

Appendix Q Route Options Data Analysis Tables

DEIS Name			Route Option A (Purple Route)	Route Option B (Blue Route)	Route Option C	Route Option D
Length			170.6	173.9	179.4	177.6
ROW Sharing / Paralleling	Transmission line	Length (miles, percent)	16.6 (10)	17.2 (10)	10.6 (6)	9.9 (6)
	Road	Length (miles, percent)	76.3 (45)	79.5 (46)	119.8 (67)	91.7 (52)
	Railroad	Length (miles, percent)	5.8 (3)	0 (0)	2.7 (2)	0 (0)
	Pipeline	Length (miles, percent)	0.1 (< 1)	2.1 (1)	1.7 (1)	1.8 (1)
	Total ROW sharing (transmission line, road, railroad, and pipeline)	Length (miles, percent)	89.3 (52)	85.4 (49)	128.9 (72)	98.1 (55)
	Total ROW Paralleling (Parcel, section, and division lines)	Length (miles, percent)	152.5 (89)	160.3 (92)	170.1 (95)	162.3 (91)
	Total ROW Paralleling (all)	Length (miles, percent)	155.7 (91)	161.1 (93)	172.6 (96)	164.9 (93)
	Total length following no infrastructure or division lines	Length (miles, percent)	14.9 (9)	12.8 (7)	6.8 (4)	12.7 (7)
Human Settlement: Residences	Residences within 0 - 75 feet (ROW)	Count	0	0	0	0
	Residences within 75 - 250 ft	Count	69	69	77	85
	Residences within 250 - 500 ft (Route Width)	Count	91	77	114	108
	Residences within 500 - 1,600 ft	Count	363	291	328	315
	Total Residences	Count	523	437	519	508
Human Settlement: Non-Residences	Non-residences within 0 - 75 feet (ROW)	Count	11	5	9	14
	Non-residences within 75 - 500 ft (Route Width)	Count	402	441	638	623
	Non-residences within 500 - 1,600 ft	Count	1,409	1,067	1,414	1,363
	Total non-residences	Count	1,822	1,513	2,061	2,000
Human Settlement: Recreation	State Water Trails	Crossing count	4	5 (crosses Redwood River twice)	4	4
	State Wild and Scenic Rivers	Crossing count	3	3	3	3
	Scenic Byways	Crossing count	2	2	2	2
Archaeological Resources	Archaeological Resources within ROW	Count	3	4	6	3
	Archaeological Resources within Route Width	Count	6	8	9	5
	Archaeological Resources within 1 Mile	Count	51	63	53	54
Historic Architectural Resources	Historic Architectural Resources within ROW	Count	33	24	29	30
	Historic Architectural Resources within Route Width	Count	50	35	50	53
	Historic Architectural Resources within 1 Mile	Count	284	190	299	277

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Historic Cemeteries	Historic Cemeteries within ROW	Count	7	6	5	7
	Historic Cemeteries within Route Width	Count	8	7	8	8
Land-Based Economies (Agriculture)	Agricultural Land	Area within ROW (ac)	2,367	2,342	2,314	2,388
	Prime Farmland	Area within ROW (ac)	2,317	2,324	2,513	2,438
	Center pivot irrigation systems	Crossing length (ft)	12,351	19,119	15,059	14,352
		Area within ROW (ac)	46	66	52	53
Conservation Easements	Reinvest in Minnesota (RIM)	Area within ROW (ac)	0	5	0	0
		Area within route width (ac)	25	32	10	28
	Conservation Reserve Enhancement Program (CREP)	Area within ROW (ac)	10	6	5	10
		Area within route width (ac)	143	393	193	123
Surface Waters and Wetlands	NHD Waterbodies	Crossing length (ft)	2,621	1,516	1,762	1,342
	NHD Waterbodies	Crossing count	7	6	6	5
	NHD Watercourses	Crossing count	123	100	115	125
	PWI Basins	Crossing count	0	2	1	0
	PWI Wetlands	Crossing count	7	4	7	4
	PWI Watercourses	Crossing count	41	35	39	42
	Impaired Streams	Crossing count	27	25	23	30
	Trout Streams	Crossing count	1	1	0	1
	Wetlands - Forested	Area within ROW (ac)	17	17	19	19
	Wetlands - Non-Forested	Area within ROW (ac)	118	134	125	128
	Wetlands - All	Area within ROW (ac)	135	152	144	147
	Wetlands - All	Crossing > 1,000 ft count	3	6	4	4
	Wetlands - All	Area within ROW (ac)	135	152	144	147
Vegetation	Cultivated Crops	Area within ROW (ac)	2,273	2,287	2,241	2,297
	Hay/pasture	Area within ROW (ac)	94	54	73	91
	Forested	Area within ROW (ac)	51	47	41	48

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Wildlife	Grassland Bird Conservation Areas	Area within ROW (ac)	811	727	548	752
		Area within route width (ac)	5,462	6,301	3,693	5,059
	Important Bird Areas	Area within ROW (ac)	76	64	76	76
		Area within route width (ac)	523	432	523	526
	Wildlife Management Areas	Area within ROW (ac)	< 1	0	0	0
		Area within route width (ac)	67	22	6	66
	State Game Refuges	Area within ROW (ac)	19	42	5	28
		Area within route width (ac)	155	294	44	190
	Waterfowl Production Areas	Area within ROW (ac)	2	1	0	1
		Area within route width (ac)	49	152	78	159
	Shallow Wildlife Lakes	Area within ROW (ac)	0	0	0	0
		Area within route width (ac)	0	0	1	0
	Wildlife Action Network Corridors	Area within ROW (ac)	334	228	289	327
		Area within route width (ac)	2,250	1,555	1,970	2,162
Rare and Unique Natural Resources	State Threatened or Endangered Species	Count within ROW	5	2	5	6
		Count within route width	8	3	8	9
	Sites of Biodiversity Significance	Area within ROW (ac)	61	91	33	41
		Area within route width (ac)	563	847	275	304
	Native Plant Communities	Area within ROW (ac)	8	8	3	3
		Area within route width (ac)	144	58	37	26
	Railroad Rights-of-way Prairie	Length within ROW (ft)	718	154	0	224
		Length within route width (ft)	55,992	1,025	0	3,159
	Lakes of Biological Significance	Area within ROW (ac)	0	0	2	0
		Area within route width (ac)	0	0	17	0

The referenced center pivot irrigation acreage data was used to help inform locations of irrigation system crossings and the narrative in the EIS summarizes EERA's understanding of where systems are likely or unlikely to be able to be avoided.