

Foster  
North Dakota

7/18/1991

Highly Erodible and  
Potentially Highly Erodible  
Land Calculator Ver. 1.1

**Highly Erodible Land Classes**

- 1= Highly Erodible Land
- 2= Potentially Highly Erodible
- 3= Not Highly Erodible

Map Symbol	Soil Name	%	WIND EROSION				WATER EROSION						Revised Water				
			C Value	I Value	HEL Class	R Value	K Value	T Value	Slope- -Percent		Slope- -Length		LS- -Value		Water HEL Class	HEL Class	
1	Southam sil	95	0.40	0	3	60	0.37	5	0	1	50	100	0.060	0.129	1.802	3	3
2	Parnell sil	90	0.40	38	3	60	0.28	5	0	1	50	100	0.060	0.129	2.381	3	3
3	Tonka sil	85	0.40	48	3	60	0.32	5	0	1	50	100	0.060	0.129	2.083	3	3
4	Manfred I	90	0.40	48	3	60	0.32	3	0	1	50	100	0.060	0.129	1.250	3	3
7	Colvin sil, wet	90	0.40	86	3	60	0.32	5	0	1	50	100	0.060	0.129	2.083	3	3
8	Minnewauken lfs	70	0.40	134	1	60	0.17	5	0	1	25	75	0.053	0.118	3.922	3	3
9	Lallie, sa.- Minnewauken complex	60	0.40	48	3	60	0.37	5	0	1	25	75	0.053	0.118	1.802	3	3
		40	0.40	134	1	60	0.32	5	0	1	25	75	0.053	0.118	2.083	3	3
10	Colvin and Arveson, loamy sub, soils, sa.	50	0.40	86	3	60	0.32	5	0	1	25	75	0.053	0.118	2.083	3	3
		50	0.40	86	1	60	0.24	4	0	1	25	75	0.053	0.118	2.222	3	3
17	Vallers and Hamerly I, sa.	60	0.40	86	3	60	0.28	5	0	1	25	75	0.053	0.118	2.381	3	3
		40	0.40	86	3	60	0.28	5	0	1	25	75	0.053	0.118	2.381	3	3
21	Svea I, 0-2%	85	0.40	48	3	60	0.28	5	0	2	100	300	0.069	0.279	2.381	3	3
22	Svea- Barnes I, 0-3%	50	0.40	48	3	60	0.28	5	0	3	100	300	0.069	0.399	2.381	3	3
		35	0.40	48	3	60	0.28	5	0	3	100	300	0.069	0.399	2.381	3	3
23	Hamerly- Wyand I, 0-3%	60	0.40	86	3	60	0.28	5	0	3	100	300	0.069	0.399	2.381	3	3
		25	0.40	48	3	60	0.28	5	0	3	100	300	0.069	0.399	2.381	3	3
24	Hamerly- Parnell complex, 0-3%	70	0.40	86	3	60	0.28	5	0	3	50	150	0.060	0.324	2.381	3	3
		20	0.40	38	3	60	0.28	5	0	3	50	150	0.060	0.324	2.381	3	3
25B	Barnes- Maddock, lo.sub., cmpx, 3-6%	60	0.40	48	3	60	0.28	5	3	6	50	150	0.233	0.823	2.381	3	3
		35	0.40	86	3	60	0.17	5	3	6	50	150	0.233	0.823	3.922	3	3
26B	Barnes- Svea I, 3-6%	50	0.40	48	3	60	0.28	5	3	6	50	150	0.233	0.823	2.381	3	3
		35	0.40	48	3	60	0.28	5	3	6	50	150	0.233	0.823	2.381	3	3
27B	Barnes- Buse I, 3-6%	50	0.40	48	3	60	0.28	5	3	6	50	150	0.233	0.823	2.381	3	3
		30	0.40	86	3	60	0.28	5	3	6	50	150	0.233	0.823	2.381	3	3
27C	Barnes- Buse I, 6-9%	50	0.40	48	3	60	0.28	5	6	9	100	250	0.672	1.854	2.381	3	3
		30	0.40	86	3	60	0.28	5	6	9	100	250	0.672	1.854	2.381	3	3
28F	Barnes- Buse I, 15-35%	40	0.40	48	3	60	0.28	5	15	35	90	250	2.428	16.162	2.381	1	1
		35	0.40	86	3	60	0.28	5	15	35	90	250	2.428	16.162	2.381	1	1
29D	Buse- Svea I, 9-15%	40	0.40	86	3	60	0.28	5	9	15	100	300	1.178	4.433	2.381	2	1
		35	0.40	48	3	60	0.28	5	9	15	100	300	1.178	4.433	2.381	2	1
30C	Barnes- Maddock- Swenoda complex, 6-9%	40	0.40	48	3	60	0.28	5	6	9	100	250	0.672	1.854	2.381	3	3
		30	0.40	86	3	60	0.17	5	6	9	100	250	0.672	1.854	3.922	3	3
		20	0.40	86	3	60	0.20	5	6	9	100	250	0.672	1.854	3.333	3	3
31	Fram- Parnell complex, 0-3%	70	0.40	86	3	60	0.28	5	0	3	50	150	0.060	0.324	2.381	3	3
		20	0.40	38	3	60	0.28	5	0	3	50	150	0.060	0.324	2.381	3	3
33	Fram- Wyand I, 0-3%	60	0.40	86	3	60	0.28	5	0	3	75	150	0.065	0.324	2.381	3	3
		25	0.40	48	3	60	0.28	5	0	3	75	150	0.065	0.324	2.381	3	3
36	Heimdal- Emrick I, 0-3%	45	0.40	56	3	60	0.28	5	0	3	75	200	0.065	0.353	2.381	3	3
		40	0.40	56	3	60	0.28	5	0	3	75	200	0.065	0.353	2.381	3	3
36B	Heimdal- Emrick I, 3-6%	50	0.40	56	3	60	0.28	5	3	6	50	160	0.233	0.850	2.381	3	3
		35	0.40	56	3	60	0.28	5	3	6	50	160	0.233	0.850	2.381	3	3
37B	Heimdal- Esmond I, 3-6%	50	0.40	56	3	60	0.28	5	3	6	50	160	0.233	0.850	2.381	3	3
		30	0.40	86	3	60	0.28	5	3	6	50	160	0.233	0.850	2.381	3	3
37C	Heimdal- Esmond I, 6-9%	50	0.40	56	3	60	0.28	5	6	9	100	300	0.672	2.031	2.381	3	3
		30	0.40	86	3	60	0.28	5	6	9	100	300	0.672	2.031	2.381	3	3
38F	Heimdal-	40	0.40	56	3	60	0.28	5	15	35	150	250	3.135	16.162	2.381	1	1

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Map Symbol	Soil Name	%	WIND EROSION					WATER EROSION							Revised Water		
			C	I	HEL	R	K	T	Slope- -Percent		Slope- -Length		LS- -Value		Water	HEL	
			Value	Value	Class	Value	Value	Value	Min	Max	Min	Max	Min	Max	8T/RK=	HEL Class	Class
	Esmond I, 15-35%	35	0.40	86	3	60	0.28	5	15	35	150	250	3.135	16.162	2.381	1	1
39D	Heimdal-	40	0.40	56	3	60	0.28	5	50	200	50	150	12.603	81.172	2.381	1	1
	Esmond I, 9-15%	35	0.40	86	3	60	0.28	5	50	200	50	150	12.603	81.172	2.381	1	1
41B	Embden fsl, 0-6%	80	0.40	86	3	60	0.20	5	0	6	50	150	0.060	0.823	3.333	3	3
42	Wyndmere-	60	0.40	86	3	60	0.20	5	0	3	100	200	0.069	0.353	3.333	3	3
	Arveson complex, lo.sub.,0-3%	20	0.40	86	1	60	0.24	4	0	3	100	200	0.069	0.353	2.222	3	3
51	Bearden sld, sandy sub.	80	0.40	86	3	60	0.28	5	0	1	40	80	0.058	0.121	2.381	3	3
52	Glyndon I, 0-2%	80	0.40	86	3	60	0.28	5	0	2	100	200	0.069	0.247	2.381	3	3
60	Cathay-	45	0.40	56	3	60	0.32	3	1	3	100	200	0.129	0.353	1.250	3	3
	Heimdal I, 1-3%	40	0.40	56	3	60	0.28	5	1	3	100	200	0.129	0.353	2.381	3	3
60B	Heimdal-	45	0.40	56	3	60	0.28	5	3	6	50	160	0.233	0.850	2.381	3	3
	Cathay I, 3-6%	40	0.40	56	3	60	0.32	3	3	6	50	160	0.233	0.850	1.250	3	3
61	Larson-	40	0.40	56	3	60	0.32	3	0	2	100	200	0.069	0.247	1.250	3	3
	Cathay I, 0-2%	30	0.40	56	3	60	0.32	3	0	2	100	200	0.069	0.247	1.250	3	3
62	Miranda-	40	0.40	48	3	60	0.32	3	0	2	50	150	0.060	0.227	1.250	3	3
	Larson I, 0-2%	30	0.40	56	3	60	0.32	3	0	2	50	150	0.060	0.227	1.250	3	3
67	Letcher fsl, 0-3%	80	0.40	86	1	60	0.20	3	0	3	50	150	0.060	0.324	2.000	3	3
71	Spottswood I, 0-3%	80	0.40	48	3	60	0.24	4	0	3	50	200	0.060	0.353	2.222	3	3
72	Divide I, 0-3%	85	0.40	86	1	60	0.28	4	0	3	75	175	0.065	0.339	1.905	3	3
77B	Arvilla sl, 0-6%	80	0.40	86	1	60	0.20	3	0	6	50	150	0.060	0.823	2.000	3	3
78C	Sioux	60	0.40	56	1	60	0.28	2	1	9	50	150	0.105	1.436	0.952	2	3
	Arvilla complex, 1-9%	40	0.40	86	1	60	0.20	3	1	9	50	150	0.105	1.436	2.000	3	3
78F	Coe-	60	0.40	56	1	60	0.28	2	9	35	150	250	1.436	16.162	0.952	1	1
	Heimdal I, 9-35%	40	0.40	56	3	60	0.28	5	9	35	150	250	1.436	16.162	2.381	2	1
80	Towner-	60	0.40	86	3	60	0.20	5	0	3	100	200	0.069	0.353	3.333	3	3
	Barnes sl, 0-3%	20	0.40	86	3	60	0.20	5	0	3	100	200	0.069	0.353	3.333	3	3
81	Hecla fsl, loamy sub., 0-3%	85	0.40	86	3	60	0.20	5	0	3	100	200	0.069	0.353	3.333	3	3
82B	Towner ffs, 0-6%	70	0.40	134	1	60	0.17	5	0	6	100	200	0.069	0.951	3.922	3	3
84B	Lohnes loes, 0-6%	85	0.40	134	1	60	0.15	5	0	6	100	200	0.069	0.951	4.444	3	3
86B	Maddock ffs, 0-6%	80	0.40	134	1	60	0.17	5	0	6	100	200	0.069	0.951	3.922	3	3
89D	Maddock-	35	0.40	134	1	60	0.17	5	6	15	100	300	0.672	4.433	3.922	2	3
	Barnes-	30	0.40	48	3	60	0.28	5	6	15	100	300	0.672	4.433	2.381	2	1
	Towner complex, 6-15%	20	0.40	134	1	60	0.17	5	6	15	100	300	0.672	4.433	3.922	2	3
90	Ulen-	60	0.40	86	3	60	0.17	5	0	2	50	150	0.060	0.227	3.922	3	3
	Hecla fsl, 0-2%	40	0.40	86	3	60	0.20	5	0	2	50	150	0.060	0.227	3.333	3	3
91B	Swenoda fsl, 0-6%	75	0.40	86	3	60	0.20	5	0	6	100	200	0.069	0.951	3.333	3	3
95	Colvin and	60	0.40	86	3	60	0.32	5	0	1	40	80	0.058	0.121	2.083	3	3
	LaPrairie soils, channeled	40	0.40	48	3	60	0.28	5	0	3	40	80	0.058	0.268	2.381	3	3
96	LaPrairie I	85	0.40	48	3	60	0.28	4	0	1	40	80	0.058	0.121	1.905	3	3
99	Pits, sand and gravel		0.40			60											
102	Krauka fsl	80	0.40	86	3	60	0.17	5	0	1	40	80	0.058	0.121	3.922	3	3