

Table 5-1
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Routes

Evaluation Criteria		Hunt 1	Hunt 2	Hunt 3	Hunt 4	Hunt 5	Hunt 6	Hunt 7	Hunt 8	Hunt 9	Hunt 10	Hunt 11	Hunt 12	Hunt 13	Hunt 14
1	Length of primary alternative route (miles)	22.80	22.68	24.26	26.28	21.48	21.59	22.77	22.56	22.89	24.24	24.10	22.56	22.34	22.46
2	Number of habitable structures ¹ within 300 feet of ROW centerline	30	36	30	26	26	28	30	31	29	50	31	31	32	31
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	16	16	6	2	6	6	16	16	16	16	16	16	16	16
4	Length of ROW using existing transmission line ROW	1.91	1.91	0.33	0.06	0.33	0.33	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	4.42	6.48	4.33	2.89	1.73	1.73	2.95	2.59	2.72	5.89	3.39	2.95	2.59	2.36
7	Length of ROW parallel and adjacent to apparent property lines ²	11.78	10.08	14.54	17.82	15.35	15.72	14.00	14.01	13.17	11.33	13.32	13.90	13.91	13.08
8	Sum of evaluation criteria 4, 5, 6, and 7	18.11	18.47	19.20	20.77	17.41	17.78	18.86	18.51	17.80	19.13	18.62	18.76	18.41	17.35
9	Percent of evaluation criteria 4, 5, 6, and 7	79%	81%	79%	79%	81%	82%	83%	82%	78%	79%	77%	83%	82%	77%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas ³ within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	8.97	10.66	12.09	10.84	8.11	8.17	7.63	7.25	8.29	11.24	9.87	6.97	6.59	7.24
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.66	0.66	0.66
16	Number of pipeline crossings ⁴	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	Number of transmission line crossings	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	Number of IH, US and state highway crossings	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	Number of farm-to-market (FM) road crossings	3	4	3	3	3	3	4	4	4	4	4	3	3	3
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	1	0	0	0	0	0	0	0	1	0	0	0	0
21	Number of FAA registered public/military airports ⁵ with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports ⁵ having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	4	5	5	4	4	4	4	4	4	5	4	4	4	4
24	Number of heliports within 5,000 feet of the ROW centerline	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	1	1	1	1	1	1	2	0	1	1	1
Aesthetics															
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	2.87	3.94	2.88	3.11	2.92	3.03	4.21	3.99	4.44	5.67	4.05	3.14	2.92	3.16
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	8.30	9.23	7.46	3.43	4.65	4.65	4.65	4.65	4.65	7.49	7.57	4.65	4.65	4.65
29	Estimated length of ROW within foreground visual zone ⁶⁽⁷⁾ of parks/recreational areas ³	0.07	0.07	0.07	0.25	0.25	0.25	0.07	0.25	0.07	0.07	0.07	0.07	0.25	0.25
Ecology															
30	Length of ROW across upland woodlands/brushlands	16.05	14.88	18.10	19.57	16.27	16.34	16.85	16.85	16.41	17.24	17.74	17.23	17.22	16.78
31	Length of ROW across bottomland/riparian woodlands	0.96	0.99	0.74	0.93	0.69	0.69	0.74	0.74	0.90	1.10	0.99	0.74	0.75	0.92
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	68.8	71.3	48.4	104.4	68.4	69.2	82.4	83.0	77.7	77.3	73.2	78.8	79.3	74.6
35	Length of ROW across open water (lakes, ponds)	0.02	0.01	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
36	Number of stream crossings	29	28	27	33	22	23	23	23	28	31	31	24	24	29
37	Number of river crossings	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.34	0.26	0.17	1.08	0.27	0.27	0.27	0.27	0.24	0.18	0.44	0.17	0.17	0.15
39	Length of ROW across 100-year floodplains	0.86	1.26	0.86	1.01	0.76	0.76	1.13	1.15	1.64	1.27	1.21	0.73	0.76	1.28
Cultural Resources															
40	Number of recorded historic or prehistoric sites crossed by ROW	0	1	0	0	0	0	1	1	1	1	1	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	2	2	1	1	2	2	2	2	2	2	3	1	1	1
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archeological/historic site potential	12.7	11.8	11.2	16.3	10.2	10.5	11.3	11.1	12.8	13.5	14.6	10.9	10.7	12.2

Notes: ¹Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

²Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

³Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

⁴Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

⁵As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

⁶One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

⁷One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological historical/resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Route	Segments
Hunt 1	X3-B-F-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-L1-O1-SUB1-R1-X1-I2-J2-H2-I3-J3-M3-R3
Hunt 2	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-L1-SUB2-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 3	X3-B-C-D-K-Y3-Z3-Q-A1-B1-F1-H1-T4-L1-SUB2-N1-Z1-A2-D2-G2-H2-I3-J3-M3-R3
Hunt 4	X3-A-L-B4-N-P-R-S-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 5	X3-B-C-J-V3-Z3-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 6	X3-B-C-J-V3-Z3-Q-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 7	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Hunt 8	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-Q3
Hunt 9	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-P3-R3
Hunt 10	X3-B-F-I-H4-I4-L4-Q-A1-G1-T4-SUB3-N4-M1-Z1-B2-F2-I3-K3-M3-R3
Hunt 11	X3-B-F-I-H4-I4-L4-Q-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-J2-H2-I3-K3-M3-R3
Hunt 12	X3-B-F-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Hunt 13	X3-B-F-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-Q3
Hunt 14	X3-B-F-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-Q3

Table 5-1
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Routes

Evaluation Criteria		Hunt 15	Hunt 16	Hunt 17	Hunt 18	Hunt 19	Hunt 20	Hunt 21	Hunt 22	Hunt 23	Hunt 24	Hunt 25	Hunt 26	Hunt 27	Hunt 28
1	Length of primary alternative route (miles)	27.98	24.38	24.32	27.12	27.77	25.68	26.43	25.45	25.72	26.94	27.27	27.90	29.77	27.61
2	Number of habitable structures ¹ within 300 feet of ROW centerline	28	29	31	23	30	25	30	40	40	30	32	29	48	27
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	6	6	6	16	16	16	16	16	6	6	6	2	6	7
4	Length of ROW using existing transmission line ROW	0.33	0.33	0.33	1.91	1.91	1.91	1.91	1.91	0.33	0.33	0.33	0.06	0.33	0.33
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.29	0.00	0.00	0.29	0.29	0.29	0.29	0.00	0.29	1.50	0.29	0.29	0.29	1.50
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	3.40	5.16	1.97	4.30	4.62	3.86	2.55	6.57	7.64	5.44	5.21	3.23	7.06	6.21
7	Length of ROW parallel and adjacent to apparent property lines ²	19.51	16.05	18.69	15.48	14.98	16.44	18.04	12.67	13.68	14.09	15.47	18.68	16.34	14.64
8	Sum of evaluation criteria 4, 5, 6, and 7	23.53	21.54	20.99	21.98	21.80	22.50	22.79	21.15	21.94	21.36	21.30	22.26	24.02	22.68
9	Percent of evaluation criteria 4, 5, 6, and 7	84%	88%	86%	81%	78%	88%	86%	83%	85%	79%	78%	80%	81%	82%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas ³ within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	18.45	10.63	12.66	11.59	12.95	8.74	12.82	10.26	15.69	12.81	14.73	15.42	18.07	13.79
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines ⁴	0.66	0.66	0.66	0.00	0.00	0.66	0.66	0.66	0.00	0.66	0.66	0.66	0.00	0.66
16	Number of pipeline crossings ⁴	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	Number of transmission line crossings	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	Number of IH, US and state highway crossings	2	2	2	2	2	2	2	2	2	3	3	3	2	2
19	Number of farm-to-market (FM) road crossings	3	3	3	4	4	3	3	5	3	3	3	3	3	3
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Number of FAA registered public/military airports ⁵ with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports ⁵ having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	3	4	4	4	4	4	4	4	3	3	3	2	3	3
24	Number of heliports within 5,000 feet of the ROW centerline	0	2	2	2	1	2	1	2	0	1	0	1	0	1
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	2	2	2	2	1	3	2	4	1	3	5	3	2	3
Aesthetics															
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	4.10	4.42	4.44	4.75	4.82	3.95	4.25	4.21	3.84	6.27	5.14	5.14	4.73	6.92
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	1.79	4.83	3.88	7.49	7.77	4.57	3.88	9.19	6.57	2.63	1.79	2.67	6.32	2.63
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.07	0.07	0.25	0.07	0.07	0.07	0.07	0.25	0.07	0.25	0.25	0.25	0.07	0.07
Ecology															
30	Length of ROW across upland woodlands/brushlands	17.65	17.65	16.97	18.99	19.75	18.55	17.49	17.44	16.01	19.48	19.04	18.74	19.70	19.54
31	Length of ROW across bottomland/riparian woodlands	0.53	0.65	0.70	1.17	1.24	0.93	0.93	0.72	0.85	0.82	0.71	0.87	1.09	0.63
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	65.5	75.0	65.1	82.9	75.6	89.3	78.3	94.9	52.6	64.2	59.1	89.1	65.0	66.0
35	Length of ROW across open water (lakes, ponds)	0.03	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.04	0.00	0.00	0.00	0.00	0.02
36	Number of stream crossings	21	24	27	35	35	29	30	29	29	29	25	34	36	29
37	Number of river crossings	2	1	2	1	1	1	2	2	1	1	1	2	1	1
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.37	0.08	0.44	0.70	0.99	0.43	0.63	0.19	0.63	0.20	0.36	1.00	0.58	0.20
39	Length of ROW across 100-year floodplains	0.58	0.99	1.46	1.88	1.71	1.40	1.76	1.15	0.76	1.16	1.16	1.27	0.68	1.01
Cultural Resources															
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	1	1	0	0	0	1	0	0	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	1	1	2	3	3	1	2	1	5	7	7	3	2	7
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archeological/historic site potential	13.1	11.0	12.3	15.6	16.1	12.3	13.9	13.9	13.4	12.2	12.8	16.7	15.5	12.3

Notes: ¹Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

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³Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

⁴Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

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⁶One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

⁷One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

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Route	Segments
Hunt 15	X3-B-C-D-E-L-B4-N-P-R-Z-C1-E1-J1-SUB4-Q1-U1-M2-V2-X2-Y2-A3-D3-F3-H3-L3-W3-P3-R3
Hunt 16	X3-B-C-J-V3-Z3-Q-A1-B1-F1-I1-J1-SUB4-Q1-T1-V1-Y1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Hunt 17	X3-B-C-J-V3-Z3-Q-A1-B1-F1-I1-J1-SUB4-Q1-U1-M2-V2-B3-E3-F3-O3-W3-Q3
Hunt 18	X3-B-F-I-H4-I4-L4-Q-S-Z-C1-E1-J1-SUB4-P1-R1-X1-I2-J2-H2-I3-K3-M3-R3
Hunt 19	X3-B-F-I-H4-I4-L4-Q-S-Z-C1-E1-J1-SUB4-Q1-U1-W1-K2-L2-J2-H2-I3-K3-M3-R3
Hunt 20	X3-B-F-I-U3-V3-Z3-Q-S-Z-C1-E1-J1-SUB4-P1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Hunt 21	X3-B-F-I-U3-V3-Z3-Q-S-Z-C1-E1-J1-SUB4-Q1-U1-M2-V2-B3-E3-F3-O3-W3-P3-R3
Hunt 22	X3-B-F-I-U3-V3-Z3-Q-A1-B1-F1-I1-J1-SUB4-Q1-T1-V1-T3-K2-N2-P2-W2-Y2-C3-E3-F3-H3-L3-W3-Q3
Hunt 23	X3-B-C-D-K-A4-O-R-Z-C1-E1-J1-SUB4-Q1-U1-W1-T3-Y1-C2-D2-E2-F2-I3-J3-M3-R3
Hunt 24	X3-B-C-D-K-A4-M-N-T-D4-V-W-X-SUB5-Y-C1-D1-F1-H1-T4-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-Q3
Hunt 25	X3-B-C-D-K-A4-M-N-T-D4-V-W-X-SUB5-Y-C1-E1-J1-Q1-U1-M2-O2-P2-R2-U2-Z2-D3-F3-O3-W3-Q3
Hunt 26	X3-A-L-C4-D4-V-W-X-SUB5-Y-C1-E1-J1-Q1-U1-M2-V2-B3-E3-F3-O3-W3-Q3
Hunt 27	X3-B-C-D-E-L-B4-N-T-D4-V-SUB6-W-Y-C1-E1-J1-Q1-T1-S1-X1-C2-D2-E2-F2-I3-K3-M3-R3
Hunt 28	X3-B-C-D-K-A4-M-N-T-D4-U-SUB6-W-Y-C1-D1-F1-H1-T4-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-P3-R3

Table 5-1
Land Use and Environmental Data for Primary Route Evaluation

Evaluation Criteria		Primary Alternative Routes											
Land Use		Hunt 29	Hunt 30	Ingram 1	Ingram 2	Ingram 3	Ingram 4	Ingram 5	Ingram 6	Ingram 7	Ingram 8	Ingram 9	Ingram 10
1	Length of primary alternative route (miles)	26.84	28.46	25.34	23.12	23.28	25.22	25.02	24.87	25.23	25.33	25.08	25.01
2	Number of habitable structures ¹ within 300 feet of ROW centerline	35	37	60	76	72	35	39	32	28	45	44	46
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	6	6	3	2	2	2	2	2	3	31	31	31
4	Length of ROW using existing transmission line ROW	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47	4.47	4.47
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.29	0.29	1.88	0.00	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	10.78	3.79	10.67	5.80	4.45	2.41	6.88	2.13	7.99	2.95	2.09	2.36
7	Length of ROW parallel and adjacent to apparent property lines ²	10.99	19.32	9.54	12.74	14.41	17.34	13.12	16.99	11.08	14.00	13.84	13.08
8	Sum of evaluation criteria 4, 5, 6, and 7	22.39	23.73	22.09	18.54	18.86	19.75	20.00	19.12	20.95	21.42	20.40	19.91
9	Percent of evaluation criteria 4, 5, 6, and 7	83%	83%	87%	80%	81%	78%	80%	77%	83%	85%	81%	80%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas ³ within 1,000 feet of ROW centerline	0	0	2	0	0	0	0	0	2	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	15.75	17.31	9.62	7.36	6.99	8.67	11.18	7.93	9.69	8.72	8.22	8.33
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.66	0.66	0.66	0.66	0.66	0.00	0.66	0.66	0.66	0.66	0.66
16	Number of pipeline crossings ⁴	2	2	2	2	2	2	2	2	2	2	2	2
17	Number of transmission line crossings	1	1	1	1	1	1	1	1	1	1	1	1
18	Number of IH, US and state highway crossings	2	2	3	7	5	1	1	1	1	3	3	3
19	Number of farm-to-market (FM) road crossings	3	3	4	4	4	4	4	4	4	4	3	3
20	Number of cemeteries within 1,000 feet of the ROW centerline	1	0	0	0	0	0	1	0	0	0	0	0
21	Number of FAA registered public/military airports ⁵ with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports ⁵ having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	4	2	2	3	3	4	4	3	2	4	4	4
24	Number of heliports within 5,000 feet of the ROW centerline	1	0	1	2	2	2	2	2	1	2	2	2
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	3	3	1	1	1	1	0	1	1	2	2	2
Aesthetics													
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	5.87	4.78	10.63	9.07	8.06	5.64	5.37	5.42	9.53	4.72	3.65	3.67
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	7.21	2.91	2.42	4.45	4.45	3.61	9.03	4.45	2.42	4.45	4.45	4.45
29	Estimated length of ROW within foreground visual zone ⁶⁽⁷⁾ of parks/recreational areas ³	0.07	0.25	1.40	0.25	0.25	0.07	0.07	0.25	1.40	0.07	0.07	0.25
Ecology													
30	Length of ROW across upland woodlands/brushlands	17.94	18.95	16.34	16.77	17.47	19.49	16.74	18.57	16.50	17.91	18.14	17.84
31	Length of ROW across bottomland/riparian woodlands	0.89	0.58	0.45	0.69	0.73	0.71	0.96	0.75	0.49	0.77	0.82	0.95
32	Length of ROW across NWI mapped wetlands	0.06	0.06	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	56.8	75.6	76.8	62.2	74.7	92.2	71.9	91.0	92.7	95.6	99.4	87.7
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.02	0.03	0.03
36	Number of stream crossings	27	25	28	28	28	33	32	30	30	24	28	30
37	Number of river crossings	1	2	1	1	1	1	1	1	1	1	1	1
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.18	0.23	0.46	0.59	1.00	0.61	0.67	0.78	0.33	0.27	0.27	0.15
39	Length of ROW across 100-year floodplains	0.75	0.68	0.54	1.03	0.98	1.36	1.49	1.39	0.59	1.42	1.03	1.57
Cultural Resources													
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	1	5	4	1	1	1	1	3	2	2
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	7	3	7	7	4	2	2	3	6	4	4	3
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archeological/historic site potential	12.0	13.3	11.2	13.4	13.0	13.5	13.3	13.4	11.5	11.1	11.5	11.9

Notes: ¹Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

²Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

³Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

⁴Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

⁵As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

⁶One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

⁷One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological historical/resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Route	Segments
Hunt 29	X3-B-C-D-K-A4-M-N-T-D4-V-SUB6-W-Y-C1-E1-I1-H1-T4-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 30	X3-B-C-D-E-L-C4-D4-V-SUB6-W-Y-C1-E1-J1-Q1-U1-M2-V2-X2-C3-E3-F3-H3-L3-W3-Q3
Ingram 1	F4-G4-R4-Q4-M4-N4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Ingram 2	F4-G4-S4-O4-I4-L4-Q-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Ingram 3	F4-G4-S4-P4-L4-Q-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Ingram 4	F4-J4-Q4-K4-P4-L4-Q-A1-B1-F1-H1-T4-Sub 3-L1-N1-Z1-A2-D2-G2-S2-G3-L3-W3-P3-R3
Ingram 5	F4-J4-Q4-K4-P4-L4-Q-A1-B1-F1-H1-T4-Sub 3-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Ingram 6	F4-J4-Q4-K4-P4-L4-Q-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Ingram 7	F4-J4-Q4-M4-N4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-P3-R3
Ingram 8	E4-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Ingram 9	E4-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-P3-R3
Ingram 10	E4-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-Q3

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