Walsh
North Dakota

1-24-1994

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

			WIND EROSION			WATER EROSION											Revised	
			C	I	HEL	R	K	T	Slope- -Percent		Slope- -Length		LS- -Value				Water	HEL
Map Symbol	Soil Name	%	Value	Value	Class	Value	Value	Value	Min	Max	Min	Max	Min	Max	8T/RK=		HEL Class	Class
An	Antler st. cl, 0-3%	95	0.40	86	3	60	0.28	5	0	3	50	200	0.060	0.353	2.381		3	3
Ao	Antler cl, 0-3%	95	0.40	86	3	60	0.28	5	0	3	50	200	0.060	0.353	2.381		3	3
As	Arveson-	55	0.40	86	3	60	0.20	4	0	1	50	200	0.060	0.159	2.667		3	3
	Fossum fsl,0-1%	40	0.40	86	3	60	0.15	5	0	1	50	200	0.060	0.159	4.444		3	3
At	Arveson-	55	0.40	86	3	60	0.20	4	0	1	50	200	0.060	0.159	2.667		3	3
	Fossum l, 0-1%	40	0.40	86	3	60	0.20	5	0	1	50	200	0.060	0.159	3.333		3	3
AuA	Arvilla sl, nearly level, 0-1%	95	0.40	86	1	60	0.20	3	0	3	50	200	0.060	0.353	2.000		3	3
AuB	Arvilla sl, gently sloping, 0-5%	95	0.40	86	1	60	0.20	3	3	5	50	200	0.233	0.757	2.000		3	3
BaC	Barnes l, rolling, 6-9%	90	0.40	48	3	60	0.28	5	6	9	80	300	0.601	2.031	2.381		3	3
BaC2	Barnes l, rolling, eroded 9-12%	70	0.40	48	3	60	0.28	5	6	9	80	250	0.601	1.854	2.381		3	3
BdD2	Barnes-	50	0.40	48	3	60	0.28	5	9	12	300	500	2.031	4.033	2.381		2	1
	Buse l, hilly, eroded, 9-12%	35	0.40	86	3	60	0.28	5	9	12	300	500	2.031	4.033	2.381		2	1
Be	Barnes-	50	0.40	48	3	60	0.28	5	9	15	50	100	0.829	2.559	2.381		2	3
	Buse st. l, 9-15%	40	0.40	86	3	60	0.28	5	9	15	50	100	0.829	2.559	2.381		2	3
BgC	Barnes-	45	0.40	48	3	60	0.28	5	3	8	80	200	0.268	1.402	2.381		3	3
	Renshaw l, rolling, 3-8%	35	0.40	56	3	60	0.28	3	3	8	80	200	0.268	1.402	1.429		3	3
BhD	Barnes-	50	0.40	48	3	60	0.28	5	8	15	200	300	1.402	4.433	2.381		2	1
	Sioux complex, hilly, 8-15%	35	0.40	56	1	60	0.24	2	8	15	200	300	1.402	4.433	1.111		1	1
BkB	Barnes-	55	0.40	48	3	60	0.28	5	3	5	70	150	0.258	0.655	2.381		3	3
	Svea l, gent. und., 3-5%	30	0.40	48	3	60	0.28	5	3	5	70	150	0.258	0.655	2.381		3	3
BkB2	Barnes-	55	0.40	48	3	60	0.28	5	3	5	70	150	0.258	0.655	2.381		3	3
	Svea l,gent. Und, eroded, 3-5%	30	0.40	48	3	60	0.28	5	3	5	70	150	0.258	0.655	2.381		3	3
BlA	Barnes-	45	0.40	48	3	60	0.28	5	0	3	100	200	0.069	0.353	2.381		3	3
	Svea st.l, near. Level, 0-3%	40	0.40	48	3	60	0.28	5	0	3	100	200	0.069	0.353	2.381		3	3
BlC	Barnes-	60	0.40	48	3	60	0.28	5	3	9	80	200	0.268	1.659	2.381		3	3
	Svea st. l, rolling, 3-9%	30	0.40	48	3	60	0.28	5	3	9	80	200	0.268	1.659	2.381		3	3
Bm	Bearden sil, 0-3%	90	0.40	86	3	60	0.28	5	0	3	70	200	0.065	0.353	2.381		3	3
BnA	Bearden sicl, level, 0-3%	90	0.40	86	3	60	0.28	5	0	3	70	500	0.065	0.465	2.381		3	3
BnC	Bearden sicl, sloping, 3-9%	95	0.40	86	3	60	0.28	5	3	9	50	150	0.233	1.436	2.381		3	3
Bo	Bearden sicl, fans, 0-3%	95	0.40	86	3	60	0.28	5	0	3	100	250	0.069	0.378	2.381		3	3
Br	Bearden sicl, saline, 0-3%	85	0.40	86	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381		3	3
Bs	Bearden sicl, gr.sub.,0-3%	90	0.40	86	3	60	0.28	5	0	3	50	250	0.060	0.378	2.381		3	3
Bt	Bearden sic, 0-3%	85	0.40	86	3	60	0.28	5	0	3	50	250	0.060	0.378	2.381		3	3
Bu	Benoit l	100	0.40	86	3	60	0.28	5	0	2	50	200	0.060	0.247	2.381		3	3
Bv	Borup sil	90	0.40	86	3	60	0.28	5	0	3	50	200	0.060	0.353	2.381		3	3
BwB	Brantford-	60	0.40	56	3	60	0.28	3	3	5	50	200	0.233	0.757	1.429		3	3
	Vang, l	40	0.40	56	3	60	0.28	4	3	5	50	200	0.233	0.757	1.905		3	3
BwC	Brantford-	70	0.40	56	3	60	0.28	3	6	9	50	200	0.475	1.659	1.429		2	3
	Vang, l	30	0.40	56	3	60	0.28	4	6	9	50	200	0.475	1.659	1.905		3	3
ByC	Buse-	50	0.40	86	3	60	0.28	5	6	9	80	150	0.601	1.436	2.381		3	3
	Barnes, l	40	0.40	48	3	60	0.28	5	6	9	80	150	0.601	1.436	2.381		3	3
ByD	Buse-	50	0.40	86	3	60	0.28	5	9	12	350	450	2.194	3.826	2.381		2	1
	Barnes, l	35	0.40	48	3	60	0.28	5	9	12	350	450	2.194	3.826	2.381		2	1
ByE	Buse-	60	0.40	86	3	60	0.28	5	12	25	80	150	1.613	7.214	2.381		2	1
	Barnes l	30	0.40	48	3	60	0.28	5	12	25	80	150	1.613	7.214	2.381		2	1
CaA	Cashel sic	90	0.40	86	3	60	0.32	5	0	3	100	300	0.069	0.399	2.083		3	3
CaB	Cashel sic	90	0.40	86	3	60	0.32	5	3	5	100	300	0.287	0.927	2.083		3	3

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Map Symbol	Soil Name	%	Value	Value	Class	Value	Value	Value	Min	Max	Min	Max	Min	Max	8T/RK=	HEL Class	Class
CcE	Cashel soils, steep	90	0.40	86	3	60	0.32	5	0	25	25	175	0.053	7.792	2.083	2	1
Cd	Cavour complex	60	0.40	48	3	60	0.37	3	0	3	50	100	0.060	0.287	1.081	3	3
Ce	Coe soils	90	0.40	86	1	60	0.20	2	6	30	100	400	0.672	15.905	1.333	2	1
Cf	Colvin sil	80	0.40	86	3	60	0.32	5	0	3	80	100	0.066	0.287	2.083	3	3
Ch	Colvin sicl	90	0.40	86	3	60	0.32	5	0	3	80	100	0.066	0.287	2.083	3	3
Co	Colvin sicl, v. wet	95	0.40	86	3	60	0.32	5	0	3	80	100	0.066	0.287	2.083	3	3
DdA	Divide l	90	0.40	86	3	60	0.28	4	0	3	70	150	0.065	0.324	1.905	3	3
EbA	Edgeley l	95	0.40	48	3	60	0.28	4	0	3	100	200	0.069	0.353	1.905	3	3
EbB	Edgeley l	90	0.40	48	3	60	0.28	4	3	5	100	200	0.287	0.757	1.905	3	3
EbC	Edgeley l	90	0.40	48	3	60	0.28	4	6	12	80	150	0.601	2.209	1.905	2	3
EmA	Embden sl	90	0.40	86	3	60	0.20	5	0	3	90	250	0.068	0.378	3.333	3	3
EmB	Embden	90	0.40	86	3	60	0.20	5	3	6	90	250	0.278	1.063	3.333	3	3
EmC	Embden sl	95	0.40	86	3	60	0.20	5	6	9	70	150	0.562	1.436	3.333	3	3
EnA	Embden l	95	0.40	56	3	60	0.20	5	0	3	100	200	0.069	0.353	3.333	3	3
Fa	Fairdale sil	95	0.40	48	3	60	0.32	5	0	3	100	200	0.069	0.353	2.083	3	3
FaB	Fairdale sil	95	0.40	48	3	60	0.32	5	3	5	80	150	0.268	0.655	2.083	3	3
Fd	Fairdale sil, occ.fl.	95	0.40	56	3	60	0.32	5	0	3	80	150	0.066	0.324	2.083	3	3
Fe	Fairdale and	60	0.40	48	3	60	0.32	5	0	3	80	150	0.066	0.324	2.083	3	3
	LaPrairie soils, chana.	40	0.40	48	3	60	0.28	5	0	3	80	150	0.066	0.324	2.381	3	3
FfA	Fargo sic	95	0.40	86	3	60	0.32	5	0	3	100	250	0.069	0.378	2.083	3	3
Fg	Fargo sic, dep.	95	0.40	86	3	60	0.32	5	0	1	100	250	0.069	0.170	2.083	3	3
FhA	Fargo-	60	0.40	86	3	60	0.32	5	0	2	80	150	0.066	0.227	2.083	3	3
	Hegne sic	40	0.40	86	3	60	0.28	5	0	2	80	150	0.066	0.227	2.381	3	3
FhB	Fargo-	50	0.40	86	3	60	0.32	5	3	5	80	150	0.268	0.655	2.083	3	3
	Hegne sic	40	0.40	86	3	60	0.28	5	3	5	80	150	0.268	0.655	2.381	3	3
GaA	Gardena sil	95	0.40	56	3	60	0.28	5	0	3	90	200	0.068	0.353	2.381	3	3
GaB	Gardena sil	95	0.40	56	3	60	0.28	5	3	5	90	200	0.278	0.757	2.381	3	3
Gb	Gilby l	90	0.40	86	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
Ge	Gilby l, wet	60	0.40	86	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
Gh	gilby stony l	95	0.40	48	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
GlA	Glyndon sil	80	0.40	86	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
GlB	Glyndon sil	95	0.40	86	3	60	0.28	5	3	5	80	200	0.268	0.757	2.381	3	3
Gm	Glyndon sil, mod.sal.	85	0.40	86	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
Gr	Grano sic, very wet	95	0.40	86	3	60	0.28	5	0	1	80	150	0.066	0.146	2.381	3	3
Gs	Grano-	65	0.40	86	3	60	0.28	5	0	1	90	200	0.068	0.159	2.381	3	3
	Hegne sic	35	0.40	86	3	60	0.28	5	0	1	90	200	0.068	0.159	2.381	3	3
Ha	Hamar and	65	0.40	134	1	60	0.17	5	0	3	10	200	0.069	0.353	3.922	3	3
	Ulen ls	35	0.40	134	1	60	0.17	5	0	3	100	200	0.069	0.353	3.922	3	3
Hd	Hamar and	55	0.40	86	3	60	0.17	5	0	3	100	300	0.069	0.399	3.922	3	3
	Ulen sl	45	0.40	86	3	60	0.17	5	0	3	100	300	0.069	0.399	3.922	3	3
He	Hamerly-	55	0.40	86	3	60	0.28	5	0	3	100	250	0.069	0.378	2.381	3	3
	Cresbard l	35	0.40	48	3	60	0.32	5	0	3	100	250	0.069	0.378	1.250	3	3
HgA	Hamerly-	50	0.40	86	3	60	0.28	5	0	3	90	250	0.068	0.378	2.381	3	3
	Svea l	35	0.40	48	3	60	0.28	5	0	3	90	250	0.068	0.378	2.381	3	3
HgB	Hamerly-	45	0.40	86	3	60	0.28	5	3	5	90	250	0.278	0.846	2.381	3	3
	Svea l	35	0.40	48	3	60	0.28	5	3	5	90	250	0.278	0.846	2.381	3	3
Hh	Hattie sic, lacustrine	90	0.40	86	3	60	0.28	5	6	12	100	300	0.672	3.124	2.381	2	3

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			C	I	HEL	R	K	T	Slope- -Percent		Slope- -Length		LS- -Value			Water	Water HEL
Map Symbol	Soil Name	%	Value	Value	Class	Value	Value	Value	Min	Max	Min	Max	Min	Max	8T/RK=	HEL Class	Class
HlA	Hecla ls	95	0.40	134	1	60	0.17	5	0	3	100	200	0.069	0.353	3.922	3	3
HlB	Hecla ls	95	0.40	134	1	60	0.17	5	3	12	50	150	0.233	2.209	3.922	3	3
HmA	Hegne-	55	0.40	86	3	60	0.28	5	0	3	75	250	0.065	0.378	2.381	3	3
	Fargo sic	35	0.40	86	3	60	0.32	5	0	3	75	250	0.065	0.378	2.083	3	3
HmB	Hegne-	60	0.40	86	3	60	0.28	5	3	5	75	250	0.263	0.846	2.381	3	3
	Fargo sic	40	0.40	86	3	60	0.32	5	3	5	75	250	0.263	0.846	2.083	3	3
Hn	Hegne sic, saline	95	0.40	86	3	60	0.28	5	0	3	75	200	0.065	0.353	2.381	3	3
Hs	Hegne sic, str.sa.alk	95	0.40	86	3	60	0.28	5	0	1	50	200	0.060	0.159	2.381	3	3
Kn	Kloten complex	40	0.40	56	1	60	0.32	5	9	30	100	300	1.173	13.774	0.833	1	1
La	Lamoure soils, mod.sa.	95	0.40	86	3	60	0.28	5	0	3	50	150	0.060	0.324	2.381	3	3
LeA	Lankin l	85	0.40	48	3	60	0.28	5	0	3	75	150	0.065	0.324	2.381	3	3
Lk	Lankin cl	80	0.40	48	3	60	0.28	5	0	3	75	150	0.065	0.324	2.381	3	3
LnA	Lankin and	50	0.40	48	3	60	0.28	5	0	3	80	150	0.066	0.324	2.381	3	3
	Svea l	30	0.40	48	3	60	0.28	5	0	3	80	150	0.066	0.324	2.381	3	3
LnB	Lankin and	50	0.40	48	3	60	0.28	5	3	5	80	250	0.268	0.846	2.381	3	3
	Svea l	40	0.40	48	3	60	0.28	5	3	5	80	250	0.268	0.846	2.381	3	3
Lp	LaPrairie sil	95	0.40	56	3	60	0.28	5	0	3	100	200	0.069	0.353	2.381	3	3
Lr	LaPrairie sicl	80	0.40	48	3	60	0.28	5	0	3	100	200	0.069	0.353	2.381	3	3
Lu	Ludden sic	90	0.40	86	3	60	0.28	5	0	1	90	200	0.068	0.159	2.381	3	3
Ly	Ludden and	55	0.40	86	3	60	0.28	5	0	1	80	150	0.066	0.146	2.381	3	3
	Ryan soils	35	0.40	86	1	60	0.28	3	0	1	80	150	0.066	0.146	1.429	3	3
Mk3	Madock-	65	0.40	134	1	60	0.17	5	0	9	50	150	0.060	1.436	3.922	3	3
	Hecla,cx,sev.erod.	35	0.40	134	1	60	0.17	5	0	9	50	150	0.060	1.436	3.922	3	3
Mn	Manfred soils	95	0.40	48	3	60	0.32	3	0	1	75	150	0.065	0.146	1.250	3	3
Oa	Ojata soils	95	0.40	86	3	60	0.32	5	0	1	50	150	0.060	0.146	2.083	3	3
d	Overly sil	90	0.40	56	3	60	0.32	5	0	3	75	200	0.065	0.353	2.083	3	3
OlA	Overly sicl	90	0.40	48	3	60	0.32	5	0	3	75	200	0.065	0.353	2.083	3	3
OlB	Overly sicl	95	0.40	48	3	60	0.32	5	3	6	80	250	0.268	1.063	2.083	3	3
OlC	Overly sicl	90	0.40	48	3	60	0.32	5	6	9	80	200	0.601	1.659	2.083	3	3
Om	Overly sicl, fans	95	0.40	48	3	60	0.32	5	0	3	100	300	0.069	0.399	2.083	3	3
OvA	Overly sic	95	0.40	86	3	60	0.32	5	0	3	80	200	0.066	0.353	2.083	3	3
Ow	Overly sic, fans	95	0.40	86	3	60	0.32	5	0	3	100	300	0.069	0.399	2.083	3	3
Pa	Parnell sicl	95	0.40	48	3	60	0.28	5	0	1	50	150	0.060	0.146	2.381	3	3
Pt	Parnell and	55	0.40	48	3	60	0.28	5	0	1	50	100	0.060	0.129	2.381	3	3
	Tonka soils	45	0.40	48	3	60	0.32	5	0	1	50	100	0.060	0.129	2.083	3	3
Pu	Perella sicl	95	0.40	38	3	60	0.28	5	0	1	50	150	0.060	0.146	2.381	3	3
Ra	Rauville soils	95	0.40	56	3	60	0.28	5	0	1	80	200	0.066	0.159	2.381	3	3
ReA	Renshaw l,	95	0.40	56	3	60	0.28	3	0	3	100	250	0.069	0.378	1.429	3	3
ReB	Renshaw l,	95	0.40	56	3	60	0.28	3	3	9	80	200	0.268	1.659	1.429	2	3
Ro	Rockwell fsl	95	0.40	86	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
Sr	Sioux-	60	0.40	86	1	60	0.24	2	0	8	50	150	0.060	1.214	1.111	2	3
	Renshaw complex	40	0.40	56	3	60	0.28	3	0	8	50	150	0.060	1.214	1.429	3	3
SsE	Sioux and	65	0.40	56	1	60	0.24	2	8	30	80	200	0.887	11.247	1.111	2	1
	Renshaw soils, steep	25	0.40	56	3	60	0.28	3	8	30	80	200	0.887	11.247	1.429	2	1
SuA	Svea-	50	0.40	48	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
	Barnes l	35	0.40	48	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
SvA	Svea-	45	0.40	48	3	60	0.28	5	0	6	80	200	0.066	0.951	2.381	3	3

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			C	I	HEL	R	K	T	Slope- -Percent		Slope- -Length		LS- -Value			Water	HEL
Map Symbol	Soil Name	%	Value	Value	Class	Value	Value	Value	Min	Max	Min	Max	Min	Max	8T/RK=	HEL Class	Class
	Cresbard l	40	0.40	48	3	60	0.32	3	0	6	80	200	0.066	0.951	1.250	3	3
ToA	Towner sl	95	0.40	48	3	60	0.17	5	0	3	90	200	0.068	0.353	3.922	3	3
Un	Ulen sl	95	0.40	86	3	60	0.17	5	0	5	80	250	0.066	0.846	3.922	3	3
Va	Vallers l, saline	95	0.40	86	3	60	0.28	5	0	3	70	200	0.065	0.353	2.381	3	3
Vh	Vallers-	55	0.40	86	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
	Hamerly l	30	0.40	86	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
Vm	Vallers-	55	0.40	86	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
	Hamerly stony l	30	0.40	86	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
VnA	Vang-	55	0.40	56	3	60	0.28	4	0	3	70	200	0.065	0.353	1.905	3	3
	Brantford l	45	0.40	56	3	60	0.28	3	0	3	70	200	0.065	0.353	1.429	3	3
Wa	Wahpeton sic	95	0.40	86	3	60	0.28	5	0	5	90	200	0.068	0.757	2.381	3	3
WhC	Walsh l	95	0.40	48	3	60	0.28	5	3	9	50	200	0.233	1.659	2.381	3	3
WlA	Walsh l, sand sub.	95	0.40	48	3	60	0.28	5	0	3	80	250	0.066	0.378	2.381	3	3
WlB	Walsh l, sand sub.	95	0.40	48	3	60	0.28	5	3	6	80	200	0.268	0.951	2.381	3	3
Wm	Walsh sicl	95	0.40	56	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
WnA	Walsh cl	95	0.40	86	3	60	0.28	5	0	3	80	200	0.066	0.353	2.381	3	3
WoB	Waukon l	95	0.40	48	3	60	0.24	5	1	5	100	300	0.129	0.927	2.778	3	3
WoD	Waukon l	95	0.40	48	3	60	0.24	5	6	10	100	300	0.672	2.371	2.778	3	3