

Benson  
North Dakota

4-1-87

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	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
3	Parnell sicl	85	0.45	38	3	55	0.28	5	0	1 80	150	0.066	0.146	2.597	3	3
4	Fargo sicl	83	0.45	86	3	55	0.32	5	0	1 90	150	0.068	0.146	2.273	3	3
5	Hegne sic	100	0.45	86	3	55	0.28	5	0	1 90	150	0.068	0.146	2.597	3	3
7	Colvin sil	92	0.45	86	3	55	0.32	5	0	1 75	125	0.065	0.138	2.273	3	3
8	Colvin sil, wet	92	0.45	86	3	55	0.32	5	0	1 75	125	0.065	0.138	2.273	3	3
9	Rauville sil	100	0.45	86	3	55	0.28	5	0	1 100	300	0.069	0.179	2.597	3	3
11	Svea- Barnes I	52	0.45	48	3	55	0.28	5	1	3 100	300	0.129	0.399	2.597	3	3
		41	0.45	48	3	55	0.28	5	1	3 100	300	0.129	0.399	2.597	3	3
12B	Barnes- Svea I	50	0.45	48	3	55	0.28	5	3	6 80	150	0.268	0.823	2.597	3	3
		40	0.45	48	3	55	0.28	5	3	6 80	150	0.268	0.823	2.597	3	3
13C	Barnes- Buse I	44	0.45	48	3	55	0.28	5	6	9 60	120	0.521	1.285	2.597	3	3
		39	0.45	86	3	55	0.28	5	6	9 60	120	0.521	1.285	2.597	3	3
13D	Barnes- Buse	44	0.45	48	3	55	0.28	5	9	15 60	100	0.908	2.559	2.597	3	3
		39	0.45	86	3	55	0.28	5	9	15 60	100	0.908	2.559	2.597	3	3
14	Svea- Hamerly I	49	0.45	48	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
		44	0.45	86	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
14B	Svea- Hamerly I	44	0.45	48	3	55	0.28	5	3	6 80	150	0.268	0.823	2.597	3	3
		39	0.45	86	3	55	0.28	5	3	6 80	150	0.268	0.823	2.597	3	3
15	Vallers I, saline	85	0.45	86	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
16	Vallers I	90	0.45	86	3	55	0.28	5	0	1 200	300	0.080	0.179	2.597	3	3
18E	Buse I	85	0.45	86	3	55	0.28	5	15	25 70	100	2.141	5.890	2.597	2	1
19	Tonka sil	93	0.45	56	3	55	0.32	5	0	1 25	75	0.053	0.118	2.273	3	3
21	Emrick- Heimdal I	52	0.45	56	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
		31	0.45	56	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
22B	Heimdal- Emrick I	51	0.45	56	3	55	0.28	5	3	6 80	150	0.268	0.823	2.597	3	3
		41	0.45	56	3	55	0.28	5	3	6 80	150	0.268	0.823	2.597	3	3
23C	Heimdal- Esmond I	44	0.45	56	3	55	0.28	5	6	9 60	120	0.521	1.285	2.597	3	3
		39	0.45	86	3	55	0.28	5	6	9 60	120	0.521	1.285	2.597	3	3
24	Fram- Emrick I	46	0.45	86	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
		46	0.45	56	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
25D	Esmond- Heimdal I	44	0.45	86	3	55	0.28	5	9	15 60	100	0.908	2.559	2.597	3	3
		39	0.45	56	3	55	0.28	5	9	15 60	100	0.908	2.559	2.597	3	3
25E	Esmond- Heimdal I	46	0.45	86	3	55	0.28	5	15	25 50	125	1.810	6.585	2.597	2	1
		39	0.45	56	3	55	0.28	5	15	25 50	125	1.810	6.585	2.597	2	1
26E	Esmond- Sioux I	50	0.45	86	3	55	0.28	5	9	25 60	90	0.908	5.588	2.597	2	1
		35	0.45	56	1	55	0.24	2	9	25 60	90	0.908	5.588	1.212	2	1
27C	Barnes- Sioux I	45	0.45	48	3	55	0.28	5	3	9 80	150	0.268	1.436	2.597	3	1
		40	0.45	56	1	55	0.24	2	3	9 80	150	0.268	1.436	1.212	2	3
28D	Barnes- Sioux I	49	0.45	48	3	55	0.28	5	9	15 150	250	1.436	4.047	2.597	2	1
		38	0.45	56	1	55	0.24	2	9	15 150	250	1.436	4.047	1.212	1	1
30D	Barnes- Buse very stony I	40	0.45	0	3	55	0.28	5	6	25 60	100	0.521	5.890	2.597	2	1
		40	0.45	0	3	55	0.28	5	6	25 60	100	0.521	5.890	2.597	2	1
31B	Towner fsl	93	0.45	86	3	55	0.17	5	1	6 100	200	0.129	0.951	4.278	3	3
33C	Dickey fsl	90	0.45	86	3	55	0.17	5	6	9 60	120	0.521	1.285	4.278	3	3
34	Embden- Heimdal complex	53	0.45	86	3	55	0.20	5	1	3 200	300	0.159	0.399	3.636	3	3
		32	0.45	56	3	55	0.28	5	1	3 200	300	0.159	0.399	2.597	3	3
34B	Embden-	48	0.45	86	3	55	0.20	5	3	6 80	150	0.268	0.823	3.636	3	3

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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	8T/RK=	HEL Class	Class						
	Heimdahl complex	37	0.45	56	3	55	0.28	5	3				0.268	0.823	2.597	3	3			
34C	Embsden-Heimdahl complex	41	0.45	86	3	55	0.20	5	6	6	9	60	120	0.521	1.285	3.636	3	3		
41	Overly sicl	95	0.45	86	3	55	0.32	5	1				3	200	300	0.159	0.399	2.273	3	3
42	Gardena sil	93	0.45	56	3	55	0.28	5	1				3	200	300	0.159	0.399	2.597	3	3
42B	Gardena-Eckman sil	55	0.45	56	3	55	0.28	5	3				6	80	150	0.268	0.823	2.597	3	3
43C	Eckman-Zell sil	44	0.45	56	3	55	0.28	5	6	6	9	60	120	0.521	1.285	2.597	3	3		
44	Glyndon sil	39	0.45	86	3	55	0.32	5	6				9	60	120	0.521	1.285	2.273	3	3
45	Bearden	92	0.45	86	3	55	0.28	5	0				1	100	250	0.069	0.170	2.078	3	3
46	Borup sil	92	0.45	86	3	55	0.28	5	0				1	80	150	0.066	0.146	2.597	3	3
47	Fossum fsl	93	0.45	86	3	55	0.15	5	0				1	90	175	0.068	0.153	4.848	3	3
50B	Great Bend sil	85	0.45	56	3	55	0.32	5	3				6	80	150	0.268	0.823	2.273	3	3
52B	Embsden-Egeland fsl	58	0.45	86	3	55	0.20	5	1				6	100	200	0.129	0.951	3.636	3	3
53	Hecla fsl	42	0.45	86	3	55	0.20	5	1				6	100	200	0.129	0.951	3.636	3	3
54B	Hecla-Maddock fsl	83	0.45	86	3	55	0.17	5	1				3	200	300	0.159	0.399	4.278	3	3
56	Hecla-Maddock lfs	58	0.45	86	3	55	0.17	5	3				6	80	150	0.268	0.823	4.278	3	3
59B	Maddock-Hecla lfs	37	0.45	86	3	55	0.17	5	3				6	80	150	0.268	0.823	4.278	3	3
59D	Maddock lfs	58	0.45	134	1	55	0.17	5	1				3	200	300	0.159	0.399	4.278	3	3
61	Renshaw I	93	0.45	134	1	55	0.17	5	6				15	60	100	0.521	2.559	4.278	3	3
61B	Renshaw I	85	0.45	48	3	55	0.28	3	1				3	200	300	0.159	0.399	1.558	3	3
63	Brantford I	90	0.45	48	3	55	0.28	3	3				6	80	150	0.268	0.823	1.558	3	3
63B	Brantford I	90	0.45	56	1	55	0.28	3	1				3	200	300	0.159	0.399	1.558	3	3
63C	Brantford I	90	0.45	56	1	55	0.28	3	3				6	80	150	0.268	0.823	1.558	3	3
64	Divide I	90	0.45	56	1	55	0.28	3	6				9	60	120	0.521	1.285	1.558	3	3
64	Divide I	93	0.45	86	1	55	0.28	4	1				3	200	300	0.159	0.399	2.078	3	3
65	Vang I	85	0.45	56	3	55	0.28	4	1				3	200	300	0.159	0.399	2.078	3	3
65B	Vang I	85	0.45	56	3	55	0.28	4	3				6	80	150	0.268	0.823	2.078	3	3
66	Marysland I	95	0.45	86	1	55	0.28	4	0				1	80	125	0.066	0.138	2.078	3	3
67	Marysland I, wet	90	0.45	86	1	55	0.28	4	0				1	80	125	0.066	0.138	2.078	3	3
68B	Arvilla sl	92	0.45	86	1	55	0.20	3	1				6	100	200	0.129	0.951	2.182	3	3
70B	Binford sl	90	0.45	86	1	55	0.20	3	1				6	100	200	0.129	0.951	2.182	3	3
71	Svea-Cresbard I	65	0.45	48	3	55	0.28	5	1				3	200	300	0.159	0.399	2.597	3	3
71B	Svea-Cresbard I	28	0.45	48	3	55	0.32	3	1				3	200	300	0.159	0.399	1.364	3	3
73	Larson-Cathay I	65	0.45	48	3	55	0.28	5	3				6	80	150	0.268	0.823	2.597	3	3
73	Larson-Cathay I	28	0.45	48	3	55	0.32	3	3				6	80	150	0.268	0.823	1.364	3	3
74B	Cavour-Miranda complex	51	0.45	56	1	55	0.32	3	1				3	100	200	0.129	0.353	1.364	3	3
74B	Cavour-Miranda complex	41	0.45	56	1	55	0.32	3	1				3	100	200	0.129	0.353	1.364	3	3
75	Ryan sic	46	0.45	48	3	55	0.37	3	1				6	100	200	0.129	0.951	1.179	3	3
75	Ryan sic	36	0.45	48	3	55	0.32	3	1				6	100	200	0.129	0.951	1.364	3	3
78	LaDelle-Aberdeen sil	93	0.45	86	1	55	0.28	3	0				1	100	200	0.069	0.159	1.553	3	3
78	LaDelle-Aberdeen sil	65	0.45	56	3	55	0.28	5	0				1	100	300	0.069	0.179	2.597	3	3
78	LaDelle-Aberdeen sil	25	0.45	56	1	55	0.32	3	0				1	100	300	0.069	0.179	1.364	3	3

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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	Water HEL Class	
									Min	Max	Min	Max	Min	Max			8T/RK=
82B	Daren I	100	0.45	48	3	55	0.28	5	3	6	80	150	0.268	0.823	2.597	3	3
83	LaDelle sil	95	0.45	56	3	55	0.28	5	0	1	100	300	0.069	0.179	2.597	3	3
85	Lamoure sil	92	0.45	86	3	55	0.28	5	0	1	100	300	0.069	0.179	2.597	3	3
86	LaDelle sil, channeled	95	0.45	56	3	55	0.28	5	0	1	100	300	0.069	0.179	2.597	3	3
89	Grano sic	85	0.45	86	3	55	0.28	5	0	1	100	250	0.069	0.170	2.597	3	3
90	Parnell and Lallie soils, ponded	50	0.45	86	3	55	0.28	5	0	1	100	250	0.069	0.170	2.597	3	3
	Lallie soils, ponded	50	0.45	86	3	55	0.37	5	0	1	100	250	0.069	0.170	1.966	3	3
91C	Sioux gravelly I	90	0.45	56	1	55	0.24	2	1	9	100	200	0.129	1.659	1.212	2	3
91E	Sioux gravelly I	90	0.45	56	1	55	0.24	2	9	25	50	100	0.829	5.890	1.212	2	1
98C	Coe shaly I	82	0.45	56	1	55	0.20	2	1	9	60	200	0.111	1.659	1.455	2	3
98E	Coe shaly I	82	0.45	56	1	55	0.20	2	9	25	50	150	0.829	7.214	1.455	2	1
99C	Claire lcos, loamy sub.	92	0.45	134	1	55	0.15	5	1	9	100	200	0.129	1.659	4.848	3	3
101	Lallie I	93	0.45	86	3	55	0.37	5	0	1	100	300	0.069	0.179	1.966	3	3
104	Lallie I, saline	95	0.45	86	3	55	0.37	5	0	1	100	300	0.069	0.179	1.966	3	3
106	Lallie I, wet	100	0.45	86	3	55	0.37	5	0	1	100	300	0.069	0.179	1.966	3	3
107	Minnewauken lfs	93	0.45	134	1	55	0.15	4	1	3	200	300	0.159	0.399	3.879	3	3
109	Aquents	90	0.45	48	3	55	0.32	5	0	1	50	100	0.060	0.129	2.273	3	3
110B	Aastad-Bottineau I	50	0.45	48	3	55	0.24	5	3	6	80	150	0.268	0.823	3.030	3	3
	Bottineau I	42	0.45	48	3	55	0.28	5	3	6	80	150	0.268	0.823	2.597	3	3
112F	Edgeley Variant I	85	0.45	48	3	55	0.28	4	15	60	50	100	1.810	23.150	2.078	2	1
113C	Bottineau I	83	0.45	48	3	55	0.28	5	6	9	60	120	0.521	1.285	2.597	3	3
113D	Bottineau I	82	0.45	48	3	55	0.28	5	9	15	60	100	0.908	2.559	2.597	3	3
119	Aberdeen sil	90	0.45	86	1	55	0.32	3	0	1	100	300	0.069	0.179	1.364	3	3
122	Fram-Cathay I	57	0.45	86	3	55	0.28	5	1	3	200	300	0.159	0.399	2.597	3	3
	Cathay I	42	0.45	56	1	55	0.32	3	1	3	200	300	0.159	0.399	1.364	3	3
123	Emrick-Cathay I	56	0.45	56	3	55	0.28	5	1	3	200	300	0.159	0.399	2.597	3	3
	Cathay I	34	0.45	56	1	55	0.32	3	1	3	200	300	0.159	0.399	1.364	3	3
123B	Emrick-Cathay I	56	0.45	56	3	55	0.28	5	3	6	80	150	0.268	0.823	2.597	3	3
	Cathay I	34	0.45	56	1	55	0.32	3	3	6	80	150	0.268	0.823	1.364	3	3
124C	Heimdal-Sioux I	45	0.45	56	3	55	0.28	5	3	9	80	150	0.268	1.436	2.597	3	1
	Sioux I	40	0.45	56	1	55	0.24	2	3	9	80	150	0.268	1.436	1.212	2	3
125C	Heimdal-Esmond very stony I	56	0.45	0	3	55	0.28	5	1	9	60	200	0.111	1.659	2.597	3	3
	Esmond very stony I	37	0.45	0	3	55	0.28	5	1	9	60	200	0.111	1.659	1.212	3	3
125F	Heimdal-Esmond very stony I	45	0.45	0	3	55	0.28	5	9	40	50	100	0.829	12.652	2.597	2	1
	Esmond very stony I	40	0.45	0	3	55	0.28	5	9	40	50	100	0.829	12.652	2.597	2	1
126	Fram I, saline	85	0.45	86	3	55	0.28	5	1	3	100	250	0.129	0.378	2.597	3	3
127	Fram I	85	0.45	86	3	55	0.28	5	1	3	200	300	0.159	0.399	2.597	3	3
129	Covlin and Borup sil, saline	45	0.45	86	3	55	0.32	5	0	1	100	300	0.069	0.179	2.273	3	3
	Borup sil, saline	45	0.45	86	3	55	0.28	5	0	1	100	300	0.069	0.179	2.597	3	3
131D	Miranda Variant I	92	0.45	48	3	55	0.32	3	3	15	60	150	0.246	3.135	1.364	2	1
133	Fordville I	93	0.45	48	3	55	0.24	4	1	3	150	250	0.146	0.378	2.424	3	3
134	Borup-Vallers complex	43	0.45	86	3	55	0.28	5	1	3	200	300	0.159	0.399	2.597	3	3
	Vallers complex	43	0.45	86	3	55	0.28	5	1	3	200	300	0.159	0.399	2.597	3	3
135	Miranda-Larson complex	49	0.45	48	3	55	0.32	3	1	3	150	250	0.146	0.378	1.364	3	3
	Larson complex	44	0.45	48	3	55	0.32	3	1	3	150	250	0.146	0.378	1.364	3	3
137	Stirum lfs	93	0.45	134	1	55	0.24	3	0	1	100	300	0.069	0.179	1.818	3	3
140B	Svea-	46	0.45	48	3	55	0.28	5	3	6	80	150	0.268	0.823	2.597	3	3

