

Highly erodible soil mapunit list - Goodhue County, MN

This data is only to be used for HEL determinations

C=0.09 R=150

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Mapunit

Symbol	Mapunit Name	HELC	T	K	I	slope %	slope I	LS
L171A	Merton silt loam, 1 to 3 percent slopes	NHEL	5	0.28	48	1.00	250	0.17
L177B	Moland silt loam, 2 to 6 percent slopes	NHEL	5	0.32	48	4.00	200	0.53
L180A	Maxcreek silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	86	1.00	250	0.17
M505A	Klinger silt loam, 1 to 4 percent slopes	NHEL	5	0.28	48	1.00	250	0.17
M506B	Kasson silt loam, 1 to 6 percent slopes	NHEL	5	0.32	48	4.00	200	0.53
M507A	Marquis silt loam, 1 to 3 percent slopes	NHEL	5	0.32	48	2.00	250	0.33
M507B	Marquis silt loam, 2 to 6 percent slopes	NHEL	5	0.37	48	4.00	200	0.67
M508A	Oran silt loam, 1 to 3 percent slopes	NHEL	5	0.32	48	2.00	250	0.33
M509A	Mantorville loam, 0 to 2 percent slopes	NHEL	4	0.28	56	1.00	250	0.17
M509B	Mantorville loam, 2 to 6 percent slopes	NHEL	4	0.28	56	4.00	200	0.67
M509C2	Mantorville loam, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.20	56	8.00	125	1.11
M510A	Maxfield silty clay loam, 0 to 2 percent slopes	NHEL	5	0.28	48	1.00	250	0.17
M511A	Readlyn silt loam, 1 to 3 percent slopes	NHEL	5	0.32	48	2.00	250	0.33
M516C2	Wangs-Wagen Prairie complex, 6 to 12 percent slopes, moderately eroded	HEL	3	0.43	48	8.00	125	1.11
M516D2	Wangs-Wagen Prairie complex, 12 to 18 percent slopes, moderately eroded	HEL	2	0.28	56	20.00	100	4.08
M516E	Wangs-Wagen Prairie complex, 18 to 35 percent slopes	HEL	4	0.32	38	25.00	100	5.89
M518B	Clyde-Floyd complex, 1 to 4 percent slopes	NHEL	5	0.28	48	1.00	200	0.16
M520B	Rasset sandy loam, 0 to 6 percent slopes	NHEL	4	0.20	86	3.00	200	0.48
M520C2	Rasset sandy loam, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.20	56	8.00	125	1.11
M521C2	Kenyon silt loam, 6 to 12 percent slopes, moderately eroded	HEL	5	0.28	48	8.00	100	0.99
M522D2	Bassett-Racine complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.32	48	15.00	100	2.56
M522E	Bassett-Racine complex, 18 to 25 percent slopes	HEL	5	0.32	48	25.00	100	5.89
M523C2	Bassett-Kasson complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.32	48	8.00	100	0.99
M525A	Dakota silt loam, 0 to 3 percent slopes	NHEL	4	0.32	56	1.00	250	0.17
M526B	Winneshiek silt loam, 2 to 6 percent slopes	NHEL	4	0.32	48	4.00	200	0.53
M526C2	Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded	HEL	4	0.32	48	8.00	125	1.11
M527D2	Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded	HEL	3	0.32	48	14.00	125	2.56
M532A	Maxfield silty clay loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	48	1.00	250	0.17
M534B	Estherville-Ridgeport complex, 0 to 6 percent slopes	NHEL	3	0.20	56	3.00	300	0.46
M535B	Wagen Prairie silt loam, 2 to 6 percent slopes	NHEL	2	0.28	56	4.00	200	0.53

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Symbol	Mapunit Name	HELC	T	K	I	slope %	slope I	LS
M536C2	Meridian, till substratum-Bassett complex, 6 to 12 percent slopes, moderately eroded	HEL	3	0.20	86	15.00	100	2.56
M536D2	Meridian, till substratum-Bassett complex, 12 to 18 percent slopes, moderately eroded	HEL	3	0.20	86	15.00	100	2.56
M537E	Meridian-Bassett complex, 18 to 35 percent slopes	HEL	3	0.20	86	15.00	100	2.56
M538A	Waukegan silt loam, 0 to 2 percent slopes	NHEL	4	0.32	48	1.00	250	0.17
M539F	Bellechester loamy sand, 18 to 45 percent slopes	HEL	5	0.15	310	25.00	150	7.21
M540F	Frontenac-Bellechester complex, 18 to 45 percent slopes	HEL	5	0.15	310	25.00	150	7.21
M541C2	Copaston loam, 6 to 12 percent slopes, moderately eroded	HEL	2	0.28	56	8.00	150	1.21
M541D	Copaston loam, 12 to 18 percent slopes	HEL	1	0.24	56	20.00	100	4.08
N501B	Downs silt loam, 2 to 6 percent slopes	NHEL	5	0.32	48	4.00	250	0.57
N501C2	Downs silt loam, 6 to 12 percent slopes, moderately eroded	HEL	5	0.32	48	8.00	175	1.31
N501D2	Downs silt loam, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29
N507B	Timula-Mt. Carroll complex, 2 to 6 percent slopes	NHEL	5	0.37	56	4.00	150	0.47
N507C2	Timula-Mt. Carroll complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.37	56	8.00	100	0.99
N507D2	Timula-Mt. Carroll complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	16.00	100	2.84
N507E	Timula-Mt. Carroll complex, 18 to 25 percent slopes	HEL	5	0.43	86	25.00	100	5.89
N508E	Seaton silt loam, driftless ridge, 12 to 20 percent slopes, moderately eroded	HEL	5	0.37	56	22.00	100	4.77
N514B	Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes	NHEL	5	0.32	56	4.00	200	0.67
N517A	Oak Center-Mt. Carroll complex, 0 to 2 percent slopes	NHEL	5	0.32	56	1.00	250	0.17
N518B	Lindstrom silt loam, 2 to 6 percent slopes	NHEL	5	0.28	56	4.00	200	0.67
N518C2	Lindstrom silt loam, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.28	56	8.00	225	1.49
N518D2	Lindstrom silt loam, 12 to 18 percent slopes, moderately eroded	HEL	5	0.28	56	15.00	200	3.62
N519B	Vasa silt loam, 1 to 4 percent slopes	NHEL	5	0.32	56	3.00	200	0.48
N521B	Mt. Carroll silt loam, 2 to 6 percent slopes, moderately eroded	NHEL	5	0.32	48	4.00	250	0.57
N521C2	Mt. Carroll silt loam, 6 to 12 percent slopes, moderately eroded	HEL	5	0.37	56	8.00	125	1.11
N521D2	Mt. Carroll silt loam, 12 to 20 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29
N522A	Otter silt loam, channeled upland, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	56	2.00	250	0.33
N526B	Gale-Oak Center complex, 1 to 6 percent slopes	NHEL	3	0.32	56	3.00	200	0.48
N526F	Gale-Oak Center complex, 18 to 45 percent slopes	HEL	5	0.15	310	25.00	150	7.21
N534E	Downs-Nasset complex, 18 to 25 percent slopes	HEL	3	0.32	48	25.00	125	6.59

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N535B	Hesch-Rasset complex, 1 to 6 percent slopes	NHEL	4	0.24	86	4.00	150	0.47
N537E2	Fayette-Hersey, bedrock substratum, complex, 18 to 25 percent slopes, moderately eroded	HEL	5	0.37	56	22.00	100	4.77
N538C2	Waubeek and Massbach soils, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.32	38	8.00	200	1.40
N552B	Schapville-Winneshiek complex, 2 to 6 percent slopes	NHEL	3	0.37	56	2.00	200	0.31
N553B	Frankville-Nasset-Mt. Carroll complex, 2 to 6 percent slopes	NHEL	4	0.37	48	4.00	200	0.53
N553C2	Frankville-Nasset-Mt. Carroll complex, 6 to 12 percent slopes, moderately eroded	HEL	4	0.37	56	8.00	100	0.99
N553D2	Frankville-Nasset-Mt. Carroll complex, 12 to 18 percent slopes, moderately eroded	HEL	4	0.37	48	14.00	125	2.57
N553E	Frankville-Nasset-Mt. Carroll complex, 18 to 35 percent slopes	HEL	4	0.37	48	20.00	125	4.56
N555B	Tama-Dinsmore complex, 2 to 6 percent slopes	NHEL	5	0.32	48	4.00	200	0.53
N572B	Downs-Hersey, bedrock substratum, complex, 2 to 6 percent slopes	NHEL	5	0.37	56	4.00	200	0.53
N572C2	Downs-Hersey, bedrock substratum, complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.37	56	8.00	125	1.11
N572D2	Downs-Hersey, bedrock substratum, complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29
N574B	Downs-Hersey complex, 2 to 6 percent slopes	NHEL	5	0.32	56	2.00	250	0.33
N574C2	Downs-Hersey complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.32	48	8.00	175	1.31
N574D2	Downs-Hersey complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29
N576B	Rasset fine sandy loam, 0 to 6 percent slopes	NHEL	4	0.24	86	3.00	200	0.48
N577A	Shandep-Cylinder complex, 0 to 2 percent slopes	NHEL	4	0.24	48	1.00	250	0.17
N578B	Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	NHEL	5	0.32	56	3.00	200	0.48
N579A	Dakota silt loam, 0 to 3 percent slopes	NHEL	4	0.32	56	1.00	250	0.17
N580G	Brodale, very flaggy-Bellechester-Rock outcrop complex, 45 to 90 percent slopes	HEL	5	0.17	56	60.00	200	32.70
N581B	Rockton-Atkinson complex, strath terrace, 0 to 6 percent slopes	NHEL	2	0.28	56	4.00	200	0.53
N581C2	Rockton-Atkinson complex, strath terrace, 6 to 12 percent slopes, moderately eroded	HEL	2	0.28	56	8.00	150	1.21
N582B	Newhouse-Valton complex, 2 to 6 percent slopes	NHEL	4	0.37	48	4.00	200	0.53
N582C2	Newhouse-Valton complex, 6 to 12 percent slopes, moderately eroded	HEL	4	0.37	56	8.00	100	0.99

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N582D2	Newhouse-Valton complex, 12 to 18 percent slopes, moderately eroded	HEL	4	0.37	48	14.00	125	2.57
N584E	Downs silt loam, valleys, 18 to 25 percent slopes	HEL	5	0.37	56	22.00	150	5.84
N585B	Mt. Carroll-Hersey complex, 2 to 6 percent slopes	NHEL	5	0.37	56	4.00	200	0.53
N585C2	Mt. Carroll-Hersey complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.37	56	8.00	125	1.11
N585D2	Mt. Carroll-Hersey complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29
N586C2	Ridgeton, sandy substratum-Eden Prairie complex, 6 to 12 percent slopes, moderately eroded	PHEL	5	0.20	86	8.00	100	0.99
N586D2	Ridgeton, sandy substratum-Eden Prairie complex, 12 to 20 percent slopes, moderately eroded	HEL	5	0.20	86	20.00	130	4.65
N590C2	Tama silt loam, valleys, driftless, 6 to 12 percent slopes, moderately eroded	HEL	5	0.37	56	8.00	200	1.40
N590D2	Tama silt loam, valleys, driftless, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29
N591A	Port Byron silt loam, 0 to 2 percent slopes	NHEL	5	0.32	48	1.00	250	0.17
N591B	Port Byron silt loam, 2 to 6 percent slopes	NHEL	5	0.32	48	4.00	200	0.53
N591C2	Port Byron silt loam, 6 to 12 percent slopes, moderately eroded	HEL	5	0.32	48	7.00	150	1.01
N592B	Crescent-Eden Prairie complex, 2 to 6 percent slopes	NHEL	3	0.20	86	3.00	200	0.48
N593B	Sparta loamy sand, 0 to 6 percent slopes	NHEL	5	0.17	134	2.00	200	0.31
N593C	Sparta loamy sand, 6 to 12 percent slopes	PHEL	5	0.17	134	12.00	125	2.02
N594B	Chelsea loamy sand, 2 to 6 percent slopes	NHEL	5	0.17	134	8.00	200	1.40
N594C	Chelsea loamy sand, 6 to 12 percent slopes	PHEL	5	0.17	134	8.00	200	1.40
N594E	Chelsea loamy sand, 12 to 35 percent slopes	HEL	5	0.17	134	20.00	200	5.77
N596B	Eleva sandy loam, 2 to 6 percent slopes	NHEL	4	0.24	86	4.00	150	0.47
N596C2	Eleva sandy loam, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.24	86	12.00	100	1.80
N596D2	Eleva sandy loam, 12 to 18 percent slopes, moderately eroded	PHEL	4	0.24	86	12.00	100	1.80
N597C2	Waucoma-Winneshiek complex, 6 to 12 percent slopes, moderately eroded	HEL	4	0.32	48	8.00	125	1.11
N598D2	Winneshiek-Waucoma complex, 12 to 18 percent slopes, moderately eroded	HEL	3	0.32	48	14.00	125	2.57
N598E	Winneshiek-Waucoma complex, 18 to 35 percent slopes	HEL	3	0.32	48	25.00	125	6.59
N599B	Winneshiek loam, sinkhole karst, 2 to 6 percent slopes	NHEL	3	0.32	48	4.00	125	0.44
N599C2	Winneshiek loam, sinkhole karst, 6 to 12 percent slopes, moderately eroded	HEL	3	0.32	48	8.00	125	1.11
N600C2	Eleva-Alvin complex, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.24	86	12.00	100	1.80
N601C2	Oak Center-Hersey complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.37	56	8.00	100	0.99
N601D2	Oak Center-Hersey complex, 12 to 18 percent slopes, moderately eroded	HEL	5	0.37	56	14.00	100	2.29

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N602A	Joy silt loam, 1 to 3 percent slopes	NHEL	5	0.28	56	2.00	250	0.33
N603C2	Lilah-Billett complex, 6 to 12 percent slopes, moderately eroded	HEL	3	0.20	86	15.00	100	2.56
N603D2	Lilah-Billett complex, 12 to 18 percent slopes, moderately eroded	HEL	3	0.20	86	15.00	100	2.56
N604B	Billett sandy loam, 2 to 6 percent slopes	NHEL	4	0.20	86	4.00	200	0.67
N604C2	Billett sandy loam, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.20	86	8.00	100	0.99
N605B	Rasset sandy loam, strath terrace, 2 to 6 percent slopes	NHEL	4	0.20	86	4.00	200	0.67
N605C2	Rasset sandy loam, strath terrace, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.20	86	8.00	125	1.11
N606A	Tama silt loam, sandy substratum, driftless, 0 to 3 percent slopes	NHEL	5	0.32	56	1.00	250	0.17
N607A	Meridian silt loam, 0 to 3 percent slopes	NHEL	4	0.32	56	2.00	250	0.33
N607C2	Meridian silt loam, 6 to 12 percent slopes, moderately eroded	HEL	4	0.32	56	12.00	100	1.80
N607D2	Meridian silt loam, 12 to 18 percent slopes, moderately eroded	HEL	4	0.32	56	12.00	100	1.80
N608A	Malardi loam, 0 to 3 percent slopes	NHEL	3	0.20	56	1.00	250	0.17
N608C2	Malardi loam, 6 to 12 percent slopes, moderately eroded	HEL	3	0.20	56	12.00	100	1.80
N609D	Hawick sandy loam, 12 to 18 percent slopes	HEL	3	0.20	56	12.00	100	1.80
N609E	Hawick sandy loam, 18 to 45 percent slopes	HEL	3	0.10	86	25.00	100	5.89
N610B	Waucoma loam, 2 to 6 percent slopes	NHEL	4	0.32	48	4.00	200	0.53
N611A	Calco silt loam, ponded, 0 to 1 percent slopes, frequently flooded	NHEL	5	0.28	86	0.00	250	0.30
N612A	Calco silt loam, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.28	86	1.00	250	0.17
N613A	Calco-Udifluents, loamy complex, 0 to 18 percent slopes, frequently flooded	NHEL	5	0.28	86	1.00	250	0.17
N614A	Kalmarville-Radford complex, 0 to 3 percent slopes, frequently flooded	NHEL	5	0.28	48	1.00	250	0.17
N615A	Otter silt loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	48	1.00	250	0.17
N616A	Littleton silt loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	48	1.00	250	0.17
N617A	Kennebec silt loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.28	48	1.00	250	0.17
N618A	McPaul silt loam, 0 to 3 percent slopes, frequently flooded	NHEL	5	0.32	86	2.00	250	0.33
N619A	Kennebec-Lawson, channeled, complex, 0 to 3 percent slopes, flooded	NHEL	5	0.32	48	1.00	250	0.17
N620B	Chaseburg silt loam, 2 to 12 percent slopes, frequently flooded	NHEL	5	0.37	56	3.00	200	0.48
N621B	Udifluents, loamy, 2 to 12 percent slopes, frequently flooded	NHEL	4	0.20	56	4.00	200	0.67
N622A	Ankeny-Zumbro complex, 0 to 3 percent slopes, occasionally flooded	NHEL	5	0.15	134	2.00	250	0.33
N623B	Burkhardt sandy loam, 0 to 6 percent slopes	NHEL	3	0.20	86	2.00	200	0.25
N624B	Lilah sandy loam, 0 to 6 percent slopes	NHEL	3	0.20	86	2.00	200	0.25
N624C2	Lilah sandy loam, 6 to 12 percent slopes, moderately eroded	HEL	3	0.20	86	15.00	100	2.56

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N625B	Coloma loamy sand, 0 to 6 percent slopes	NHEL	5	0.15	134	3.00	200	0.48
N626C	Plainfield loamy sand, 6 to 12 percent slopes	PHEL	5	0.17	134	12.00	125	2.02
N626D	Plainfield loamy sand, 12 to 18 percent slopes	PHEL	5	0.17	134	12.00	125	2.02
N627A	Billett fine sandy loam, 0 to 4 percent slopes	NHEL	4	0.24	86	2.00	250	0.33
N628A	Burkhardt sandy loam, very gravelly substratum, 0 to 3 percent slopes	NHEL	3	0.20	56	3.00	300	0.46
N629F	Mt. Carroll and Timula soils, 20 to 40 percent slopes	HEL	5	0.43	86	25.00	100	5.89
N630B	Schapville-Shullsburg complex, 2 to 6 percent slopes	PHEL	4	0.37	48	4.00	200	0.53
N630C2	Schapville-Shullsburg complex, 6 to 12 percent slopes, moderately eroded	PHEL	4	0.32	38	6.00	150	0.82
N631D2	Schapville silt loam, 12 to 18 percent slopes, moderately eroded	HEL	4	0.32	38	14.00	150	2.81
N631E	Schapville silt loam, 18 to 35 percent slopes	HEL	1	0.24	56	25.00	100	5.89
N632G	Brodale, flaggy-Schapville complex, 18 to 80 percent slopes	HEL	1	0.24	56	60.00	200	32.70
N633C2	Massbach silt loam, 6 to 12 percent slopes, moderately eroded	HEL	4	0.37	56	8.00	100	0.99
N633D2	Massbach silt loam, 12 to 18 percent slopes, moderately eroded	HEL	4	0.37	48	14.00	125	2.57
N634E	Massbach-Schapville complex, 18 to 35 percent slopes	HEL	4	0.37	48	20.00	125	4.56
N635B	Frankville-Nasset-Downs complex, 2 to 6 percent slopes	NHEL	4	0.37	48	4.00	200	0.53
N635C2	Frankville-Nasset-Downs complex, 6 to 12 percent slopes, moderately eroded	HEL	4	0.37	56	8.00	100	0.99
N635D2	Frankville-Nasset-Downs complex, 12 to 18 percent slopes, moderately eroded	HEL	4	0.37	48	14.00	125	2.57
N635E	Frankville-Nasset-Downs complex, 18 to 35 percent slopes	HEL	4	0.37	48	20.00	125	4.56
N636A	Houghton muck, ponded, 0 to 1 percent slopes	NHEL	3	0.02	134	0.00	250	0.30
N637B	Klossner muck, seepy, 1 to 8 percent slopes	NHEL	2	0.02	134	4.00	200	0.67
N638G	Brodale, flaggy-Bellechester complex, 30 to 70 percent slopes	HEL	5	0.17	134	60.00	200	32.70
N639F	Frontenac-Lacrescent complex, 20 to 45 percent slopes	HEL	4	0.32	48	55.00	200	29.00
N639G	Frontenac-Lacrescent complex, 30 to 70 percent slopes	HEL	4	0.32	48	55.00	200	29.00
N640G	Lacrescent, flaggy-Frontenac-Rock outcrop complex, 45 to 90 percent slopes	HEL	4	0.32	48	55.00	200	29.00
N641F	Brodale channery loam, 20 to 45 percent slopes, flaggy	HEL	5	0.17	56	25.00	100	5.89
N642E	Frankville-Nasset complex, Oneota formation, 18 to 35 percent slopes	HEL	4	0.37	48	20.00	125	4.56
N643B	Port Byron-Dinsmore complex, 2 to 6 percent slopes	NHEL	5	0.32	48	4.00	200	0.53
N643C2	Port Byron-Dinsmore complex, 6 to 12 percent slopes, moderately eroded	HEL	5	0.32	48	7.00	150	1.01
N644A	Abscota loamy sand, 0 to 3 percent slopes, occasionally flooded	NHEL	5	0.17	134	2.00	250	0.33

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1003	Anthroportic Udorthents-Pits-Dumps complex, abandoned, 2 to 45 percent slopes	PHEL	5	0.28	48	8.00	100	0.99
1007	Udorthents, Udorthents sanitary landfill	NHEL						
1010	Pits, limestone quarry	NHEL						
1027A	Coland-Spillville complex, 0 to 2 percent slopes, flooded	NHEL	5	0.20	86	1.00	250	0.17
1030	Pits, sand and gravel							
1033A	Spillville loam, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.32	48	1.00	250	0.17
1036A	Udipsamments, 0 to 2 percent slopes, frequently flooded	NHEL	5	0.15	310	1.00	250	0.17
1038	Udorthents, earthen dam	NHEL						
1078	Anthrportic Udorthents, sanitary landfill							
W	Water							
WL	Water, waste lagoon							