

Renville
North Dakota

11/21/1991

Highly Erodible and
Potentially Highly Erodible
Land Calculator Ver. 1.1

Highly Erodible Land Classes

- 1= Highly Erodible Land
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- 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	Class
Ar	Arveson l	100	50	0.86	1	45	0.24	4	0	1	100	300	0.069	0.179	2.963	3	3
AvC	Arvilla sl, 6-9%	100	50	0.86	1	45	0.2	3	6	9	50	100	0.475	1.173	2.667	3	3
AwA	Arvilla-	80	50	0.86	1	45	0.2	3	1	3	75	200	0.118	0.353	2.667	3	3
	Sioux sl, 1-3%	20	50	0.86	1	45	0.24	2	1	3	50	125	0.105	0.307	1.481	3	3
AwB	Arvilla-	75	50	0.86	1	45	0.2	3	3	6	75	200	0.263	0.951	2.667	3	3
	Sioux sl, 3-6%	25	50	0.86	1	45	0.24	2	3	6	50	125	0.233	0.752	1.481	3	3
BaA	Barnes l, 1-3%	70	50	0.48	3	45	0.28	5	1	3	125	275	0.138	0.389	3.175	3	3
BaB	Barnes l, 3-6%	85	50	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
BaC	Barnes l, 6-9%	100	50	0.48	3	45	0.28	5	6	9	50	125	0.475	1.311	3.175	3	3
BaD	Barnes l, 9-12%	85	50	0.48	3	45	0.28	5	9	12	75	150	1.016	2.209	3.175	3	3
BbB	Barnes coo. l, 1-6%	100	50	0.48	3	45	0.28	5	1	6	75	125	0.118	0.752	3.175	3	3
BdB	Barnes-	60	50	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
	Buse l, 3-6%	40	50	0.86	1	45	0.28	5	3	6	50	100	0.233	0.672	3.175	3	3
BdC	Barnes-	60	50	0.48	3	45	0.28	5	6	9	50	125	0.475	1.311	3.175	3	3
	Buse l, 6-9%	40	50	0.86	1	45	0.28	5	6	9	50	75	0.475	1.016	3.175	3	3
BfA	Barnes-	70	50	0.48	3	45	0.28	5	1	3	100	250	0.129	0.378	3.175	3	3
	Cresbard l, 1-3%	30	50	0.48	1	45	0.32	3	1	3	75	175	0.118	0.339	1.667	3	3
BgB	Barnes-	60	50	0.48	3	45	0.28	5	3	6	125	250	0.307	1.063	3.175	3	3
	Hamerly l, 3-6%	40	50	0.86	1	45	0.28	5	0	3	75	125	0.065	0.307	3.175	3	3
BhA	Barnes-	60	50	0.48	3	45	0.28	5	1	3	100	250	0.129	0.378	3.175	3	3
	Hamlet-	20	50	0.48	3	45	0.32	5	1	3	75	125	0.118	0.307	2.778	3	3
	Tonka l, 1-3%	20	50	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3
BhB	Barnes-	60	50	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
	Hamlet-	20	50	0.48	3	45	0.32	5	0	3	50	100	0.060	0.287	2.778	3	3
	Tonka l, 3-6%	20	50	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3
BhD	Barnes and	50	50	0.48	3	45	0.28	5	3	15	50	100	0.233	2.559	3.175	3	3
	Buse v.st. l, 3-15%	50	50	0.86	1	45	0.28	5	3	15	75	150	0.263	3.135	3.175	3	3
CaA	Cavour-	60	50	0.48	1	45	0.32	3	1	3	75	200	0.118	0.353	1.667	3	3
	Cresbard l, 1-3%	40	50	0.48	1	45	0.32	3	1	3	50	100	0.105	0.287	1.667	3	3
Co	Colvin sil	100	50	0.86	1	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
Cp	Colvin soils, channeled	100	50	0.86	1	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
Cr	Colvin soils, v.wet	100	50	0.86	1	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
DdA	Divide l. sub., 1-3%	100	50	0.86	1	45	0.28	4	1	3	100	300	0.129	0.399	2.540	3	3
EmB	Embden sl, 1-6%	70	50	0.86	1	45	0.2	5	1	6	75	125	0.118	0.752	4.444	3	3
EoA	Embden-	80	50	0.86	1	45	0.2	5	1	3	100	300	0.129	0.399	4.444	3	3
	Tiffany fsl, 1-3%	20	50	0.86	1	45	0.2	5	1	3	50	100	0.105	0.287	4.444	3	3
Fa	Fargo sic	100	50	0.86	1	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
Fb	Fargo sic, very wet	100	50	0.86	1	45	0.32	5	0	1	100	150	0.069	0.146	2.778	3	3
Fu	Fulda sicl	70	50	0.48	3	45	0.28	5	0	1	100	300	0.069	0.179	3.175	3	3
Gp	Gravel pits								0		35	50	100	0.060	10.222		
GrA	Great Bend sicl, 1-3%	100	50	0.48	3	45	0.32	5	1	3	100	300	0.129	0.399	2.778	3	3
HaA	Hamerly l, 1-3%	100	50	0.86	1	45	0.28	5	1	3	75	150	0.118	0.324	3.175	3	3
HbA	Hamerly-	60	50	0.86	1	45	0.28	5	1	3	100	175	0.129	0.339	3.175	3	3
	Tonka l, 1-3%	40	50	0.48	3	45	0.32	5	1	3	50	125	0.105	0.307	2.778	3	3
HhA	Hamlet-	55	50	0.48	3	45	0.32	5	1	3	100	175	0.129	0.339	2.778	3	3
	Hamerly-	25	50	0.86	1	45	0.28	5	1	3	50	125	0.105	0.307	3.175	3	3
	Tonka l, 1-3%	20	50	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3

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Map Symbol	Soil Name	%	WIND EROSION				WATER EROSION							Revised					
			C Value	I Value	HEL Class	R Value	K Value	T Value	Slope- -Percent		Slope- -Length		LS- -Value		Water HEL Class	Water HEL Class			
HmA Hamlet-		65	50	0.48	3	45	0.32	5	1										
Tonka I, 1-3%		25	50	0.48	3	45	0.32	5	0		1	50	125	0.060	0.138	2.778	3	3	
HoA Hecla and		50	50	1.34	1	45	0.17	5	1		3	100	300	0.129	0.399	5.229	3	3	
Lohnes ls, 1-3%		50	50	1.34	1	45	0.15	5	1		3	100	300	0.129	0.399	5.926	3	3	
LaA LaDelle sicl, 1-3%		100	50	0.48	3	45	0.28	5	1		3	100	300	0.129	0.399	3.175	3	3	
LoB Lohnes ls, 3-6%		100	50	1.34	1	45	0.15	5	3		6	75	125	0.263	0.752	5.926	3	3	
Lu Ludden sic		100	50	0.86	1	45	0.28	5	0		1	100	300	0.069	0.179	3.175	3	3	
Lv Ludden sic, v. wet		100	50	0.86	1	45	0.28	5	0		3	100	300	0.069	0.399	3.175	3	3	
Ma Marsh									0		1	100	300		0.179				
Mb Marysland sil		100	50	0.86	1	45	0.28	4	0		1	50	150	0.060	0.146	2.540	3	3	
Pa Parnell sicl		100	50	0.48	3	45	0.28	5	0		1	100	300	0.069	0.179	3.175	3	3	
RnA Renshaw I, 1-3%		100	50	0.48	1	45	0.28	3	1		3	100	300	0.129	0.399	1.905	3	3	
RnB Renshaw I, 3-6%		100	50	0.48	1	45	0.28	3	4		6	75	200	0.356	0.951	1.905	3	3	
SoB Sioux I, 1-6%		100	50	0.56	1	45	0.24	2	2		6	75	150	0.184	0.823	1.481	3	3	
SoD Sioux I, 6-20%		100	50	0.56	1	45	0.24	2	6		20	50	125	0.475	4.560	1.481	2	1	
SvA Svea I, 1-3%		100	50	0.48	3	45	0.28	5	2		3	75	300	0.184	0.399	3.175	3	3	
SvB Svea I, 3-6%		100	50	0.48	3	45	0.28	5	4		6	75	150	0.356	0.823	3.175	3	3	
SwB Svea I, channeled, 1-6%		100	50	0.48	3	45	0.28	5	1		6	50	100	0.105	0.672	3.175	3	3	
SyA Svea I, fans, 1-3%		100	50	0.48	3	45	0.28	5	1		3	75	300	0.118	0.399	3.175	3	3	
SvB Svea I, fans, 3-6%		100	50	0.48	3	45	0.28	5	3		6	75	175	0.263	0.889	3.175	3	3	
SzA Swenoda fsl, 1-3%		100	50	0.86	1	45	0.2	5	1		3	100	300	0.129	0.399	4.444	3	3	
SzB Swenoda fsl, 3-6%		70	50	0.86	1	45	0.2	5	3		6	75	150	0.263	0.823	4.444	3	3	
Tf Tiffany fsl, 1-3%		100	50	0.86	1	45	0.2	5	0		1	100	300	0.069	0.179	4.444	3	3	
To Tonka sil		100	50	0.48	3	45	0.32	5	0		1	100	300	0.069	0.179	2.778	3	3	
Va Vallery I		100	50	0.86	1	45	0.28	5	0		1	75	125	0.065	0.138	3.175	3	3	
Vb Velva I		100	50	0.56	3	45	0.2	5	0		1	125	200	0.072	0.159	4.444	3	3	
Vd Velva I, channeled		100	50	0.56	3	45	0.2	5	0		6	75	150	0.065	0.823	4.444	3	3	
WmA Williams I, 1-3%		100	50	0.48	3	45	0.28	5	1		3	100	300	0.129	0.399	3.175	3	3	
WmB Williams I, 3-6%		100	50	0.48	3	45	0.28	5	4		6	75	125	0.356	0.752	3.175	3	3	
WyA Wyndmere fsl, 1-3%		100	50	0.86	1	45	0.2	5	1		3	100	300	0.129	0.399	4.444	3	3	
ZaD Zahl-		45	50	0.86	1	45	0.28	4	9		15	75	200	1.016	3.620	2.540	2	3	
Max I, 9-15%		40	50	0.48	3	45	0.28	5	9		15	50	100	0.829	2.559	3.175	3	3	
ZaF Zahl-		50	50	0.86	1	45	0.28	4	15		60	75	200	2.217	32.740	2.540	2	1	
Max I, 15-60%		40	50	0.48	3	45	0.28	5	15		60	50	100	1.810	23.150	3.175	2	1	