

Ward
North Dakota

6/15/87

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 Value	I Value	HEL Class	R Value	K Value	T Value	Slope- -Percent Min	Slope- -Length Max Min	LS- -Value Max	8T/RK=	HEL Class	HEL Class			
Ad Illuvial land																	
Af	Arveson	85	50.00	0.86	1	45	0.17	4	0	1	100	300	0.069	0.179	4.183	3	3
	Arveson, wet	15	50.00	0.86	1	45	0.17	4	0	1	100	300	0.069	0.179	4.183	3	3
ArA	Arvilla	85	50.00	0.86	1	45	0.20	3	0	3	75	200	0.065	0.353	2.667	3	3
	Sioux	1515	50.00	0.86	1	45	0.24	2	1	3	50	125	0.105	0.307	1.481	3	3
ArB	Arvilla	85	50.00	0.86	1	45	0.24	3	3	6	75	150	0.263	0.823	2.222	3	3
	Sioux	15	50.00	0.86	1	45	0.24	2	3	6	50	125	0.233	0.752	1.481	3	3
BaA	Barnes	85	50.00	0.48	3	45	0.28	5	1	3	125	275	0.138	0.389	3.175	3	3
	Svea	15	50.00	0.48	3	45	0.28	5	1	3	75	300	0.118	0.399	3.175	3	3
BaB	Barnes	100	50.00	0.48	3	45	0.28	5	2	4	75	125	0.184	0.437	3.175	3	3
BaC	Barnes	95	50.00	0.48	3	45	0.28	5	4	6	50	125	0.303	0.752	3.175	3	3
BaD	Barnes	85	50.00	0.48	3	45	0.28	5	6	9	75	250	0.582	1.854	3.175	3	3
	Buse	15	50.00	0.86	1	45	0.28	5	6	9	50	100	0.475	1.173	3.175	3	3
BaE	Barnes	85	50.00	0.48	3	45	0.28	5	9	12	75	200	1.016	2.551	3.175	3	3
	Buse	15	50.00	0.86	1	45	0.28	5	9	12	25	75	0.586	1.562	3.175	3	3
	Barnes	55	50.00	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
	Buse	45	50.00	0.86	1	45	0.28	5	3	6	50	75	0.233	0.582	3.175	3	3
BbB	Barnes	50	50.00	0.48	3	45	0.28	5	1	6	100	250	0.129	1.063	3.175	3	3
	Hamerly	35	50.00	0.86	1	45	0.28	5	1	125	125	0.118	0.307	3.175	3	3	
	Parnell, Tonka	15	50.00	0.48	1	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
BIA	Barnes	55	50.00	0.48	3	45	0.28	5	0	3	125	175	0.072	0.339	3.175	3	3
	Svea	30	50.00	0.48	3	45	0.28	5	0	3	75	300	0.065	0.399	3.175	3	3
	Tonka	15	50.00	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3
BmB	Barnes	75	50.00	0.48	3	45	0.28	5	0	5	75	125	0.065	0.598	3.175	3	3
	Tonka	15	50.00	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3
	Svea	10	50.00	0.48	3	45	0.28	5	0	5	75	150	0.065	0.655	3.175	3	3
Bn	Benoit	95	50.00	0.86	1	45	0.28	4	0	2	50	100	0.060	0.201	2.540	3	3
Bob	Bowbells	100	50.00	0.48	3	45	0.28	5	2	5	75	150	0.184	0.655	3.175	3	3
Bp	Bowbells	80	50.00	0.48	3	45	0.28	5	0	5	75	150	0.065	0.655	3.175	3	3
	Parnell	20	50.00	0.48	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
Br	Bowbells	80	50.00	0.38	3	45	0.28	5	0	3	75	300	0.065	0.399	3.175	3	3
	Tonka	20	50.00	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3
BtA	Bowbells	60	50.00	0.48	3	45	0.28	5	0	3	75	300	0.065	0.399	3.175	3	3
	Williams	40	50.00	0.48	3	45	0.28	5	0	3	125	175	0.072	0.339	3.175	3	3
BuE	Buse	75	50.00	0.86	1	45	0.28	5	9	15	50	200	0.829	3.620	3.175	2	3
	Barnes	25	50.00	0.48	3	45	0.28	5	9	15	50	175	0.829	3.386	3.175	2	3
BvC	Buse	60	50.00	0.86	1	45	0.28	5	6	9	50	200	0.475	1.659	3.175	3	3
	Barnes	30	50.00	0.48	3	45	0.28	5	6	9	50	125	0.475	1.311	3.175	3	3
	Svea	10	50.00	0.48	3	45	0.28	5	6	9	75	100	0.582	1.173	3.175	3	3
BvE	Buse	60	50.00	0.86	1	45	0.28	5	10	20	50	250	0.968	6.449	3.175	2	1
	Barnes	30	50.00	0.48	3	45	0.28	5	10	20	50	100	0.968	4.078	3.175	2	3
	Svea	10	50.00	0.48	3	45	0.28	5	1	6	50	100	0.105	0.672	3.175	3	3
Co	Colvin	100	50.00	0.86	1	45	0.32	5	0	2	100	300	0.069	0.279	2.778	3	3
Cv	Colvin	100	50.00	0.86	1	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
Dd	Divide	100	50.00	0.86	1	45	0.28	4	1	3	100	300	0.129	0.399	2.540	3	3
EcB	Egeland	100	50.00	0.86	1	45	0.20	5	3	6	75	125	0.263	0.752	4.444	3	3
EdA	Egeland	100	50.00	0.86	1	45	0.20	5	0	3	75	200	0.065	0.353	4.444	3	3

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Map Symbol	Soil Name	%	WIND EROSION				WATER EROSION							Revised Water			
			C	I	HEL Class	R	K	T	Slope- -Percent	Slope- -Length	LS- -Value	8T/RK=	HEL Class	Class			
Em Embden			50.00	0.86	1	45	0.20	5	0	2	75	150	0.065	0.247	4.444	3	3
ErA Emerick		55	50.00	0.56	3	45	0.28	5	0	2	75	150	0.065	0.227	3.175	3	3
Heimdal		35	50.00	0.56	3	45	0.28	5	0	2	75	150	0.065	0.227	3.175	3	3
Hamerly, Tonka		10	50.00	0.86	1	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
Fc Fargo		100	50.00	0.86	1	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
Fw Freshwater Marsh																	
Gp Gravel pits																	
Hf Hamerly		80	50.00	0.86	1	45	0.28	5	0	5	75	150	0.065	0.655	3.175	3	3
Svea, etc.		20	50.00	0.48	3	45	0.28	5	0	5	75	150	0.065	0.655	3.175	3	3
Hh Harriet complex		50	50.00	0.48	1	45	0.37	3	0	1	100	200	0.069	0.159	1.441	3	3
Hk Harriet & Vallery		100	50.00	0.48	1	45	0.37	3	0	1	100	200	0.069	0.159	1.441	3	3
Hr Hegne		100	50.00	0.86	1	45	0.28	5	0	1	100	300	0.069	0.179	3.175	3	3
Hs Heil		100	50.00	0.38	3	45	0.28	3	0	1	100	200	0.069	0.159	1.905	3	3
HtB Heimdal		100	50.00	0.56	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
Lc Lamoure & Colvin		100	50.00	0.86	1	45	0.28	5	0	2	100	300	0.069	0.279	3.175	3	3
LeA Lehr		85	50.00	0.56	1	45	0.28	3	0	3	75	200	0.065	0.353	1.905	3	3
Manning & Wabek		15	50.00	0.86	1	45	0.20	3	0	3	75	200	0.065	0.353	2.667	3	3
LeB Lehr		85	50.00	0.56	1	45	0.28	3	3	6	75	250	0.263	1.063	1.905	3	3
Wabek		15	50.00	0.86	1	45	0.28	2	3	6	75	250	0.263	1.063	1.270	3	3
LfA Lihen		70	50.00	0.86	1	45	0.24	5	0	3	75	200	0.065	0.353	3.704	3	3
Telfer		30	50.00	0.86	1	45	0.24	5	0	3	75	200	0.065	0.353	3.704	3	3
LfB Lihen		55	50.00	0.86	1	45	0.24	5	3	6	75	150	0.263	0.823	3.704	3	3
Telfer		45	50.00	0.86	1	45	0.24	5	3	6	75	125	0.263	0.752	3.704	3	3
LhA Lihen		75	50.00	0.86	1	45	0.24	5	0	3	75	200	0.065	0.353	3.704	3	3
Telfer		25	50.00	0.86	1	45	0.24	5	0	3	75	125	0.065	0.307	3.704	3	3
LhB Lihen		55	50.00	0.86	1	45	0.24	5	3	6	75	125	0.263	0.752	3.704	3	3
Telfer		45	50.00	1.34	1	45	0.17	5	3	6	75	250	0.263	1.063	5.229	3	3
LIB Lihen		50	50.00	0.86	1	45	0.17	5	0	6	75	150	0.065	0.823	5.229	3	3
Telfer		50	50.00	1.34	1	45	0.17	5	0	6	75	150	0.065	0.823	5.229	3	3
Lo Loamy Lake Beaches																	
Ls Ludden		100	50.00	0.38	3	45	0.28	5	0	1	100	300	0.069	0.179	3.175	3	3
Lt Ludden		100	50.00	0.38	3	45	0.28	5	0	1	100	300	0.069	0.179	3.175	3	3
Lu Ludden		100	50.00	0.38	3	45	0.28	5	0	3	100	300	0.069	0.399	3.175	3	3
MaA Makoti		100	50.00	0.38	3	45	0.32	5	0	2	100	200	0.069	0.247	2.778	3	3
MgA Manning		70	50.00	0.86	1	45	0.20	4	0	3	75	150	0.065	0.324	3.556	3	3
Lehr		30	50.00	0.56	1	45	0.28	3	0	3	75	150	0.065	0.324	1.905	3	3
MgB Manning		70	50.00	0.86	1	45	0.20	4	3	6	60	110	0.246	0.705	3.556	3	3
Lihen		30	50.00	0.86	1	45	0.17	5	3	6	60	110	0.246	0.705	5.229	3	3
MhC Manning		80	50.00	0.86	1	45	0.20	4	6	10	50	100	0.475	1.369	3.556	3	3
Wabek		20	50.00	0.86	1	45	0.28	2	6	10	50	100	0.475	1.369	1.270	2	3
MIE Max		60	50.00	0.48	3	45	0.28	5	9	25	75	250	1.016	9.313	3.175	2	1
Bowbells		20	50.00	0.48	3	45	0.28	5	6	9	50	100	0.475	1.173	3.175	3	3
Zahl		20	50.00	0.86	1	45	0.28	5	9	25	75	250	1.016	9.313	3.175	2	1
MmB Max		55	50.00	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
Williams		45	50.00	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
MmC Max		45	50.00	0.48	3	45	0.28	5	6	9	50	250	0.475	1.854	3.175	3	3
Williams		35	50.00	0.48	3	45	0.28	5	6	9	50	360	0.475	2.225	3.175	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- Min	-Percent Max Min	Slope- Max Min	-Length Max Min	LS- -Value Max	8T/RK=	HEL Class	Class	
	Bowbells, etc.	15	50.00	0.48	3	45	0.28	5	6	9	75	125	0.582	1.311	3.175	3	3
MmD	Parnell	5	50.00	0.38	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
	Max	65	50.00	0.48	3	45	0.28	5	9	12	80	240	1.049	2.794	3.175	3	3
	Williams	20	50.00	0.48	3	45	0.28	5	9	12	50	240	0.829	2.794	3.175	3	3
	Zahl	15	50.00	0.86	1	45	0.28	5	9	12	50	75	0.829	1.562	3.175	3	3
MnC	Max	60	50.00	0.48	3	45	0.28	5	6	12	50	250	0.475	2.852	3.175	3	3
	Zahl	25	50.00	0.86	1	45	0.28	5	6	12	50	250	0.475	2.852	3.175	3	3
	Bowbells	15	50.00	0.48	3	45	0.28	5	6	12	50	125	0.475	2.017	3.175	3	3
MoC	Max	60	50.00	0.48	3	45	0.28	5	6	12	70	250	0.562	2.852	3.175	3	3
	Zahl	20	50.00	0.86	1	45	0.28	5	6	12	50	250	0.475	2.852	3.175	3	3
	Bowbells	15	50.00	0.48	3	45	0.28	5	6	12	50	125	0.475	2.017	3.175	3	3
	Parnell	5	50.00	0.38	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
Mp	Mine pits & dumps																
Nm	Noonan	50	50.00	0.48	1	45	0.32	3	0	2	100	200	0.069	0.247	1.667	3	3
	Miranda	35	50.00	0.48	1	45	0.32	3	0	2	100	200	0.069	0.247	1.667	3	3
	Niobell	12	50.00	0.48	1	45	0.32	3	0	2	100	200	0.069	0.247	1.667	3	3
Nn	Noonan	40	50.00	0.48	1	45	0.32	3	0	2	100	200	0.069	0.247	1.667	3	3
	Niobell	40	50.00	0.48	1	45	0.32	3	0	2	100	200	0.069	0.247	1.667	3	3
	Bowbells	10	50.00	0.48	3	45	0.28	5	0	2	100	200	0.069	0.247	3.175	3	3
	Miranda	10	50.00	0.48	1	45	0.32	3	0	2	100	200	0.069	0.247	1.667	3	3
NtB	Nutley	95	50.00	0.86	1	45	0.28	5	2	5	100	400	0.201	1.070	3.175	3	3
NuA	Nutley	75	50.00	0.86	1	45	0.28	5	0	2	400	400	0.091	0.304	3.175	3	3
	Sinai	25	50.00	0.86	1	45	0.28	5	0	2	100	300	0.069	0.279	3.175	3	3
Ov	Overly	95	50.00	0.38	3	45	0.32	5	0	2	100	300	0.069	0.279	2.778	3	3
Pa	Parnell	95	50.00	0.38	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
Pe	Parnell	95	50.00	0.38	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
ReA	Renshaw	90	50.00	0.48	1	45	0.28	3	0	3	100	300	0.069	0.399	1.905	3	3
	Arvilla, Divide	20	50.00	0.86	1	45	0.20	3	0	3	100	150	0.069	0.324	2.667	3	3
RtA	Roseglen	70	50.00	0.48	3	45	0.32	5	0	2	100	200	0.069	0.247	2.778	3	3
	Tansem	30	50.00	0.48	3	45	0.28	5	0	2	100	200	0.069	0.247	3.175	3	3
Sa	Salt water marsh																
SeC	Seroco	100	50.00	2.2	1	45	0.15	5	3	20	25	150	0.189	4.995	5.926	3	3
SgB	Sinai	95	50.00	0.38	3	45	0.28	5	2	5	50	210	0.163	0.775	3.175	3	3
SnA	Sinai	100	50.00	0.86	1	45	0.28	5	0	2	100	200	0.069	0.247	3.175	3	3
SoB	Sioux	85	50.00	0.86	1	45	0.24	2	1	6	75	250	0.118	1.063	1.481	3	3
	Arvilla	15	50.00	0.86	1	45	0.20	3	1	6	75	150	0.118	0.823	2.667	3	3
SvA	Svea	90	50.00	0.48	3	45	0.28	5	0	2	75	300	0.065	0.279	3.175	3	3
SvB	Svea	100	50.00	0.48	3	45	0.28	5	2	5	75	150	0.184	0.655	3.175	3	3
SwA	Svea	100	50.00	0.48	3	45	0.28	5	0	3	100	300	0.069	0.399	3.175	3	3
SwB	Svea	100	50.00	0.48	3	45	0.28	5	3	7	100	300	0.287	1.428	3.175	3	3
Sx	Svea	60	50.00	0.48	3	45	0.28	5	0	2	75	300	0.065	0.279	3.175	3	3
	Hamerly	20	50.00	0.86	1	45	0.28	5	0	2	75	200	0.065	0.247	3.175	3	3
	Tonka	20	50.00	0.48	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
Sy	Svea	60	50.00	0.48	3	45	0.28	5	0	4	75	125	0.065	0.437	3.175	3	3
	Lamoure	40	50.00	0.86	1	45	0.28	5	0	4	75	150	0.065	0.470	3.175	3	3
Sz	Svea	80	50.00	0.48	3	45	0.28	5	0	2	75	150	0.065	0.227	3.175	3	3
	Tonka	20	50.00	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3

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TIC	Telfer	65	50.00	1.34	1	45	0.17	5	6	12	50	200	0.475	2.551	5.229	3	3
	Lihen	35	50.00	1.34	1	45	0.17	5	6	12	50	200	0.475	2.551	5.229	3	3
	To Tonka	95	50.00	0.48	3	45	0.32	5	0	1	100	300	0.069	0.179	2.778	3	3
	Va Vallerys	85	50.00	0.86	1	45	0.28	5	0	1	75	125	0.065	0.138	3.175	3	3
	Ve Velva	100	50.00	0.86	1	45	0.20	5	0	3	125	200	0.072	0.353	4.444	3	3
	Vh Velva	85	50.00	0.56	3	45	0.20	5	0	2	125	200	0.072	0.247	4.444	3	3
	Velva	15	50.00	0.56	3	45	0.20	5	0	2	125	200	0.072	0.247	4.444	3	3
	Vk Velva	100	50.00	0.56	3	45	0.20	5	0	2	100	150	0.069	0.227	4.444	3	3
	WaB Wabek	90	50.00	0.86	1	45	0.28	2	0	6	75	250	0.065	1.063	1.270	3	3
	WaE Wabek	100	50.00	0.86	1	45	0.28	2	6	20	50	250	0.475	6.449	1.270	2	1
	WeC Wabek	33	50.00	0.86	1	45	0.28	2	3	20	50	200	0.233	5.768	1.270	2	1
	Max	33	50.00	0.48	3	45	0.28	5	9	15	50	125	0.829	2.862	3.175	3	3
	Zahl	33	50.00	0.86	1	45	0.28	5	3	20	50	75	0.233	3.532	3.175	2	3
	WIA Williams	85	50.00	0.48	3	45	0.28	5	0	2	75	150	0.065	0.227	3.175	3	3
	Bowbells	15	50.00	0.48	3	45	0.28	5	0	2	75	150	0.065	0.227	3.175	3	3
	WIB Williams	95	50.00	0.48	3	45	0.28	5	2	4	60	150	0.172	0.470	3.175	3	3
	WIC Williams	70	50.00	0.48	3	45	0.28	5	4	6	80	150	0.366	0.823	3.175	3	3
	Max	15	50.00	0.48	3	45	0.28	5	4	6	75	150	0.356	0.823	3.175	3	3
	Bowbells	15	50.00	0.48	3	45	0.28	5	4	6	75	150	0.356	0.823	3.175	3	3
	WID Williams	75	50.00	0.48	3	45	0.28	5	6	9	50	200	0.475	1.659	3.175	3	3
	Max	5	50.00	0.48	3	45	0.28	5	6	9	50	200	0.475	1.659	3.175	3	3
	Zahl	10	50.00	0.86	1	45	0.28	5	6	9	50	100	0.475	1.173	3.175	3	3
	WmA Williams	85	50.00	0.48	3	45	0.28	5	0	3	75	250	0.065	0.378	3.175	3	3
	Bowbells	15	50.00	0.48	3	45	0.28	5	0	3	75	250	0.065	0.378	3.175	3	3
	WmB Williams	100	50.00	0.48	3	45	0.28	5	3	6	75	400	0.263	1.344	3.175	3	3
	WmC Williams	85	50.00	0.48	3	45	0.28	5	6	9	50	350	0.475	2.194	3.175	3	3
	Zahl	15	50.00	0.86	1	45	0.28	5	6	9	50	200	0.475	1.659	3.175	3	3
	WmB Williams	70	50.00	0.48	3	45	0.28	5	9	12	50	100	0.829	1.804	3.175	3	3
	Max, Bowbells	15	50.00	0.48	3	45	0.28	5	9	12	50	100	0.829	1.804	3.175	3	3
	Zahl	15	50.00	0.86	1	45	0.28	5	9	12	50	75	0.829	1.562	3.175	3	3
	WoA Williams	65	50.00	0.48	3	45	0.28	5	0	3	75	150	0.065	0.324	3.175	3	3
	Bowbells	20	50.00	0.48	3	45	0.28	5	0	3	75	150	0.065	0.324	3.175	3	3
	Tonka	15	50.00	0.48	3	45	0.32	5	0	1	50	100	0.060	0.129	2.778	3	3
	WrB Williams	55	50.00	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
	Hamerly	30	50.00	0.48	3	45	0.28	5	3	6	75	125	0.263	0.752	3.175	3	3
	Parnell, Tonka	15	50.00	0.38	3	45	0.28	5	0	1	50	100	0.060	0.129	3.175	3	3
	WsA Williams	55	50.00	0.48	3	45	0.28	5	0	3	100	150	0.069	0.324	3.175	3	3
	Niobell	20	50.00	0.48	1	45	0.32	3	0	3	100	200	0.069	0.353	1.667	3	3
	Bowbells, Noonan	25	50.00	0.48	3	45	0.28	5	0	3	100	200	0.069	0.353	3.175	3	3
	ZaE Zahl	85	50.00	0.86	1	45	0.28	5	9	20	75	250	1.016	6.449	3.175	2	1
	Max	15	50.00	0.48	3	45	0.28	5	9	20	75	250	1.016	6.449	3.175	2	1
	ZmC Zahl	60	50.00	0.86	1	45	0.28	5	6	9	75	200	0.582	1.659	3.175	3	3
	Max	40	50.00	0.48	3	45	0.28	5	6	9	90	125	0.638	1.311	3.175	3	3
	ZmE Zahl	60	50.00	0.86	1	45	0.28	5	12	25	75	150	1.562	7.214	3.175	2	1
	Max	35	50.00	0.48	3	45	0.28	5	12	25	75	100	1.562	5.890	3.175	2	1
	ZmF Zahl	60	50.00	0.86	1	45	0.28	5	20	60	75	250	3.532	36.604	3.175	1	1
	Max	40	50.00	0.48	3	45	0.28	5	15	20	75	100	2.217	4.078	3.175	2	3

Ward
North Dakota

6/15/87

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							Water HEL Class	Revised Water HEL Class		
			C Value	I Value	HEL Class	R Value	K Value	T Value	Slope- Percent	Slope- Length	LS- Value		8T/RK=				
ZnE Zahl		60	50.00	0.86	1	45	0.28	5	6	20	50	250	0.475	6.449	3.175	2	1
Miranda		40	50.00	0.48	1	45	0.32	3	6	12	100	125	0.672	2.017	1.667	2	3