McLean
North Dakota

11-9-1990

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 Water
			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
Ac	Aquents	100	0.50	1		50	0	0	0	1	50	150	0.060	0.146			
Af	Aquolls	100	0.50	1		50	0	0	0	1	50	150	0.060	0.146			
ArA	Arnegard loam	100	0.50	48	3	50	0.28	5	1	3	100	250	0.129	0.378	2.857	3	3
ArB	Arnegard loam	100	0.50	48	3	50	0.28	5	3	6	100	200	0.287	0.951	2.857	3	3
ArC	Arnegard loam	100	0.50	48	3	50	0.28	5	6	9	50	150	0.475	1.436	2.857	3	3
Ba	Banks lfs	100	0.50	134	1	50	0.17	5	0	3	50	150	0.060	0.324	4.706	3	3
Bk	Banks loam	100	0.50	48	3	50	0.24	5	0	3	50	150	0.060	0.324	3.333	3	3
BoA	Bowbells loam	100	0.50	48	3	50	0.28	5	1	3	100	250	0.129	0.378	2.857	3	3
BsB	Bowbells loam	60	0.50	48	3	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
	Williams loam	40	0.50	48	3	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
BwA	Bowdle loam	100	0.50	48	3	50	0.28	4	1	3	50	200	0.105	0.353	2.286	3	3
ByB	Bowdle loam	70	0.50	48	3	50	0.28	4	3	6	50	200	0.233	0.951	2.286	3	3
	Stady loam	30	0.50	48	3	50	0.28	4	3	6	50	200	0.233	0.951	2.286	3	3
ByC	Bowdle loam	63	0.50	48	3	50	0.28	4	6	9	50	200	0.475	1.659	2.286	3	3
	Stady loam	37	0.50	48	3	50	0.28	4	6	9	50	200	0.475	1.659	2.286	3	3
CaE	Cabba complex	100	0.50	86	1	50	0.37	2	15	35	50	150	1.810	12.519	0.865	1	1
CbA	Cabba complex	70	0.50	86	1	50	0.37	2	25	60	25	150	2.945	28.353	0.865	1	1
	Shale outcrop	30	0.50	0		50	0	0	25	60	25	150	2.945	28.353			
ChD	Conagen complex	69	0.50	86	1	50	0.24	2	9	15	50	150	0.829	3.135	1.333	2	1
	Vebar complex	31	0.50	86	1	50	0.2	4	9	15	50	150	0.829	3.135	3.200	3	3
ChE	Conagen complex	71	0.50	86	1	50	0.24	2	15	35	50	150	1.810	12.519	1.333	1	1
	Vebar copmlex	29	0.50	86	1	50	0.2	4	15	35	50	150	1.810	12.519	3.200	2	1
Co	Colvin sicl	100	0.50	86	1	50	0.32	5	0	1	50	200	0.060	0.159	2.500	3	3
Dm	Dimmick clay	100	0.50	86	1	50	0.28	5	0	1	100	300	0.069	0.179	2.857	3	3
Dv	Divide loam	100	0.50	86	1	50	0.28	4	0	3	50	150	0.060	0.324	2.286	3	3
FaA	Falkirk loam	100	0.50	48	3	50	0.28	5	1	3	100	300	0.129	0.399	2.857	3	3
FaB	Falkirk loam	100	0.50	48	3	50	0.28	5	3	6	100	250	0.287	1.063	2.857	3	3
FbA	Falkirk loam	71	0.50	48	3	50	0.28	5	1	3	50	250	0.105	0.378	2.857	3	3
	Max loam	29	0.50	48	3	50	0.28	5	1	3	50	250	0.105	0.378	2.857	3	3
FbB	Falkirk loam	71	0.50	48	3	50	0.28	5	3	6	50	250	0.233	1.063	2.857	3	3
	Max loam	29	0.50	48	3	50	0.28	5	3	6	50	250	0.233	1.063	2.857	3	3
FbC	Falkirk loam	71	0.50	48	3	50	0.28	5	6	9	50	200	0.475	1.659	2.857	3	3
	Max loam	29	0.50	48	3	50	0.28	5	6	9	50	200	0.475	1.659	2.857	3	3
FfA	Farnuf loam	100	0.50	48	3	50	0.28	5	1	3	100	200	0.129	0.353	2.857	3	3
FfB	Farnuf loam	100	0.50	48	3	50	0.28	5	3	6	100	200	0.287	0.951	2.857	3	3
FlD	Flasher fsl	100	0.50	86	1	50	0.24	2	6	15	50	250	0.475	4.047	1.333	2	1
FlE	Flasher fsl	100	0.50	86	1	50	0.24	2	15	35	50	150	1.810	12.519	1.333	1	1
FnA	Flaxton fsl	100	0.50	86	1	50	0.2	5	1	3	50	200	0.105	0.353	4.000	3	3
FnB	Flaxton fsl	100	0.50	86	1	50	0.2	5	3	6	50	200	0.233	0.951	4.000	3	3
FnC	Flaxton fsl	100	0.50	86	1	50	0.2	5	6	9	50	150	0.475	1.436	4.000	3	3
Fs	Fossum fsl	100	0.50	86	1	50	0.15	5	0	1	50	150	0.060	0.146	5.333	3	3
GaA	Grail sicl	100	0.50	38	3	50	0.32	5	1	3	100	300	0.129	0.399	2.500	3	3
GaB	Grail sicl	100	0.50	38	3	50	0.32	5	3	6	100	250	0.287	1.063	2.500	3	3
Gn	Grano sic	100	0.50	86	1	50	0.28	5	0	1	50	200	0.060	0.159	2.857	3	3
GoA	Grassna sil	100	0.50	48	3	50	0.32	5	1	3	100	200	0.129	0.353	2.500	3	3
HaA	Hamerly loam	100	0.50	86	1	50	0.28	5	1	3	25	150	0.085	0.324	2.857	3	3
Hk	Harriet complex	50	0.50	48	1	50	0.37	3	0	1	100	250	0.069	0.170	1.297	3	3

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			WIND EROSION			WATER EROSION												Revised Water
			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
	Saline part	50	0.50	0		50	0	0	0	1	100	250	0.069	0.170			
Hn	Havreton vfsl	100	0.50	86	1	50	0.24	5	0	1	100	300	0.069	0.179	3.333	3	3
Ho	Havreton sicl	100	0.50	86	1	50	0.32	5	0	1	100	300	0.069	0.179	2.500	3	3
Hs	Heil sicl	100	0.50	38	3	50	0.28	3	0	1	100	300	0.069	0.179	1.714	3	3
KrB	Krem lfs	100	0.50	134	1	50	0.17	5	1	5	75	200	0.118	0.951	4.706	3	3
La	Lallie soils	100	0.50	86	1	50	0.37	5	0	1	100	300	0.069	0.179	2.162	3	3
LeB	Lihen lfs	100	0.50	134	1	50	0.17	5	1	6	50	200	0.105	0.951	4.706	3	3
LeC	Lihen lfs	100	0.50	134	1	50	0.17	5	6	9	50	200	0.475	1.659	4.706	3	3
LgE	Lihen complex	67	0.50	134	1	50	0.17	5	9	25	50	150	0.829	7.214	4.706	2	3
	Zahl complex	33	0.50	86	1	50	0.28	5	9	25	50	150	0.829	7.214	2.857	2	1
LmB	Linton sil	60	0.50	56	3	50	0.32	5	3	6	100	200	0.287	0.951	2.500	3	3
	Mandan sil	40	0.50	56	3	50	0.32	5	3	6	100	200	0.287	0.951	2.500	3	3
LmC	Linton sil	65	0.50	56	3	50	0.32	5	6	9	50	150	0.475	1.436	2.500	3	3
	Mandan sil	35	0.50	56	3	50	0.32	5	6	9	50	150	0.475	1.436	2.500	3	3
LmD	Linton sil	65	0.50	56	3	50	0.32	5	9	15	50	150	0.829	3.135	2.500	2	3
	Mandan sil	35	0.50	56	3	50	0.32	5	9	15	50	150	0.829	3.135	2.500	2	3
LmE	Linton sil	75	0.50	56	3	50	0.32	5	15	40	25	150	1.280	15.496	2.500	2	1
	Mandan sil	25	0.50	56	3	50	0.32	5	15	40	25	150	1.280	15.496	2.500	2	1
Lw	Lohler sicl	100	0.50	86	1	50	0.28	5	0	1	100	250	0.069	0.170	2.857	3	3
Ly	Lohler sicl	100	0.50	86	1	50	0.28	5	0	1	100	250	0.069	0.170	2.857	3	3
Ma	Makoti sicl	100	0.50	38	3	50	0.32	5	0	1	100	300	0.069	0.179	2.500	3	3
MdA	Mandan sil	100	0.50	56	3	50	0.32	5	1	3	100	250	0.129	0.378	2.500	3	3
MdB	Mandan sil	100	0.50	56	3	50	0.32	5	3	6	100	250	0.287	1.063	2.500	3	3
MdC	Mandan sil	100	0.50	56	3	50	0.32	5	6	9	50	150	0.475	1.436	2.500	3	3
Mf	Marysland loam	100	0.50	86	1	50	0.28	4	0	1	100	250	0.069	0.170	2.286	3	3
MgB	Max loam	100	0.50	48	3	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
MhC	Max loam	39	0.50	48	3	50	0.28	5	6	9	50	150	0.475	1.436	2.857	3	3
	Bowbells loam	33	0.50	48	3	50	0.28	5	6	9	50	150	0.475	1.436	2.857	3	3
	Zahl loam	28	0.50	86	1	50	0.28	5	6	9	50	150	0.475	1.436	2.857	3	3
MlC	Max loam	72	0.50	48	3	50	0.28	5	6	9	50	150	0.475	1.436	2.857	3	3
	Zahl loam	28	0.50	86	1	50	0.28	5	6	9	50	150	0.475	1.436	2.857	3	3
MlD	Max loam	60	0.50	48	3	50	0.28	5	9	15	50	150	0.829	3.135	2.857	2	3
	Zahl loam	40	0.50	86	1	50	0.28	5	9	15	50	150	0.829	3.135	2.857	2	3
MoC	Morton loam	100	0.50	48	3	50	0.32	4	3	9	100	250	0.287	1.854	2.000	3	3
NbA	Miobell loam	72	0.50	48	1	50	0.32	3	1	3	50	150	0.105	0.324	1.500	3	3
	Williams loam	28	0.50	48	3	50	0.28	5	1	3	50	150	0.105	0.324	2.857	3	3
NbB	Niobell loam	72	0.50	48	1	50	0.32	3	3	6	50	150	0.233	0.823	1.500	3	3
	Williams loam	28	0.50	48	3	50	0.28	5	3	6	50	150	0.233	0.823	2.857	3	3
NmB	Noonan complex	70	0.50	48	1	50	0.32	3	1	6	50	150	0.105	0.823	1.500	3	3
	Miranda complex	30	0.50	48	1	50	0.32	3	1	6	50	150	0.105	0.823	1.500	3	3
NmD	Noonan complex	70	0.50	48	1	50	0.32	3	6	15	50	150	0.475	3.135	1.500	2	1
	Miranda complex	30	0.50	48	1	50	0.32	3	6	15	50	150	0.475	3.135	1.500	2	1
NtA	Nutley sic	100	0.50	86	1	50	0.28	5	1	3	100	200	0.129	0.353	2.857	3	3
NtB	Nutley sic	100	0.50	86	1	50	0.28	5	3	6	100	200	0.287	0.951	2.857	3	3
Or	Orthents loamy	100	0.50	0		50	0	0	15	70	25	100	1.280	28.391			
Pa	Parnell sicl	100	0.50	38	3	50	0.28	5	0	1	100	350	0.069	0.188	2.857	3	3
Pe	Parnell sicl, wet	100	0.50	38	3	50	0.28	5	0	1	100	350	0.069	0.188	2.857	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
PhA	Parshall fsl	100	0.50	86	1	50	0.2	5	1	3	50	250	0.105	0.378	4.000	3	3
PhB	Parshall fsl	100	0.50	86	1	50	0.2	5	3	6	50	250	0.233	1.063	4.000	3	3
PhC	Parshall fsl	100	0.50	86	1	50	0.2	5	6	9	50	200	0.475	1.659	4.000	3	3
PhD	Parshall fsl	100	0.50	86	1	50	0.2	5	9	15	50	150	0.829	3.135	4.000	3	3
PoA	Parshall loam	100	0.50	56	3	50	0.2	5	1	3	50	250	0.105	0.378	4.000	3	3
PoB	Parshall loam	100	0.50	56	3	50	0.2	5	3	6	50	250	0.233	1.063	4.000	3	3
RgC	Regent sicl	100	0.50	38	3	50	0.32	4	3	9	100	200	0.287	1.659	2.000	3	3
RhB	Rhoades complex	100	0.50	86	1	50	0.32	3	1	9	50	150	0.105	1.436	1.500	3	3
Rm	Riverwash	100	0.50	0		50	0	0	0	1	50	100	0.060	0.129			
Ro	Roseglen sil	100	0.50	48	3	50	0.32	5	0	1	100	250	0.069	0.170	2.500	3	3
RpB	Roseglen sil	60	0.50	48	3	50	0.32	5	3	6	100	250	0.287	1.063	2.500	3	3
	Tansem complex l	40	0.50	48	3	50	0.28	5	3	6	100	250	0.287	1.063	2.857	3	3
RpC	Roseglen complex sil	63	0.50	48	3	50	0.28	5	6	9	100	200	0.672	1.659	2.857	3	3
	Tansem complex l	47	0.50	48	3	50	0.28	5	6	9	100	200	0.672	1.659	2.857	3	3
RsA	Ruso cosl	100	0.50	86	1	50	0.2	4	1	3	50	200	0.105	0.353	3.200	3	3
RtB	Ruso cosl	70	0.50	86	1	50	0.2	4	3	6	50	150	0.233	0.823	3.200	3	3
	Manning cosl	30	0.50	86	1	50	0.2	4	3	6	50	150	0.233	0.823	3.200	3	3
RtC	Ruso cosl	65	0.50	86	1	50	0.2	4	5	9	50	150	0.475	1.436	3.200	3	3
	Manning cosl	35	0.50	86	1	50	0.2	4	6	9	50	150	0.475	1.436	3.200	3	3
RxB	Ruso complex	67	0.50	86	1	50	0.2	4	3	6	50	100	0.233	0.672	3.200	3	3
	Manning complex	33	0.50	86	1	50	0.2	4	3	6	50	100	0.233	0.672	3.200	3	3
RyC	Ruso complex	65	0.50	86	1	50	0.2	4	6	9	25	100	0.336	1.173	3.200	3	3
	Wabek complex	35	0.50	56	1	50	0.28	2	6	9	25	100	0.336	1.173	1.143	2	3
RzA	Ruso soils	100	0.50	86	1	50	0.2	4	1	3	50	150	0.105	0.324	3.200	3	3
SeD	Seroco fs	100	0.50	220	1	50	0.15	5	9	25	25	100	0.586	5.890	5.333	2	3
Sn	Sinai sic	100	0.50	86	1	50	0.28	5	0	3	100	300	0.069	0.399	2.857	3	3
St	Straw loam	100	0.50	48	3	50	0.32	5	0	1	50	250	0.060	0.170	2.500	3	3
Sx	Straw, channeled	100	0.50	48	3	50	0.32	5	0	1	50	150	0.060	0.146	2.500	3	3
TlC	Telfer lfs	67	0.50	134	1	50	0.17	5	3	9	50	200	0.233	1.659	4.706	3	3
	Lihen lfs	33	0.50	134	1	50	0.17	5	3	9	50	200	0.233	1.659	4.706	3	3
Tp	tonka complex	67	0.50	48	3	50	0.32	5	0	1	100	250	0.069	0.170	2.500	3	3
	Parnell complex	33	0.50	38	3	50	0.28	5	0	1	100	250	0.069	0.170	2.857	3	3
Tr	Trembles fsl	100	0.50	86	1	50	0.2	5	0	1	100	250	0.069	0.170	4.000	3	3
VwC	Vebar fsl	62	0.50	86	1	50	0.2	4	3	9	100	200	0.287	1.659	3.200	3	3
	Williams fsl	38	0.50	86	1	50	0.28	5	3	9	100	200	0.287	1.659	2.857	3	3
WaB	Waek loam	56	0.50	56	1	50	0.28	2	1	6	50	150	0.105	0.823	1.143	3	3
	Max loam	22	0.50	48	3	50	0.28	5	1	6	50	150	0.105	0.823	2.857	3	3
	Zahl loam	22	0.50	86	1	50	0.28	5	1	6	50	150	0.105	0.823	2.857	3	3
WaD	Wabek loam	56	0.50	56	1	50	0.28	2	6	15	50	150	0.475	3.135	1.143	2	1
	Max loam	22	0.50	48	3	50	0.28	5	6	15	50	150	0.475	3.135	2.857	2	3
	Zahl loam	22	0.50	36	1	50	0.28	5	6	15	50	150	0.475	3.135	2.857	2	3
WbB	Wabek soils	100	0.50	56	1	50	0.28	2	1	6	50	200	0.105	0.951	1.143	3	3
WbD	Wabek soils	100	0.50	56	1	50	0.28	2	6	15	50	150	0.475	3.135	1.143	2	1
WlB	Williams st. l	100	0.50	1	3	50	0.28	5	1	9	50	200	0.105	1.659	2.857	3	3
WmA	Williams cl	100	0.50	48	3	50	0.28	5	1	3	50	200	0.105	0.378	2.857	3	3
WmB	Williams cl	100	0.50	48	3	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
WoA	Williams loam	70	0.50	48	3	50	0.28	5	1	3	100	250	0.129	0.378	2.857	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
	Bowbells loam	30	0.50	48	3	50	0.28	5	1	3	100	250	0.129	0.378	2.857	3	3
WoB	Williams loam	67	0.50	48	3	50	0.28	5	3	6	100	200	0.287	0.951	2.857	3	3
	Bowbells loam	33	0.50	48	3	50	0.28	5	3	6	100	200	0.287	0.951	2.857	3	3
WoC	Williams loam	67	0.50	48	3	50	0.28	5	6	9	50	200	0.475	1.659	2.857	3	3
	Bowbells loam	33	0.50	48	3	50	0.28	5	6	9	50	200	0.475	1.659	2.857	3	3
WpB	Williams loam	42	0.50	48	3	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
	Bowbells loam	31	0.50	48	3	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
	Zahl loam	27	0.50	86	1	50	0.28	5	3	6	50	200	0.233	0.951	2.857	3	3
WrB	Williams loam	67	0.50	48	3	50	0.28	5	1	6	10	250	0.065	1.063	2.857	3	3
	Mine sink part	33	0.50	0		50	0	0	1	6	10	250	0.065	1.063			
WsA	Wilton sil	100	0.50	48	3	50	0.28	5	1	3	100	250	0.129	0.378	2.857	3	3
WtB	Wilton sil	71	0.50	48	3	50	0.28	5	3	6	100	200	0.287	0.951	2.857	3	3
	Temvik sil	29	0.50	48	3	50	0.32	5	3	6	100	200	0.287	0.951	2.500	3	3
WwC	Wilton sil	64	0.50	48	3	50	0.28	5	6	9	100	200	0.672	1.659	2.857	3	3
	Williams sil	36	0.50	48	3	50	0.28	5	6	9	100	200	0.672	1.659	2.857	3	3
ZcE	Zahl complex	62	0.50	86	1	50	0.28	5	15	35	50	150	1.810	12.519	2.826	2	1
	Cabba complex	38	0.50	86	1	50	0.32	3	15	35	50	150	1.810	12.519	1.500	1	1
ZmE	Zahl loam	62	0.50	86	1	50	0.28	5	9	35	50	150	0.829	12.519	2.857	2	1
	Max loam	38	0.50	48	3	50	0.28	5	9	35	50	150	0.829	12.519	2.857	2	1
ZpE	Zahl loam	38	0.50	86	1	50	0.28	5	15	35	50	150	1.810	12.519	2.857	2	1
	Max loam	38	0.50	48	3	50	0.28	5	15	35	50	150	1.810	12.519	2.857	2	1
	Parnell	24	0.50	38	3	50	0.28	5	15	35	50	150	1.810	12.519	2.857	2	1
ZwC	Zahl loam	75	0.50	86	1	50	0.28	5	3	9	50	150	0.233	1.436	2.857	3	3
	Williams loam	25	0.50	48	3	50	0.28	5	3	9	50	150	0.233	1.436	2.857	3	3