

**Appendix E:  
Environmental Data by Segment Alternative**

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Table E-3. Land Cover Data by Segment Alternative Right-of-Way

Segment Alternatives	Acres in ROW									Percent in ROW									Temporary Impacts (acres)									Permanent Impacts (acres)								
	Barren/Sparse	Cropland	Developed	Pasture	Prairie	Shrubland	Wetland	Woodland	Total	Barren/Sparse	Cropland	Developed	Pasture	Prairie	Shrubland	Wetland	Woodland	Total	Barren/Sparse	Cropland	Developed	Pasture	Prairie	Shrubland	Wetland	Woodland	Total	Barren/Sparse	Cropland	Developed	Pasture	Prairie	Shrubland	Wetland	Woodland	Total
A01	0	18	0	1	8	3	0	0	30	0.0	60.2	0.0	3.0	26.4	10.4	0.0	0.0	100.0	0.0	1.9	0.0	0.1	0.8	0.3	0.0	0.0	3.2	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A02	2	49	0	30	58	19	1	0	159	1.0	30.8	0.0	18.7	36.4	12.1	0.9	0.1	100.0	0.2	5.2	0.0	3.2	6.2	2.1	0.1	0.0	17.1	0.0	<0.1	0.0	<0.1	<0.1	<0.1	0.0	0.0	0.1
A03	1	12	0	25	36	12	9	8	103	1.0	11.7	0.1	23.9	34.9	11.6	8.7	8.1	100.0	0.1	1.3	0.0	2.7	3.9	1.3	1.0	0.9	11.1	0.0	<0.1	0.0	<0.1	<0.1	<0.1	0.0	0.0	<0.1
A04	0	10	0	11	6	1	10	8	47	0.8	21.3	1.1	23.0	13.7	2.7	21.3	16.1	100.0	0.0	1.1	0.1	1.2	0.7	0.1	1.1	0.8	5.0	0.0	<0.1	0.0	<0.1	0.0	0.0	<0.1	0.0	<0.1
A05	0	7	0	8	21	1	1	0	38	1.2	18.8	0.0	20.0	54.5	3.5	2.1	0.0	100.0	0.0	0.8	0.0	0.8	2.2	0.1	0.1	0.0	4.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0	<0.1
A06	0	38	0	24	6	1	4	0	73	0.3	52.5	0.5	32.3	7.7	0.9	5.7	0.2	100.0	0.0	4.1	0.0	2.5	0.6	0.1	0.4	0.0	7.8	0.0	<0.1	0.0	<0.1	0.0	0.0	0.0	0.0	<0.1
A07	2	69	0	51	75	12	28	0	237	0.9	29.2	0.0	21.3	31.6	5.2	11.8	0.0	100.0	0.2	7.4	0.0	5.4	8.1	1.3	3.0	0.0	25.5	0.0	<0.1	0.0	<0.1	<0.1	<0.1	<0.1	0.0	0.1
A08	1	39	0	41	32	5	14	0	133	0.6	29.7	0.0	30.6	24.3	3.7	10.9	0.2	100.0	0.1	4.2	0.0	4.4	3.5	0.5	1.5	0.0	14.2	0.0	<0.1	0.0	<0.1	<0.1	0.0	<0.1	0.0	0.1
A09	0	16	0	1	0	0	1	0	17	0.0	91.6	0.0	3.9	1.0	0.0	3.5	0.0	100.0	0.0	1.7	0.0	0.1	0.0	0.0	0.1	0.0	1.9	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A10	0	12	1	4	3	1	7	0	28	0.5	41.9	2.9	14.6	11.3	4.6	24.1	0.0	100.0	0.0	1.3	0.1	0.4	0.3	0.1	0.7	0.0	3.0	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A11	0	10	1	3	2	0	2	0	18	0.0	56.8	7.0	13.9	12.1	1.8	8.4	0.0	100.0	0.0	1.1	0.1	0.3	0.2	0.0	0.2	0.0	1.9	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A12	1	33	4	26	29	9	23	1	126	1.0	26.2	2.9	20.6	23.4	6.9	18.4	0.5	100.0	0.1	3.5	0.4	2.8	3.2	0.9	2.5	0.1	13.5	0.0	<0.1	0.0	<0.1	<0.1	0.0	<0.1	0.0	0.1
A13	1	26	0	24	30	5	22	0	109	0.9	23.9	0.3	22.1	27.7	4.9	19.9	0.1	100.0	0.1	2.8	0.0	2.6	3.3	0.6	2.3	0.0	11.7	0.0	<0.1	0.0	<0.1	<0.1	0.0	<0.1	0.0	<0.1
A14	0	14	2	44	41	5	20	0	127	0.0	10.9	1.9	34.8	32.5	4.2	15.5	0.1	100.0	0.0	1.5	0.3	4.8	4.5	0.6	2.1	0.0	13.7	0.0	<0.1	0.0	<0.1	<0.1	0.0	<0.1	0.0	0.1
A15	0	41	1	38	28	0	15	0	124	0.0	33.4	1.0	30.8	22.8	0.0	11.7	0.2	100.0	0.0	4.5	0.1	4.1	3.0	0.0	1.6	0.0	13.3	0.0	<0.1	0.0	<0.1	<0.1	0.0	<0.1	0.0	<0.1
A16	0	4	0	1	1	0	2	0	8	2.0	47.7	0.0	18.1	7.2	4.5	20.4	0.0	100.0	0.0	0.4	0.0	0.2	0.1	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A17	0	5	0	1	0	0	1	0	7	0.0	64.3	0.0	14.4	0.1	4.7	16.6	0.0	100.0	0.0	0.5	0.0	0.1	0.0	0.0	0.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A18	1	263	0	98	86	0	79	2	530	0.2	49.6	0.1	18.6	16.3	0.0	14.8	0.5	100.0	0.1	28.2	0.0	10.6	9.3	0.0	8.4	0.3	56.9	0.0	0.1	0.0	<0.1	<0.1	0.0	<0.1	0.0	0.3
A19	0	71	0	23	3	3	7	2	109	0.0	65.0	0.0	21.3	2.9	2.5	6.5	1.8	100.0	0.0	7.6	0.0	2.5	0.3	0.3	0.8	0.2	11.7	0.0	<0.1	0.0	<0.1	0.0	0.0	0.0	0.0	<0.1
A20	0	44	0	17	5	16	14	4	101	0.0	43.3	0.0	17.3	5.2	15.9	14.3	4.0	100.0	0.0	4.7	0.0	1.9	0.6	1.7	1.5	0.4	10.8	0.0	<0.1	0.0	<0.1	0.0	<0.1	<0.1	0.0	<0.1
A21	0	53	0	30	18	14	13	3	130	0.0	40.4	0.3	23.2	13.5	10.8	9.6	2.2	100.0	0.0	5.7	0.0	3.3	1.9	1.5	1.3	0.3	14.0	0.0	<0.1	0.0	<0.1	<0.1	<0.1	<0.1	0.0	0.1
A22	0	20	0	4	0	2	0	0	26	0.0	76.0	0.0	15.5	0.0	6.5	0.7	1.3	100.0	0.0	2.2	0.0	0.4	0.0	0.2	0.0	0.0	2.8	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A23	0	138	5	53	29	25	19	4	273	0.0	50.6	1.8	19.4	10.6	9.2	7.0	1.4	100.0	0.0	14.8	0.5	5.7	3.1	2.7	2.0	0.4	29.3	0.0	0.1	0.0	<0.1	<0.1	<0.1	<0.1	0.0	0.1
A24	0	31	0	1	0	1	3	0	36	0.0	85.9	0.0	2.5	0.0	1.9	8.6	1.1	100.0	0.0	3.3	0.0	0.1	0.0	0.1	0.3	0.0	3.8	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A25	0	42	0	2	0	1	0	0	45	0.0	92.5	0.0	3.9	0.0	2.8	0.6	0.2	100.0	0.0	4.5	0.0	0.2	0.0	0.1	0.0	0.0	4.8	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A26	0	128	0	9	7	4	5	2	155	0.0	82.8	0.1	5.6	4.5	2.7	3.2	1.0	100.0	0.0	13.8	0.0	0.9	0.7	0.4	0.5	0.2	16.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
A27	0	505	1	31	4	11	26	3	580	0.0	87.0	0.2	5.3	0.8	1.9	4.5	0.5	100.0	0.0	54.2	0.1	3.3	0.5	1.2	2.8	0.3	62.3	0.0	0.3	0.0	<0.1	0.0	<0.1	<0.1	0.0	0.3
A28	0	89	0	2	1	1	4	1	98	0.0	91.0	0.0	2.5	0.8	1.4	3.7	0.6	100.0	0.0	9.6	0.0	0.3	0.1	0.1	0.4	0.1	10.5	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A29	0	66	0	7	2	2	16	2	94	0.0	69.7	0.4	7.6	2.1	1.9	16.5	1.8	100.0	0.0	7.0	0.0	0.8	0.2	0.2	1.7	0.2	10.1	0.0	<0.1	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
A30	0	32	0	2	0	0	0	1	35	0.0	91.5	0.0	5.9	0.0	0.0	0.0	2.6	100.0	0.0	3.4	0.0	0.2	0.0	0.0	0.0	0.1	3.7	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A31	0	23	0	0	0	0	0	0	23	0.0	99.1	0.0	0.9	0.0	0.0	0.0	0.0	100.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A32	0	32	0	3	0	0	1	0	36	0.0	89.3	0.0	8.7	0.0	0.0	2.0	0.0	100.0	0.0	3.5	0.0	0.3	0.0	0.0	0.1	0.0	3.9	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A33	0	77	0	26	2	14	6	2	129	0.0	60.0	0.3	20.2	1.8	11.0	4.9	1.8	100.0	0.0	8.3	0.0	2.8	0.3	1.5	0.7	0.3	13.9	0.0	<0.1	0.0	<0.1	0.0	<0.1	0.0	0.0	0.1
A34	0	14	0	3	0	2	1	1	21	0.0	68.2	0.0	14.6	0.0	8.2	3.2	5.8	100.0	0.0	1.5	0.0	0.3	0.0	0.2	0.1	0.1	2.3	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A35	0	18	0	0	0	0	0	0	18	0.0	99.3	0.0	0.7	0.0	0.0	0.0	0.0	100.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A36	0	11	0	0	0	0	1	0	12	0.0	94.3	0.0	0.0	0.0	0.0	5.7	0.0	100.0	0.0	1.2	0.0	0.0	0.0	0.0	0.1	0.0	1.3	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1
A37	0	90	0	36	10	1	2	5	144	0.0	62.7	0.2	25.0	6.9	0.4	1.1	3.7	100.0	0.0	9.7	0.0	3.9	1.1	0.1	0.2	0.6	15.5	0.0	<0.1	0.0	<0.1	<0.1	0.0	0.0	0.0	0.1
A38	1	5	1	9	4	1	6	11	38	3.1	14.1	2.5	24.0	9.7	1.9	16.4	28.3	100.0	0.1	0.6	0.1	1.0	0.4	0.1	0.7	1.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1	

Table E-4. Impaired or Vulnerable Terrestrial Communities by Segment Alternative Right-of-Way

State Conservation Ranking	Common Community Names	Acres in ROW																																							
		A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38		
S2	Needlegrass-wheatgrass Prairie	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S3	Bur Oak Upland Woodland	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Cottonwood-green Ash Floodplain Forest	0	0	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
	Horizontal Juniper-little Bluestem Shrubland	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S4	Buckbrush Shrubland	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Buffaloberry Shrubland	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>27</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>

Table E-5. Number of Federally Listed Species Occurrences within Segment Alternatives and One Mile of Segment Alternatives

Species Occurrences		Segment Alternatives																																								
		A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38			
Within Segment Alternative	NRPRD T&E Occurrences	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Whooping Crane Sightings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total T&E Species Observations	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Within 1 mile of Segment Alternative	NRPRD T&E Occurrences	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
	Whooping Crane Sightings	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total T&E Species Observations	0	0	4	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

**Table E-6. Estimated NWI Wetland Impacts within Segment Alternative Rights-of-Way**

	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38
<b>Estimated Permanent Impacts</b>																																						
1,000-2,000 foot wetland crossing	0	0	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Estimated # of Structures in NWI Wetland	0	0	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Estimated Acreage (Square-feet) of Permanent Impacts	0	0	0.002 (79)	0.002 (79)	0	0	0.005 (236)	0	0	0	0	0	0	0	0	0	0	0.004 (157)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002 (79)