

APPENDIX A

APPLICATION OF THE COAL LAND USE PLANNING SCREENS

TABLE A-1
**SUMMARY OF ACREAGES ACCEPTABLE FOR
FURTHER CONSIDERATION**

CSA	Acres
Antelope	28,014
Arnegard	11,290
Beulah-Zap	41,134
Bowman-Gascoyne	19,261
Center-Stanton	22,706
Dickinson	50,027
Divide	2,819
Dunn Center	63,710
Elgin-New Leipzig	13,436
Elkhorn	17,017
Fortuna	7,197
Garrison	2,343
Golden Valley	17,780
Hanks	34,765
Keene	42,553
Mott	39,803
New England	77,195
Niobe	160
Sand Creek	39,775
Tobacco Garden	9,596
Underwood	1,605
Velva	2,562
Washburn	1,002
Williston	27,958
Total	573,868

TABLE A-2
SUMMARY OF COAL SCREENS

CSA	Acres Federal Coal	Unsuit.	ACRES EXCLUDED			Acres Acceptable
			Multiple Use	Surface Owner	Wildlife Threshold ¹	
ANTELOPE	32,360	910	3,436	0	1,082	28,014
ARNEGARD	25,020	105	3,108	10,517	2,147	11,290
BEULAH-ZAP	57,200	10,274	4,013	1,779	1,627	41,134
BOWMAN-GASCOYNE	21,320	231	1,828	0	1,301	19,261
CENTER-STANTON	27,480	1,197	2,457	1,120	1,316	22,706
DICKINSON	108,628	6,842	42,877	8,882	290	50,027
DIVIDE	3,760	461	0	480	0	2,819
DUNN CENTER	88,560	5,196	6,859	15,115	382	61,390
ELGIN-NEW LEIPZIG	14,400	325	399	240	219	13,436
ELKHORN	25,380	267	4,185	3,911	2,442	17,017
FORTUNA	19,400	8,539	2,028	1,636	169	7,197
GARRISON	12,660	4,067	5,623	627	0	2,343
GOLDEN VALLEY	21,960	850	852	2,478	0	17,780
HANKS	47,100	2,917	6,663	2,755	3,947	34,765
KEENE	122,700	14,600	49,462	16,085	5,618	42,553
MOTT	42,200	806	1,591	0	1,300	39,803
NEW ENGLAND	95,800	5,569	1,266	11,770	196	77,195
NIOBE	160	0	0	0	0	160
SAND CREEK	57,240	1,761	8,406	7,298	2,328	39,775
TOBACCO GARDEN	64,060	50,385	283	3,796	0	9,596
UNDERWOOD	2,600	995	0	0	0	1,605
VELVA	20,280	16,122	1,596	0	0	2,562
WASHBURN	1,360	85	273	0	130	1,002
WILLISTON	98,020	60,878	9,030	154	811	27,958
TOTAL	1,009,648	193,382	156,235	88,643	25,305	571,388

¹Wildlife threshold acreages are included in multiple use.

TABLE A-3
ACRES EXCLUDED FROM FURTHER CONSIDERATION DUE TO COAL UNSUITABILITY CRITERIA

CSA	UNSUITABILITY CRITERION									Gross Total ²	Net Total ³
	1	3 ¹	7	11	13	14	15	16	19		
Antelope	40	1,156	0	0	0	25	0	444	571	1,080	910
Arnegard	0	296	0	0	0	0	0	105	0	105	105
Beulah-Zap	0	468	0	0	0	913	8,979	600	1,801	12,293	10,274
Bowman-Gascoyne	320	368	0	0	0	0	0	189	0	509	231
Center-Stanton	0	664	0	0	0	0	0	226	1,018	1,244	1,197
Dickinson	40	2,411	0	1,057	0	1,024	0	3,939	2,984	9,044	6,842
Divide	347	66	0	0	0	37	0	80	80	544	461
Dunn Center	285	1,472	0	0	0	695	0	3,897	3,489	8,366	5,196
Elgin-New Leipzig	0	287	0	0	0	0	0	201	167	368	325
Elkhorn	0	460	0	310	0	0	0	0	0	310	267
Fortuna	4,690	412	0	0	0	3,908	0	0	0	8,598	8,539
Garrison	1,960	452	0	0	0	1,874	0	569	753	5,156	4,067
Golden Valley	640	745	0	0	0	0	0	211	211	1,062	850
Hanks	95	4,337	0	0	0	1,701	0	436	1,144	3,376	2,917
Keene	0	2,323	0	702	98	900	11,805	516	1,549	15,570	14,600
Mott	0	2,340	0	0	0	790	0	9	0	799	806
New England	0	10,700	0	0	0	0	0	2,225	5,533	7,758	5,569
Niobe	0	11	0	0	0	0	0	0	0	0	0
Sand Creek	60	4,261	0	0	0	0	0	943	1,320	2,323	1,761
Tobacco Garden	0	1,242	0	8,970	0	0	36,711	384	5,440	51,505	50,385
Underwood	303	79	0	0	0	657	0	0	0	960	995
Velva	5,159	644	0	0	0	11,419	0	0	0	16,578	16,122
Washburn	0	29	0	0	0	0	0	100	17	117	85
Williston	0	8,160	0	5,200	0	0	50,270	441	5,932	61,843	60,878
TOTAL	13,939	43,383	0	16,239	98	23,943	107,765	15,515	32,009	209,508	193,382

¹Criterion 3 acreages not included in gross or net totals because overlap with other criteria is unknown.

²No consideration given to overlap among unsuitability criteria.

³Overlap among unsuitability criteria subtracted from gross total.

TABLE A-4
ACRES EXCLUDED FROM FURTHER CONSIDERATION DUE TO MULTIPLE-USE TRADEOFFS

CSA	Communities Having 1980 Pop. Less Than 500 Persons	Communities Having 1980 Pop. Equal To or Greater Than 500 Persons	Residential Subdivisions	Industrial Concentrations	Minuteman Missile Silos	Minuteman Communication Cables	Electric Transmission Lines Equal To or Greater Than 230 KV	Pipelines Equal To or Greater Than 12 Inches in Diameter	Operating Railroads	Agricultural Experiment Station	Eligible Knife River Flint Quarry District	Writing Rock Historic Site	Wildlife Threshold	Steep Slopes > 30%	Key Oil & Gas Fields	City of Dickinson Municipal Watershed	Gross Total	Net Total
Antelope	0	640	0	0	0	0	63	15	0	0	0	0	1,082	2,264	0	0	4,064	3,436
Arnegard	0	0	0	0	0	0	0	75	0	0	0	0	2,147	46	920	0	3,188	3,108
Beulah-Zap	0	0	0	60	0	0	115	76	0	0	0	0	1,627	3,952	0	0	5,830	4,013
Bowman-Gascoyne Center	520	0	0	0	0	0	6	0	33	0	0	0	1,301	0	0	0	1,860	1,828
Stanton	0	160	0	614	0	0	105	42	0	0	0	0	1,316	374	0	0	2,611	2,457
Dickinson	80	160	80	1,120	0	0	60	30	18	0	0	0	290	894	9,400	38,536	50,668	42,877
Divide	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0
Dunn Center	240	325	480	0	0	0	96	60	93	0	3,761	0	382	1,995	0	0	7,432	5,339
Elgin-New Leipzig	0	0	0	0	0	0	0	0	0	0	0	0	219	220	0	0	439	399
Elkhorn	0	0	0	0	0	0	0	63	0	0	0	0	2,442	1,802	0	0	4,307	4,185
Fortuna	480	0	0	0	0	0	0	0	42	0	0	40	169	0	2,400	0	3,131	2,028
Garrison	0	0	0	0	8,560	36	0	0	6	0	0	0	0	0	0	0	8,602	5,623
Golden Valley	0	200	0	0	0	0	3	0	9	0	0	0	0	0	480	0	692	692
Hanks	345	0	0	0	0	0	0	0	54	0	0	0	3,947	2,597	0	0	6,943	6,663
Keene	40	0	0	0	0	0	0	221	0	0	0	0	5,618	3,866	46,280	0	56,025	49,462
Mott	0	0	0	0	0	0	0	0	0	0	0	0	1,300	433	0	0	1,733	1,591
New England	40	240	0	0	0	0	0	0	0	0	0	0	196	981	0	0	1,457	1,266
Niobe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sand Creek	0	200	920	360	0	0	0	0	0	440	0	0	2,328	1,379	3,840	0	9,467	8,406
Tobacco Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	22,597	0	0	22,597	283
Underwood	0	0	0	0	0	0	6	0	9	0	0	0	0	0	0	0	15	0
Velva	160	0	0	0	2,680	230	0	9	21	0	0	0	0	100	0	0	3,200	1,596
Washburn	0	0	0	0	0	0	12	0	0	0	0	0	130	227	0	0	369	273
Williston	40	0	560	0	0	0	0	69	24	0	0	0	811	35,751	13,200	0	50,455	9,030
Total	1,945	1,925	2,040	2,154	11,240	266	469	660	309	440	3,761	40	25,305	79,478	76,520	38,536	245,088	154,555

**TABLE A-5
WILDLIFE THRESHOLD ACREAGES¹**

CSA	Original Threshold Acres²	Remaining Threshold Acres³	Percent Remaining Threshold Acres Excluded	Threshold Acres Excluded	Coal Tonnages Excluded⁴
Antelope	3685	2164	50	1082	15.34
Arnegard	7409	4294	50	2147	20.66
Beulah-Zap	5582	3253	50	1627	17.08
Bowman-Gascoyne	1929	2169	60	1301	89.25
Center-Stanton	2811	2193	60	1316	11.52
Dickinson	3046	1450	20	290	9.90
Divide	0	0	0	0	0.00
Dunn Center	5195	1911	20	382	8.69
Elgin-New Leipzig	1278	731	30	219	3.45
Elkhorn	7326	4883	50	2442	21.37
Fortuna	998	562	30	169	3.76
Garrison	1150	0	0	0	0.00
Golden Valley	191	181	0	0	0.00
Hanks	12762	7894	50	3947	93.25
Keene	12059	9363	60	5618	56.04
Mott	3418	2599	50	1300	12.51
New England	3964	979	20	196	3.43
Niobe	0	0	0	0	0.00
Sand Creek	10515	5820	40	2328	28.11
Tobacco Garden	1919	197	0	0	0.00
Underwood	0	0	0	0	0.00
Velva	261	54	0	0	0.00
Washburn	478	325	40	130	1.50
Williston	4268	2028	40	811	12.21
Totals	90244	53050	48	25305	408.07
Percent of Original Threshold Acres			28		

¹See page 143 of Final RMP/EIS for Explanation

²Acreage of key wildlife habitats remaining after application of the wildlife unsuitability criteria.

³Acreage of key wildlife habitats remaining after application of wildlife unsuitability criteria, all other unsuitability criteria, multiple-use tradeoffs, and surface owner consultation.

⁴Millions of tons

**TABLE A-6
SUMMARY OF SURFACE OWNER CONSULTATION¹**

Coal Study Area	Letters Sent	Responses Received	Percent Response	Surface Owners Qualified or Assumed Qualified	Qualified Owners Under Previous Consent Agreements	Qualified Owners Under Previous Consent Agreements Responding "Opposed"	Qualified Owners Without Previous Consent Responding "In Favor"	Qualified Owners Without Previous Consents Responding "Unsure" ²	Qualified Owners Without Previous Consents Responding "Opposed"
Antelope	147	57	39	141	26	9	15	14	21
Arnegard ³	93	57	61	90	2	0	5	8	38
Beulah-Zap	167	70	42	154	23	3	19	20	18
Bowman-Gascoyne ⁴	99	50	51	99	30	10	19	—	11
Center-Stanton	107	44	41	96	25	3	15	7	11
Dickinson ³	417	216	52	400	37	21	17	22	137
Divide	24	14	58	22	0	0	1	1	10
Dunn Center	285	149	52	272	53	34	30	14	92
Elgin-New Leipzig, Mott, and New England ⁵	529	290	55	529	78	44	26	0	162
Elkhorn	72	33	46	68	0	0	5	6	18
Fortuna	99	62	63	93	1	1	16	18	22
Garrison	72	39	54	67	4	2	7	7	20
Golden Valley	94	55	59	86	18	2	8	15	24
Hanks ⁴	175	115	66	175	28	13	10	—	61
Keene	191	89	47	179	1	1	11	23	46
Niobe	2	1	50	2	0	0	0	0	1
Sand Creek ⁴	263	140	53	263	42	18	18	—	71
Tobacco Garden ³	162	77	48	158	2	0	6	12	41
Underwood	6	4	67	6	1	0	2	1	1
Velva	83	39	47	80	4	0	7	8	20
Washburn	13	8	62	10	4	0	2	1	2
Williston ⁴	303	141	47	303	49	23	30	—	61
Total	3403	1750	51	3293	428	184	269	177	888

¹Numerical summary only; identification of significant opposition was based on maps and overlays located in the Dickinson District Office.

²Tabulations of "unsure" responses are not available for CSAs or portions of CSAs included in the McKenzie-Williams and Southwest North Dakota MFPs.

³Portions of surface owner consultation conducted during preparation of McKenzie-Williams or Southwest North Dakota MFPs.

⁴Surface owner consultation conducted during preparation of McKenzie-Williams or Southwest North Dakota MFPs.

⁵Consultation results combined in Southwest North Dakota MFP.

TABLE A-7

ACRES EXCLUDED FROM FURTHER
CONSIDERATION DUE TO SIGNIFICANT SURFACE
OWNER OPPOSITION

CSA	Gross Acres	Net Acres
Antelope	0	0
Arnegard	10,900	10,517
Beulah-Zap	1,800	1,779
Bowman-Gascoyne	0	0
Center-Stanton	1,120	1,120
Dickinson	15,040	8,882
Divide	480	480
Dunn Center	15,640	14,315
Elgin-New Leipzig	240	240
Elkhorn	4,080	3,911
Fortuna	2,760	1,636
Garrison	1,400	627
Golden Valley	2,520	2,478
Hanks	3,280	2,755
Keene	18,280	16,085
Mott	0	0
New England	12,920	11,770
Niobe	0	0
Sand Creek	8,040	7,298
Tobacco Garden	22,390	3,796
Underwood	0	0
Velva	0	0
Washburn	0	0
Williston	10,640	154
TOTAL	131,530	87,843

TABLE A-8

COAL ACREAGES WITH SPECIAL STIPULATIONS¹

Coal Study Area	Vegetative Reclamation Stipulation	Buried-Valley Aquifer Stipulation	National Park Service Units
Antelope	6,780	486	
Arnegard	1,272	384	
Beulah-Zap	12,593	1,152	
Bowman-Gascoyne	5,025	0	
Center-Stanton	5,496	256	
Dickinson	7,336	0	16,795
Divide	1,490	49	
Dunn Center	17,562	1,945	
Elgin-New Leipzig	3,686	0	
Elkhorn	4,952	64	13,285
Fortuna	4,557	2,483	
Garrison	246	26	
Golden Valley	738	0	6,145
Hanks	6,222	179	
Keene	16,680	2,432	
Mott	10,897	0	
New England	17,021	0	
Niobe	80	0	
Sand Creek	15,006	588	
Tobacco Garden	1,705	793	
Underwood	55	0	
Velva	540	201	
Washburn	339	0	
Williston	10,102	1,280	
Totals	150,380	12,318	36,225

¹See page 151 of the Final RMP/EIS.