative 9B	49.1					122	122	
	Alternative 9B	52.3					83	83	
	Proposed – Comparison portion for Alternative 9C	14.4					27	27	
	Alternative 9C	14.4					26	26	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2					106	106	
	Alternative 9D	60.1					84	84	
	Alternative 9F	63.3					93	93	
	Alternative 9G	57.8					87	87	
	Alternative 9H	61.0					96	96	
Proposed – Comparison portion for Alternative 9E (revised)	61.4					116	116		
Alternative 9E (revised)	70.6					135	135		
10	Proposed – Total Length	34.4					74	74	

Source: STATSGO

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

Table D.16-10. Potable Water Wells within One-Half Mile of Transmission Lines

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Potable Water Wells
1W	1W(a) Proposed – Total Length	73.8	24
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	22
	Alternative 1W(a)-B	20.9	37
	1W(c) Proposed – Total Length	73.6	56
2	Proposed – Total Length	91.9	7
	Proposed – Comparison portion for Alternative 2A	16.8	6
	Alternative 2A	16.0	4
	Proposed – Comparison portion for Alternative 2B	12.5	5
	Alternative 2B	12.2	12
3	Segment 3 Proposed – Total Length	45.9	6
	Segment 3A Proposed – Total Length	5.1	
4 ^{1/}	Proposed – Total Length	197.6	36
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	4
	Alternative 4B	100.2	11
	Alternative 4C	101.6	15
	Alternative 4D	100.8	7
	Alternative 4E	102.2	11
	Alternative 4F	87.5	7
5	Proposed – Total Length	55.7	40
	Proposed – Comparison portion for Alternatives 5A,B	22.3	7
	Alternative 5A	29.7	4
	Alternative 5B	40.4	7
	Proposed – Comparison portion for Alternatives 5C	32.9	8
	Alternative 5C	26.0	4
	Proposed – Comparison portion for Alternatives 5D	19.2	10
	Alternative 5D	17.0	28
	Proposed – Comparison portion for Alternatives 5E	5.8	9
Alternative 5E	5.3	7	
6	Proposed – Total Length	0.5	4

Source: IDWR

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Potable Water Wells
7	Proposed – Total Length	118.2	89
	Proposed – Comparison portion for Alternatives 7A,B	35.1	7
	Alternative 7A	37.7	12
	Alternative 7B	46.2	6
	Proposed – Comparison portion for Alternative 7C	20.1	5
	Alternative 7C	20.3	12
	Proposed – Comparison portion for Alternative 7D	6.2	
	Alternative 7D	6.8	5
	Proposed – Comparison portion for Alternative 7E	3.8	14
	Alternative 7E	4.5	10
	Proposed – Comparison portion for Alternative 7F	10.5	15
	Alternative 7F	10.8	1
	Proposed – Comparison portion for Alternative 7G	3.3	5
	Alternative 7G	3.4	7
	Proposed – Comparison portion for Alternative 7K	118.2	89
	Alternative 7K	148.1	28
8	Proposed – Total Length	131.5	201
	Proposed – Comparison portion for Alternative 8A	51.9	83
	Alternative 8A	53.6	127
	Proposed – Comparison portion for Alternative 8B	45.3	99
	Alternative 8B	45.8	135
	Proposed – Comparison portion for Alternative 8C	6.5	14
	Alternative 8C	6.4	26
	Proposed – Comparison portion for Alternative 8D	6.9	1
	Alternative 8D	8.1	9
	Proposed – Comparison portion for Alternative 8E	7.0	2
Alternative 8E	18.3	1	
9	Proposed – Total Length	162.2	91
	Proposed – Comparison portion for Alternative 9A	7.8	5
	Alternative 9A	7.7	2
	Proposed – Comparison portion for Alternative 9B	49.1	5
	Alternative 9B	52.3	23
	Proposed – Comparison portion for Alternative 9C	14.4	1
	Alternative 9C	14.4	16
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	46
	Alternative 9D	60.1	21
	Alternative 9F	63.3	35
	Alternative 9G	57.8	21
Alternative 9H	61.0	35	
Proposed – Comparison portion for Alternative 9E (revised)	61.4	49	
Alternative 9E (revised)	70.6	10	
10	Proposed – Total Length	34.4	59

Table D.16-11. Miles of the Eastern Snake River Plain Aquifer Crossed by Proposed and Alternative Routes

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Snake River Plain Aquifer
1W	1W(a) Proposed – Total Length	73.8	
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	
	Alternative 1W(a)-B	20.9	
	1W(c) Proposed – Total Length	73.6	
2	Proposed – Total Length	91.9	
	Proposed – Comparison portion for Alternative 2A	16.8	
	Alternative 2A	16.0	
	Proposed – Comparison portion for Alternative 2B	12.5	
	Alternative 2B	12.2	
3	Segment 3 Proposed – Total Length	45.9	
	Segment 3A Proposed – Total Length	5.1	
4 ^{1/}	Proposed – Total Length	197.6	
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	
	Alternative 4B	100.2	
	Alternative 4C	101.6	
	Alternative 4D	100.8	
	Alternative 4E	102.2	
5	Proposed – Total Length	55.7	3.1
	Proposed – Comparison portion for Alternatives 5A,B	22.3	
	Alternative 5A	29.7	
	Alternative 5B	40.4	
	Proposed – Comparison portion for Alternatives 5C	32.9	
	Alternative 5C	26.0	
	Proposed – Comparison portion for Alternatives 5D	19.2	3.1
	Alternative 5D	17.0	2.6
	Proposed – Comparison portion for Alternatives 5E	5.8	3.1
	Alternative 5E	5.3	2.7
6	Proposed – Total Length	0.5	0.5

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero miles or null value

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Snake River Plain Aquifer
7	Proposed – Total Length	118.2	28.7
	Proposed – Comparison portion for Alternatives 7A,B	35.1	
	Alternative 7A	37.7	
	Alternative 7B	46.2	
	Proposed – Comparison portion for Alternative 7C	20.1	
	Alternative 7C	20.3	
	Proposed – Comparison portion for Alternative 7D	6.2	
	Alternative 7D	6.8	
	Proposed – Comparison portion for Alternative 7E	3.8	3.6
	Alternative 7E	4.5	0.7
	Proposed – Comparison portion for Alternative 7F	10.5	5.0
	Alternative 7F	10.8	
	Proposed – Comparison portion for Alternative 7G	3.3	1.4
	Alternative 7G	3.4	2.7
8	Proposed – Total Length	131.5	42.3
	Proposed – Comparison portion for Alternative 8A	51.9	42.3
	Alternative 8A	53.6	24.5
	Proposed – Comparison portion for Alternative 8B	45.3	
	Alternative 8B	45.8	
	Proposed – Comparison portion for Alternative 8C	6.5	
	Alternative 8C	6.4	
	Proposed – Comparison portion for Alternative 8D	6.9	
	Alternative 8D	8.1	
	Proposed – Comparison portion for Alternative 8E	7.0	
Alternative 8E	18.3		
9	Proposed – Total Length	162.2	8.4
	Proposed – Comparison portion for Alternative 9A	7.8	5.4
	Alternative 9A	7.7	2.6
	Proposed – Comparison portion for Alternative 9B	49.1	
	Alternative 9B	52.3	
	Proposed – Comparison portion for Alternative 9C	14.4	
	Alternative 9C	14.4	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	
	Alternative 9D	60.1	
	Alternative 9F	63.3	
Alternative 9G	57.8		
Alternative 9H	61.0		
Proposed – Comparison portion for Alternative 9E (revised)	61.4		
Alternative 9E (revised)	70.6		
10	Proposed – Total Length	34.4	34.4

Table D.16-12. Estimated Transmission Line Construction Water Requirements per Segment

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Water Requirement	Total Water Requirement	Construction Period	Volume Per Day
			(gallons)	(acre-feet)	(days)	
1W	1W(a) Proposed – Total Length	73.8	1,726,656	5.3	355	4,864
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	385,410	1.2	75	5,139
	Alternative 1W(a)-B	20.9	487,930	1.5	94	5,191
	1W(c) Proposed – Total Length	73.6	1,561,498	4.8	293	5,329
2	Proposed – Total Length	91.9	2,728,139	8.4	368	7,413
	Proposed – Comparison portion for Alternative 2A	16.8	498,794	1.5	110	4,534
	Alternative 2A	16.0	473,825	1.5	108	4,387
	Proposed – Comparison portion for Alternative 2B	12.5	371,073	1.1	49	7,573
	Alternative 2B	12.2	361,706	1.1	48	7,536
3	Segment 3 Proposed – Total Length	45.9	1,667,196	5.1	401	4,158
	Segment 3A Proposed – Total Length	5.1	157,100	0.6	45	4,158
4 ^{1/}	Proposed – Total Length	197.6	5,884,609	18.1	740	7,952
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	2,536,493	7.8	329	7,710
	Alternative 4B	100.2	2,984,146	9.2	311	9,595
	Alternative 4C	101.6	3,026,851	9.3	365	8,293
	Alternative 4D	100.8	3,002,133	9.2	370	8,114
	Alternative 4E	102.2	3,044,838	9.3	367	8,297
	Alternative 4F	87.5	2,607,177	8.0	372	7,009
5	Proposed – Total Length	55.7	1,614,478	5.0	378	4,271
	Proposed – Comparison portion for Alternatives 5A,B	22.3	647,670	2.0	151	4,289
	Alternative 5A	29.7	862,476	2.6	201	4,291
	Alternative 5B	40.4	1,172,666	3.6	274	4,280
	Proposed – Comparison portion for Alternatives 5C	32.9	953,947	2.9	230	4,148
	Alternative 5C	26.0	753,426	2.3	181	4,163
	Proposed – Comparison portion for Alternatives 5D	19.2	556,881	1.7	134	4,156
	Alternative 5D	17.0	494,375	1.5	121	4,086
	Proposed – Comparison portion for Alternatives 5E	5.8	167,262	0.5	40	4,182
Alternative 5E	5.3	153,373	0.5	37	4,145	
6	Proposed – Total Length	0.5	65,897	0.2	218	302

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-12. Estimated Transmission Line Construction Water Requirements per Segment cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Total Water Requirement	Total Water Requirement	Construction Period	Volume Per Day
			(gallons)	(acre-feet)	(days)	
7	Proposed – Total Length	118.2	3,518,904	10.8	480	7,331
	Proposed – Comparison portion for Alternatives 7A,B	35.1	1,044,274	3.2	158	6,609
	Alternative 7A	37.7	1,122,647	3.4	169	6,643
	Alternative 7B	46.2	1,375,654	4.2	204	6,743
	Proposed – Comparison portion for Alternative 7C	20.1	598,613	1.8	82	7,300
	Alternative 7C	20.3	603,205	1.9	83	7,268
	Proposed – Comparison portion for Alternative 7D	6.2	185,028	0.6	25	7,401
	Alternative 7D	6.8	201,938	0.6	28	7,212
	Proposed – Comparison portion for Alternative 7E	3.8	113,844	0.3	15	7,590
	Alternative 7E	4.5	133,341	0.4	18	7,408
	Proposed – Comparison portion for Alternative 7F	10.5	313,696	1.0	43	7,295
	Alternative 7F	10.8	320,921	1.0	44	7,294
	Proposed – Comparison portion for Alternative 7G	3.3	98,279	0.3	13	7,560
	Alternative 7G	3.4	100,071	0.3	13	7,698
	Proposed – Comparison portion for Alternative 7K	118.2	3,518,904	10.8	480	7,331
Alternative 7K	148.1	4,410,863	13.5	517	8,532	
8	Proposed – Total Length	131.5	3,802,261	11.7	435	8,741
	Proposed – Comparison portion for Alternative 8A	51.9	1,500,956	4.6	171	8,778
	Alternative 8A	53.6	1,549,783	4.8	178	8,707
	Proposed – Comparison portion for Alternative 8B	45.3	1,308,468	4.0	150	8,723
	Alternative 8B	45.8	1,323,236	4.1	152	8,705
	Proposed – Comparison portion for Alternative 8C	6.5	188,907	0.6	22	8,587
	Alternative 8C	6.4	185,417	0.6	21	8,829
	Proposed – Comparison portion for Alternative 8D	6.9	199,704	0.6	23	8,683
	Alternative 8D	8.1	233,511	0.7	27	8,649
	Proposed – Comparison portion for Alternative 8E	7.0	201,048	0.6	23	8,741
Alternative 8E	18.3	528,993	1.6	62	8,532	
9	Proposed – Total Length	162.2	4,658,923	14.3	504	9,244
	Proposed – Comparison portion for Alternative 9A	7.8	223,564	0.7	24	9,315
	Alternative 9A	7.7	220,833	0.7	24	9,201
	Proposed – Comparison portion for Alternative 9B	49.1	1,410,246	4.3	154	9,157
	Alternative 9B	52.3	1,503,256	4.6	165	9,111
	Proposed – Comparison portion for Alternative 9C	14.4	412,378	1.3	46	8,965
	Alternative 9C	14.4	413,394	1.3	48	8,612
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	1,641,467	5.0	178	9,222
	Alternative 9D	60.1	1,727,271	5.3	181	9,543
	Alternative 9F	63.3	1,818,759	5.6	196	9,279
	Alternative 9G	57.8	1,659,119	5.1	179	9,244
	Alternative 9H	61.0	1,750,607	5.4	189	9,244
Proposed – Comparison portion for Alternative 9E (revised)	61.4	1,763,242	5.4	189	9,315	
Alternative 9E (revised)	70.6	2,027,442	6.2	220	9,201	
10	Proposed – Total Length	34.4	1,021,405	3.1	291	3,510
TOTAL WATER REQUIRED: Proposed Segments			26,768,979 gallons / 82 acre-feet			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Segment 4 Proposed – Total Length ^{1/}	Bear River			X	X
	Bear River (Tributary 01)			X	
	Bear River (Tributary 02)			X	
	Bear River (Tributary 03)			X	
	Bear River (Tributary 04)			X	
	Bear River (Tributary 05)			X	
	Marsh Creek	X			X
	Montpelier Creek			X	
	Sheep Creek			X	
	Sheep Creek (Tributary 01)			X	
	Sheep Creek (Tributary 02)			X	
	Sheep Creek (Tributary 03)			X	
	Sheep Creek (Tributary 04)			X	
	Swan Lake Creek			X	
	Segment 4 Proposed – Comparison Portion for Alternatives 4B, C, D, E, F	Bear River			X
Alternative 4B	Bear River			X	
Alternative 4C	Bear River			X	
Alternative 4D	Bear River			X	
Alternative 4E	Bear River			X	
Alternative 4F	Bear River			X	
Segment 5 Proposed – Total Length	Bannock Creek			X	
	Bannock Creek (Tributary 16)			X	
	Bannock Creek (Tributary 17)			X	
	Bannock Creek (Tributary 18)			X	
	Bannock Creek (Tributary 19)			X	
	Bannock Creek (Tributary 20)			X	
	Bannock Creek (Tributary 21)			X	
	Bannock Creek (Tributary 22)			X	
	Bannock Creek (Tributary 23)			X	
	Bannock Creek (Tributary 24)			X	
	Bannock Creek (Tributary 25)			X	
	Bannock Creek (Tributary 27)			X	
	Deadwood Creek	X			
	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 01)	X			
	East Fork Rock Creek (Tributary 02)	X			
	East Fork Rock Creek (Tributary 03)	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 06)	X			
	East Fork Rock Creek (Tributary 08)	X			
	East Fork Rock Creek (Tributary 09)	X			
	East Fork Rock Creek (Tributary 10)	X			
	Hawkins Creek	X			
	Hawkins Creek (Tributary 01)	X			
	Hawkins Creek (Tributary 02)	X			
	Hawkins Creek (Tributary 03)	X			
	Hawkins Creek (Tributary 04)	X			
	Hawkins Creek (Tributary 05)	X			
	Hawkins Creek (Tributary 06)	X			
	Marsh Creek	X			X
	Pilot Spring Creek	X			
Rattlesnake Creek (Tributary 04)				X	
Rattlesnake Creek (Tributary 05)				X	
West Fork Bannock Creek (Tributary 01)				X	

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Segment 5 Proposed – Total Length (cont)	West Fork Bannock Creek (Tributary 02)			X	
	Yellow Dog Creek	X			
	Yellow Dog Creek (Tributary 01)	X			
Segment 5 Proposed – Comparison Portion for Alternatives 5A, B	Bannock Creek			X	
	Bannock Creek (Tributary 16)			X	
	Bannock Creek (Tributary 17)			X	
	Bannock Creek (Tributary 18)			X	
	Bannock Creek (Tributary 19)			X	
	Bannock Creek (Tributary 20)			X	
	Bannock Creek (Tributary 21)			X	
	Bannock Creek (Tributary 22)			X	
	Bannock Creek (Tributary 23)			X	
	Bannock Creek (Tributary 24)			X	
	Bannock Creek (Tributary 25)			X	
	Bannock Creek (Tributary 27)			X	
	Deadwood Creek	X			
	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 03)	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 06)	X			
	East Fork Rock Creek (Tributary 09)	X			
	East Fork Rock Creek (Tributary 10)	X			
	Hawkins Creek (Tributary 04)	X			
	Hawkins Creek (Tributary 05)	X			
	Hawkins Creek (Tributary 06)	X			
	Rattlesnake Creek (Tributary 04)				X
	Rattlesnake Creek (Tributary 05)				X
	West Fork Bannock Creek (Tributary 01)				X
	West Fork Bannock Creek (Tributary 02)				X
	Yellow Dog Creek	X			
	Yellow Dog Creek (Tributary 01)	X			
	Alternative 5A	Bannock Creek			X
Bannock Creek (Tributary 04)				X	
Bannock Creek (Tributary 05)				X	
Bannock Creek (Tributary 06)				X	
Bannock Creek (Tributary 07)				X	
Deadwood Creek (Tributary 01)		X			
East Fork Rock Creek		X			
East Fork Rock Creek (Tributary 04)		X			
East Fork Rock Creek (Tributary 05)		X			
East Fork Rock Creek (Tributary 10)		X			
Hawkins Creek (Tributary 04)		X			
Hawkins Creek (Tributary 05)		X			
Hawkins Creek (Tributary 06)		X			
South Fork Rock Creek (Tributary 07)		X			
South Fork Rock Creek (Tributary 09)		X			
South Fork Rock Creek (Tributary 10)		X			
South Fork Rock Creek (Tributary 11)		X			
South Fork Rock Creek (Tributary 32)		X			
South Fork Rock Creek (Tributary 33)		X			
South Fork Rock Creek (Tributary 34)		X			
South Fork Rock Creek (Tributary 35)		X			
South Fork Rock Creek (Tributary 37)		X			
South Fork Rock Creek (Tributary 45)		X			

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Alternative 5B	Bannock Creek			X	
	Bannock Creek (Tributary 09)			X	
	Bannock Creek (Tributary 10)			X	
	Bannock Creek (Tributary 11)			X	
	Deadwood Creek (Tributary 01)	X			
	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 10)	X			
	Hawkins Creek (Tributary 04)	X			
	Hawkins Creek (Tributary 05)	X			
	Hawkins Creek (Tributary 06)	X			
	South Fork Rock Creek (Tributary 06)	X			
	South Fork Rock Creek (Tributary 07)	X			
	South Fork Rock Creek (Tributary 09)	X			
	South Fork Rock Creek (Tributary 10)	X			
	South Fork Rock Creek (Tributary 11)	X			
	South Fork Rock Creek (Tributary 12)	X			
	South Fork Rock Creek (Tributary 20)	X			
	South Fork Rock Creek (Tributary 22)	X			
	South Fork Rock Creek (Tributary 25)	X			
	South Fork Rock Creek (Tributary 27)	X			
	South Fork Rock Creek (Tributary 28)	X			
	South Fork Rock Creek (Tributary 32)	X			
	South Fork Rock Creek (Tributary 33)	X			
	South Fork Rock Creek (Tributary 34)	X			
	South Fork Rock Creek (Tributary 36)	X			
	South Fork Rock Creek (Tributary 37)	X			
	South Fork Rock Creek (Tributary 40)	X			
	South Fork Rock Creek (Tributary 41)	X			
South Fork Rock Creek (Tributary 43)	X				
South Fork Rock Creek (Tributary 44)	X				
South Fork Rock Creek (Tributary 45)	X				
Segment 5 Proposed – Comparison Portion for Alternative 5C	Bannock Creek			X	
	Bannock Creek (Tributary 16)			X	
	Bannock Creek (Tributary 17)			X	
	Bannock Creek (Tributary 18)			X	
	Bannock Creek (Tributary 19)			X	
	Bannock Creek (Tributary 20)			X	
	Bannock Creek (Tributary 21)			X	
	Bannock Creek (Tributary 22)			X	
	Bannock Creek (Tributary 23)			X	
	Bannock Creek (Tributary 24)			X	
	Bannock Creek (Tributary 25)			X	
	Bannock Creek (Tributary 27)			X	
	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 01)	X			
	East Fork Rock Creek (Tributary 02)	X			
	East Fork Rock Creek (Tributary 03)	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 06)	X			
	East Fork Rock Creek (Tributary 08)	X			
	East Fork Rock Creek (Tributary 09)	X			
	East Fork Rock Creek (Tributary 10)	X			
	Rattlesnake Creek (Tributary 04)				X

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Segment 5 Proposed – Comparison Portion for Alternative 5C (cont)	Rattlesnake Creek (Tributary 05)			X	
	West Fork Bannock Creek (Tributary 01)			X	
	West Fork Bannock Creek (Tributary 02)			X	
	Yellow Dog Creek	X			
Alternative 5C	Bannock Creek			X	
	Bannock Creek (Tributary 01)			X	
	Bannock Creek (Tributary 02)			X	
	Bannock Creek (Tributary 03)			X	
	Bannock Creek (Tributary 12)			X	
	Bannock Creek (Tributary 13)			X	
	Bannock Creek (Tributary 14)			X	
	Bannock Creek (Tributary 15)			X	
	Bannock Creek (Tributary 26)			X	
	Moonshine Creek			X	
	Moonshine Creek (Tributary 01)			X	
	Moonshine Creek (Tributary 02)			X	
	Moonshine Creek (Tributary 03)			X	
	Rattlesnake Creek			X	
	Rattlesnake Creek (Tributary 01)			X	
	Rattlesnake Creek (Tributary 02)			X	
	Rattlesnake Creek (Tributary 03)			X	
Rattlesnake Creek (Tributary 04)			X		
Rattlesnake Creek (Tributary 05)			X		
Segment 5 Proposed – Comparison Portion for Alternative 5D	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 01)	X			
	East Fork Rock Creek (Tributary 02)	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 08)	X			
	East Fork Rock Creek (Tributary 10)	X			
Alternative 5D	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 01)	X			
	East Fork Rock Creek (Tributary 02)	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 08)	X			
	East Fork Rock Creek (Tributary 10)	X			
Segment 7 Proposed – Total Length	Bannock Creek			X	
	Bannock Creek (Tributary 18)			X	
	Bannock Creek (Tributary 19)			X	
	Bannock Creek (Tributary 20)			X	
	Bannock Creek (Tributary 21)			X	
	Bannock Creek (Tributary 22)			X	
	Bannock Creek (Tributary 23)			X	
	Bannock Creek (Tributary 24)			X	
	Bannock Creek (Tributary 25)			X	
	Bannock Creek (Tributary 27)			X	
	Bannock Creek (Tributary 30)			X	
	Deadwood Creek	X			
	Dry Creek	X			X
	Dry Creek (Tributary 01)	X			
	Dry Creek (Tributary 02)	X			
	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 03)	X			
East Fork Rock Creek (Tributary 04)	X				

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature	
Segment 7 Proposed – Total Length (cont)	East Fork Rock Creek (Tributary 05)	X				
	East Fork Rock Creek (Tributary 07)	X				
	East Fork Rock Creek (Tributary 08)	X				
	East Fork Rock Creek (Tributary 09)	X				
	East Fork Rock Creek (Tributary 10)	X				
	Hawkins Creek	X				
	Hawkins Creek (Tributary 01)	X				
	Hawkins Creek (Tributary 02)	X				
	Hawkins Creek (Tributary 03)	X				
	Hawkins Creek (Tributary 04)	X				
	Hawkins Creek (Tributary 05)	X				
	Hawkins Creek (Tributary 06)	X				
	Marsh Creek	X			X	
	Raft River	X				
	Rock Creek (Tributary 02)	X				
	Sheep Creek	X				
	South Fork Hawkins Creek	X				
	South Fork Rock Creek	X				
	South Fork Rock Creek (Tributary 01)	X				
	South Fork Rock Creek (Tributary 08)	X				
	South Fork Rock Creek (Tributary 09)	X				
	West Fork Bannock Creek (Tributary 01)				X	
	West Fork Bannock Creek (Tributary 02)				X	
	Yellow Dog Creek	X				
	Yellow Dog Creek (Tributary 01)	X				
	Segment 7 Proposed – Comparison Portion for Alternatives 7A, B	Bannock Creek			X	
		Bannock Creek (Tributary 18)			X	
		Bannock Creek (Tributary 19)			X	
Bannock Creek (Tributary 20)				X		
Bannock Creek (Tributary 21)				X		
Bannock Creek (Tributary 22)				X		
Bannock Creek (Tributary 23)				X		
Bannock Creek (Tributary 24)				X		
Bannock Creek (Tributary 25)				X		
Bannock Creek (Tributary 27)				X		
Bannock Creek (Tributary 30)				X		
Deadwood Creek		X				
East Fork Rock Creek		X				
East Fork Rock Creek (Tributary 03)		X				
East Fork Rock Creek (Tributary 04)		X				
East Fork Rock Creek (Tributary 05)		X				
East Fork Rock Creek (Tributary 07)		X				
East Fork Rock Creek (Tributary 08)		X				
East Fork Rock Creek (Tributary 09)		X				
East Fork Rock Creek (Tributary 10)		X				
Hawkins Creek		X				
Hawkins Creek (Tributary 04)		X				
Hawkins Creek (Tributary 05)		X				
Hawkins Creek (Tributary 06)		X				
Sheep Creek		X				
South Fork Rock Creek		X				
South Fork Rock Creek (Tributary 01)		X				
South Fork Rock Creek (Tributary 08)		X				
South Fork Rock Creek (Tributary 09)		X				
West Fork Bannock Creek (Tributary 01)					X	

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Segment 7 Proposed – Comparison Portion for Alternatives 7A, B (cont)	West Fork Bannock Creek (Tributary 02)			X	
	Yellow Dog Creek	X			
	Yellow Dog Creek (Tributary 01)	X			
Alternative 7A	Bannock Creek			X	
	Bannock Creek (Tributary 04)			X	
	Bannock Creek (Tributary 05)			X	
	Bannock Creek (Tributary 06)			X	
	Bannock Creek (Tributary 07)			X	
	Bannock Creek (Tributary 08)			X	
	Deadwood Creek (Tributary 01)	X			
	Hawkins Creek	X			
	Hawkins Creek (Tributary 06)	X			
	Sheep Creek	X			
	South Fork Rock Creek	X			
	South Fork Rock Creek (Tributary 04)	X			
	South Fork Rock Creek (Tributary 13)	X			
	South Fork Rock Creek (Tributary 14)	X			
	South Fork Rock Creek (Tributary 15)	X			
	South Fork Rock Creek (Tributary 16)	X			
	South Fork Rock Creek (Tributary 17)	X			
	South Fork Rock Creek (Tributary 18)	X			
	South Fork Rock Creek (Tributary 19)	X			
	South Fork Rock Creek (Tributary 20)	X			
	South Fork Rock Creek (Tributary 22)	X			
	South Fork Rock Creek (Tributary 34)	X			
	South Fork Rock Creek (Tributary 35)	X			
	South Fork Rock Creek (Tributary 38)	X			
	South Fork Rock Creek (Tributary 39)	X			
	South Fork Rock Creek (Tributary 40)	X			
	South Fork Rock Creek (Tributary 41)	X			
	South Fork Rock Creek (Tributary 42)	X			
	South Fork Rock Creek (Tributary 43)	X			
	South Fork Rock Creek (Tributary 44)	X			
	South Fork Rock Creek (Tributary 45)	X			
	Warm Springs Creek	X			
	Warm Springs Creek (Tributary 01)	X			
Warm Springs Creek (Tributary 02)	X				
Warm Springs Creek (Tributary 03)	X				
Alternative 7B	Bannock Creek			X	
	Bannock Creek (Tributary 09)			X	
	Bannock Creek (Tributary 10)			X	
	Bannock Creek (Tributary 11)			X	
	Deadwood Creek (Tributary 01)	X			
	Hawkins Creek	X			
	Hawkins Creek (Tributary 06)	X			
	Sheep Creek	X			
	South Fork Rock Creek	X			
	South Fork Rock Creek (Tributary 02)	X			
	South Fork Rock Creek (Tributary 04)	X			
	South Fork Rock Creek (Tributary 05)	X			
	South Fork Rock Creek (Tributary 06)	X			
	South Fork Rock Creek (Tributary 17)	X			
	South Fork Rock Creek (Tributary 21)	X			
	South Fork Rock Creek (Tributary 23)	X			
	South Fork Rock Creek (Tributary 24)	X			
South Fork Rock Creek (Tributary 25)	X				

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Alternative 7B (cont)	South Fork Rock Creek (Tributary 26)	X			
	South Fork Rock Creek (Tributary 27)	X			
	South Fork Rock Creek (Tributary 28)	X			
	South Fork Rock Creek (Tributary 36)	X			
	Warm Springs Creek	X			
	Warm Springs Creek (Tributary 01)	X			
	Warm Springs Creek (Tributary 02)	X			
	Warm Springs Creek (Tributary 03)	X			
Segment 7 Proposed – Comparison Portion for Alternative 7C	Raft River	X			
Alternative 7C	Raft River	X			
Segment 7 Proposed – Comparison Portion for Alternative 7G	Dry Creek	X			X
Alternative 7G	Dry Creek	X			X
Segment 7 Proposed – Comparison Portion for Alternative 7K	Bannock Creek			X	
	Bannock Creek (Tributary 18)			X	
	Bannock Creek (Tributary 19)			X	
	Bannock Creek (Tributary 20)			X	
	Bannock Creek (Tributary 21)			X	
	Bannock Creek (Tributary 22)			X	
	Bannock Creek (Tributary 23)			X	
	Bannock Creek (Tributary 24)			X	
	Bannock Creek (Tributary 25)			X	
	Bannock Creek (Tributary 27)			X	
	Bannock Creek (Tributary 30)			X	
	Deadwood Creek	X			
	Dry Creek	X			X
	Dry Creek (Tributary 01)	X			
	Dry Creek (Tributary 02)	X			
	East Fork Rock Creek	X			
	East Fork Rock Creek (Tributary 03)	X			
	East Fork Rock Creek (Tributary 04)	X			
	East Fork Rock Creek (Tributary 05)	X			
	East Fork Rock Creek (Tributary 07)	X			
	East Fork Rock Creek (Tributary 08)	X			
	East Fork Rock Creek (Tributary 09)	X			
	East Fork Rock Creek (Tributary 10)	X			
	Hawkins Creek	X			
	Hawkins Creek (Tributary 01)	X			
	Hawkins Creek (Tributary 02)	X			
	Hawkins Creek (Tributary 03)	X			
	Hawkins Creek (Tributary 04)	X			
	Hawkins Creek (Tributary 05)	X			
	Hawkins Creek (Tributary 06)	X			
	Marsh Creek	X			X
	Raft River	X			
	Rock Creek (Tributary 02)	X			
	Sheep Creek	X			
	South Fork Hawkins Creek	X			
	South Fork Rock Creek	X			
	South Fork Rock Creek (Tributary 01)	X			
	South Fork Rock Creek (Tributary 08)	X			
	South Fork Rock Creek (Tributary 09)	X			
	West Fork Bannock Creek (Tributary 01)				X
West Fork Bannock Creek (Tributary 02)				X	
Yellow Dog Creek	X				
Yellow Dog Creek (Tributary 01)	X				

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature	
Alternative 7K	Bannock Creek			X		
	Bannock Creek (Tributary 09)			X		
	Bannock Creek (Tributary 10)			X		
	Bannock Creek (Tributary 11)			X		
	Cold Creek		X			
	Cold Creek (Tributary 01)		X			
	Deadwood Creek (Tributary 01)	X				
	Dry Creek	X			X	
	Goose Creek	X	X			
	Goose Creek (Tributary 01)		X			
	Hawkins Creek	X				
	Hawkins Creek (Tributary 01)	X				
	Hawkins Creek (Tributary 02)	X				
	Hawkins Creek (Tributary 03)	X				
	Hawkins Creek (Tributary 06)	X				
	Marsh Creek	X			X	
	Raft River	X	X			
	Sheep Creek	X				
	South Fork Hawkins Creek	X				
	South Fork Rock Creek	X				
	South Fork Rock Creek (Tributary 03)	X				
	South Fork Rock Creek (Tributary 04)	X				
	South Fork Rock Creek (Tributary 29)	X				
	South Fork Rock Creek (Tributary 30)	X				
	South Fork Rock Creek (Tributary 31)	X				
	Trapper Creek	X				
	Trapper Creek (Tributary 01)	X				
	Segment 8 Proposed – Total Length	Clover Creek	X			X
		Clover Creek (Tributary 01)	X			
		Clover Creek (Tributary 02)	X			
		Cold Springs Creek	X			
Indian Creek (Tributary 12)				X		
Indian Creek (Tributary 16)				X		
Indian Creek (Tributary 17)				X		
Indian Creek (Tributary 19)				X		
Indian Creek (Tributary 21)				X		
Indian Creek (Tributary 22)				X		
Indian Creek (Tributary 25)				X	X	
Indian Creek (Tributary 26)				X	X	
Indian Creek (Tributary 14)				X		
Little Canyon Creek		X				
Little Canyon Creek (Tributary 01)		X				
Malad River		X				
North Indian Creek (Tributary 04)				X		
North Indian Creek (Tributary 05)				X		
Pioneer Reservoir		X			X	
Sand Creek				X	X	
Sand Creek (Tributary 01)				X		
Sand Creek (Tributary 02)				X		
Sand Creek (Tributary 03)				X		
Sand Creek (Tributary 04)				X		
Sand Creek (Tributary 05)				X		
Sand Creek (Tributary 06)			X			
Sand Creek (Tributary 08)			X			
Sand Creek (Tributary 09)			X			

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Segment 8 Proposed – Total Length (cont)	Sand Creek (Tributary 10)			X	
	Sand Creek (Tributary 11)			X	
	Sand Creek (Tributary 12)			X	
	Sand Creek (Tributary 13)			X	X
	Snake River				X
	South Gooding Main Canal	X			
Segment 8 Proposed – Comparison Portion for Alternative 8A	Clover Creek	X			X
	Clover Creek (Tributary 01)	X			
	Clover Creek (Tributary 02)	X			
	Little Canyon Creek	X			
	Little Canyon Creek (Tributary 01)	X			
	Malad River	X			
	Pioneer Reservoir	X			X
	South Gooding Main Canal	X			
Alternative 8A	Billingsley Creek	X			
	Little Canyon Creek	X			
	Little Canyon Creek (Tributary 01)	X			
	Little Canyon Creek (Tributary 02)	X			
	Little Canyon Creek (Tributary 03)	X			
	Snake River	X			
Segment 8 Proposed – Comparison Portion for Alternative 8B	Snake River (Tributary 04)	X			
	Indian Creek (Tributary 12)			X	
	Indian Creek (Tributary 16)			X	
	Indian Creek (Tributary 17)			X	
	Indian Creek (Tributary 19)			X	
	Indian Creek (Tributary 21)			X	
	Indian Creek (Tributary 22)			X	
	Indian Creek (Tributary 25)			X	X
	Indian Creek (Tributary 26)			X	X
	Indian Creek (Tributary 14)			X	
	North Indian Creek (Tributary 04)			X	
	North Indian Creek (Tributary 05)			X	
	Sand Creek			X	X
	Sand Creek (Tributary 01)			X	
	Sand Creek (Tributary 02)			X	
	Sand Creek (Tributary 03)			X	
	Sand Creek (Tributary 04)			X	
	Sand Creek (Tributary 05)			X	
	Sand Creek (Tributary 06)			X	
	Sand Creek (Tributary 08)			X	
	Sand Creek (Tributary 09)			X	
	Sand Creek (Tributary 10)			X	
	Sand Creek (Tributary 11)			X	
Sand Creek (Tributary 12)			X		
Sand Creek (Tributary 13)			X	X	
Snake River				X	
Alternative 8B	Indian Creek			X	X
	Indian Creek (Tributary 01)			X	
	Indian Creek (Tributary 02)			X	
	Indian Creek (Tributary 03)			X	
	Indian Creek (Tributary 04)			X	
	Indian Creek (Tributary 05)			X	
	Indian Creek (Tributary 06)			X	
	Indian Creek (Tributary 07)			X	
Indian Creek (Tributary 08)			X		

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Alternative 8B (cont)	Indian Creek (Tributary 09)			X	
	Indian Creek (Tributary 10)			X	
	Indian Creek (Tributary 15)			X	
	Indian Creek (Tributary 17)			X	
	Indian Creek (Tributary 19)			X	
	Indian Creek (Tributary 21)			X	
	Indian Creek (Tributary 22)			X	
	Indian Creek (Tributary 23)			X	
	Indian Creek (Tributary 24)			X	X
	Indian Creek (Tributary 26)			X	X
	Indian Creek (Tributary13)			X	
	North Indian Creek			X	X
	North Indian Creek (Tributary 01)			X	
	North Indian Creek (Tributary 02)			X	
	North Indian Creek (Tributary 06)			X	
	North Indian Creek (Tributary 07)			X	
	North Indian Creek (Tributary 08)			X	
	Sand Creek				X
	Sand Creek (Tributary 04)			X	
	Sand Creek (Tributary 07)			X	
Sand Creek (Tributary 11)			X		
Snake River				X	
Alternative 8B – Comparison Portion for Alternative 8C	Indian Creek (Tributary 15)			X	
	Indian Creek (Tributary 17)			X	
	Indian Creek (Tributary 19)			X	
	Indian Creek (Tributary 21)			X	
	Indian Creek (Tributary 22)			X	
Alternative 8C	Indian Creek (Tributary 15)			X	
	Indian Creek (Tributary 17)			X	
	Indian Creek (Tributary 18)			X	
	Indian Creek (Tributary 19)			X	
	Indian Creek (Tributary 20)			X	
	Indian Creek (Tributary 21)			X	
	Indian Creek (Tributary 22)			X	
Segment 8 Proposed – Comparison Portion for Alternative 8D	Indian Creek (Tributary 12)			X	
	Indian Creek (Tributary14)			X	
	North Indian Creek (Tributary 04)			X	
	North Indian Creek (Tributary 05)			X	
	Sand Creek			X	X
	Sand Creek (Tributary 06)			X	
	Sand Creek (Tributary 08)			X	
	Sand Creek (Tributary 10)			X	
Sand Creek (Tributary 13)			X	X	
Alternative 8D	Indian Creek (Tributary 11)			X	
	Indian Creek (Tributary14)			X	
	North Indian Creek (Tributary 03)			X	
	North Indian Creek (Tributary 04)			X	
	Sand Creek			X	X
	Sand Creek (Tributary 08)			X	
	Sand Creek (Tributary 09)			X	
	Sand Creek (Tributary 10)			X	
	Sand Creek (Tributary 13)			X	X
	Sand Creek (Tributary 14)			X	X
Sand Creek (Tributary 15)			X	X	
Segment 8 Proposed – Comparison Portion for Alternative 8E	Snake River				X

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature	
Segment 9 Proposed – Total Length	Birch Creek			X		
	Browns Creek			X		
	Bruneau River				X	
	Bruneau River (Tributary 01)				X	
	Castle Creek	X	X			
	Castle Creek (Tributary 06)		X			
	Catherine Creek			X		
	Cottonwood Creek	X				
	Cottonwood Creek (Tributary 01)	X				
	Deadman Creek				X	
	Deadman Creek (Tributary 01)				X	
	Deadman Creek (Tributary 02)				X	
	Deadman Creek (Tributary 03)				X	
	Deadman Creek (Tributary 04)				X	
	Deadman Creek (Tributary 05)				X	
	Deadman Creek (Tributary 07)				X	
	Deadman Creek (Tributary 09)				X	
	Deadman Creek (Tributary 10)				X	
	Deadman Creek (Tributary 11)				X	
	Deadman Creek (Tributary 12)				X	
	Deadman Creek (Tributary 13)				X	
	Deadman Creek (Tributary 14)				X	
	Deadman Creek (Tributary 15)				X	
	Deadman Creek (Tributary 16)				X	
	Deadman Creek (Tributary 17)				X	
	Deadman Creek (Tributary 18)				X	
	Deadman Creek (Tributary 19)				X	
	Devil Creek			X		
	Jacks Creek	X				X
	McMullen Creek	X				X
	McMullen Creek (Tributary 01)	X				
	McMullen Creek (Tributary 02)	X				
	McMullen Creek (Tributary 03)	X				
	McMullen Creek (Tributary 04)	X				
	McMullen Creek (Tributary 05)	X				
	McMullen Creek (Tributary 06)	X				
	McMullen Creek (Tributary 07)					X
	McMullen Creek (Tributary 08)					X
	McMullen Creek (Tributary 09)					X
	McMullen Creek (Tributary 10)					X
	McMullen Creek (Tributary 11)					X
	Pickett Creek				X	
	Rock Creek	X				
	Rock Creek (Tributary 07)	X				
	Sailor Creek				X	
	Sailor Creek (Tributary 01)				X	
	Sailor Creek (Tributary 02)				X	
Sailor Creek (Tributary 03)				X		
Salmon Falls Creek			X			
Sinker Creek	X	X				
South Side Canal					X	
Sugar Valley Wash	X					
Cottonwood Creek	X					
Cottonwood Creek (Tributary 01)	X					
McMullen Creek (Tributary 07)					X	
Rock Creek (Tributary 07)	X					

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Alternative 9A	Cottonwood Creek	X			
	Cottonwood Creek (Tributary 01)	X			
	McMullen Creek (Tributary 07)				X
Segment 9 Proposed – Comparison Portion for Alternative 9B	Deadman Creek			X	
	Deadman Creek (Tributary 01)			X	
	Deadman Creek (Tributary 02)			X	
	Deadman Creek (Tributary 03)			X	
	Deadman Creek (Tributary 04)			X	
	Deadman Creek (Tributary 05)			X	
	Deadman Creek (Tributary 07)			X	
	Deadman Creek (Tributary 09)			X	
	Deadman Creek (Tributary 10)			X	
	Deadman Creek (Tributary 11)			X	
	Deadman Creek (Tributary 12)			X	
	Deadman Creek (Tributary 13)			X	
	Deadman Creek (Tributary 14)			X	
	Deadman Creek (Tributary 15)			X	
	Deadman Creek (Tributary 16)			X	
	Deadman Creek (Tributary 17)			X	
	Deadman Creek (Tributary 18)			X	
	Deadman Creek (Tributary 19)			X	
	Devil Creek		X		
	Sailor Creek				X
	Sailor Creek (Tributary 01)				X
Sailor Creek (Tributary 02)				X	
Salmon Falls Creek		X			
Alternative 9B	Deadman Creek			X	
	Deadman Creek (Tributary 05)			X	
	Deadman Creek (Tributary 06)			X	
	Deadman Creek (Tributary 07)			X	
	Deadman Creek (Tributary 08)			X	
	Deadman Creek (Tributary 19)			X	
	Devil Creek		X		
	Sailor Creek				X
	Sailor Creek (Tributary 01)				X
	Sailor Creek (Tributary 02)				X
	Salmon Falls Creek		X		
	Yahoo Creek	X			X
	Yahoo Creek (Tributary 01)	X			
	Yahoo Creek (Tributary 02)	X			
Yahoo Creek (Tributary 03)	X				
Yahoo Creek (Tributary 04)	X				
Yahoo Creek (Tributary 05)	X				
Yahoo Creek (Tributary 06)	X				
Yahoo Creek (Tributary 07)	X				
Segment 9 Proposed – Comparison Portion for Alternative 9C	Devil Creek		X		
	Salmon Falls Creek		X		
Alternative 9C	Devil Creek		X		
	Salmon Falls Creek		X		
Segment 9 Proposed – Comparison Portion for Alternatives 9D, F, G, H	Birch Creek			X	
	Browns Creek			X	
	Bruneau River				X
	Bruneau River (Tributary 01)				X
	Castle Creek	X	X		
Castle Creek (Tributary 06)		X			

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature	
Segment 9 Proposed – Comparison Portion for Alternatives 9D, F, G, H (cont)	Catherine Creek			X		
	Jacks Creek	X			X	
	Pickett Creek			X		
	Sinker Creek	X	X			
	South Side Canal				X	
	Sugar Valley Wash	X				
Alternative 9D	Corder Creek (Tributary 01)			X		
	Corder Creek (Tributary 02)			X		
	Corder Creek (Tributary 03)			X		
	Corder Creek (Tributary 04)			X		
	Corder Creek (Tributary 05)			X		
	Jack Creek			X		
	Jack Creek (Tributary 01)			X		
	Jack Creek (Tributary 02)			X		
	Rabbit Creek			X		
	Rabbit Creek (Tributary 01)			X		
	Snake River				X	
	Alternative 9F	Bruneau River				X
		Bruneau River (Tributary 01)				X
Corder Creek (Tributary 01)				X		
Corder Creek (Tributary 02)				X		
Corder Creek (Tributary 03)				X		
Corder Creek (Tributary 04)				X		
Corder Creek (Tributary 05)				X		
Jack Creek				X		
Jack Creek (Tributary 01)				X		
Jack Creek (Tributary 02)				X		
Jacks Creek		X			X	
Rabbit Creek				X		
Rabbit Creek (Tributary 01)				X		
Snake River					X	
South Side Canal					X	
Sugar Valley Wash		X				
Alternative 9G	Corder Creek (Tributary 01)			X		
	Corder Creek (Tributary 02)			X		
	Corder Creek (Tributary 03)			X		
	Corder Creek (Tributary 04)			X		
	Corder Creek (Tributary 05)			X		
	Jack Creek			X		
	Jack Creek (Tributary 01)			X		
	Jack Creek (Tributary 02)			X		
	Rabbit Creek			X		
	Rabbit Creek (Tributary 01)			X		
	Sinker Creek	X	X			
	Snake River				X	
	Alternative 9H	Bruneau River				X
Bruneau River (Tributary 01)					X	
Corder Creek (Tributary 01)				X		
Corder Creek (Tributary 02)				X		
Corder Creek (Tributary 03)				X		
Corder Creek (Tributary 04)				X		
Corder Creek (Tributary 05)				X		
Jack Creek				X		
Jack Creek (Tributary 01)				X		
Jack Creek (Tributary 02)				X		

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Alternative 9H (cont)	Jacks Creek	X			X
	Rabbit Creek			X	
	Rabbit Creek (Tributary 01)			X	
	Sinker Creek	X	X		
	Snake River				X
	South Side Canal				X
	Sugar Valley Wash	X			
Segment 9 Proposed – Comparison Portion for Alternative 9E (revised)	Birch Creek			X	
	Browns Creek			X	
	Bruneau River				X
	Bruneau River (Tributary 01)				X
	Castle Creek	X	X		
	Castle Creek (Tributary 06)		X		
	Catherine Creek			X	
	Jacks Creek	X			X
	Pickett Creek			X	
	Sinker Creek	X	X		
South Side Canal				X	
Sugar Valley Wash	X				
Alternative 9E (revised)	Birch Creek			X	
	Birch Creek (Tributary 01)			X	
	Birch Creek (Tributary 02)			X	
	Browns Creek			X	
	Browns Creek (Tributary 01)			X	
	Browns Creek (Tributary 02)			X	
	Browns Creek (Tributary 03)			X	
	Browns Creek (Tributary 04)			X	
	Browns Creek (Tributary 05)			X	
	Browns Creek (Tributary 06)			X	
	Browns Creek (Tributary 07)			X	
	Browns Creek (Tributary 08)			X	
	Browns Creek (Tributary 09)			X	
	Browns Creek (Tributary 10)			X	
	Bruneau River				X
	Castle Creek		X		
	Castle Creek (Tributary 01)	X	X		
	Castle Creek (Tributary 02)		X		
	Castle Creek (Tributary 03)		X		
	Castle Creek (Tributary 04)		X		
	Castle Creek (Tributary 05)		X		
	Castle Creek (Tributary 07)		X		
	Castle Creek (Tributary 08)		X		
	Castle Creek (Tributary 09)		X		
	Castle Creek (Tributary 10)		X		
	Castle Creek (Tributary 12)		X		
	Castle Creek (Tributary 13)		X		
	Castle Creek (Tributary 14)		X		
	Castle Creek (Tributary 15)		X		
	Castle Creek (Tributary 16)		X		
	Castle Creek (Tributary 17)		X		
	Pickett Creek			X	
Pickett Creek (Tributary 01)			X	X	
Poison Creek			X		
Sinker Creek	X	X			

Table D.16-13. TMDL and 303(d) listed Streams in the Analysis Area cont.

Segment	Stream Name	TMDL Sediment	TMDL Temperature	303(d) listed Sediment	303(d) listed Temperature
Segment 10 Proposed – Total Length	Rock Creek (Tributary 01)	X			
	Rock Creek (Tributary 02)	X			
	Rock Creek (Tributary 03)	X			
	Rock Creek (Tributary 04)	X			
	Rock Creek (Tributary 05)	X			
	Rock Creek (Tributary 06)	X			
	Snake River	X			X
	Snake River (Tributary 01)	X			
	Snake River (Tributary 02)	X			
	Snake River (Tributary 03)	X			

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-14. Acreage Comparison of Construction Related Stream Impacts

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 500 feet of Perennial and Intermittent Streams		Within 100 feet of Ephemeral Streams		Within 500 feet of TMDL and 303(d) Listed - Sediment Streams		Total Disturbed Acres
			Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	
1W	1W(a) Proposed – Total Length	73.8	153	19.7	49	6.3			777
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	43	29.4	3	1.8			148
	Alternative 1W(a)-B	20.9	30	11.0	4	1.5			271
	1W(c) Proposed – Total Length	73.6	193	20.2	63	6.6			957
2	Proposed – Total Length	91.9	58	3.3	99	5.6			1,780
	Proposed – Comparison portion for Alternative 2A	16.8	18	5.8	17	5.4			309
	Alternative 2A	16.0	7	2.1	30	8.6			355
	Proposed – Comparison portion for Alternative 2B	12.5	18	7.5	13	5.4			238
	Alternative 2B	12.2	13	6.2	17	8.3			209
3	Segment 3 Proposed – Total Length	45.9	87	10.4	42	5.0			833
	Segment 3A Proposed – Total Length	5.1	10	16.3	5	8.6			60
4 ^{1/}	Proposed – Total Length	197.6	563	14.5	168	4.3	81	2.1	3,897
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	341	19.9	74	4.3	6	0.4	1,714
	Alternative 4B	100.2	255	12.3	151	7.3	5	0.2	2,083
	Alternative 4C	101.6	238	11.5	144	6.9	5	0.2	2,073
	Alternative 4D	100.8	260	12.3	167	7.9	5	0.2	2,110
	Alternative 4E	102.2	238	11.4	152	7.3	5	0.2	2,081
	Alternative 4F	87.5	333	19.3	78	4.5	6	0.4	1,728
5	Proposed – Total Length	55.7	<1		127	10.8	193	16.4	1,179
	Proposed – Comparison portion for Alternatives 5A,B	22.3			45	9.8	129	27.9	461
	Alternative 5A	29.7	89	13.8	46	7.1	101	15.7	644
	Alternative 5B	40.4	97	11.5	62	7.4	110	13.1	843
	Proposed – Comparison portion for Alternatives 5C	32.9	<1		95	13.0	144	19.6	731
	Alternative 5C	26.0	9	1.8	36	7.1	61	12.0	509
	Proposed – Comparison portion for Alternatives 5D	19.2	<1		58	11.9	21	4.3	484
	Alternative 5D	17.0	14	3.3	36	8.7	31	7.4	416
	Proposed – Comparison portion for Alternatives 5E	5.8			8	4.3			174
Alternative 5E	5.3			7	4.5			165	
6	Proposed – Total Length	0.5							65

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero acres or null value

Acreages for TMDL and 303(d) listed streams overlap with perennial, intermittent, and ephemeral disturbance acres and are not included in the total disturbed acres column

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-14. Acreage Comparison of Construction Related Stream Impacts cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 500 feet of Perennial and Intermittent Streams		Within 100 feet of Ephemeral Streams		Within 500 feet of TMDL and 303(d) Listed - Sediment Streams		Total Disturbed Acres
			Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	
7	Proposed – Total Length	118.2	119	5.3	130	5.8	201	8.9	2,252
	Proposed – Comparison portion for Alternatives 7A,B	35.1			72	11.1	156	23.9	652
	Alternative 7A	37.7	101	13.0	71	9.2	123	15.9	775
	Alternative 7B	46.2	101	11.0	76	8.3	136	14.7	921
	Proposed – Comparison portion for Alternative 7C	20.1	14	3.8	6	1.6	13	3.4	372
	Alternative 7C	20.3	12	3.4	19	5.1	8	2.2	362
	Proposed – Comparison portion for Alternative 7D	6.2	6	4.6	6	4.8			132
	Alternative 7D	6.8	13	8.6	6	3.9			153
	Proposed – Comparison portion for Alternative 7E	3.8	25	35.3					72
	Alternative 7E	4.5	29	30.1					96
	Proposed – Comparison portion for Alternative 7F	10.5	83	37.1	3	1.2			225
	Alternative 7F	10.8	64	29.8	12	5.4			213
	Proposed – Comparison portion for Alternative 7G	3.3			7	10.4	2	2.8	64
	Alternative 7G	3.4			5	6.2	9	9.9	87
Proposed – Comparison portion for Alternative 7K	118.2	118	5.2	129	5.7	200	8.9	2,249	
Alternative 7K	148.1	369	12.9	226	7.9	144	5.0	2,859	
8	Proposed – Total Length	131.5	98	3.9	108	4.3	124	4.9	2,518
	Proposed – Comparison portion for Alternative 8A	51.9	26	2.7	15	1.6	29	3.0	963
	Alternative 8A	53.6	26	2.7	11	1.1	21	2.1	978
	Proposed – Comparison portion for Alternative 8B	45.3	27	3.0	49	5.4	88	9.8	899
	Alternative 8B	45.8	16	1.8	49	5.3	131	14.3	916
	Proposed – Comparison portion for Alternative 8C	6.5	16	10.0	15	9.3	15	9.1	163
	Alternative 8C	6.4	9	6.4	9	6.2	14	9.7	140
	Proposed – Comparison portion for Alternative 8D	6.9			2	1.3	22	15.2	147
	Alternative 8D	8.1			5	2.6	23	13.1	174
	Proposed – Comparison portion for Alternative 8E	7.0	2	1.9	3	2.1	<1	0.1	124
Alternative 8E	18.3	7	2.0	14	4.2			334	
9	Proposed – Total Length	162.2	171	5.2	111	3.4	141	4.3	3,294
	Proposed – Comparison portion for Alternative 9A	7.8	3	2.0	2	1.5	4	2.9	147
	Alternative 9A	7.7	7	4.4	<1		7	4.2	162
	Proposed – Comparison portion for Alternative 9B	49.1	73	7.1	20	1.9	72	6.9	1,037
	Alternative 9B	52.3	22	2.3	29	3.0	74	7.7	965
	Proposed – Comparison portion for Alternative 9C	14.4	5	1.5	10	3.2	5	1.5	304
	Alternative 9C	14.4	2	0.6	7	2.2	3	1.1	320
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	35	3.0	54	4.7	38	3.3	1,145
	Alternative 9D	60.1			30	2.8	28	2.7	1,047
	Alternative 9F	63.3			46	3.9	40	3.5	1,165
	Alternative 9G	57.8			25	2.4	37	3.5	1,058
	Alternative 9H	61.0			41	3.6	42	3.6	1,163
Proposed – Comparison portion for Alternative 9E (revised)	61.4	35	2.8	60	4.9	38	3.1	1,232	
Alternative 9E (revised)	70.6	20	1.6	91	7.1	91	7.0	1,290	
10	Proposed – Total Length	34.4	30	4.4	9	1.4	28.3	4.2	671

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value
 Acreages for TMDL and 303(d) listed streams overlap with perennial, intermittent, and ephemeral disturbance acres and are not included in the total disturbed acres column

Table D.16-15. Acreage Comparison of Operations Disturbance to Stream Buffers

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 500 feet of Perennial and Intermittent Streams		Within 100 feet of Ephemeral Streams		Within 500 feet of TMDL and 303(d) Listed - Sediment Streams		Total Disturbed Acres
			Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	
1W	1W(a) Proposed – Total Length	73.8	40	22.6	10	5.7			177
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	8	27.8	1	1.9			27
	Alternative 1W(a)-B	20.9	6	14.7	1	1.6			44
	1W(c) Proposed – Total Length	73.6	19	15.0	9	7.2			124
2	Proposed – Total Length	91.9	25	10.4	13	5.2			245
	Proposed – Comparison portion for Alternative 2A	16.8	3	9.1	2	5.8			28
	Alternative 2A	16.0	1	2.0	3	8.6			40
	Proposed – Comparison portion for Alternative 2B	12.5	3	12.1	1	5.8			21
3	Alternative 2B	12.2	1	4.9	2	9.4			17
	Segment 3 Proposed – Total Length	45.9	10	7.2	15	11.0			140
4 ^{1/}	Segment 3A Proposed – Total Length	5.1	1	8.2	1	8.4			12
	Proposed – Total Length	197.6	75	14.1	27	5.1	10	1.9	530
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	41	19.4	11	5.2	1	0.6	213
	Alternative 4B	100.2	43	15.8	24	8.8	1	0.4	273
	Alternative 4C	101.6	39	14.7	21	8.0	1	0.5	265
	Alternative 4D	100.8	43	15.4	27	9.5	1	0.4	280
	Alternative 4E	102.2	39	14.5	22	8.3	1	0.4	269
5	Alternative 4F	87.5	41	19.2	11	5.2	1	0.6	214
	Proposed – Total Length	55.7	<1		22	13.1	29	17.4	169
	Proposed – Comparison portion for Alternatives 5A,B	22.3			10	17.0	21	35.6	58
	Alternative 5A	29.7	15	18.7	9	11.1	18	21.9	80
	Alternative 5B	40.4	19	20.9	9	10.0	14	14.8	92
	Proposed – Comparison portion for Alternatives 5C	32.9	<1		21	22.2	25	26.8	94
	Alternative 5C	26.0	1	1.6	7	11.8	9	16.6	56
	Proposed – Comparison portion for Alternatives 5D	19.2	<1		11	17.6	5	8.2	63
6	Alternative 5D	17.0	3	6.2	6	10.6	4	7.3	53
	Proposed – Comparison portion for Alternatives 5E	5.8							24
	Alternative 5E	5.3							24
6	Proposed – Total Length	0.5							61

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value
 Acreages for TMDL and 303(d) listed streams overlap with perennial, intermittent, and ephemeral disturbance acres and are not included in the total disturbed acres column
^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.16-15. Acreage Comparison of Operations Disturbance to Stream Buffers cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 500 feet of Perennial and Intermittent Streams		Within 100 feet of Ephemeral Streams		Within 500 feet of TMDL and 303(d) Listed - Sediment Streams		Total Disturbed Acres
			Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	Disturbed Acres	% of Total Disturbance Area	
7	Proposed – Total Length	118.2	14	5.1	20	7.6	28	10.5	265
	Proposed – Comparison portion for Alternatives 7A,B	35.1		0.0	12	16.4	22	31.1	71
	Alternative 7A	37.7	18	18.9	11	11.6	21	22.7	93
	Alternative 7B	46.2	18	19.2	11	11.1	19	19.7	96
	Proposed – Comparison portion for Alternative 7C	20.1	1	3.5	1	1.6	1	2.7	36
	Alternative 7C	20.3	1	2.1	2	7.0	<1	0.3	28
	Proposed – Comparison portion for Alternative 7D	6.2	1	8.9	1	11.1			11
	Alternative 7D	6.8	1	7.7	1	9.1			13
	Proposed – Comparison portion for Alternative 7E	3.8	2	35.8					5
	Alternative 7E	4.5	3	36.7					9
	Proposed – Comparison portion for Alternative 7F	10.5	9	39.1	1	2.2			23
	Alternative 7F	10.8	8	33.1	1	4.8			23
	Proposed – Comparison portion for Alternative 7G	3.3					<1	3.0	6
	Alternative 7G	3.4					<1	3.1	6
Proposed – Comparison portion for Alternative 7K	118.2	14	5.2	20	7.5	27	10.4	264	
Alternative 7K	148.1	53	13.9	33	8.6	16	4.2	382	
8	Proposed – Total Length	131.5	12	4.8	15	5.9	13	5.4	249
	Proposed – Comparison portion for Alternative 8A	51.9	3	3.3	2	2.5	1	0.9	102
	Alternative 8A	53.6	2	2.3	1	1.3	2	2.4	103
	Proposed – Comparison portion for Alternative 8B	45.3	3	3.7	7	8.4	12	14.0	87
	Alternative 8B	45.8	2	2.5	4	6.4	15	21.3	69
	Proposed – Comparison portion for Alternative 8C	6.5	2	11.7	1	8.0	1	8.9	15
	Alternative 8C	6.4	2	13.0	1	7.3	2	14.5	16
	Proposed – Comparison portion for Alternative 8D	6.9			<1		4	25.0	15
	Alternative 8D	8.1			1	5.1	3	21.4	15
	Proposed – Comparison portion for Alternative 8E	7.0	<1		<1				10
Alternative 8E	18.3	1	2.7	1	3.4			26	
9	Proposed – Total Length	162.2	21	5.8	17	4.8	14	4.0	360
	Proposed – Comparison portion for Alternative 9A	7.8	1	3.4	<1		1	3.9	15
	Alternative 9A	7.7	1	9.2	<1		1	8.7	14
	Proposed – Comparison portion for Alternative 9B	49.1	10	7.8	3	2.5	8	6.2	122
	Alternative 9B	52.3	3	3.9	3	3.9	7	8.5	83
	Proposed – Comparison portion for Alternative 9C	14.4			1	4.1	<1	0.0	27
	Alternative 9C	14.4	<1		1	2.3	<1	1.9	26
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2	3	3.0	7	6.9	4	3.4	106
	Alternative 9D	60.1			3	4.0	3	3.3	84
	Alternative 9F	63.3			5	4.9	4	3.8	93
	Alternative 9G	57.8			4	4.2	3	3.4	87
	Alternative 9H	61.0			5	5.0	4	3.9	96
Proposed – Comparison portion for Alternative 9E (revised)	61.4	3	2.6	9	7.8	4	3.1	116	
Alternative 9E (revised)	70.6	4	3.0	14	10.4	13	9.9	135	
10	Proposed – Total Length	34.4	1	1.3	1	1.0	2	3.2	74

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
 Acreages have been rounded to the nearest whole acre; therefore, numbers are inexact and columns/rows may not sum exactly
 Blank cells indicate zero acres or null value
 Acreages for TMDL and 303(d) listed streams overlap with perennial, intermittent, and ephemeral disturbance acres and are not included in the total disturbed acres column

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 1W(a) Proposed - Total Length	Proposed Route	0.4 - 1.0, 1.8 - 2.7	Oregon Trail	Crossed	0
		0.5 - 1.2	California Trail	Crossed	0
		1.9 - 2.5	Mormon Pioneer Trail	Crossed	0
		1.9 - 2.5	National Historic Trails	Crossed	0
		1.9 - 2.5	Pony Express Trail	Crossed	0
		2.1	Gravel Pit	NW	154.3
		2.5	Residence	E	400.3
		2.5	Residence	E	698.9
		2.6	Residence	E	885.8
		13.5	Structure	NW	789.4
		15.6	Residence	N	209.9
		18.1	Outbuilding	W	906.7
		18.6	Cabin	W	688
		28.6 - 31.1	Medicine Bow NF	Crossed	0
		29.0 - 39.6	Bates Hole MA	Crossed	0
		34.6 - 57.6	Shirley Basin	Crossed	0
		68.5	Outbuilding	SE	778.3
		68.7	Barn	SE	669.9
		68.7	Barn	SE	819.8
		68.7	Barn	SE	991.4
		68.7	Residence	SE	265.2
68.7	Residence	SE	394.5		
71.4	Ellis Ranch Airport	SW	884.9		
Alternative 1W(a)-B	Feasible Alternative	3.7	Residence	N	651.5
		3.7	Residence	N	885.1
		3.7	Residence	N	985.2
		3.8	Building/Industrial	S	327.4
		3.8	Residence	N	924.7
		7.4 - 8.0	Bozeman Trail	Crossed	0
		8.2 - 9.6	Oregon Trail	Crossed	0
		8.4 - 9.1	California Trail	Crossed	0
		8.7	Residence	E	147.7
		8.7	Residence	W	466.5
		9.1	Building/Industrial	W	584
		9.1	Residence	W	435.7
		9.1 - 9.7	Mormon Pioneer Trail	Crossed	0
9.1 - 9.7	National Historic Trails	Crossed	0		
Segment 1W(c) Proposed - Total Length	Proposed Route	0.0 - 1.2	Oregon Trail	Crossed	0
		0.6 - 1.4	Pony Express Trail	Crossed	0
		1.1	Outbuilding	S	77.5
		1.2	Tower	N	460.6
		1.3	Residence	N	451
		1.5	Residence	S	389.2
		1.6	Residence	N	750.7
		1.7	Residence	N	70.9
		1.7	Residence	N	247.2
		1.7	Residence	N	329.3
		1.7	Residence	N	497.2
		1.7	Residence	N	636.8
		1.7	Residence	N	675.3
		1.8	Residence	N	85.1
		1.8	Residence	N	362.3
		1.8	Residence	N	492
		1.8	Residence	S	250.1
		1.8	Residence	S	524.7
		1.9	Residence	N	324.8
		1.9	Residence	S	329
		1.9	Residence	S	580.7
1.9	Residence	S	734.5		
1.9	Residence	S	870.9		
2	Residence	N	425.5		
2.1	Residence	NW	781.3		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 1W(c) Proposed - Total Length (cont.)	Proposed Route (cont.)	2.1	Residence	SE	355.9
		2.3	Residence	SE	234.5
		7.2	Structure	S	751.4
		10	Barn	S	493.8
		14.2	Canal	S	545.5
		14.5	Residence	S	995.4
		19.3	Park	W	396.8
		27.2 - 29.6	Medicine Bow NF	Crossed	0
		27.8 - 38.3	Bates Hole MA	Crossed	0
		33.3 - 35.0, 35.7 - 42.6	Shirley Basin	Crossed	0
		41.8	Reservoir	E	914.3
		44.4	Substation	E	33.8
		45.4	Structure	W	309.6
		64.9	Structure	W	541.4
		67.3	Foxley Landing Strip	W	235.1
Segment 2 Proposed - Total Length	Proposed Route	1.8	Wind Farm	N	858.2
		5.5	Mine	S	55.7
		5.9	Structure	S	125.9
		32.3	Barn	N	891.7
		32.3	Outbuilding	N	658.1
		32.3	Residence	N	700.3
		32.4	Barn	N	579.1
		32.4	Outbuilding	N	701.6
		32.4	Outbuilding	N	751.8
		32.4	Outbuilding	N	764.1
		37.4 - 37.7	North Platte SRMA	Crossed	0
		37.8	Sand Pit	S	871.1
		54.2 - 54.8, 57.3 - 58.1	Historic Trails	Crossed	0
		57.4 - 57.7	Hogback Lake Proposed SRMA	Crossed	0
		57.4 - 57.7	OHV SRMA	Crossed	0
		57.4 - 57.7	Rawlins OHV Area	Crossed	0
		63.2 - 63.6, 64.3 - 69.7	Red Rim-Daley Wildlife HMA	Crossed	0
		81.7	Oil/Gas Well	N	485.1
		84.3	Structure	SE	616.4
		84.7	Structure	NW	911.7
85.6	Structure	N	597.4		
86.1	Structure	N	762.6		
86.6	Structure	N	614.4		
87.4	Structure	S	697		
87.9	Structure	S	625.7		
90.9	Structure	N	714.2		
91.8	Structure	S	436.1		
Alternative 2A	Feasible Alternative	9.5	Gravel Pit	S	986.3
		9.7	Barn	N	531.3
		10.3	Fort Fred Steele State Historic Site	N	318.2
Alternative 2B	Feasible Alternative	5.6	Gravel Pit	N	260.8
		6.4	Mine	S	655.6
		6.6	Residence	N	258.6
		6.6	Residence	N	498.4
		6.6	Residence	N	690
		6.6	Residence	S	566.1
		6.7	Residence	S	780.2
6.7	Residence	S	934.8		
Segment 3 Proposed - Total Length	Proposed Route	0	Structure	S	435.3
		1	Structure	NE	360.6
		1.3	Structure	NE	551.1
		1.5	Structure	S	445.8
		1.6	Structure	N	469.7
		2.2	Structure	S	766.9
2.6	Structure	N	863.8		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 3 Proposed - Total Length (cont.)	Proposed Route (cont.)	2.8	Structure	S	241.8
		3.2 - 9.1	Upper Muddy Creek Watershed	Crossed	0
		4.2	Structure	S	408.1
		5.2	Oil/Gas Well	N	44.5
		5.7	Structure	N	304
		32.1	Oil Field	S	244.1
		37.0 - 45.94	Point of Rocks MOA	Crossed	0
Segment 3A Proposed - Total Length	Proposed Route	0.0 - 5.13	Point of Rocks MOA	Crossed	0
Segment 4 Proposed - Total Length ^{1/}	Proposed Route	0.0 - 11.7	Point of Rocks MOA	Crossed	0
		51.4 - 52.6	Seedskafee NWR	Crossed	0
		52.2	Building/Industrial	N	739.3
		52.6	Seedskafee National Wildlife Refuge	N	799.9
		56.9 - 57.5	California Trail	Crossed	0
		56.9 - 57.5	National Historic Trails	Crossed	0
		56.9 - 57.5	Oregon Trail	Crossed	0
		61.9 - 62.5	Pony Express Trail	Crossed	0
		63.3	White-tailed Prairie Dog Complex	S	491.9
		65.0 - 66.5, 67.0 - 70.1	White-tailed Prairie Dog Complex	Crossed	0
		80.2	Oil/Gas Well	N	912.3
		91.3 - 91.5, 91.7 - 92.0	White-tailed Prairie Dog Complex	Crossed	0
		95.6	Structure	N	76.6
		96.1 - 117.7, 117.8 - 118.1, 118.2 - 119.1, 120.8 - 122.8	Commissary Ridge Raptor Migration	Crossed	0
		100.7 - 106.5	Historic Trail - Medium Quality (500ft Buffer)	Crossed	0
		101.8 - 102.4	NHT Physical Trace	Crossed	0
		102.0 - 102.7	California Trail	Crossed	0
		105.1	Reservoir	S	601.6
		105.3	Reservoir	N	94.6
		105.4 - 106.5, 107.5 - 107.8, 108.0 - 110.4, 111.9 - 112.2, 113.9 - 114.5	Dempsey Ridge SRMA	Crossed	0
		107.2 - 108.3	Historic Trail - High Quality (0.25mi Buffer)	Crossed	0
		111.0 - 111.7	Dempsey SRMA	Crossed	0
		111.9 - 117.0	Historic Trail - High Quality (0.25mi Buffer)	Crossed	0
		112.2 - 113.5	Dempsey SRMA	Crossed	0
		112.4	Dempsey SRMA	NE	760.7
		112.5	Special Status Plant - 250ft buffer	W	0
		112.5	Special Status Plant Population	SW	230.8
		112.7 - 113.4, 114.9 - 115.6	NHT Physical Trace	Crossed	0
		112.9 - 113.5	California Trail	Crossed	0
		114.7 - 115.6	California Trail	Crossed	0
		115.3 - 117.6, 117.7 - 119.2	Rock Creek/Tunp SMA	Crossed	0
		121.2 - 124.0	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		122.3 - 123.3	California Trail	Crossed	0
		122.8	Cokeville Meadows National Wildlife Refuge	S	832.9
		122.8 - 124.4	Cokeville Meadows National Wildlife Refuge	Crossed	0
		122.9	Shed	N	17.7
123	Cokeville Meadows National Wildlife Refuge	S	296.1		
123	Residence	S	805.8		
123.4	Cokeville Meadows National Wildlife Refuge	S	611.1		
123.5	Cokeville Meadows National Wildlife Refuge	S	674.6		
123.8	Residence	NE	718.3		
124.9	Building/Industrial	SW	290.9		
133.9 - 134.0	Canal	Crossed	0		
138.1 - 138.7	National Historic Trails	Crossed	0		
138.1 - 138.7	Oregon Trail	Crossed	0		
139.4	Reservoir	N	876.3		
145.9	Shed	N	876.9		
146.8	Residence	S	554.1		
146.9	Residence	N	543.4		
146.9	Residence	S	822.4		
147.0 - 147.7	California Trail	Crossed	0		

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 4 Proposed - Total Length (cont.)	Proposed Route (cont.)	147.0 - 147.7	National Historic Trails	Crossed	0
		147.0 - 147.7	Oregon Trail	Crossed	0
		147.3	Residence	N	733
		147.6	Residence	S	406.7
		147.6	Structure	S	701.1
		147.7	Residence	N	989.8
		147.9	Outbuilding	NE	607.8
		147.9	Outbuilding	NE	993
		148	Outbuilding	NE	797.9
		149.9	Structure	SW	567.4
		151.5	Outbuilding	NE	638.5
		151.6	Barn	NE	579.6
		151.7	Barn	NE	587.7
		151.7	Outbuilding	NE	612.4
		151.7	Outbuilding	NE	646.8
		151.7	Outbuilding	NE	672.7
		151.7	Outbuilding	NE	693.2
		152.1	Substation	SW	710.6
		154.5	Shed	SW	731.2
		156.3	Spring	SW	332.7
		156.9	Gravel Pit	SW	457.1
		161.1 - 170.3	Caribou NF	Crossed	0
		167.1	Spring	N	54.2
		171.5	Residence	N	697.8
		171.6	Residence	N	730
		173.8	Barn	N	865.6
		173.8	Outbuilding	N	790.6
		173.9	Outbuilding	N	953.3
		173.9	Residence	N	980.7
		174.4	Outbuilding	S	893.1
		174.5 - 173.9	California Trail	Crossed	0
		177.1	Mine	SE	925.3
		177.5	Structure	SE	501.3
		190.8	Shed	N	622.6
194.7	Silo	S	649.8		
195.6	Downey (Hyde Memorial) Airport	NE	453		
196.4	Outbuilding	N	753.5		
196.4	Outbuilding	N	799.7		
196.4	Residence	N	987.3		
Alternative 4B	Feasible Alternative	0.0 - 0.9	Seedskafee NWR	Crossed	0
		8.4 - 13.5	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		9.2 - 9.8	California Trail	Crossed	0
		9.2 - 9.8	National Historic Trails	Crossed	0
		9.2 - 9.8	Oregon Trail	Crossed	0
		9.5 - 9.7, 12.0 - 12.3	NHT Physical Trace	Crossed	0
		12.0 - 12.7	Pony Express Trail	Crossed	0
		16	Oil/Gas Well	S	19.3
		37.5	Spring	N	497.1
		43.5	Mine	S	696.8
		43.5	Structure	S	861.1
		47.9	Mine	N	908.3
		47.9 - 73.0	Commissary Ridge Raptor Migration	Crossed	0
		52.3	Dam	W	993.4
		53	Residence	NE	952.1
		54.5	Special Status Plant - 250ft buffer	SW	507.5
		54.5	Special Status Plant Population	SW	757.5
		60.3	Spring	SE	830.7
		62.5 - 63.1, 63.6 - 64.9, 65.1 - 67.7, 69.9 - 70.1	Bear River SMA	Crossed	0
		63.0 - 63.7	Bear River SMA	Crossed	0
64.1 - 65.0	California Trail	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 4B (cont.)	Feasible Alternative (cont.)	65	Special Status Plant Population	N	993.3
		65	Special Status Plant - 250ft buffer	N	743.3
		65.1 - 65.4	Special Status Plant - 250ft buffer	Crossed	0
		65.3	Special Status Plant Population	N	64
		68.1 - 68.7	Bear River SMA	Crossed	0
		72.2 - 72.4	Cokeville Meadows National Wildlife Refuge	Crossed	0
		72.2 - 76.9	Cokeville Meadows National Wildlife Refuge	Crossed	0
		72.3 - 73.3	Cokeville Meadows National Wildlife Refuge	Crossed	0
		72.6 - 75.7	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		72.8	Cokeville Meadows National Wildlife Refuge	W	729.4
		73.1	Pivot	E	251.2
		73.2 - 74.2	Cokeville Meadows National Wildlife Refuge	Crossed	0
		73.9 - 74.8	California Trail	Crossed	0
		74	Pivot	E	182.9
		74.1 - 74.6	Cokeville Meadows National Wildlife Refuge	Crossed	0
		74.2	Cokeville Meadows National Wildlife Refuge	W	94.7
		74.2	Dam	W	338.1
		74.2 - 74.3	NHT Physical Trace	Crossed	0
		74.2 - 76.8	Cokeville Meadows National Wildlife Refuge	Crossed	0
		74.5 - 75.1	Cokeville Meadows National Wildlife Refuge	Crossed	0
		75.0 - 75.7	Cokeville Meadows National Wildlife Refuge	Crossed	0
		75.6 - 76.0	Cokeville Meadows National Wildlife Refuge	Crossed	0
		75.9 - 76.5	Cokeville Meadows National Wildlife Refuge	Crossed	0
		76.4 - 76.7	Cokeville Meadows National Wildlife Refuge	Crossed	0
		76.6 - 76.9	Cokeville Meadows National Wildlife Refuge	Crossed	0
		83.6	Cokeville Meadows National Wildlife Refuge	W	282.6
Alternative 4C	Feasible Alternative	0.0 - 0.9	Seedskadee NWR	Crossed	0
		8.4 - 13.5	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		9.2 - 9.8	California Trail	Crossed	0
		9.2 - 9.8	National Historic Trails	Crossed	0
		9.2 - 9.8	Oregon Trail	Crossed	0
		9.5 - 9.7, 12.0 - 12.3	NHT Physical Trace	Crossed	0
		12.0 - 12.7	Pony Express Trail	Crossed	0
		16	Oil/Gas Well	S	19.3
		37.5	Spring	N	497.1
		43.5	Mine	S	696.8
		43.5	Structure	S	861.1
		47.9	Mine	N	908.3
		47.9 - 71.8, 72.4 - 75.5, 78.0 - 78.5	Commissary Ridge Raptor Migration	Crossed	0
		52.3	Dam	W	993.4
		53	Residence	NE	952.1
		54.5	Special Status Plant - 250ft buffer	SW	507.5
		54.5	Special Status Plant Population	SW	757.5
		60.3	Spring	SE	830.7
		62.5 - 63.1, 63.6 - 64.9, 65.1 - 67.2	Bear River SMA	Crossed	0
		63.0 - 63.7	Bear River SMA	Crossed	0
		64.1 - 65.0	California Trail	Crossed	0
		65	Special Status Plant - 250ft buffer	N	743.3
		65	Special Status Plant Population	N	993.3
		65.1 - 65.4	Special Status Plant - 250ft buffer	Crossed	0
		65.3	Special Status Plant Population	N	64
		67.9	Bear River SMA	N	129.6
		69.6 - 71.8, 72.4 - 74.4, 80.6 - 80.9	Rock Creek/Tunp SMA	Crossed	0
		69.7	Tower	S	503.1
		71.2	Cokeville Meadows National Wildlife Refuge	W	895.5
		71.6	Cokeville Meadows National Wildlife Refuge	W	482.8
		71.7	Cokeville Meadows National Wildlife Refuge	W	871.2
		71.9	Cokeville Meadows National Wildlife Refuge	W	537
73.9	Cokeville Meadows National Wildlife Refuge	W	557.7		
74.5	Cokeville Meadows National Wildlife Refuge	W	679		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 4C (cont.)	Feasible Alternative (cont.)	74.6	Cokeville Meadows National Wildlife Refuge	W	558.8
		74.7 - 75.0	Rock Creek/Tunp Draft Preferred Alt	Crossed	0
		74.8	Cokeville Meadows National Wildlife Refuge	W	557.5
		75.2	Cokeville Meadows National Wildlife Refuge	W	565.3
		75.5	Cokeville Meadows National Wildlife Refuge	W	560.8
		75.9	Cokeville Meadows National Wildlife Refuge	W	571.6
		76.1 - 78.8	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		76.5	Cokeville Meadows National Wildlife Refuge	W	581.4
		76.6 - 77.1	Cokeville Meadows National Wildlife Refuge	Crossed	0
		76.7	Shed	W	188.4
		76.9	Barn	W	831.1
		76.9	Cokeville Meadows National Wildlife Refuge	W	605.7
		76.9	Cokeville Meadows National Wildlife Refuge	W	606.5
		77.0 - 83.4	California Trail	Crossed	0
		77.3	Cokeville Meadows National Wildlife Refuge	W	617.9
		77.3	Substation	W	744.4
		77.6	Cokeville Meadows National Wildlife Refuge	W	618.9
		77.8	Barn	W	461.1
		77.8	NHT Physical Trace	W	577.8
		78	Shed	W	810.9
		78.1	Cokeville Meadows National Wildlife Refuge	W	549.4
		78.3	Gravel Pit	W	257.6
		78.4	Cokeville Meadows National Wildlife Refuge	W	576.9
		79.3	Cokeville Meadows National Wildlife Refuge	W	542.8
		79.5	Barn	E	8.2
		79.5	Cokeville Meadows National Wildlife Refuge	W	509.4
		79.8 - 82.4	Historic Trail - High Quality (0.25mi Buffer)	Crossed	0
		80.8	Canal	W	294.7
		80.8 - 80.9	NHT Physical Trace	Crossed	0
		81.2	Residence	W	325.3
		81.2 - 81.3	NHT Physical Trace	Crossed	0
		81.3	Cokeville Meadows National Wildlife Refuge	W	474.6
		82.1	Cokeville Meadows National Wildlife Refuge	W	437.2
		82.1	Special Status Plant - 250ft buffer	W	569.7
		82.1	Special Status Plant Population	W	819.7
		82.4	Cokeville Meadows National Wildlife Refuge	W	402.1
		82.4	Commercial Building	W	43.6
		82.7	Commercial Building	W	665.8
		82.9 - 83.7	Cokeville Meadows National Wildlife Refuge	Crossed	0
		82.9 - 85.2	Cokeville Meadows National Wildlife Refuge	Crossed	0
		82.9 - 85.4	Cokeville Meadows National Wildlife Refuge	Crossed	0
		83.6 - 83.8	Cokeville Meadows National Wildlife Refuge	Crossed	0
		83.7 - 84.2	Cokeville Meadows National Wildlife Refuge	Crossed	0
84.1	Cokeville Meadows National Wildlife Refuge	NE	349.6		
84.1 - 85.4	Cokeville Meadows National Wildlife Refuge	Crossed	0		
85.8	Cokeville Municipal Airport	NE	405.5		
Alternative 4D	Feasible Alternative	0.0 - 0.9	Seedskadee NWR	Crossed	0
		8.4 - 13.5	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		9.2 - 9.8	California Trail	Crossed	0
		9.2 - 9.8	National Historic Trails	Crossed	0
		9.2 - 9.8	Oregon Trail	Crossed	0
		9.5 - 9.7, 12.0 - 12.3	NHT Physical Trace	Crossed	0
		12.0 - 12.7	Pony Express Trail	Crossed	0
		16	Oil/Gas Well	S	19.3
		37.5	Spring	N	497.1
		43.5	Mine	S	696.8
		43.5	Structure	S	861.1
		47.9	Mine	N	908.3
		47.9 - 73.6	Commissary Ridge Raptor Migration	Crossed	0
		52.3	Dam	W	993.4

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 4D (cont.)	Feasible Alternative (cont.)	53	Residence	NE	952.1
		56.3	Mine	SE	219
		63.1 - 63.7, 64.2 - 65.5, 65.7 - 68.4, 70.5 - 70.7	Bear River SMA	Crossed	0
		63.6 - 64.3	Bear River SMA	Crossed	0
		64.7 - 65.6	California Trail	Crossed	0
		65.6	Special Status Plant - 250ft buffer	N	743.3
		65.6	Special Status Plant Population	N	993.3
		65.7 - 66.0	Special Status Plant - 250ft buffer	Crossed	0
		65.9	Special Status Plant Population	N	64
		68.7 - 69.3	Bear River SMA	Crossed	0
		72.0 - 77.5	Cokeville Meadows National Wildlife Refuge	Crossed	0
		72.8 - 73.0	Cokeville Meadows National Wildlife Refuge	Crossed	0
		72.9 - 73.9	Cokeville Meadows National Wildlife Refuge	Crossed	0
		73.2 - 76.3	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		73.5	Cokeville Meadows National Wildlife Refuge	W	729.4
		73.7	Pivot	E	251.2
		73.8 - 74.8	Cokeville Meadows National Wildlife Refuge	Crossed	0
		74.5 - 75.4	California Trail	Crossed	0
		74.6	Pivot	E	182.9
		74.7 - 75.2	Cokeville Meadows National Wildlife Refuge	Crossed	0
		74.8	Cokeville Meadows National Wildlife Refuge	W	94.7
		74.8	Dam	W	338.1
		74.8 - 74.9	NHT Physical Trace	Crossed	0
		74.8 - 77.4	Cokeville Meadows National Wildlife Refuge	Crossed	0
		75.1 - 75.7	Cokeville Meadows National Wildlife Refuge	Crossed	0
		75.6 - 76.3	Cokeville Meadows National Wildlife Refuge	Crossed	0
		76.2 - 76.6	Cokeville Meadows National Wildlife Refuge	Crossed	0
		76.5 - 77.1	Cokeville Meadows National Wildlife Refuge	Crossed	0
		77.0 - 77.4	Cokeville Meadows National Wildlife Refuge	Crossed	0
		77.3 - 77.5	Cokeville Meadows National Wildlife Refuge	Crossed	0
84.2	Cokeville Meadows National Wildlife Refuge	W	282.6		
Alternative 4E	Feasible Alternative	0.0 - 0.9	Seedska-dee NWR	Crossed	0
		8.4 - 13.5	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		9.2 - 9.8	California Trail	Crossed	0
		9.2 - 9.8	National Historic Trails	Crossed	0
		9.2 - 9.8	Oregon Trail	Crossed	0
		9.5 - 9.7, 12.0 - 12.3	NHT Physical Trace	Crossed	0
		12.0 - 12.7	Pony Express Trail	Crossed	0
		16	Oil/Gas Well	S	19.3
		37.5	Spring	N	497.1
		43.5	Mine	S	696.8
		43.5	Structure	S	861.1
		47.9	Mine	N	908.3
		47.9 - 72.4, 73.0 - 76.1, 78.6 - 79.1	Commissary Ridge Raptor Migration	Crossed	0
		52.3	Dam	W	993.4
		53	Residence	NE	952.1
		56.3	Mine	SE	219
		63.1 - 63.7, 64.2 - 65.5, 65.7 - 67.8	Bear River SMA	Crossed	0
		63.6 - 64.3	Bear River SMA	Crossed	0
		64.7 - 65.6	California Trail	Crossed	0
		65.6	Special Status Plant - 250ft buffer	N	743.3
		65.6	Special Status Plant Population	N	993.3
		65.7 - 66.0	Special Status Plant - 250ft buffer	Crossed	0
		65.9	Special Status Plant Population	N	64
		68.5	Bear River SMA	N	129.6
		70.2 - 72.4, 73.0 - 75.0, 81.2 - 81.5	Rock Creek/Tunp SMA	Crossed	0
		70.3	Tower	S	503.1
		71.8	Cokeville Meadows National Wildlife Refuge	W	895.5
		72.2	Cokeville Meadows National Wildlife Refuge	W	482.8
		72.3	Cokeville Meadows National Wildlife Refuge	W	871.2

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 4E (cont.)	Feasible Alternative (cont.)	72.5	Cokeville Meadows National Wildlife Refuge	W	537
		74.5	Cokeville Meadows National Wildlife Refuge	W	557.7
		75.1	Cokeville Meadows National Wildlife Refuge	W	679
		75.2	Cokeville Meadows National Wildlife Refuge	W	558.8
		75.3 - 75.7	Rock Creek/Tunp Draft Preferred Alt	Crossed	0
		75.4	Cokeville Meadows National Wildlife Refuge	W	557.5
		75.8	Cokeville Meadows National Wildlife Refuge	W	565.3
		76.1	Cokeville Meadows National Wildlife Refuge	W	560.8
		76.5	Cokeville Meadows National Wildlife Refuge	W	571.6
		76.7 - 79.4	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		77.1	Cokeville Meadows National Wildlife Refuge	W	581.4
		77.2 - 77.7	Cokeville Meadows National Wildlife Refuge	Crossed	0
		77.3	Shed	W	188.4
		77.5	Barn	W	831.1
		77.5	Cokeville Meadows National Wildlife Refuge	W	605.7
		77.5	Cokeville Meadows National Wildlife Refuge	W	606.5
		77.6 - 84.0	California Trail	Crossed	0
		77.9	Cokeville Meadows National Wildlife Refuge	W	617.9
		77.9	Substation	W	744.4
		78.2	Cokeville Meadows National Wildlife Refuge	W	618.9
		78.4	Barn	W	461.1
		78.4	NHT Physical Trace	W	577.8
		78.6	Shed	W	810.9
		78.7	Cokeville Meadows National Wildlife Refuge	W	549.4
		78.9	Gravel Pit	W	257.6
		79	Cokeville Meadows National Wildlife Refuge	W	576.9
		79.9	Cokeville Meadows National Wildlife Refuge	W	542.8
		80.1	Barn	E	8.2
		80.4 - 83.0	Historic Trail - High Quality (0.25mi Buffer)	Crossed	0
		81.4	Canal	W	294.7
		81.4 - 81.5	NHT Physical Trace	Crossed	0
		81.5	Cokeville Meadows National Wildlife Refuge	W	509.4
		81.8	Residence	W	325.3
		81.8 - 81.9	NHT Physical Trace	Crossed	0
		81.9	Cokeville Meadows National Wildlife Refuge	W	474.6
		82.1	Cokeville Meadows National Wildlife Refuge	W	437.2
		82.7	Special Status Plant - 250ft buffer	W	569.7
		82.7	Special Status Plant Population	W	819.7
		83	Cokeville Meadows National Wildlife Refuge	W	402.1
		83	Commercial Building	W	43.6
		83.4	Commercial Building	W	665.8
		83.5 - 84.3	Cokeville Meadows National Wildlife Refuge	Crossed	0
		83.5 - 85.8	Cokeville Meadows National Wildlife Refuge	Crossed	0
		83.5 - 86.0	Cokeville Meadows National Wildlife Refuge	Crossed	0
		84.2 - 84.4	Cokeville Meadows National Wildlife Refuge	Crossed	0
		84.3 - 84.8	Cokeville Meadows National Wildlife Refuge	Crossed	0
		84.7	Cokeville Meadows National Wildlife Refuge	NE	349.6
		84.7 - 86.0	Cokeville Meadows National Wildlife Refuge	Crossed	0
86.4	Cokeville Municipal Airport	NE	405.5		
Alternative 4F	Feasible Alternative	0.0 - 0.9	Seedskadee NWR	Crossed	0
		0.6	Building/Industrial	N	739.3
		1	Seedskadee National Wildlife Refuge	N	799.9
		5.4 - 6.0	California Trail	Crossed	0
		5.4 - 6.0	National Historic Trails	Crossed	0
		5.4 - 6.0	Oregon Trail	Crossed	0
		10.3 - 10.9	Pony Express Trail	Crossed	0
		11.7	White-tailed Prairie Dog Complex	S	491.9
		13.4 - 14.9, 15.4 - 18.5	White-tailed Prairie Dog Complex	Crossed	0
		28.6	Oil/Gas Well	N	912.3
		39.7 - 40.0, 40.1 - 40.4	White-tailed Prairie Dog Complex	Crossed	0

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 4F (cont.)	Feasible Alternative (cont.)	44	Structure	N	76.6
		44.5 - 70.2, 73.0 - 74.5	Commissary Ridge Raptor Migration	Crossed	0
		49.1 - 52.0	Historic Trail - Medium Quality (500ft Buffer)	Crossed	0
		50.2 - 50.8	NHT Physical Trace	Crossed	0
		50.4 - 51.2	California Trail	Crossed	0
		56.4 - 58.5, 58.6 - 59.7, 60.0 - 62.1, 62.2 - 62.7, 63.3 - 63.5	Dempsey Ridge SRMA	Crossed	0
		60.5 - 63.0	Historic Trail - High Quality (0.25mi Buffer)	Crossed	0
		60.7 - 62.1	Historic Trail - Low Quality (100ft Buffer)	Crossed	0
		61.2 - 61.8	California Trail	Crossed	0
		61.3 - 61.9	NHT Physical Trace	Crossed	0
		63	Dempsey SRMA	SW	123.6
		64.0 - 66.6, 67.1 - 67.3, 67.5 - 68.9	Dempsey SRMA	Crossed	0
		69	Pine Creek Ski Area	N	503.9
		70.7	Pivot	N	669.3
		71.6	Residence	N	302.1
		71.6	Silo	N	88.3
		71.8	Pivot	N	314.3
		72.2	Canal	S	550.1
		72.9	Barn	S	660.5
		73	Pivot	N	390.6
		74.8	Raymond Mountain WSA	N	618.3
		75.9 - 76.6	California Trail	Crossed	0
		76.4	Pivot	S	168.7
76.4	Residence	S	751.2		
76.6	Residence	N	572.9		
84.7 - 84.8	Canal	Crossed	0		
Segment 5 Proposed - Total Length	Proposed Route	3.1	Residence	SW	761.5
		3.5	Residence	NE	194.7
		3.6	Residence	NE	631.2
		3.7	Residence	NE	802.1
		5.4	Residence	NE	958.7
		8.4	Caribou NF	SW	68.7
		8.4	Residence	SW	731.4
		8.8	Residence	SW	493.5
		9	Residence	SW	248.4
		9.4	Residence	SW	857
		12.2	Tower	S	363.8
		12.2	Tower	S	518.3
		12.3	Tower	N	88.7
		12.3	Tower	N	185
		12.3	Tower	S	511.9
		12.4	Tower	N	520.8
		13.2 - 14.1	California Trail	Crossed	0
		25.2	Residence	N	871.3
		25.3	School	N	557.3
		52.4	Residence	S	573.5
		52.5	Commercial Building	N	956.7
		52.7	Residence	N	614.9
		52.7	Residence	NW	478.8
		52.9	Barn	NW	380.5
		52.9	Barn	NW	388.1
		53	Barn	NW	413.9
		53	Residence	NW	837.9
53	Residence	NW	915.3		
53.1	Residence	NW	420.3		
53.1	Residence	NW	794.5		
53.1	Residence	NW	999.4		
53.3	Residence	N	867.8		
53.4	Residence	N	822.6		
53.4	Residence	N	886.6		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 5 Proposed - Total Length (cont.)	Proposed Route (cont.)	53.6 - 54.2	National Historic Trails	Crossed	0
		53.6 - 54.2	Oregon Trail	Crossed	0
		55	Mine	N	42
		55.66	Substation	S	482.6
Alternative 5A	Feasible Alternative	9.1	Residence	N	520.7
		11.8	Cemetery	N	593
		22.3	Residence	W	983.1
		27	Residence	E	140.3
		29.5	Residence	W	658
Alternative 5B	Feasible Alternative	18.5	Residence	S	674.1
		31.7	Residence	W	990.2
		33.6	Residence	E	174.4
		34.6	Pivot	W	743.8
		37.7	Residence	E	140.3
Alternative 5D	Feasible Alternative	40.2	Residence	W	658
		1.2	Residence	N	185.6
		10.5	Residence	NE	509
		12.9	Residence	E	698.3
		12.9	Residence	E	735.2
		12.9	Residence	NE	667.1
		13.1	Residence	NE	511.6
		13.2	Residence	NE	918.3
		13.6	Residence	E	220.8
		14.1	Residence	W	393.6
		14.5	Residence	S	738.5
		14.6	Residence	S	736.7
		14.6	Residence	S	924.8
		14.9	Residence	S	346.3
		15	Residence	S	300.1
		15.0 - 15.7	National Historic Trails	Crossed	0
		15.0 - 15.7	Oregon Trail	Crossed	0
		15.1	Residence	S	357.6
		15.1	Residence	S	737.3
		15.2	Residence	S	513.6
15.2	Residence	S	797.5		
15.2	Residence	S	969.2		
15.3	Residence	S	581.9		
15.3	Residence	S	934.7		
15.3	Residence	S	955.9		
15.4	Residence	S	748.9		
15.5	Residence	S	975		
15.9	Borrow Pit	W	431.6		
17.04	Substation	S	482.6		
Alternative 5E	Feasible Alternative	0.2	Tower	NE	593
		0.2	Tower	NE	725.1
		0.4	Tower	NE	113.9
		0.4	Tower	SW	85
		0.6	Tower	S	142.8
		0.7	Tower	S	322.2
		0.8	Tower	S	151.4
		0.9	Tower	S	328.2
		1	Tower	S	147.8
		1.1	Tower	S	328.1
		1.3	Tower	S	145.1
		1.3	Tower	S	317.2
		1.5	Tower	S	143.3
		1.6	Tower	S	315.3
		1.8	Tower	S	146.5
		1.8	Tower	S	324.1
2	Barn	N	927.1		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 5E (cont.)	Feasible Alternative (cont.)	2	Outbuilding	N	976.4
		2	Outbuilding	N	995.3
		2	Residence	N	858.7
		2	Tower	S	152
		2.1	Tower	S	336.6
		2.2	Tower	S	150.5
		2.3	Tower	S	324
		2.4	Tower	S	146
		2.6	Commercial Building	S	474.7
		2.6	Tower	S	148.1
		2.6	Tower	S	326.6
		2.8	Tower	S	316.7
		2.9	Residence	S	829.7
		2.9	Tower	S	145.2
		3.0 - 3.8	National Historic Trails	Crossed	0
		3.0 - 3.8	Oregon Trail	Crossed	0
		3.1	Tower	S	152.2
		3.1	Tower	S	321.7
		3.5	Tower	S	139.5
		3.5	Tower	S	323.2
		3.8	Tower	S	147.1
		3.9	Tower	S	148
		3.9	Tower	S	324.1
4.2	Tower	S	39.5		
4.8	Mine	S	851.8		
5.2	Substation	S	482.6		
Segment 7 Proposed - Total Length	Proposed Route	0.5	Residence	NE	404.6
		2.9	Residence	NE	768.1
		5	Residence	NE	368.8
		7.9 - 8.6	Caribou NF	Crossed	0
		8.1	Residence	NE	766.6
		10	Elkhorn Mtn.	S	145.1
		13.1 - 13.7	California Trail	Crossed	0
		24.8	Residence	S	145.1
		43.1	Barn	N	960.9
		55.4	Pivot	S	204.5
		55.7	Irrigated Ag	S	188.7
		56	Pivot	S	177.4
		58.1 - 58.2	Pivot	Crossed	0
		58.9	Pivot	SW	989.9
		59.1 - 59.2	Pivot	Crossed	0
		59.2 - 60.0	National Historic Trails	Crossed	0
		59.2 - 60.0	Oregon Trail	Crossed	0
		59.7	Pivot	NE	645
		60.1	Oregon-California Trail Junction	S	421.1
		61.1 - 61.2	Pivot	Crossed	0
		61.2 - 61.3	Pivot	Crossed	0
		61.4 - 61.5	Irrigated Ag	Crossed	0
		61.7 - 61.8	Pivot	Crossed	0
		61.8	Pivot	S	60.9
		61.9 - 62.0	Irrigated Ag	Crossed	0
		71.5	Tower	NW	297.7
		71.5	Tower	NW	919.6
		71.7	Structure	NW	170.5
		72.6 - 73.4	National Historic Trails	Crossed	0
		72.6 - 73.4	Oregon Trail	Crossed	0
75.4 - 75.5	Irrigated Ag	Crossed	0		
75.5	Pivot	NW	600.2		
75.5 - 75.6	Pivot	Crossed	0		
76.0 - 76.1	Pivot	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 7 Proposed - Total Length (cont.)	Proposed Route (cont.)	82.6	Residence	W	736.6
		82.7	Residence	W	427.3
		82.8	Residence	NW	825.2
		82.9	Residence	NW	760.2
		83.7	Outbuilding	SE	417.3
		83.7	Residence	NW	171.7
		83.7	Residence	SE	794.4
		86.5 - 87.1, 87.4 - 88.2	Ag Landing Strip	Crossed	0
		87.0 - 87.5	Ag Landing Strip	Crossed	0
		87.4	Airport	NW	630.7
		87.4	Landing Strip	NW	630.7
		92.7	Residence	S	981.6
		94.6	Residence	S	379.3
		94.7	Residence	N	231.2
		96.7	Residence	N	199.9
		97.2	Residence	N	196.9
		98.1	Residence	S	340.9
		98.9	Outbuilding	S	794.2
		100.2	Residence	N	209.1
		100.3	Residence	N	281.2
		103	CAFO	S	540
		108.3 - 118.16	South Hills	Crossed	0
		109.4	Outbuilding	S	272.7
		112.5	CAFO	N	137.3
		112.6 - 114.5, 114.7 - 116.5	Dry Creek Sky Ranches (proposed)	Crossed	0
		114.3	Cemetery	N	758.3
		114.4 - 114.8	Dry Creek Sky Ranches (proposed)	Crossed	0
		114.6	Airport	S	905.1
114.6	Landing Strip (proposed)	S	905.1		
114.7	Residence	N	899.8		
Alternative 7A	Feasible Alternative	0.0 - 1.4	Caribou NF	Crossed	0
		1.7 - 2.5	California Trail	Crossed	0
		23.9	Residence	S	920.6
		25.7	Residence	S	618.1
		25.8	Residence	N	883.7
Alternative 7B	Feasible Alternative	0.0 - 1.4	Caribou NF	Crossed	0
		1.7 - 2.5	California Trail	Crossed	0
		5.2	Residence	SE	259.3
		19.8	Residence	N	857.4
		20.7	Residence	S	605.8
Alternative 7C	Feasible Alternative	7.2	Pivot	S	474.1
		7.4	Pivot	N	446.1
		8.0 - 8.1	Pivot	Crossed	0
		8.1	Pivot	N	356.2
		8.6	Pivot	N	341.4
		9	CAFO	N	98.9
		9.1	Pivot	S	162.6
		9.2 - 9.3	Pivot	Crossed	0
		9.2 - 10.4	California Trail	Crossed	0
		9.4	Pivot	SW	81.1
		9.6	Residence	NE	446.7
		9.6	Residence	NE	640.9
		9.7 - 9.8	Pivot	Crossed	0
		9.8	Pivot	NE	300.6
		15.9 - 17.0	National Historic Trails	Crossed	0
		15.9 - 17.0	Oregon Trail	Crossed	0
Alternative 7D	Feasible Alternative	1.1 - 2.7	National Historic Trails	Crossed	0
		1.1 - 2.7	Oregon Trail	Crossed	0
		3.0 - 3.1	Pivot	Crossed	0
		3.5	Pivot	W	295.4

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 7D (cont.)	Feasible Alternative (cont.)	4	Irrigated Ag	E	778.3
		4.0 - 4.1	Pivot	Crossed	0
		4.1	Pivot	E	458.6
		4.5 - 4.6	Pivot	Crossed	0
Alternative 7E	Feasible Alternative	1.6	Spring	SE	884
		3.9	Residence	S	131.7
		4	Outbuilding	N	142
		4	Residence	N	766.9
		4	Residence	S	410.9
Alternative 7F	Feasible Alternative	3.2	Spring	SE	884
		9.4	Ag Landing Strip	N	555.2
Alternative 7G	Feasible Alternative	0	Cemetery	NE	979.2
		0.0 - 0.1, 0.3 - 2.2	Dry Creek Sky Ranches (proposed)	Crossed	0
		0.0 - 0.4	Dry Creek Sky Ranches (proposed)	Crossed	0
		0.0 - 3.36	South Hills	Crossed	0
Alternative 7K	Feasible Alternative	0.3	Residence	N	272.7
		0.5	Residence	NE	404.6
		2.9	Residence	NE	768.1
		5	Residence	NE	368.8
		7.9 - 8.6, 11.7 - 13.1	Caribou NF	Crossed	0
		8.1	Residence	NE	766.6
		10	Elkhorn Mtn.	S	145.1
		13.4 - 14.2	California Trail	Crossed	0
		16.9	Residence	SE	259.3
		32.5 - 43.3, 58.3 - 72.3, 75.3 - 75.7, 85.9 - 97.4	Raft River - Curlew Valley	Crossed	0
		43.1	Curlew National Grasslands	S	142.5
		45.9 - 53.0	Sawtooth NF	Crossed	0
		47.9 - 48.5	California Trail	Crossed	0
		57.8	Silo	N	750.6
		57.8	Warehouse	N	554
		58.3 - 72.3, 75.3 - 75.7, 85.9 - 97.4	Raft River - Curlew Valley IBA	Crossed	0
		63	Sawtooth NF	S	363.3
82.4 - 83.2	California Trail	Crossed	0		
100.4	Spring	N	518.9		
103.2 - 104.0	California Trail	Crossed	0		
115.3 - 130.5, 131.7 - 148.11	South Hills	Crossed	0		
134.6 - 140.4	Sawtooth NF	Crossed	0		
Segment 8 Proposed - Total Length	Proposed Route	2.2	Pivot	S	211.7
		3.3	Pivot	S	319
		3.7	Residence	S	617.9
		14.8	Residence	S	943.6
		14.9	Residence	N	977.4
		16.2	Residence	N	781.1
		16.8	Residence	S	192.9
		16.9	Residence	N	619.7
		17	Residence	N	203.4
		17.2	Residence	S	342.6
		17.3	Residence	S	479.3
		17.4	CAFO	S	845.7
		17.5	Residence	S	773.1
		19.3	Pivot	S	194.7
		19.9	Pivot	S	103.1
		21.9	Gravel Pit	SW	388.7
		22.1	Residence	NE	552.1
		22.4	Residence	NE	715.4
		26.6	Irrigation Ditch	SW	490.4
		28.3	Residence	S	289.7
28.7	Pivot	NE	226.7		
44.4	Canal	S	965.2		
45.2 - 57.2	MUA-3 Lower Bennett	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 8 Proposed - Total Length (cont.)	Proposed Route (cont.)	45.9	Spring	S	591.2
		46.8 - 47.4	Oregon Trail Rutted Segments	Crossed	0
		50.1 - 50.5	Oregon Trail Rutted Segments	Crossed	0
		52.7	Residence	SW	163.8
		55.6 - 56.4	National Historic Trails	Crossed	0
		55.6 - 56.4	Oregon Trail	Crossed	0
		55.8 - 56.4	Oregon Trail Rutted Segments	Crossed	0
		65.6 - 67.7, 98.7 - 126.6	Snake River Birds of Prey NCA	Crossed	0
		65.7 - 67.7, 98.7 - 126.6	Snake River Birds of Prey	Crossed	0
		70.9	Canal	SW	958.4
		83.8 - 84.1, 85.8 - 89.8	LEPA MA 8	Crossed	0
		94.0 - 98.8	LEPA MA 8B	Crossed	0
		98.9 - 108.2	Orchard Training Area	Crossed	0
		105.6	National Guard	N	491.6
		116.9 - 120.3	National Register Historic District	Crossed	0
		117.8 - 120.0	Snake River Canyon SRMA	Crossed	0
		118.4 - 123.9	Birds of Prey Avoidance Area	Crossed	0
		120.5	Basin	SE	866.4
		121.7 - 122.5	National Historic Trails	Crossed	0
		121.7 - 122.5	Oregon Trail	Crossed	0
		121.8 - 122.1	Oregon Trail SRMA	Crossed	0
		122.6 - 123.9	Private Landing Strip	Crossed	0
		123.3	Private Landing Strip	S	456
		123.7 - 126.6	Owyhee Front SRMA	Crossed	0
		123.8 - 130.9	Black Mountain HMA	Crossed	0
		124	Residence	N	508.9
		124	Residence	N	565
		124.1	Residence	N	209.2
		124.1	Residence	N	922.1
		129.3	CAFO	NE	886.5
		129.4	Structure	NE	394.5
		129.4	Structure	NE	734.8
		129.4	Structure	NE	912.8
129.4	Structure	NE	986.4		
130.8	Residence	E	928.3		
130.9	Residence	SW	628.1		
130.9	Residence	W	767.2		
131	Residence	E	296.5		
131	Residence	E	943.7		
131.1	Residence	E	477.4		
131.1	Residence	E	765		
131.2	Residence	SW	615		
131.5	Tower	W	574.2		
131.5	Tower	W	783.2		
131.5	Tower	W	980.7		
Alternative 8A	Feasible Alternative	1.5	Pivot	N	204
		4.3	Residence	N	335.3
		4.6	CAFO	S	165.3
		4.6	Residence	S	573.6
		4.7	Animal Pen	N	152.8
		19.5	Residence	S	902.4
		20	Residence	S	366.3
		21.2	Pivot	S	140.5
		23.3	Residence	N	256
		23.6	Residence	NW	172.1
		23.6	Residence	NW	314.3
		23.6	Residence	NW	417.9
		23.6	Residence	NW	569.8
23.7	Residence	N	359.4		
23.7	Residence	N	464.4		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 8A (cont.)	Feasible Alternative (cont.)	23.7	Residence	N	466.3
		23.7	Residence	S	44.6
		23.7	Residence	S	755.6
		23.8	Residence	N	331.6
		23.8	Residence	N	627
		23.8	Residence	N	667.5
		23.8	Residence	S	926.7
		23.9	Residence	N	906.1
		23.9	Residence	S	453
		23.9	Residence	S	474.7
		23.9	Residence	S	623.3
		23.9	Residence	S	694.3
		23.9	Residence	S	711.3
		23.9	Residence	S	799.3
		23.9	Residence	S	830.1
		23.9	Residence	S	992.1
		24	Residence	S	291.2
		24	Residence	S	689.6
		24	Residence	S	899.2
		24.1	Structure	S	407.7
		24.2	Residence	N	341
		24.2	Residence	N	402.5
		24.2	Residence	S	261.9
		24.3	Fish Farm	N	797.4
		24.4 - 25.7	MUA-8 Hagerman Fossil Beds	Crossed	0
		25.6 - 46.5	MUA-7 Saylor Creek East	Crossed	0
		27.2	Canal	N	336.8
		30.7	Residence	NE	328.6
		31.2	Wind Farm	SW	238.5
		33.0 - 33.8	National Historic Trails	Crossed	0
		33.0 - 33.8	Oregon Trail	Crossed	0
		33.5 - 34.0, 37.0 - 37.9	Oregon Trail SRMA	Crossed	0
		37.3 - 38.1	National Historic Trails	Crossed	0
		37.3 - 38.1	Oregon Trail	Crossed	0
		43.6	Tower	NE	563.5
		44.9 - 45.4	Oregon Trail SRMA	Crossed	0
		45.9	Residence	E	631.7
		46	Residence	W	933.3
		46.1	Residence	E	652.8
		46.2	Residence	E	376.1
46.2	Residence	NE	30.3		
46.2	Residence	NE	159		
46.2	Residence	SW	315.8		
46.3	Residence	NE	358.9		
46.3	Residence	NE	446.7		
46.4	Residence	NE	708.1		
46.4	Residence	NE	816		
46.4	Residence	SW	322.3		
46.4 - 46.9	MUA-4 Snake River Riparian	Crossed	0		
46.8 - 53.61	MUA-3 Lower Bennett	Crossed	0		
50.7 - 51.0	LEPA MA 10	Crossed	0		
51.9 - 52.3	Oregon Trail Rutted Segments	Crossed	0		
Alternative 8B	Feasible Alternative	0.0 - 3.5	LEPA MA 8	Crossed	0
		8.1	Animal Pen	S	677.1
		10.1 - 11.5, 13.0 - 13.7	LEPA MA 8B	Crossed	0
		19.3	Residence	N	267.1
		19.3	Residence	N	306.3
		19.3	Residence	N	317.1
		19.3	Residence	N	508.1
19.3	Residence	S	500.1		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 8B (cont.)	Feasible Alternative (cont.)	19.4	Residence	N	348.9
		19.4	Residence	N	362.1
		19.4	Residence	N	403.9
		19.4	Residence	N	439.4
		19.4	Residence	N	441.4
		19.4	Residence	N	444
		19.4	Residence	N	463.5
		19.4	Residence	N	473
		19.4	Residence	N	523.2
		19.4	Residence	N	527.9
		20.3	Residence	N	814.3
		20.6	Residence	N	876.1
		20.8	Residence	N	293.2
		20.8	Residence	S	957
		21.4	Residence	N	30.6
		24	Residence	S	734.9
		24.5	Residence	N	340.3
		26.2 - 27.1	Snake River Birds of Prey NCA	Crossed	0
		26.5	Commercial Building	N	177.8
		27.0 - 27.6, 28.7 - 31.6	LEPA MA 6	Crossed	0
		29.4	Gravel Pit	S	589.7
		33.3	Residence	E	396.6
		33.3	Residence	W	840.1
		33.9	Residence	NW	162.1
		33.9	Residence	W	721
		34	Residence	W	729
		34.1	Residence	W	572.8
		34.3	Residence	W	68.8
		34.3	Residence	W	420.3
		34.8	Silo	W	58.3
		35	Gravel Pit	E	193.5
		35.2	Snake River Birds of Prey	S	4.4
		37	Residence	N	277.3
		37.1	Animal Pen	S	35.9
		37.2	Residence	N	201.1
		37.2	Residence	S	7.9
		37.3	Residence	S	300.2
		37.4	Residence	N	138.9
		37.4	Residence	S	81.6
		37.7	Residence	N	336.7
		37.8	Warehouse	S	110
		37.9	Residence	N	133.1
		37.9	Residence	N	174.9
		38.5	Residence	S	127.7
		39	Residence	S	19.2
		39.4	Residence	N	177.7
		39.7	Residence	N	171.7
		40.4	Residence	SE	169.3
		42.1	Residence	SE	606.9
		42.2	Residence	SE	462.4
42.7 - 42.9	Deer Flat National Wildlife Refuge	Crossed	0		
42.8	Deer Flat National Wildlife Refuge	SE	683.6		
43.8	CAFO	W	923		
43.8	Outbuilding	E	23.1		
43.8	Outbuilding	E	515.2		
43.9	CAFO	E	669.8		
43.9	Outbuilding	E	75.6		
43.9	Outbuilding	E	93.1		
43.9	Outbuilding	E	180.1		
43.9	Outbuilding	W	35.4		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 8B (cont.)	Feasible Alternative (cont.)	43.9	Residence	E	18.7
		43.9	Residence	W	36.8
		43.9	Residence	W	198.2
		44	Residence	E	728.2
		44.2	Residence	SE	247.3
		44.3	Residence	N	86.5
		44.6	Residence	N	69.7
		44.9	Black Mountain HMA	S	152
		44.9	Canal	S	787.4
		45.1	Residence	S	936
		45.3	Residence	N	97.3
		45.3	Residence	N	489.3
		45.3	Residence	N	922.2
		45.3	Residence	S	558.7
		45.5	Residence	N	574.5
		45.5	Residence	N	757.5
		43.5 - 44.1	National Historic Trails	Crossed	0
		43.5 - 44.1	Oregon Trail	Crossed	0
Alternative 8C	Feasible Alternative	0.0 - 0.1, 0.2 - 2.0	LEPA MA 8	Crossed	0
		5.1	Residence	N	440.4
Alternative 8D	Feasible Alternative	0.0 - 0.4	Orchard Training Area	Crossed	0
		0.0 - 8.08	Snake River Birds of Prey	Crossed	0
		0.0 - 8.08	Snake River Birds of Prey NCA	Crossed	0
		0.2	Tower	NE	852.8
		0.4	Tower	SW	15.5
		1.4	Outbuilding	S	278.2
		1.5	Residence	S	171.5
		2	Private Landing Strip	N	75.9
		4.4	Building/Industrial	N	542.4
		5.9	Animal Pen	N	477.8
		5.9	Outbuilding	N	249.7
		5.9	Outbuilding	N	695.2
		6	Barn	N	931
		6	Outbuilding	N	712.5
7.5	Tower	E	614.6		
7.7	Tower	W	247.6		
Alternative 8E	Feasible Alternative	0.0 - 18.29	Snake River Birds of Prey	Crossed	0
		0.0 - 18.29	Snake River Birds of Prey NCA	Crossed	0
		0.2	Tower	W	226.2
		0.3	Tower	W	216.3
		0.5	Tower	W	215.2
		0.6	Tower	W	209.4
		0.7	Tower	W	213.3
		0.8	Tower	W	203.9
		0.9	Tower	W	206.8
		1.1	Tower	W	206.3
		1.2	Tower	W	204.8
		1.3	Tower	W	203.9
		1.4	Tower	W	200.5
		1.6	Tower	W	199.9
		1.7	Tower	W	199.6
		1.8	Tower	W	195.2
		1.9	Tower	W	194
		2	Tower	W	190.7
		2.2	Tower	W	190.2
		2.3	Tower	W	187.4
2.4	Tower	W	183.5		
2.5	Tower	W	186.2		
2.7	Tower	W	180.7		
2.8	Tower	W	176.8		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 8E (cont.)	Feasible Alternative (cont.)	2.9	Tower	W	175.8
		3	Tower	W	174.6
		3.2	Tower	W	170.2
		3.3	Tower	W	166.2
		3.4	Tower	W	166.1
		3.6	Tower	W	163.8
		3.7	Tower	W	163
		3.8	Tower	W	161.2
		3.9	Tower	W	159.3
		4.1	Tower	W	158.4
		4.2	Tower	W	153.8
		4.4	Tower	W	157.4
		4.5	Tower	W	154.2
		4.7	Tower	W	155
		4.8	Tower	W	153.8
		4.9	Tower	W	151
		5	Tower	W	153.2
		5.2	Tower	W	170.7
		5.3	Tower	W	147.1
		5.5	Tower	W	167.6
		5.6	Tower	W	169.6
		5.7	Tower	W	173.9
		5.8	Tower	W	179.1
		5.9	Tower	W	183.9
		6.1	Tower	W	178.5
		6.2	Tower	W	184.4
		6.3	Tower	W	185.3
		6.3 - 7.3, 8.7 - 10.7, 11.3 - 11.9	National Register Historic District	Crossed	0
		6.5	Tower	W	190.5
		6.6	Tower	W	190.9
		6.7	Tower	W	188.2
		6.9	Tower	W	187.6
		6.9	Tower	W	677.2
7	Tower	W	146.4		
7	Tower	W	189.6		
7.1	Tower	W	180.4		
7.2	Tower	W	183.7		
7.3	Tower	W	184.4		
7.5	Tower	W	171.6		
9.4 - 10.7	Snake River Canyon SRMA	Crossed	0		
10.1 - 18.29	Birds of Prey Avoidance Area	Crossed	0		
Segment 9 Proposed - Total Length	Proposed Route	0.0 - 8.3	South Hills	Crossed	0
		2.2	Residence	S	145.1
		3.9	Gravel Pit	N	644
		6.4	Animal Pen	S	715.6
		6.5	Residence	N	422.9
		8.9	Dam	S	734.4
		12.7	Structure	S	60.5
		12.7	Structure	S	426
		30.4	Lower Salmon Falls Creek	SW	802.5
		32.6	Structure	NE	967.2
		33.3 - 33.6	Salmon Falls Creek Canyon	Crossed	0
		33.3 - 36.1	MUA-14 Salmon Falls Creek ACEC	Crossed	0
		36.0 - 38.1	MUA-13 East Devil	Crossed	0
		38.0 - 47.2	MUA-12 West Devil	Crossed	0
		47.1 - 81.2	MUA-7 Saylor Creek East	Crossed	0
		60.3 - 73.3	Saylor Creek HMA	Crossed	0
		78.6	Water Tank	N	189.1
81.1 - 88.3, 97.0 - 99.3	MUA-6 Saylor Creek West	Crossed	0		
88.1 - 97.0, 142.5 - 146.3, 151.4 - 152.1, 152.2 - 152.7	Snake River Birds of Prey	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Segment 9 Proposed - Total Length (cont.)	Proposed Route (cont.)	88.1 - 97.0, 142.5 - 146.3, 151.4 - 152.1, 152.2 - 152.7	Snake River Birds of Prey NCA	Crossed	0
		97.9	Residence	NW	275.1
		99.3	Canal	S	232
		99.4	Canal	N	623.7
		99.4	Residence	N	719.1
		99.6	Cemetery	S	342.9
		99.7	Cemetery	S	368.4
		101	Pivot	NE	590
		110	Residence	N	90.7
		110.5	Residence	N	307.1
		116.3	Gravel Pit	SW	42.2
		119.2	Animal Pen	S	139
		119.3	Residence	N	250
		119.8	Residence	S	177.8
		131.9	Residence	N	449
		132.6	Residence	SW	122.6
		133.3	Well	S	323.3
		134.9	Residence	NE	68.6
		142.5 - 146.3	Owyhee Front SRMA	Crossed	0
		150.2 - 151.6	Murphy Airport	Crossed	0
		151.4 - 152.1, 152.2 - 152.7	Owyhee Front SRMA	Crossed	0
		151.6 - 161.2	Black Mountain HMA	Crossed	0
		161	Claypit	E	109
		161.3	Residence	E	551.1
		161.3	Residence	E	566.9
		161.4	Residence	E	775.2
		161.6	Outbuilding	E	600
		161.6	Outbuilding	E	607.6
		161.6	Outbuilding	E	648.2
		161.6	Residence	E	599.1
		161.6	Residence	E	804.4
		161.7	Outbuilding	E	829.6
		161.7	Residence	E	773.7
		161.8	Residence	SE	132.7
		161.8	Tower	SE	732.6
		161.9	Outbuilding	SE	885.6
		161.9	Residence	SE	788
		161.9	Tower	NW	20.2
		161.9	Tower	NW	153.8
		161.9	Tower	NW	182.6
		161.9	Tower	NW	211.4
		161.9	Tower	NW	315
161.9	Tower	SE	7.1		
161.9	Tower	SE	39.2		
162.1	Outbuilding	NW	901.9		
162.1	Tower	NW	60.3		
162.1	Tower	SE	264.7		
162.2	Tower	SE	18.9		
Alternative 9A	Feasible Alternative	0.0 - 2.1	South Hills	Crossed	0
		1.6	Residence	N	360.4
		2.9	Residence	N	984.2
		6.1	Gravel Pit	S	357.1
Alternative 9B	Feasible Alternative	0.4	Residence	SW	8.9
		5	MUA-14 Salmon Falls Creek ACEC	W	581.4
		5.3	Residence	E	893.1
		6	Salmon Falls Creek Canyon	W	275.4
		6.4	Residence	E	695.3
		7.6	CAFO	E	125.4
		8.2	Residence	W	560.1
8.4	Residence	W	468.6		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 9B (cont.)	Feasible Alternative (cont.)	8.9 - 23.0, 25.3 - 51.5	MUA-7 Saylor Creek East	Crossed	0
		11.2	Pivot	E	291.2
		11.5	Pivot	W	117.6
		12.1	Pivot	W	279.2
		13.2	Pivot	W	394.1
		16.5	Canal	E	912.1
		22.9 - 25.4	MUA-9 Hagerman ORV (Owsley Bridge)	Crossed	0
		27.5	Animal Pen	NE	456.3
		37.4 - 43.6	Saylor Creek HMA	Crossed	0
		40.2	Gravel Pit	S	523.5
		45.2	Residence	S	611.7
		45.8	Pivot	N	132.5
		46.9 - 48.0, 48.3 - 49.3	Grindstone Ag Landing Strip	Crossed	0
		47	Warehouse	SW	938
		47.5	Residence	NE	905.2
		47.9 - 48.4	Grindstone Ag Landing Strip	Crossed	0
		48.1 - 48.2	Airport	Crossed	0
		48.1 - 48.2	Landing Strip	Crossed	0
		51.4 - 52.35	MUA-6 Saylor Creek West	Crossed	0
		Alternative 9C	Feasible Alternative	0.4	Residence
5	MUA-14 Salmon Falls Creek ACEC			W	581.4
5.3	Residence			E	893.1
6	Salmon Falls Creek Canyon			W	275.4
6.4	Residence			E	695.3
7.6	CAFO			E	125.4
8.2	Residence			E	299.5
8.3	Residence			E	802.7
8.7 - 14.4	MUA-7 Saylor Creek East			Crossed	0
9.4	CAFO			N	147.3
14.4	MUA-12 West Devil			S	253.8
Alternative 9D	Feasible Alternative	0.0 - 6.7, 9.4 - 15.4, 15.5 - 17.2, 18.3 - 60.1	Snake River Birds of Prey	Crossed	0
		0.0 - 6.7, 9.4 - 15.4, 15.5 - 17.2, 18.3 - 60.1	Snake River Birds of Prey NCA	Crossed	0
		6.9 - 9.5	MUA-6 Saylor Creek West	Crossed	0
		8.2 - 9.9	Oregon Trail	Crossed	0
		8.2 - 9.9	National Historic Trails	Crossed	0
		9.4 - 15.7, 16.4 - 17.2	C.J. Strike SRMA	Crossed	0
		9.6 - 12.5, 15.5 - 15.7, 15.9 - 16.6, 16.7 - 17.7, 17.8 - 18.2	CJ Strike WMA/Reservoir	Crossed	0
		9.8 - 12.1	C.J. Strike Reservoir SRMA	Crossed	0
		12.0 - 12.3	C.J. Strike Reservoir SRMA	Crossed	0
		12.3 - 13.4	National Historic Trails	Crossed	0
		12.3 - 13.4	Oregon Trail	Crossed	0
		12.5 - 13.1, 15.0 - 15.4, 15.5 - 15.6	Oregon Trail SRMA	Crossed	0
		14.1 - 15.7	National Historic Trails	Crossed	0
		14.1 - 15.7	Oregon Trail	Crossed	0
		15.9 - 16.5, 16.7 - 17.2	C.J. Strike Reservoir SRMA	Crossed	0
		17.2 - 17.9	National Historic Trails	Crossed	0
		17.2 - 17.9	Oregon Trail	Crossed	0
		17.3	Structure	NE	953
		17.6	Park	NE	901.5
		17.8 - 18.0	National Historic Trails	Crossed	0
		17.8 - 18.0	Oregon Trail	Crossed	0
		18.4	C.J. Strike Reservoir SRMA	E	211.9
		19.5	Structure	E	270.7
		36.1 - 40.8	Orchard Training Area	Crossed	0
		39.8	National Guard	NE	442.9
46.7 - 48.7, 49.3 - 49.9	National Register Historic District	Crossed	0		
47.3 - 48.7	Snake River Canyon SRMA	Crossed	0		
48.1 - 58.9	Birds of Prey Avoidance Area	Crossed	0		
57.1 - 57.8	National Historic Trails	Crossed	0		
57.1 - 57.8	Oregon Trail	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 9D (cont.)	Feasible Alternative (cont.)	57.2 - 57.5	Oregon Trail SRMA	Crossed	0
		58.8 - 60.1	Owyhee Front SRMA	Crossed	0
		58.8 - 60.14	Black Mountain HMA	Crossed	0
Alternative 9F	Feasible Alternative	0.0 - 1.4, 21.5 - 63.3	Snake River Birds of Prey	Crossed	0
		0.0 - 1.5, 21.5 - 63.3	Snake River Birds of Prey NCA	Crossed	0
		1.4 - 3.7	MUA-6 Saylor Creek West	Crossed	0
		2.4	Residence	NW	275.1
		3.7	Canal	S	232
		3.8	Canal	N	623.7
		3.8	Residence	N	719.1
		4	Cemetery	S	342.9
		4.1	Cemetery	S	368.4
		5.5	Pivot	NE	590
		14.4	Residence	N	90.7
		14.9	Residence	N	307.1
		19.5	Commercial Building	NW	432.3
		19.5	Tower	NW	381.9
		19.5	Tower	NW	386.5
		19.5	Tower	NW	471
		19.5	Tower	NW	633.3
		19.5	Tower	NW	904.5
		19.6	Tower	NW	50.7
		19.6	Tower	NW	147.6
		19.7	Outbuilding	SE	366.5
		19.7	Tower	SE	367.3
		19.7	Tower	SE	671.9
		20.1 - 20.9, 21.0 - 21.4	CJ Strike WMA/Reservoir	Crossed	0
		20.5	Residence	N	832.4
		20.5 - 21.2	National Historic Trails	Crossed	0
		20.5 - 21.2	Oregon Trail	Crossed	0
		20.6	Outbuilding	S	869.4
		20.7	Residence	S	905.3
		21.6	C.J. Strike Reservoir SRMA	E	211.9
		22.6	Structure	E	270.7
		39.3 - 43.9	Orchard Training Area	Crossed	0
		43	National Guard	NE	442.9
49.8 - 51.9, 52.5 - 53.1	National Register Historic District	Crossed	0		
50.5 - 51.9	Snake River Canyon SRMA	Crossed	0		
51.2 - 62.1	Birds of Prey Avoidance Area	Crossed	0		
60.4 - 60.7	Oregon Trail SRMA	Crossed	0		
61.9 - 63.3	Owyhee Front SRMA	Crossed	0		
62.0 - 63.33	Black Mountain HMA	Crossed	0		
60.3 - 61.0	National Historic Trails	Crossed	0		
60.3 - 61.0	Oregon Trail	Crossed	0		
Alternative 9G	Feasible Alternative	0.0 - 6.7, 9.4 - 15.4, 15.5 - 17.2, 18.3 - 50.9, 51.2 - 57.7	Snake River Birds of Prey	Crossed	0
		0.0 - 6.7, 9.4 - 15.4, 15.5 - 17.2, 18.3 - 50.9, 51.2 - 57.7	Snake River Birds of Prey NCA	Crossed	0
		6.9 - 9.5	MUA-6 Saylor Creek West	Crossed	0
		8.2 - 9.9	National Historic Trails	Crossed	0
		8.2 - 9.9	Oregon Trail	Crossed	0
		9.4 - 15.7, 16.4 - 17.2	C.J. Strike SRMA	Crossed	0
		9.6 - 12.5, 15.5 - 15.7, 15.9 - 16.6, 16.7 - 17.7, 17.8 - 18.2	CJ Strike WMA/Reservoir	Crossed	0
		9.8 - 12.1	C.J. Strike Reservoir SRMA	Crossed	0
		12.0 - 12.3	C.J. Strike Reservoir SRMA	Crossed	0
		12.3 - 13.4	National Historic Trails	Crossed	0
		12.3 - 13.4	Oregon Trail	Crossed	0
		12.5 - 13.1, 15.0 - 15.4, 15.5 - 15.6	Oregon Trail SRMA	Crossed	0
		14.1 - 15.7	National Historic Trails	Crossed	0
		14.1 - 15.7	Oregon Trail	Crossed	0
		15.9 - 16.5, 16.7 - 17.2	C.J. Strike Reservoir SRMA	Crossed	0
17.2 - 17.9	National Historic Trails	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 9G (cont.)	Feasible Alternative (cont.)	17.2 - 17.9	Oregon Trail	Crossed	0
		17.3	Structure	NE	953
		17.6	Park	NE	901.5
		17.8 - 18.0	National Historic Trails	Crossed	0
		17.8 - 18.0	Oregon Trail	Crossed	0
		18.4	C.J. Strike Reservoir SRMA	E	211.9
		19.5	Structure	E	270.7
		36.1 - 40.8	Orchard Training Area	Crossed	0
		39.8	National Guard	NE	442.9
		44.7 - 47.0, 47.2 - 48.3	National Register Historic District	Crossed	0
		45.3 - 48.0	Snake River Canyon SRMA	Crossed	0
		45.6 - 50.9, 51.2 - 56.6	Birds of Prey Avoidance Area	Crossed	0
		48.6	Oregon Trail SRMA	SW	968.6
		55.2 - 55.8	National Historic Trails	Crossed	0
		55.2 - 55.8	Oregon Trail	Crossed	0
		55.6 - 55.8	Oregon Trail SRMA	Crossed	0
		56.1	Murphy Airport	S	587.7
		56.4 - 57.7	Owyhee Front SRMA	Crossed	0
		56.6 - 57.77	Black Mountain HMA	Crossed	0
		56.7	Commercial Building	N	361.9
56.7	Commercial Building	N	389.9		
Alternative 9H	Feasible Alternative	0.0 - 1.4, 21.5 - 54.1, 54.4 - 60.9	Snake River Birds of Prey	Crossed	0
		0.0 - 1.4, 21.5 - 54.1, 54.4 - 60.9	Snake River Birds of Prey NCA	Crossed	0
		1.4 - 3.7	MUA-6 Saylor Creek West	Crossed	0
		2.4	Residence	NW	275.1
		3.7	Canal	S	232
		3.8	Canal	N	623.7
		3.8	Residence	N	719.1
		4	Cemetery	S	342.9
		4.1	Cemetery	S	368.4
		5.5	Pivot	NE	590
		14.4	Residence	N	90.7
		14.9	Residence	N	307.1
		19.5	Commercial Building	NW	432.3
		19.5	Tower	NW	381.9
		19.5	Tower	NW	386.5
		19.5	Tower	NW	471
		19.5	Tower	NW	633.3
		19.5	Tower	NW	904.5
		19.6	Tower	NW	50.7
		19.6	Tower	NW	147.6
		19.7	Outbuilding	SE	366.5
		19.7	Tower	SE	367.3
		19.7	Tower	SE	671.9
		20.5 - 21.2	National Historic Trails	Crossed	0
		20.5 - 21.2	Oregon Trail	Crossed	0
		20.1 - 20.9, 21.0 - 21.4	CJ Strike WMA/Reservoir	Crossed	0
		20.5	Residence	N	832.4
		20.6	Outbuilding	S	869.4
		20.7	Residence	S	905.3
		21.6	C.J. Strike Reservoir SRMA	E	211.9
		22.6	Structure	E	270.7
		39.3 - 13.9	Orchard Training Area	Crossed	0
		43	National Guard	NE	442.9
47.8 - 50.2, 50.4 - 51.5	National Register Historic District	Crossed	0		
48.5 - 51.2	Snake River Canyon SRMA	Crossed	0		
48.8 - 54.1, 54.4 - 59.8	Birds of Prey Avoidance Area	Crossed	0		
51.7	Oregon Trail SRMA	SW	968.6		
58.4 - 59.0	National Historic Trails	Crossed	0		
58.4 - 59.0	Oregon Trail	Crossed	0		

Table D.17-1. Specific Land Uses Crossed within 1,000 Feet of Proposed Route Alternatives cont.

Route Name	Route Type	Closest Milepost or Milepost Span	Land Use Feature	Direction From Route	Distance From Route (Ft)
Alternative 9H (cont.)	Feasible Alternative (cont.)	58.7 - 59.0	Oregon Trail SRMA	Crossed	0
		59.3	Murphy Airport	S	587.7
		59.7 - 60.9	Owyhee Front SRMA	Crossed	0
		59.7 - 60.96	Black Mountain HMA	Crossed	0
		59.8	Commercial Building	N	389.9
Alternative 9E (revised)	Feasible Alternative	59.9	Commercial Building	N	361.9
		0 - 2.5; 55.8 - 59.6	Snake River Birds of Prey	Crossed	0
		0 - 2.5; 55.8 - 59.6	Snake River Birds of Prey NCA	Crossed	0
		2.3 - 6.2	MUA-6 Saylor Creek West	Crossed	0
		5.6	Dam	N	38.2
		5.9	Dam	S	816.0
		18.6	Tower	NE	835.8
		18.7	Tower	NE	887.4
		18.9	Tower	NE	950.6
		19	Tower	NE	993.0
Segment 10 Proposed - Total Length	Proposed Route	55.8 - 59.6	Owyhee Front SRMA	Crossed	0
		65.4 - 70.61	Black Mountain HMA	Crossed	0
		0.2	Residence	S	722.7
		0.2	Substation	N	454.8
		6.2	Residence	NE	671.4
		13.6	Residence	E	726.1
		13.7	Residence	NE	767.1
		13.9	Residence	NE	804.4
		19.5 - 19.8	CAFO	Crossed	0
		20	Residence	E	73.5
		20	Residence	W	272.7
		20.4	Commercial Building	N	369.4
		20.4	Commercial Building	N	441.7
		20.4	Commercial Building	N	452.5
		20.4	Commercial Building	N	577.9
		20.4	Residence	N	178.7
		20.5	Commercial Building	N	580.5
		20.9	Residence	E	737.9
		21.3	Residence	E	971.1
		23.2	Residence	E	582.4
		26	Residence	SE	687.1
		26.1	Residence	NW	489.2
		30.9 - 31.5	National Historic Trails	Crossed	0
		30.9 - 31.5	Oregon Trail	Crossed	0
		31.2	Residence	W	882.6
		32.9	Pivot	W	245.4
		34	Residence	E	27.3
		34.1	CAFO	E	8.2
		34.1	Residence	E	779.6
		34.1 - 34.36	South Hills	Crossed	0

Note: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

Table D.19-1. Roads, Railroads and Bridges Within 1 Mile of Project Centerline

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Road Types (Miles)				Total Road Miles	Railroad Miles	Bridges	
			County-Maintained Highways or Numbered/Lettered Routes	State Highway	US Highway	Interstate			Number of Bridges in Inventory	Notes
1W	1W(a) Proposed – Total Length	73.8	20.5	19.8	2.0	2.1	44.5	7.1	11	One is posted for load
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5	11.0	2.6	2.0	2.1	17.7	7.1	8	
	Alternative 1W(a)-B	20.9	4.3	2.7	2.2	2.8	12.0	11.6	3	
	1W(c) Proposed – Total Length	73.6	18.0	20.8	2.0	3.5	44.4	7.8	14	
2	Proposed – Total Length	91.9	5.8	4.4	4.5	10.8	25.5	19.6	9	One is posted for load
	Proposed – Comparison portion for Alternative 2A	16.8	0.6		4.5	10.8	15.9	10.2	9	One is posted for load
	Alternative 2A	16.0	1.8			5.6	7.4	15.7		
	Proposed – Comparison portion for Alternative 2B	12.5	0.6		2.6	10.8	14.0	7.5	9	One is posted for load
3	Alternative 2B	12.2	1.8		2.1	5.7	9.6	10.0	5	One is posted for load
	Segment 3 Proposed – Total Length	45.9	10.1	3.6		25.1	38.8	8.2	10	
4 ^{2/}	Segment 3A Proposed – Total Length	5.1	5.1	2.7			7.8	3.2		
	Proposed – Total Length	197.6	44.7	30.5	23.3		98.5	28.1	6	
	Proposed – Comparison portion for Alternatives 4B-4F	85.2	14.4	12.0	6.3		32.8	13.3	2	
	Alternative 4B	100.2	17.3	3.5	16.8		37.5	31.1	9	
	Alternative 4C	101.6	14.8	2.8	31.2		48.8	47.3	10	
	Alternative 4D	100.8	15.9	3.5	11.0		30.4	27.0	5	
	Alternative 4E	102.2	13.4	2.8	25.5		41.7	43.2	6	
5	Alternative 4F	87.5	9.6	12.8	5.9		28.3	10.3		
	Proposed – Total Length	55.7		4.8		6.0	10.8	2.6	3	
	Proposed – Comparison portion for Alternatives 5A,B	22.3							1 ^{1/}	
	Alternative 5A	29.7								
	Alternative 5B	40.4								
	Proposed – Comparison portion for Alternatives 5C	32.9							1 ^{1/}	
	Alternative 5C	26.0								
	Proposed – Comparison portion for Alternatives 5D	19.2		2.4		3.4	5.8	2.6	2	
Alternative 5D	17.0		4.1		2.4	6.5	2.7	4		
6	Proposed – Comparison portion for Alternatives 5E	5.8		2.4		3.4	5.8	2.6	2	
	Alternative 5E	5.3		2.3		3.1	5.4	3.0	2	
6	Proposed – Total Length	0.5			1.5		1.5	2.7		

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} Inventoried bridges include those carrying routes smaller than county lettered/numbered routes

^{2/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.19-1. Roads, Railroads and Bridges Within 1 Mile of Project Centerline cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Road Types (Miles)			Total Road Miles	Railroad Miles	Bridges		
			County-Maintained Highways or Numbered/Lettered Routes	State Highway	US Highway			Interstate	Number of Bridges in Inventory	Notes
7	Proposed – Total Length	118.2		12.7		8.2	20.9	2.4	14	
	Proposed – Comparison portion for Alternatives 7A,B	35.1		2.1			2.1		2	
	Alternative 7A	37.7		2.5			2.5		1	
	Alternative 7B	46.2		4.1			4.1			
	Proposed – Comparison portion for Alternative 7C	20.1				5.5	5.5		6	
	Alternative 7C	20.3				2.0	2.0		2	
	Proposed – Comparison portion for Alternative 7D	6.2		2.4		2.0	4.5		2	
	Alternative 7D	6.8		3.5		2.4	5.8		2	
	Proposed – Comparison portion for Alternative 7E	3.8		3.4			3.4		1	
	Alternative 7E	4.5		2.5			2.5			
	Proposed – Comparison portion for Alternative 7F	10.5		3.4			3.4		2	
	Alternative 7F	10.8		2.4			2.4			
	Proposed – Comparison portion for Alternative 7G	3.3								
	Alternative 7G	3.4								
Proposed – Comparison portion for Alternative 7K	118.2		12.7		8.2	20.9	2.4	14		
Alternative 7K	148.1		7.0		5.8	12.8		6		
8	Proposed – Total Length	131.5		10.2	7.2	4.5	21.9	7.5	4	
	Proposed – Comparison portion for Alternative 8A	51.9		3.6	5.2		8.8	3.1	1	
	Alternative 8A	53.6		6.9	4.3	5.1	16.3	6.9	10	Two are posted for load
	Proposed – Comparison portion for Alternative 8B	45.3		6.6		4.5	11.1	4.4	2	
	Alternative 8B	45.8		7.4		5.7	13.1	14.7	12	
	Proposed – Comparison portion for Alternative 8C	6.5				5.7	5.7		6	
	Alternative 8C	6.4				2.7	2.7		4	
	Proposed – Comparison portion for Alternative 8D	6.9								
	Alternative 8D	8.1								
	Proposed – Comparison portion for Alternative 8E	7.0								
Alternative 8E	18.3									
9	Proposed – Total Length	162.2	1.8	23.7	2.0		27.5	2.1	3	
	Proposed – Comparison portion for Alternative 9A	7.8			0.2		0.2			
	Alternative 9A	7.7			0.2		0.2			
	Proposed – Comparison portion for Alternative 9B	49.1							1 ^{1/}	
	Alternative 9B	52.3							1 ^{1/}	
	Proposed – Comparison portion for Alternative 9C	14.4							1 ^{1/}	
	Alternative 9C	14.4							1 ^{1/}	
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2		22.6			22.6		1	
	Alternative 9D	60.1		12.3			12.3		2	
	Alternative 9F	63.3		12.3			12.3		2	
	Alternative 9G	57.8		12.5			12.5		3	
	Alternative 9H	61.0		12.4			12.4		3	
Proposed – Comparison portion for Alternative 9E (revised)	61.4		22.6			22.6		1		
Alternative 9E (revised)	70.6		11.8			11.8		2		
10	Proposed – Total Length	34.4		7.4	4.1	2.0	13.6	7.0	6	
Total All Proposed Total Length Routes (grey shaded rows)		990.4	105.9	140.6	46.7	62.3	355.5	98.5	80.0	

Notes: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10
Mileages have been rounded to the nearest tenth of a mile; therefore, numbers are inexact and columns/rows may not sum exactly

Blank cells indicate zero miles or null value

^{1/} Inventoried bridges include those carrying routes smaller than county lettered/numbered routes

Table D.19-2. Airports and Heliports Within 1 Mile and 3 Miles of the Proposed Route

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 1 Mile of Route			Within 3 Miles of Route		
			Facility Type	Facility Name	Facility Use	Facility Type	Facility Name	Facility Use
1W	1W(a) Proposed – Total Length	73.8	Airport	Ellis Ranch	Private	Airport	Ellis Ranch	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Proposed – Comparison portion for Alternative 1W(a)-B	16.5						Public
	Alternative 1W(a)-B	20.9						Public
1W(c)	Proposed – Total Length	73.6				Airport	Ellis Ranch	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
2	Proposed – Total Length	91.9				Airport	Ellis Ranch	Private
						Heliport	Memorial Hospital	Private
	Proposed – Comparison portion for Alternative 2A	16.8						Public
	Alternative 2A	16.0						Public
3	Proposed – Comparison portion for Alternative 2B	12.5						Public
	Alternative 2B	12.2						Public
3	Segment 3 Proposed – Total Length	45.9						Public
	Segment 3A Proposed – Total Length	5.1						Public
4 ^{1/}	Proposed – Total Length	197.6				Airport	Cokeville Municipal	Public
						Airport	Downey/Hyde Memorial	Public
						Airport	Kemmerer Municipal	Public
						Heliport	Bear Lake Memorial Hospital Helipad	Private
	Proposed – Comparison portion for Alternatives 4B-4F	85.2				Airport	Cokeville Municipal	Public
						Airport	Kemmerer Municipal	Public
	Alternative 4B	100.2						Public
	Alternative 4C	101.6				Airport	Cokeville Municipal	Public
5	Alternative 4D	100.8						Public
	Alternative 4E	102.2				Airport	Cokeville Municipal	Public
	Alternative 4F	87.5				Airport	Kemmerer Municipal	Public
	Proposed – Total Length	55.7				Airport	Downey/Hyde Memorial	Public
	Proposed – Comparison portion for Alternatives 5A,B	22.3						Public
	Alternative 5A	29.7						Public
	Alternative 5B	40.4						Public
	Proposed – Comparison portion for Alternative 5C	32.9						Public
5	Alternative 5C	26.0						Public
	Proposed – Comparison portion for Alternative 5D	19.2						Public
	Alternative 5D	17.0						Public
	Proposed – Comparison portion for Alternative 5E	5.8						Public
	Alternative 5E	5.3						Public
6	Proposed – Total Length	0.5						Public

Note: The BLM's Preferred Route includes Proposed 1W, Proposed 2, Proposed 3, Proposed 4 (including 4G), Proposed 5 (including 5B and 5E), Proposed 6, Proposed 7 (including 7B, 7C, 7D, and 7G), Proposed 8 (including 8B), Proposed 9 (including 9E), and Proposed 10

^{1/} Alternative 4G was added in late 2012 and was therefore not added to this table

Table D.19-2. Airports and Heliports Within 1 Mile and 3 Miles of the Proposed Route cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 1 Mile of Route			Within 3 Miles of Route		
			Facility Type	Facility Name	Facility Use	Facility Type	Facility Name	Facility Use
7	Proposed – Total Length	118.2				Airport	Downey/Hyde Memorial	Public
						Landing Strip	Mason	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
			Landing Strip	Unknown (Proposed)	Private	Landing Strip	Unknown (Proposed)	Private
	Proposed – Comparison portion for Alternatives 7A,B	35.1						Public
	Alternative 7A	37.7						Public
	Alternative 7B	46.2						Public
	Proposed – Comparison portion for Alternative 7C	20.1						Public
	Alternative 7C	20.3						Public
	Proposed – Comparison portion for Alternative 7D	6.2						Public
	Alternative 7D	6.8						Public
	Proposed – Comparison portion for Alternative 7E	3.8				Landing Strip	Unknown	Private
	Alternative 7E	4.5				Landing Strip	Unknown	Private
	Proposed – Comparison portion for Alternative 7F	10.5	Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Alternative 7F	10.8	Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Proposed – Comparison portion for Alternative 7G	3.3				Landing Strip	Mason	Private
			Landing Strip	Unknown (Proposed)	Private	Landing Strip	Unknown (Proposed)	Private
					Landing Strip	Mason	Private	
Landing Strip			Unknown (Proposed)	Private	Landing Strip	Unknown (Proposed)	Private	
Alternative 7G	3.4				Landing Strip	Mason	Private	
		Landing Strip	Unknown (Proposed)	Private	Landing Strip	Unknown (Proposed)	Private	
					Landing Strip	Mason	Private	
		Landing Strip	Unknown (Proposed)	Private	Landing Strip	Unknown (Proposed)	Private	
Proposed – Comparison portion for Alternative 7K	118.2				Airport	Downey/Hyde Memorial	Public	
					Landing Strip	Mason	Private	
		Landing Strip	Unknown	Private	Landing Strip	Unknown	Private	
		Landing Strip	Unknown (Proposed)	Private	Landing Strip	Unknown (Proposed)	Private	
Alternative 7K	148.1				Airport	Downey/Hyde Memorial	Public	
					Landing Strip	Unknown (Proposed)	Private	
8	Proposed – Total Length	131.5				Airport	Gooding Municipal	Public
						Airport	Red Baron Airpark Ultralight	Private
						Landing Strip	Unknown	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Proposed – Comparison portion for Alternative 8A	51.9				Ultralight	Oasis Strip	Private
	Alternative 8A	53.6				Airport	Gooding Municipal	Public
						Airport	Glenns Ferry Municipal	Public
						Heliport	Health Center	Private
	Proposed – Comparison portion for Alternative 8B	45.3				Airport	Red Baron Airpark Ultralight	Private
						Landing Strip	Unknown	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
						Ultralight	Oasis Strip	Private
	Alternative 8B	45.8				Airport	Green Acres	Private
						Airport	Larkin	Private
						Airport	Red Baron Airpark Ultralight	Private
						Landing Strip	Black's Airfield	Private
						Ultralight	Oasis Strip	Private
Proposed – Comparison portion for Alternative 8C	6.5				Airport	Red Baron Airpark Ultralight	Private	
					Ultralight	Oasis Strip	Private	
Alternative 8C	6.4				Airport	Red Baron Airpark Ultralight	Private	
					Ultralight	Oasis Strip	Private	
Proposed – Comparison portion for Alternative 8D	6.9				Landing Strip	Unknown	Private	
Alternative 8D	8.1	Landing Strip	Unknown	Private	Landing Strip	Unknown	Private	
Proposed – Comparison portion for Alternative 8E	7.0				Landing Strip	Unknown	Private	
Alternative 8E	18.3				Landing Strip	Unknown	Private	

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Table D.19-2. Airports and Heliports Within 1 Mile and 3 Miles of the Proposed Route cont.

Segment Number	Proposed or Alternative Name	Segment Length (Miles)	Within 1 Mile of Route			Within 3 Miles of Route		
			Facility Type	Facility Name	Facility Use	Facility Type	Facility Name	Facility Use
9	Proposed – Total Length	162.2	Airport	Murphy	Public	Airport	EZ Lope Ranch	Private
						Airport	Murphy	Public
						Landing Strip	Unknown	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Proposed – Comparison portion for Alternative 9A	7.8					Public	
	Alternative 9A	7.7					Public	
	Proposed – Comparison portion for Alternative 9B	49.1				Landing Strip	Unknown	Private
	Alternative 9B	52.3	Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Proposed – Comparison portion for Alternative 9C	14.4						Public
	Alternative 9C	14.4						Public
	Proposed – Comparison portion for Alternatives 9D,F,G,H	57.2				Airport	EZ Lope Ranch	Private
			Airport	Murphy	Public	Airport	Murphy	Public
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
			Landing Strip	Unknown	Private	Landing Strip	Unknown	Private
	Alternative 9D	60.1				Airport	Murphy	Public
						Landing Strip	Unknown	Private
						Landing Strip	Unknown	Private
	Alternative 9F	63.3				Airport	Murphy	Public
						Landing Strip	Unknown	Private
Landing Strip			Unknown	Private	Landing Strip	Unknown	Private	
Alternative 9G	57.8				Airport	Murphy	Public	
					Landing Strip	Unknown	Private	
					Landing Strip	Unknown	Private	
					Landing Strip	Unknown	Private	
Alternative 9H	61.0				Airport	Murphy	Public	
					Landing Strip	Unknown	Private	
		Landing Strip	Unknown	Private	Landing Strip	Unknown	Private	
Proposed – Comparison portion for Alternative 9E (revised)	61.4				Airport	EZ Lope Ranch	Private	
		Airport	Murphy	Public	Airport	Murphy	Public	
		Landing Strip	Unknown		Landing Strip	Unknown	Private	
		Landing Strip	Unknown	Private	Landing Strip	Unknown	Private	
Alternative 9E (revised)	70.6				Airport	Murphy	Public	
					Airport	Owens Ranches, Inc.	Private	
					Landing Strip	Unknown	Private	
					Landing Strip	Unknown	Private	
10	Proposed – Total Length	34.4						

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