Wayne County, Iowa
Print date: 11/30/2016
Physical Soil Properties

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Organic matter	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodibility group	Wind erodibility index
	In	Pct	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct					
13B:														
Zook, occasionally flooded	0-8	1- 7- 11	46-59- 67	32-34- 45		1.22-1.34	1.00-10.00	0.21-0.23	3.7-7.9	5.0-7.0	.32	.32	5	6 48
	8-20	1- 7- 11	44-57- 67	32-36- 45		1.21-1.28	0.10-1.00	0.21-0.23	3.7-7.9	5.0-7.0	.32	.32		
	20-38	1- 7- 11	44-52- 65	32-41- 45		1.24-1.30	0.01-0.10	0.11-0.13	4.5-8.9	2.0-4.0	.32	.32		
	38-52	1- 8- 11	44-54- 63	36-38- 45		1.20-1.37	0.10-1.00	0.18-0.20	6.4-8.9	2.0-4.0	.32	.32		
	52-61	1- 9- 11	44-57- 63	29-34- 45		1.27-1.37	0.10-1.00	0.18-0.20	3.3-8.9	2.0-4.0	.37	.37		
	61-79	1- 9- 11	44-59- 69	20-32- 45		1.38-1.46	0.10-1.00	0.18-0.20	2.0-8.5	0.0-1.0	.43	.43		
Vesser, occasionally flooded	0-8	8-11- 20	59-66- 70	20-23- 33		1.31-1.40	1.00-10.00	0.20-0.24	2.5-5.0	2.0-5.0	.32	.32	5	6 48
	8-15	8-11- 20	59-66- 70	20-23- 28		1.30-1.39	1.00-10.00	0.20-0.24	2.5-4.0	2.0-3.0	.37	.37		
	15-31	10-10- 20	62-70- 72	18-20- 27		1.44-1.47	1.00-10.00	0.18-0.22	1.9-3.7	1.0-2.0	.49	.49		
	31-66	10-11- 20	50-57- 60	30-32- 35		1.45-1.53	1.00-10.00	0.17-0.21	3.7-5.2	0.0-1.0	.43	.43		
	66-79	10-11- 20	50-57- 60	30-32- 35		1.41-1.44	1.00-10.00	0.17-0.21	3.7-5.1	0.0-0.5	.43	.43		
23C:														
Arispe	0-8	0- 4- 8	54-63- 72	28-33- 38		1.39-1.43	1.00-10.00	0.18-0.21	3.7-7.0	3.0-4.0	.28	.28	5	6 48
	8-13	0- 4- 8	54-62- 72	28-34- 38		1.29-1.37	1.00-10.00	0.21-0.23	3.7-7.0	2.0-3.0	.32	.32		
	13-53	0- 3- 5	54-58- 62	38-39- 42		1.38-1.43	0.10-1.00							

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|0.18-0.20| 6.6-7.8 | 0.5-1.0 | .37 | .37 |   |      |
 ---------------------| 53-79 | 0- 3-  5|60-67- 76|24-30- 35|1.36-1.39| 1.00-10.00
|0.18-0.20| 2.6-5.9 | 0.0-0.5 | .49 | .49 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
23C2:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Arispe---------------|  0-8  | 0- 4-  8|54-63- 72|28-33- 38|1.40-1.43| 1.00-10.00
|0.18-0.22| 3.7-7.0 | 2.0-3.5 | .37 | .37 | 5 |  6   |  48
 ---------------------|  8-49 | 0- 3-  5|54-58- 62|38-39- 42|1.38-1.43| 0.10-1.00
|0.18-0.20| 6.6-7.8 | 0.5-1.0 | .37 | .37 |   |      |
 ---------------------| 49-79 | 0- 3-  5|60-67- 76|24-30- 35|1.36-1.39| 1.00-10.00
|0.18-0.20| 2.6-5.9 | 0.0-0.5 | .49 | .49 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
24D:                  |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Shelby---------------|  0-10 |30-44- 47|28-31- 45|19-25- 27|1.50-1.55| 4.00-14.00
|0.15-0.20| 1.6-3.6 | 2.0-4.0 | .24 | .24 | 5 |  6   |  48
 ---------------------| 10-38 |20-34- 45|28-33- 53|27-33- 35|1.55-1.65| 1.40-4.00
|0.12-0.18| 2.8-5.1 | 0.0-1.0 | .28 | .28 |   |      |
 ---------------------| 38-60 |20-34- 40|30-34- 50|24-32- 35|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 60-79 |20-36- 45|28-34- 53|27-30- 35|1.55-1.65| 1.40-4.00
|0.15-0.18| 2.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
24D2:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Shelby, moderately   |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-7  |20-35- 45|28-34- 53|27-31- 35|1.50-1.55| 1.00-10.00
|0.16-0.18| 3.3-5.1 | 1.5-3.0 | .28 | .28 | 5 |  6   |  48
 ---------------------|  7-49 |20-34- 45|28-33- 53|27-33- 35|1.55-1.65| 1.40-4.00
|0.12-0.18| 2.8-5.1 | 0.0-1.0 | .28 | .28 |   |      |
 ---------------------| 49-60 |20-34- 40|30-34- 50|24-32- 35|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 60-79 |20-36- 45|28-34- 53|27-30- 35|1.55-1.65| 1.40-4.00
|0.15-0.18| 2.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
Physical Soil Properties
_____________________________________________________________________________________________
_____________________________________________________________
                      |       |         |         |         |         |            |
        |         |        |Erosion factors|Wind  |Wind
      Map symbol      | Depth |   Sand  |   Silt  |   Clay  |  Moist  |  Saturated
|Available|  Linear | Organic |_______________|erodi-|erodi-
     and soil name    |       |         |         |         |   bulk  |  hydraulic |
 water  | extensi-|  matter |     |     |   |bility|bility
                      |       |         |         |         | density |conductivity|
capacity|  bility |        |  Kw |  Kf | T |group |index
_____________________|_______|_________|_________|_________|_________|____________|
_________|_________|_________|_____|_____|___|______|______
                      |  In   | Pct     | Pct     | Pct     |  g/cc   |  um/sec    |
 In/in  |  Pct    |  Pct    |     |     |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
24D3:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Shelby, severely     |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-5  |20-35- 45|21-34- 53|27-31- 35|1.50-1.55| 1.00-10.00
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|0.16-0.18| 3.3-5.1 | 1.0-2.0 | .28 | .28 | 4 |  6   |  48
 ---------------------|  5-38 |20-34- 45|28-33- 53|27-33- 35|1.55-1.65| 1.40-4.00
|0.12-0.18| 2.8-5.1 | 0.0-1.0 | .28 | .28 |   |      |
 ---------------------| 38-60 |20-34- 40|30-34- 50|24-32- 35|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 60-79 |20-36- 45|28-34- 53|27-30- 35|1.55-1.65| 1.40-4.00
|0.15-0.18| 2.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
24E:                  |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Shelby---------------|  0-10 |30-44- 47|28-31- 45|19-25- 27|1.50-1.55| 4.00-14.00
|0.15-0.20| 1.6-3.6 | 2.0-4.0 | .24 | .24 | 5 |  6   |  48
 ---------------------| 10-38 |20-34- 45|28-32- 53|27-34- 35|1.55-1.65| 1.40-4.00
|0.12-0.18| 2.8-5.1 | 0.0-1.0 | .28 | .28 |   |      |
 ---------------------| 38-60 |20-34- 40|30-33- 50|24-33- 35|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 60-79 |20-36- 45|28-34- 53|27-30- 35|1.55-1.65| 1.40-4.00
|0.15-0.18| 2.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
24E2:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Shelby, moderately   |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  eroded--------------|  0-7  |20-35- 45|20-34- 53|27-31- 35|1.50-1.55| 1.00-10.00
|0.16-0.18| 3.3-5.1 | 1.0-3.0 | .28 | .28 | 5 |  6   |  48
 ---------------------|  7-38 |20-34- 45|28-32- 53|27-34- 35|1.55-1.65| 1.40-4.00
|0.12-0.18| 2.8-5.1 | 0.0-1.0 | .28 | .28 |   |      |
 ---------------------| 38-60 |20-34- 40|30-33- 50|24-33- 35|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 60-79 |20-36- 45|28-34- 53|27-30- 35|1.55-1.65| 1.40-4.00
|0.15-0.18| 2.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
24E3:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Shelby, severely     |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  eroded--------------|  0-5  |20-35- 45|21-34- 53|27-31- 35|1.40-1.45| 1.00-10.00
|0.16-0.18| 3.3-5.1 | 1.0-2.0 | .28 | .28 | 4 |  6   |  48
 ---------------------|  5-38 |20-34- 45|28-33- 53|27-33- 35|1.31-1.56| 1.40-4.00
|0.12-0.18| 2.8-5.1 | 0.0-1.0 | .28 | .28 |   |      |
 ---------------------| 38-60 |20-34- 40|30-34- 50|24-32- 35|1.48-1.56| 1.40-4.00
|0.12-0.16| 2.4-4.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 60-79 |20-36- 45|28-34- 53|27-30- 35|1.42-1.58| 1.40-4.00
|0.15-0.18| 2.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
24F2:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Shelby, moderately   |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  eroded--------------|  0-8  |20-33- 45|20-37- 55|24-31- 35|1.45-1.55| 1.00-10.00
|0.17-0.19| 3.0-5.9 | 2.0-3.0 | .28 | .28 | 5 |  6   |  48
 ---------------------|  8-42 |20-33- 45|17-34- 50|30-34- 38|1.50-1.60| 1.00-10.00
|0.15-0.17| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 42-56 |20-33- 45|19-37- 55|25-31- 36|1.55-1.65| 1.00-10.00
|0.14-0.19| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 56-80 |30-33- 50|21-37- 45|25-31- 36|1.60-1.70| 1.00-10.00
|0.14-0.19| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
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51:

Vesser, occasionally flooded

| | | |

	61-79	1- 9- 11	44-59- 69	20-32- 45	1.38-1.46	0.10-1.00	0.18-0.20	2.0-8.5	0.0-1.0	.43	.43		
54B:													
Zook, rarely flooded	0-8	1- 7- 11	46-59- 67	32-34- 45	1.22-1.34	1.00-10.00	0.21-0.23	3.7-7.9	5.0-7.0	.32	.32	5	6	48
	8-20	1- 7- 11	44-57- 67	32-36- 45	1.21-1.28	0.10-1.00	0.21-0.23	3.7-7.9	5.0-7.0	.32	.32			
	20-38	1- 7- 11	44-52- 65	32-41- 45	1.24-1.30	0.01-0.10	0.11-0.13	4.5-8.9	2.0-4.0	.32	.32			
	38-52	1- 8- 11	44-54- 63	36-38- 45	1.20-1.37	0.10-1.00	0.18-0.20	6.4-8.9	2.0-4.0	.32	.32			
	52-61	1- 9- 11	44-57- 63	29-34- 45	1.27-1.37	0.10-1.00	0.18-0.20	3.3-8.9	2.0-4.0	.37	.37			
	61-79	1- 9- 11	44-59- 69	20-32- 45	1.38-1.46	0.10-1.00	0.18-0.20	2.0-8.5	0.0-1.0	.43	.43			
65G:													
Lindley	0-2	35-40- 52	30-37- 46	18-23- 27	1.44-1.48	4.20-14.00	0.20-0.22	0.9-1.9	1.0-3.0	.24	.24	5	6	48
	2-5	35-40- 52	30-37- 46	18-23- 27	1.57-1.61	4.20-14.00	0.19-0.21	0.7-1.7	0.3-1.0	.37	.37			
	5-10	35-40- 52	30-37- 46	18-23- 27	1.57-1.61	4.00-14.00	0.19-0.21	0.7-1.7	0.3-1.0	.37	.37			
	10-38	22-39- 51	15-28- 48	24-33- 35	1.35-1.55	1.40-4.20	0.15-0.17	2.7-5.2	0.1-1.0	.28	.28			
	38-79	22-40- 51	17-30- 51	20-30- 32	1.46-1.64	1.40-4.20	0.14-0.16	2.1-4.5	0.1-0.5	.28	.28			
93D2:													
Shelby, moderately eroded	0-8	20-33- 45	20-37- 55	24-31- 35	1.45-1.55	1.00-10.00	0.17-0.19	3.0-5.9	2.0-3.0	.28	.28	5	6	48
	8-42	20-33- 45	17-34- 50	30-34- 38	1.50-1.60	1.00-10.00	0.15-0.17	3.0-5.9	0.0-0.5	.32	.32			
	42-56	20-33- 45	19-37- 55	25-31- 36	1.55-1.65	1.00-10.00	0.14-0.19	3.0-5.9	0.0-0.5	.32	.32			
	56-80	30-33- 50	21-37- 45	25-31- 36	1.60-1.70	1.00-10.00	0.14-0.19	3.0-5.9	0.0-0.5	.32	.32			
Adair, moderately eroded	0-8	15-30- 30	40-42- 53	24-28- 30	1.50-1.55	1.00-10.00	0.20-0.22	3.0-5.9	2.0-3.0	.32	.32	3	6	48
	8-17	15-25- 35	5-26- 47	38-49- 60	1.25-1.40	0.01-0.10	0.09-0.11	6.0-11.2	0.5-1.0	.24	.24			
	17-51	15-25- 35	16-41- 55	30-34- 60	1.50-1.60	1.00-10.00	0.15-0.17	3.0-5.9	0.0-0.5	.32	.32			
	51-68	20-33- 45	17-34- 50	30-34- 38	1.55-1.65	1.00-10.00	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
	68-80	20-33- 45	17-34- 50	30-34- 38	1.60-1.70	1.00-10.00	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			

Map symbol and soil name	Depth	Organic matter	Erosion factors Sand Kw	Silt Kf	Clay T	Wind erodibility group	Wind erodibility index	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility
	In	Pct	Pct	Pct	Pct			g/cc	um/sec	In/in	Pct
93D3:											
Shelby, severely eroded	0-8	1.0-2.0	20-33-45	.32	20-37-55	.32	4	24-31-35	6	1.45-1.55	1.00-10.00	0.17-0.19	3.0-5.9
	8-34	0.0-0.5	20-33-45	.32	17-34-50	.32		30-34-38		1.50-1.60	1.00-10.00	0.15-0.17	3.0-5.9
	34-48	0.0-0.5	20-33-45	.32	19-37-55	.32		25-31-36		1.55-1.65	1.00-10.00	0.14-0.19	3.0-5.9
	48-80	0.0-0.5	30-33-50	.32	21-37-45	.32		25-31-36		1.60-1.70	1.00-10.00	0.14-0.19	3.0-5.9
Adair, severely eroded	0-8	1.0-2.0	15-25-30	.37	36-44-55	.37	2	28-31-34	6	1.25-1.35	1.00-10.00	0.21-0.23	3.2-5.8
	8-12	6.7-13.7	15-25-35	.24	5-26-47	.24		38-49-60		1.55-1.60	0.01-0.10	0.13-0.16	6.7-13.7
	12-51	0.0-0.5	15-25-35	.32	27-41-55	.32		30-34-38		1.50-1.60	1.00-10.00	0.15-0.17	3.0-5.9
	51-68	0.0-0.5	20-33-45	.32	17-34-50	.32		30-34-38		1.55-1.65	1.00-10.00	0.14-0.16	3.0-5.9
	68-80	0.0-0.5	20-33-45	.32	17-34-50	.32		30-34-38		1.60-1.70	1.00-10.00	0.14-0.16	3.0-5.9
131B:											
Pershing	0-7	2.0-3.5	4-5-30	.43	50-73-76	.43	5	20-22-27	6	1.30-1.40	1.00-10.00	0.22-0.24	2.2-3.5
	7-12	0.0-1.0	1-14-20	.49	47-56-72	.49		27-30-33		1.30-1.40	1.00-10.00	0.20-0.22	3.1-4.7
	12-55	0.0-0.5	1-7-15	.37	46-52-72	.37		27-41-48		1.35-1.45	0.01-0.10	0.18-0.20	3.1-10.0
	55-79	0.0-0.5	1-12-20	.43	48-58-75	.43		24-30-40		1.35-1.50	1.00-10.00	0.18-0.20	2.6-7.1
131C:											
Pershing	0-7	2.0-4.0	4-5-30	.43	50-73-76	.43	5	20-22-27	6	1.30-1.40	1.00-10.00	0.22-0.24	2.2-3.5
	7-12	0.0-1.0	1-14-20	.49	47-56-72	.49		27-30-33		1.30-1.40	1.00-10.00	0.20-0.22	3.1-4.7
	12-55		1-7-15		46-52-72			27-41-48		1.35-1.45	0.01-0.10		

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|0.18-0.20| 3.1-10.0| 0.0-0.5 | .37 | .37 |   |      |
 ---------------------| 55-79 | 1-12- 20|48-58- 75|24-30- 40|1.35-1.50| 1.00-10.00
|0.18-0.20| 2.6-7.1 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
131C2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Pershing, moderately |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-4  | 0- 3-  5|61-69- 76|24-28- 35|1.37-1.39| 1.00-10.00
|0.22-0.24| 2.9-6.2 | 2.0-3.0 | .49 | .49 | 5 |  6   |  48
 ---------------------|  4-12 | 0- 3-  5|60-66- 72|27-31- 35|1.35-1.40| 1.00-10.00
|0.20-0.22| 3.4-6.0 | 0.5-1.0 | .49 | .49 |   |      |
 ---------------------| 12-55 | 1- 3-  4|48-56- 64|35-41- 48|1.38-1.43| 0.01-0.10
|0.18-0.20| 5.4-9.2 | 0.0-0.5 | .43 | .43 |   |      |
 ---------------------| 55-79 | 1- 3-  4|61-65- 72|24-32- 35|1.37-1.40| 1.00-10.00
|0.18-0.20| 2.6-5.9 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
133:                  |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Colo, occasionally   |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  flooded-------------|  0-8  | 1- 6- 25|44-64- 73|22-30- 35|1.18-1.38| 1.00-10.00
|0.21-0.23| 1.9-4.0 | 3.0-7.0 | .28 | .28 | 5 |  6   |  48
 ---------------------|  8-34 | 0- 6- 19|48-63- 73|24-31- 35|1.18-1.29| 1.00-10.00
|0.18-0.20| 3.2-5.5 | 2.0-5.7 | .32 | .32 |   |      |
 ---------------------| 34-46 | 1- 4- 15|50-63- 69|30-33- 35|1.33-1.38| 1.00-10.00
|0.18-0.20| 4.2-5.4 | 1.0-3.6 | .37 | .37 |   |      |
 ---------------------| 46-52 | 2- 5- 10|58-63- 66|29-32- 35|1.32-1.44| 1.00-10.00
|0.18-0.20| 4.0-5.3 | 0.7-2.0 | .43 | .43 |   |      |
 ---------------------| 52-79 | 1- 6- 27|41-64- 72|24-30- 35|1.40-1.41| 1.00-10.00
|0.18-0.20| 3.0-5.3 | 0.5-1.9 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
133B:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Colo, rarely flooded-|  0-8  | 2- 7- 25|46-62- 71|27-32- 35|1.28-1.32| 1.00-10.00
|0.21-0.23| 3.0-5.9 | 5.0-7.0 | .28 | .28 | 5 |  6   |  48
 ---------------------|  8-40 | 2- 7- 25|47-61- 68|30-33- 35|1.25-1.35| 1.00-10.00
|0.18-0.20| 3.0-5.9 | 3.0-4.0 | .37 | .37 |   |      |
 ---------------------| 40-46 | 0- 7- 15|51-61- 70|30-33- 35|1.25-1.35| 1.00-10.00
|0.18-0.20| 3.0-5.9 | 3.0-4.0 | .37 | .37 |   |      |
 ---------------------| 46-52 | 0- 7- 15|51-63- 75|25-30- 35|1.35-1.45| 1.00-10.00
|0.18-0.20| 2.6-5.8 | 1.0-2.0 | .43 | .43 |   |      |
 ---------------------| 52-60 | 5- 7- 30|48-67- 73|22-26- 35|1.35-1.45| 1.00-10.00
|0.18-0.20| 2.6-5.8 | 1.0-2.0 | .43 | .43 |   |      |
Physical Soil Properties
_____________________________________________________________________________________
_____________________________________________________________
                      |       |         |         |         |         |            |
        |         |        |Erosion factors|Wind  |Wind
      Map symbol      | Depth |   Sand  |   Silt  |   Clay  |  Moist  |  Saturated
|Available|  Linear | Organic |_______________|erodi-|erodi-
     and soil name    |       |         |         |         |   bulk  |  hydraulic |
 water  | extensi-|  matter |     |     |   |bility|bility
                      |       |         |         |         | density |conductivity|
capacity|  bility |         |  Kw |  Kf | T |group |index
_____________________|_______|_________|_________|_________|_________|____________|
_________|_________|_________|_____|_____|___|______|______
                      |  In   | Pct     | Pct     | Pct     |  g/cc   |  um/sec    |
 In/in  |  Pct    |  Pct    |     |     |   |      |
                      |       |         |         |         |         |            |
```

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        |         |         |     |     |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
172:                  |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Wabash, occasionally |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  flooded-------------|  0-8  | 1- 3-  5|35-47- 59|40-50- 60|1.25-1.40| 0.01-0.10
|0.12-0.14| 9.0-11.9| 4.0-6.0 | .20 | .20 | 5 |  4   |  86
 ---------------------|  8-19 | 1- 8- 15|26-43- 59|40-50- 60|1.25-1.40| 0.01-0.10
|0.11-0.13| 9.0-11.9| 2.0-4.0 | .28 | .28 |   |      |
 ---------------------| 19-60 | 1- 8- 15|26-43- 59|40-50- 60|1.25-1.40| 0.01-0.10
|0.10-0.12| 9.0-11.9| 1.0-2.0 | .28 | .28 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
179D:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Gara----------------|  0-7  |23-34- 50|28-42- 50|12-24- 27|1.32-1.42| 4.00-14.00
|0.18-0.21| 1.1-3.7 | 2.0-3.5 | .28 | .28 | 5 |  6   |  48
 ---------------------|  7-10 |40-50- 52|30-32- 40|15-18- 27|1.42-1.52| 4.00-14.00
|0.18-0.21| 1.4-3.6 | 1.0-3.0 | .37 | .37 |   |      |
 ---------------------| 10-31 |20-34- 40|26-33- 50|25-33- 35|1.36-1.54| 0.40-1.40
|0.13-0.16| 2.5-5.1 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 31-40 |20-34- 40|26-33- 50|25-33- 35|1.36-1.54| 0.40-1.40
|0.13-0.16| 2.5-5.1 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 40-79 |20-34- 40|30-34- 50|24-32- 38|1.46-1.55| 1.40-4.00
|0.12-0.16| 2.4-5.5 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
179D2:                |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Gara, moderately     |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  eroded-------------|  0-6  |40-50- 52|30-32- 40|15-18- 27|1.46-1.48| 4.00-14.00
|0.18-0.21| 2.0-5.9 | 2.0-3.0 | .28 | .28 | 5 |  5   |  56
 ---------------------|  6-31 |20-34- 40|26-33- 50|25-33- 35|1.36-1.55| 0.40-1.40
|0.13-0.16| 2.4-5.9 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 31-40 |20-34- 40|26-33- 50|25-33- 35|1.36-1.56| 0.40-1.40
|0.13-0.16| 2.4-5.9 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 40-79 |20-34- 40|30-34- 50|24-32- 38|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
179E:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Gara----------------|  0-7  |40-50- 52|30-32- 40|15-18- 27|1.46-1.48| 4.00-14.00
|0.18-0.21| 2.0-5.9 | 2.0-3.0 | .28 | .28 | 5 |  5   |  56
 ---------------------|  7-10 |40-50- 52|30-32- 40|15-18- 27|1.46-1.48| 4.00-14.00
|0.18-0.21| 2.0-5.9 | 2.0-3.0 | .28 | .28 |   |      |
 ---------------------| 10-31 |20-34- 40|26-33- 50|25-33- 35|1.36-1.55| 0.40-1.40
|0.13-0.16| 2.4-5.9 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 31-40 |20-34- 40|26-33- 50|25-33- 35|1.36-1.56| 0.40-1.40
|0.13-0.16| 2.4-5.9 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 40-79 |20-34- 40|30-34- 50|24-32- 38|1.38-1.52| 1.40-4.00
|0.12-0.16| 3.1-5.7 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
179E2:                |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Gara, moderately     |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  eroded-------------|  0-6  |40-50- 52|30-32- 40|15-18- 27|1.46-1.48| 4.00-14.00
|0.18-0.21| 2.0-5.9 | 2.0-3.0 | .28 | .28 | 5 |  5   |  56
```

	6-31	20-34- 40	26-33- 50	25-33- 35	1.36-1.55	0.40-1.40	0.13-0.16	2.4-5.9	0.0-1.0	.32	.32	
	31-40	20-34- 40	26-33- 50	25-33- 35	1.36-1.56	0.40-1.40	0.13-0.16	2.4-5.9	0.0-1.0	.32	.32	
	40-79	20-34- 40	30-34- 50	24-32- 38	1.38-1.52	1.40-4.00	0.12-0.16	3.1-5.7	0.0-0.5	.32	.32	
179E3:												
Gara, severely eroded	0-8	20-35- 50	15-34- 53	27-31- 35	1.50-1.55	1.00-10.00	0.16-0.18	3.0-5.9	1.0-2.0	.28	.28	4	6	48
	8-38	20-35- 45	20-33- 50	27-32- 35	1.55-1.75	1.00-10.00	0.13-0.16	3.0-5.9	0.0-0.5	.32	.32	
	38-80	20-35- 45	20-34- 52	24-31- 35	1.65-1.75	1.00-10.00	0.13-0.18	3.0-5.9	0.0-0.5	.32	.32	
179F:												
Gara	0-7	23-34- 50	28-42- 50	12-24- 27	1.32-1.42	4.00-14.00	0.18-0.21	1.1-3.7	2.0-3.5	.28	.28	5	6	48
	7-10	40-50- 52	30-32- 40	15-18- 27	1.42-1.52	4.00-14.00	0.18-0.21	1.4-3.6	1.0-3.0	.37	.37	
	10-31	20-34- 40	26-33- 50	25-33- 35	1.36-1.54	0.40-1.40	0.13-0.16	2.5-5.1	0.0-1.0	.32	.32	
	31-40	20-34- 45	20-33- 53	27-33- 35	1.31-1.60	0.40-1.40	0.16-0.18	2.8-5.1	0.0-1.0	.32	.32	
	40-79	20-34- 40	30-34- 50	24-32- 38	1.46-1.55	1.40-4.00	0.12-0.16	2.4-5.5	0.0-0.5	.32	.32	

Physical Soil Properties

Map symbol and soil name	Depth	Erosion factors Sand	Silt	Clay	Wind erodibility group	Wind erodibility index	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Kw	Kf	T
	In	Pct	Pct	Pct			g/cc	um/sec	In/in	Pct	Pct			
179F2:														
Gara, moderately eroded	0-6	40-50- 52	30-32- 40	15-18- 27	1.46-1.48	4.00-14.00	0.18-0.21	2.0-5.9	2.0-3.0	.28	.28	5	5	56
	6-31	20-34- 40	26-33- 50	25-33- 35	1.36-1.55	0.40-1.40	0.13-0.16	2.4-5.9	0.0-1.0	.32	.32	
	31-40	20-34- 40	26-33- 50	25-33- 35	1.36-1.56	0.40-1.40	0.13-0.16	2.4-5.9	0.0-1.0	.32	.32	
	40-79	20-34- 40	30-34- 50	24-32- 38	1.38-1.52	1.40-4.00	0.12-0.16	3.1-5.7	0.0-0.5	.32	.32	

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192C:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Adair----------------|  0-8  |15-30- 30|43-45- 54|24-26- 27|1.50-1.55| 1.00-10.00
|0.20-0.22| 3.0-5.9 | 3.0-4.0 | .32 | .32 | 3 |  6   |  48
 ---------------------|  8-13 |15-30- 30|30-32- 47|24-39- 40|1.55-1.60| 1.00-10.00
|0.13-0.16| 6.0-8.9 | 2.0-3.0 | .24 | .24 |   |      |
 ---------------------| 13-28 |15-25- 35| 5-26- 47|38-49- 60|1.25-1.40| 0.01-0.10
|0.09-0.11| 6.0-11.2| 0.5-1.0 | .24 | .24 |   |      |
 ---------------------| 28-51 |20-34- 45|17-32- 49|30-34- 38|1.60-1.70| 1.00-10.00
|0.14-0.16| 4.2-6.7 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 51-68 |20-33- 45|17-34- 50|30-34- 38|1.55-1.65| 1.00-10.00
|0.14-0.16| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 68-80 |20-33- 45|17-34- 50|30-34- 38|1.60-1.70| 1.00-10.00
|0.14-0.16| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
192C2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Adair, moderately    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-8  |15-21- 30|30-48- 60|25-31- 40|1.37-1.41| 0.10-1.00
|0.17-0.19| 2.8-7.5 | 2.0-3.0 | .37 | .37 | 3 |  6   |  48
 ---------------------|  8-17 |15-25- 35| 5-26- 47|38-49- 60|1.33-1.47| 0.10-1.00
|0.09-0.11| 5.8-12.7| 0.5-1.0 | .24 | .24 |   |      |
 ---------------------| 17-51 |20-25- 35|27-41- 49|30-34- 40|1.45-1.56| 0.10-1.00
|0.14-0.16| 3.2-7.1 | 0.0-0.5 | .37 | .37 |   |      |
 ---------------------| 51-68 |20-33- 45|17-34- 50|30-34- 38|1.41-1.49| 0.10-1.00
|0.14-0.16| 3.2-6.6 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 68-79 |20-33- 45|17-34- 50|30-34- 38|1.41-1.49| 0.10-1.00
|0.14-0.16| 3.2-6.6 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
192D:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Adair----------------|  0-8  |15-30- 30|43-45- 54|24-26- 27|1.50-1.55| 1.00-10.00
|0.20-0.22| 3.0-5.9 | 3.0-4.0 | .32 | .32 | 3 |  6   |  48
 ---------------------|  8-13 |15-30- 30|30-32- 47|24-39- 40|1.55-1.60| 1.00-10.00
|0.13-0.16| 6.0-8.9 | 2.0-3.0 | .24 | .24 |   |      |
 ---------------------| 13-28 |15-25- 35| 5-26- 47|38-49- 60|1.25-1.40| 0.01-0.10
|0.09-0.11| 6.0-11.2| 0.5-1.0 | .24 | .24 |   |      |
 ---------------------| 28-51 |20-34- 45|17-32- 49|30-34- 38|1.60-1.70| 1.00-10.00
|0.14-0.16| 4.2-6.7 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 51-68 |20-33- 45|17-34- 50|30-34- 38|1.55-1.65| 1.00-10.00
|0.14-0.16| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 68-80 |20-33- 45|17-34- 50|30-34- 38|1.60-1.70| 1.00-10.00
|0.14-0.16| 3.0-5.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
192D2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Adair, moderately    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-8  |15-21- 30|30-48- 60|25-31- 40|1.37-1.41| 0.10-1.00
|0.17-0.19| 2.8-7.5 | 2.0-3.0 | .37 | .37 | 3 |  6   |  48
 ---------------------|  8-17 |15-25- 35| 5-26- 47|38-49- 60|1.33-1.47| 0.10-1.00
|0.09-0.11| 5.8-12.7| 0.5-1.0 | .24 | .24 |   |      |
 ---------------------| 17-51 |20-25- 35|27-41- 49|30-34- 40|1.45-1.56| 0.10-1.00
|0.14-0.16| 3.2-7.1 | 0.0-0.5 | .37 | .37 |   |      |
 ---------------------| 51-68 |20-33- 45|17-34- 50|30-34- 38|1.41-1.49| 0.10-1.00
|0.14-0.16| 3.2-6.6 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 68-79 |20-33- 45|17-34- 50|30-34- 38|1.41-1.49| 0.10-1.00
|0.14-0.16| 3.2-6.6 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
```

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        |         |         |     |     |   |      |
222C:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Clarinda-------------|  0-8  | 0- 4-  6|56-64- 73|27-32- 38|1.45-1.50| 1.00-10.00
|0.16-0.20| 3.4-7.0 | 2.0-3.5 | .37 | .37 | 3 |  6   |  48
 ---------------------|  8-11 | 0- 5-  7|55-62- 73|27-33- 38|1.45-1.50| 1.00-10.00
|0.16-0.20| 3.4-7.0 | 2.0-3.5 | .43 | .43 |   |      |
 ---------------------| 11-19 | 0- 8- 12|33-45- 60|40-47- 55|1.50-1.65| 0.01-0.10
|0.10-0.14| 6.3-11.1| 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 19-67 | 0- 7- 12|28-40- 57|40-53- 60|1.50-1.65| 0.01-0.10
|0.08-0.14| 6.3-12.5| 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 67-79 | 0- 8- 12|38-47- 60|40-45- 50|1.50-1.65| 0.01-0.10
|0.11-0.14| 5.7-9.7 | 0.0-0.5 | .37 | .37 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
Physical Soil Properties
_____________________________________________________________________________________
_____________________________________________________________
                      |       |         |         |         |         |            |
        |         |         |Erosion factors|Wind  |Wind
      Map symbol      | Depth |   Sand  |   Silt  |   Clay  |  Moist  |  Saturated
|Available|  Linear | Organic |_______________|erodi-|erodi-
     and soil name    |       |         |         |         |   bulk  |  hydraulic |
 water  | extensi-|  matter |     |     |   |bility|bility
                      |       |         |         |         | density |conductivity|
capacity|  bility |         |  Kw |  Kf | T |group |index
_____________________|_______|_________|_________|_________|_________|____________|
_________|_________|_________|_____|_____|___|______|______
                      |  In   | Pct     | Pct     | Pct     |  g/cc   |  um/sec    |
 In/in  |  Pct    |  Pct    |     |     |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
222C2:                |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Clarinda, moderately |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  eroded-------------|  0-8  | 0- 5-  6|56-62- 73|27-33- 38|1.36-1.42| 1.00-10.00
|0.16-0.20| 3.4-7.0 | 2.0-3.0 | .43 | .43 | 3 |  6   |  48
 ---------------------|  8-16 | 0- 8- 12|33-45- 60|40-47- 55|1.30-1.45| 0.01-0.10
|0.10-0.14| 6.3-11.1| 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 16-67 | 0- 7- 12|28-40- 57|40-53- 60|1.28-1.36| 0.01-0.10
|0.08-0.14| 6.3-12.5| 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 67-79 | 0- 8- 12|38-47- 60|40-45- 50|1.43-1.48| 0.01-0.10
|0.11-0.14| 6.3-9.7 | 0.0-0.5 | .37 | .37 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
222C3:                |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Clarinda-------------|  0-8  | 0- 5- 15|38-53- 60|40-42- 55|1.38-1.41| 0.01-0.10
|0.08-0.12| 6.9-11.5| 0.5-2.0 | .37 | .37 | 2 |  4   |  86
 ---------------------|  8-12 | 0- 8- 15|30-45- 60|40-47- 55|1.39-1.45| 0.01-0.10
|0.08-0.12| 6.3-11.1| 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 12-60 | 0- 8- 15|25-39- 57|40-53- 60|1.26-1.36| 0.01-0.10
|0.08-0.10| 6.3-12.5| 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 60-79 | 0- 8- 15|35-47- 50|40-45- 50|1.33-1.48| 0.01-0.10
|0.08-0.10| 6.3-9.7 | 0.0-0.5 | .37 | .37 |   |      |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
222D2:                |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Clarinda-------------|  0-8  | 0- 5-  6|56-62- 73|27-33- 38|1.36-1.42| 1.00-10.00
|0.14-0.16| 3.4-7.0 | 2.0-3.0 | .43 | .43 | 3 |  6   |  48
 ---------------------|  8-16 | 0- 8- 12|33-45- 60|40-47- 55|1.30-1.45| 0.01-0.10
```

```
|0.11-0.14| 6.3-11.1| 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 16-67 | 0- 7- 12|28-40- 57|40-53- 60|1.28-1.36| 0.01-0.10
|0.09-0.14| 6.3-12.5| 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 67-79 | 0- 8- 12|38-47- 60|40-45- 50|1.43-1.48| 0.01-0.10
|0.11-0.14| 6.3-9.7 | 0.0-0.5 | .37 | .37 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
223C2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Rinda, moderately    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-9  | 0- 7- 15|47-60- 60|30-33- 40|1.45-1.50| 1.00-10.00
|0.18-0.20| 4.1-7.7 | 2.0-3.0 | .32 | .32 | 3 |  6   |  48
 ---------------------|  9-16 | 0- 5- 15|40-60- 70|30-35- 56|1.45-1.50| 0.10-1.00
|0.15-0.20| 3.9-11.6| 0.5-1.0 | .43 | .43 |   |      |
 ---------------------| 16-79 | 0-14- 21|25-42- 60|40-44- 60|1.30-1.40| 0.01-0.10
|0.08-0.12| 6.1-12.5| 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
223D2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Rinda, moderately    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-8  | 0- 7- 15|47-60- 60|30-33- 40|1.45-1.50| 1.00-10.00
|0.18-0.20| 4.1-7.7 | 2.0-3.0 | .32 | .32 | 3 |  6   |  48
 ---------------------|  8-16 | 0- 5- 15|40-60- 70|30-35- 56|1.45-1.50| 0.10-1.00
|0.15-0.20| 3.9-11.6| 0.5-1.0 | .43 | .43 |   |      |
 ---------------------| 16-79 | 0-14- 21|25-42- 60|40-44- 60|1.30-1.40| 0.01-0.10
|0.08-0.12| 6.1-12.5| 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
231:                  |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Edina----------------|  0-9  | 0- 5-  8|65-74- 84|15-21- 27|1.27-1.45| 1.00-10.00
|0.22-0.24| 1.4-3.6 | 1.0-4.0 | .49 | .49 | 3 |  6   |  48
 ---------------------|  9-18 | 0- 5-  8|65-75- 84|15-20- 27|1.44-1.47| 1.00-10.00
|0.20-0.22| 1.4-3.5 | 0.5-1.0 | .55 | .55 |   |      |
 ---------------------| 18-54 | 0- 3-  5|35-45- 55|45-52- 60|1.24-1.35| 0.01-0.10
|0.11-0.13| 7.7-12.5| 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 54-79 | 0- 3-  5|55-62- 71|27-35- 40|1.36-1.47| 1.00-10.00
|0.18-0.20| 3.1-7.1 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
261:                  |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Appanoose------------|  0-8  | 0- 5-  6|71-74- 80|18-21- 24|1.36-1.45| 1.00-10.00
|0.22-0.24| 1.9-3.0 | 2.0-3.0 | .49 | .49 | 3 |  6   |  48
 ---------------------|  8-14 | 0- 4- 10|69-76- 80|20-20- 24|1.39-1.45| 1.00-10.00
|0.22-0.24| 2.2-2.9 | 1.0-2.0 | .55 | .55 |   |      |
 ---------------------| 14-59 | 0- 3-  5|47-54- 59|41-43- 50|1.33-1.43| 0.01-0.10
|0.12-0.14| 6.8-9.9 | 0.0-1.0 | .37 | .37 |   |      |
 ---------------------| 59-79 | 0- 2-  5|55-60- 67|30-38- 40|1.38-1.43| 0.10-1.00
|0.18-0.20| 3.7-7.1 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
Physical Soil Properties
_____________________________________________________________________________________
_____________________________________________________
                      |       |         |         |         |         |            |
        |         |        |Erosion factors|Wind  |Wind
      Map symbol      | Depth |   Sand  |   Silt  |   Clay  |  Moist  |  Saturated
|Available|  Linear | Organic |_______________|erodi-|erodi-
     and soil name    |       |         |         |         |   bulk  |  hydraulic |
```

	water capacity	extensi-bility	matter	Kw	Kf	T	group	bility index	bility		density	conductivity		
	In/in	Pct	Pct	In	Pct	Pct		Pct			g/cc	um/sec		
269:														
Humeston, occasionally flooded	0-8	0- 7- 10	60-65- 73	24-28- 30	1.26-1.40	1.00-10.00	0.21-0.23	3.0-4.2	3.0-4.0	.37	.37	5	6	48
	8-11	0- 7- 10	60-65- 73	24-28- 30	1.23-1.34	1.00-10.00	0.22-0.24	3.0-4.2	3.0-4.0	.32	.32			
	11-25	0- 5- 10	64-73- 82	18-22- 26	1.39-1.44	1.00-10.00	0.22-0.24	1.9-3.3	1.0-2.0	.49	.49			
	25-31	0- 5- 10	55-63- 70	30-32- 35	1.36-1.40	1.00-10.00	0.18-0.20	4.0-6.1	0.5-1.5	.43	.43			
	31-72	0- 7- 10	42-54- 65	35-39- 48	1.35-1.42	0.10-1.00	0.13-0.18	6.0-9.4	1.0-1.5	.37	.37			
	72-79	0- 9- 10	52-56- 65	30-35- 38	1.40-1.44	0.10-1.00	0.18-0.20	4.0-6.8	0.5-1.0	.43	.43			
269B:														
Humeston, rarely flooded	0-8	0- 7- 10	60-65- 73	24-28- 30	1.26-1.40	1.00-10.00	0.21-0.23	3.0-4.2	3.0-4.0	.37	.37	5	6	48
	8-11	0- 7- 10	60-65- 73	24-28- 30	1.23-1.34	1.00-10.00	0.22-0.24	3.0-4.2	3.0-4.0	.32	.32			
	11-25	0- 5- 10	64-73- 82	18-22- 26	1.39-1.44	1.00-10.00	0.22-0.24	1.9-3.3	1.0-2.0	.49	.49			
	25-31	0- 5- 10	55-63- 70	30-32- 35	1.36-1.40	1.00-10.00	0.18-0.20	4.0-6.1	0.5-1.5	.43	.43			
	31-72	0- 7- 10	42-54- 65	35-39- 48	1.35-1.42	0.10-1.00	0.13-0.18	6.0-9.4	1.0-1.5	.37	.37			
	72-79	0- 9- 10	52-56- 65	30-35- 38	1.40-1.44	0.10-1.00	0.18-0.20	4.0-6.8	0.5-1.0	.43	.43			
273B:														
Olmitz	0-6	20-43- 50	25-31- 50	22-26- 35	1.38-1.52	1.00-10.00	0.16-0.21	2.6-5.4	1.0-4.0	.17	.17	5	6	48
	6-10	20-45- 50	25-28- 50	22-27- 35	1.36-1.51	1.00-10.00	0.16-0.21	2.6-5.4	1.0-3.0	.17	.17			
	10-16	20-45- 50	25-28- 50	22-27- 35	1.36-1.51	1.00-10.00	0.16-0.21	2.6-5.4	1.0-3.0	.24	.24			
	16-20	20-45- 50	25-28- 50	22-27- 35	1.36-1.51	1.00-10.00	0.16-0.21	2.6-5.4	1.0-3.0	.24	.24			
	20-36	20-42- 45	25-30- 50	27-28- 35	1.36-1.47	1.00-10.00	0.10-0.17	2.4-5.3	0.5-2.0	.24	.24			
	36-79	20-37- 45	25-32- 50	27-31- 35	1.41-1.51	1.00-10.00	0.10-0.17	2.4-5.2	0.5-1.0	.28	.28			
312B:														

```
 Seymour--------------|  0-8  | 0- 1-  3|71-74- 77|22-25- 26|1.37-1.41| 1.00-10.00
|0.22-0.24| 2.6-3.4 | 3.0-4.0 | .43 | .43 | 5 |  6   |  48
 ---------------------|  8-13 | 0- 2-  3|58-64- 73|24-34- 39|1.26-1.30| 0.10-1.00
|0.18-0.20| 2.9-7.7 | 2.0-3.0 | .43 | .43 |   |      |
 ---------------------| 13-19 | 0- 2-  3|54-59- 63|34-39- 43|1.36-1.45| 0.01-0.10
|0.12-0.18| 4.8-8.0 | 0.5-1.0 | .43 | .43 |   |      |
 ---------------------| 19-64 | 0- 2-  3|43-53- 63|36-45- 54|1.32-1.39| 0.01-0.10
|0.12-0.18| 5.7-10.8| 0.0-0.5 | .37 | .37 |   |      |
 ---------------------| 64-79 | 0- 3-  3|62-63- 70|27-34- 35|1.37-1.44| 1.00-10.00
|0.18-0.20| 3.5-5.9 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
312C:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Seymour--------------|  0-8  | 0- 1-  3|71-74- 77|22-25- 26|1.37-1.41| 1.00-10.00
|0.22-0.24| 2.6-3.4 | 3.0-4.0 | .43 | .43 | 5 |  6   |  48
 ---------------------|  8-13 | 0- 2-  3|58-64- 73|24-34- 39|1.26-1.38| 0.10-1.00
|0.18-0.20| 2.9-7.7 | 2.0-3.0 | .43 | .43 |   |      |
 ---------------------| 13-19 | 0- 2-  3|54-59- 63|34-39- 43|1.36-1.45| 0.01-0.10
|0.12-0.18| 4.8-8.0 | 0.5-1.0 | .43 | .43 |   |      |
 ---------------------| 19-64 | 0- 2-  3|43-53- 63|36-45- 54|1.32-1.39| 0.01-0.10
|0.12-0.18| 5.7-10.8| 0.0-0.5 | .37 | .37 |   |      |
 ---------------------| 64-79 | 0- 3-  3|62-63- 70|27-34- 35|1.39-1.44| 1.00-10.00
|0.18-0.20| 3.5-5.9 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
312C2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Seymour--------------|  0-8  | 0- 2-  3|62-64- 69|28-34- 35|1.38-1.39| 1.00-10.00
|0.18-0.20| 3.7-6.2 | 2.0-3.0 | .43 | .43 | 5 |  6   |  48
 ---------------------|  8-15 | 0- 2-  3|54-59- 63|34-39- 43|1.36-1.45| 0.01-0.10
|0.12-0.18| 4.8-8.0 | 0.5-1.0 | .43 | .43 |   |      |
 ---------------------| 15-64 | 0- 2-  3|43-53- 63|36-45- 54|1.32-1.39| 0.01-0.10
|0.12-0.18| 5.7-10.8| 0.0-0.5 | .37 | .37 |   |      |
 ---------------------| 64-79 | 0- 3-  3|62-63- 70|27-34- 35|1.39-1.44| 1.00-10.00
|0.18-0.20| 3.5-5.9 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
Physical Soil Properties
_____________________________________________________________________________________
_____________________________________________________________
                      |       |         |         |         |         |            |
        |         |        |Erosion factors|Wind  |Wind
      Map symbol      | Depth |   Sand  |   Silt  |   Clay  |  Moist  |  Saturated
|Available|  Linear | Organic |_______________|erodi-|erodi-
     and soil name    |       |         |         |         |   bulk  |  hydraulic |
 water  | extensi-|  matter |     |     |   |bility|bility
                      |       |         |         |         | density |conductivity|
capacity|  bility |        |  Kw |  Kf | T |group |index
_____________________|_______|_________|_________|_________|_________|____________|
_________|_________|_________|_____|_____|___|______|______
                      |  In   | Pct     | Pct     | Pct     |  g/cc   |  um/sec    |
 In/in  |  Pct    |  Pct    |     |     |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
362:                  |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Haig-----------------|  0-7  | 5-10- 20|55-65- 70|22-25- 27|1.29-1.40| 4.00-14.00
|0.22-0.24| 2.6-3.6 | 3.0-5.0 | .37 | .37 | 5 |  6   |  48
 ---------------------|  7-13 | 5- 8- 20|45-55- 65|28-37- 48|1.34-1.40| 0.01-0.10
|0.21-0.23| 3.6-9.5 | 1.0-2.0 | .37 | .37 |   |      |
 ---------------------| 13-38 | 2- 7- 20|40-48- 55|40-45- 50|1.32-1.45| 0.01-0.10
|0.12-0.14| 6.5-9.9 | 0.0-1.0 | .37 | .37 |   |      |
```

```
 ---------------------| 38-79 | 5-18- 20|45-48- 65|28-34- 40|1.39-1.51| 0.40-1.40
|0.18-0.20| 3.3-7.1 | 0.0-0.5 | .37 | .37 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
364B:                 |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Grundy---------------|  0-12 | 3- 5-  6|61-66- 66|28-29- 33|1.05-1.50| 1.40-4.00
|0.20-0.23| 3.7-5.1 | 2.0-5.0 | .32 | .32 | 5 |  6   |  48
 ---------------------| 12-17 | 1- 2-  3|52-54- 65|32-44- 45|1.20-1.65| 0.40-1.40
|0.12-0.14| 4.4-8.7 | 0.5-2.0 | .32 | .32 |   |      |
 ---------------------| 17-35 | 1- 2-  3|47-56- 57|40-42- 50|1.25-1.60| 0.42-1.40
|0.11-0.13| 6.5-9.9 | 0.0-1.0 | .37 | .37 |   |      |
 ---------------------| 35-60 | 1- 2-  3|60-62- 67|30-36- 40|1.40-1.70| 0.42-1.40
|0.15-0.20| 3.7-7.1 | 0.0-0.5 | .43 | .43 |   |      |
 ---------------------| 60-79 | 1- 2-  3|60-63- 67|31-35- 40|1.40-1.70| 0.42-1.40
|0.15-0.20| 3.9-7.1 | 0.0-0.5 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
423D2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Bucknell-------------|  0-7  |15-18- 20|45-53- 58|27-29- 35|1.37-1.42| 1.00-10.00
|0.21-0.23| 3.3-6.2 | 2.0-3.0 | .37 | .37 | 3 |  6   |  48
 ---------------------|  7-9  |15-18- 20|45-53- 58|27-29- 35|1.42-1.51| 1.00-10.00
|0.21-0.23| 3.0-6.0 | 0.0-1.0 | .49 | .49 |   |      |
 ---------------------|  9-18 |10-11- 35|25-40- 45|40-49- 50|1.41-1.48| 0.01-0.10
|0.14-0.16| 6.2-9.7 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 18-43 |20-30- 40|25-31- 50|30-39- 40|1.46-1.55| 1.00-10.00
|0.14-0.18| 3.5-7.1 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 43-79 |25-33- 45|25-35- 45|30-32- 35|1.45-1.49| 1.00-10.00
|0.14-0.18| 3.5-5.9 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
451D2:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Caleb, moderately    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded-------------|  0-8  |25-30- 50|28-46- 53|22-24- 26|1.38-1.45| 1.00-10.00
|0.14-0.18| 2.5-3.6 | 2.0-3.0 | .37 | .37 | 5 |  6   |  48
 ---------------------|  8-13 |20-35- 45|30-45- 62|15-20- 25|1.42-1.52| 1.00-10.00
|0.14-0.18| 0.9-2.3 | 0.0-1.0 | .43 | .43 |   |      |
 ---------------------| 13-34 |35-40- 65| 1-28- 53|10-32- 34|1.53-1.63| 1.00-10.00
|0.12-0.16| 0.8-4.9 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 34-58 |35-40- 65| 3-30- 53|10-30- 34|1.55-1.64| 1.00-10.00
|0.12-0.16| 0.8-4.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 58-68 |35-40- 65| 3-30- 53|10-30- 34|1.44-1.59| 1.00-10.00
|0.12-0.16| 0.8-4.8 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 68-79 |40-42- 85| 0-30- 50|10-28- 34|1.46-1.68| 1.00-10.00
|0.12-0.16| 0.8-4.8 | 0.0-0.5 | .32 | .32 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
451D3:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Caleb, severely      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded-------------|  0-8  |25-30- 50|26-40- 47|28-30- 32|1.45-1.50| 1.00-10.00
|0.14-0.18| 0.0-2.9 | 1.0-2.0 | .32 | .32 | 4 |  6   |  48
 ---------------------|  8-29 |35-40- 65| 1-28- 55|10-32- 34|1.55-1.75| 1.00-10.00
|0.12-0.16| 0.0-2.9 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 29-53 |35-40- 65| 3-30- 55|10-30- 34|1.55-1.75| 1.00-10.00
|0.12-0.16| 0.0-2.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 53-63 |35-40- 65| 3-30- 55|10-30- 34|1.55-1.75| 1.00-10.00
|0.12-0.16| 0.0-2.9 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 63-80 |40-42- 85| 0-30- 50|10-28- 34|1.55-1.75| 1.00-10.00
```

|0.12-0.16| 0.0-2.9 | 0.0-0.5 | .32 | .32 | | |

451E2:

Caleb, moderately

eroded----------| 0-8 |25-30- 50|28-46- 53|22-24- 26|1.38-1.45| 1.00-10.00
|0.14-0.18| 2.5-3.6 | 2.0-3.0 | .37 | .37 | 5 | 6 | 48
----------| 8-13 |20-35- 45|30-45- 62|15-20- 25|1.42-1.52| 1.00-10.00
|0.14-0.18| 0.9-2.3 | 0.0-1.0 | .43 | .43 | | |
----------| 13-34 |35-40- 65| 1-28- 53|10-32- 34|1.53-1.63| 1.00-10.00
|0.12-0.16| 0.8-4.9 | 0.0-0.5 | .28 | .28 | | |
----------| 34-58 |35-40- 65| 3-30- 53|10-30- 34|1.55-1.64| 1.00-10.00
|0.12-0.16| 0.8-4.9 | 0.0-0.5 | .32 | .32 | | |
----------| 58-68 |35-40- 65| 3-30- 53|10-30- 34|1.44-1.59| 1.00-10.00
|0.12-0.16| 0.8-4.8 | 0.0-0.5 | .32 | .32 | | |
----------| 68-79 |40-42- 85| 0-30- 50|10-28- 34|1.46-1.68| 1.00-10.00
|0.12-0.16| 0.8-4.8 | 0.0-0.5 | .32 | .32 | | |

Physical Soil Properties

Map symbol and soil name	Depth	Organic matter	Erosion factors Sand	Silt	Clay	Wind erodibility group	Wind erodibility index	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility
	In	Pct	Kw	Kf	T			g/cc	um/sec	In/in	Pct
451E3:											
Caleb, severely eroded	0-8	25-30- 50	26-40- 47	28-30- 32	1.45-1.50	1.00-10.00	0.14-0.18	0.0-2.9	1.0-2.0	.32	.32	4	6	48
	8-29	35-40- 65	1-28- 55	10-32- 34	1.55-1.75	1.00-10.00	0.12-0.16	0.0-2.9	0.0-0.5	.28	.28			
	29-53	35-40- 65	3-30- 55	10-30- 34	1.55-1.75	1.00-10.00	0.12-0.16	0.0-2.9	0.0-0.5	.32	.32			
	53-63	35-40- 65	3-30- 55	10-30- 34	1.55-1.75	1.00-10.00	0.12-0.16	0.0-2.9	0.0-0.5	.32	.32			
	63-80	40-42- 85	0-30- 50	10-28- 34	1.55-1.75	1.00-10.00	0.12-0.16	0.0-2.9	0.0-0.5	.32	.32			
452C:											
Lineville	0-8	5-18- 20	50-57- 71	18-25- 30	1.45-1.50	1.00-10.00	0.16-0.20	1.9-4.4	2.0-3.0	.32	.32	5	6	48
	8-11	5-16- 20	55-62- 73	18-22- 25	1.45-1.50	1.00-10.00	0.16-0.20	1.9-3.3	0.5-1.5	.49	.49			
	11-15	10-20- 40	30-48- 62	28-32- 35	1.50-1.55	1.00-10.00	0.17-0.21	3.0-5.1	0.0-0.5	.43	.43			
	15-33	25-35- 50	17-37- 53	20-28- 35	1.65-1.75	1.00-10.00								

|0.11-0.21| 1.8-5.1 | 0.0-0.5 | .37 | .37 | | |
---------- | 33-55 |15-31- 45| 4-32- 57|28-37- 55|1.46-1.57| 0.10-1.00
|0.06-0.18| 2.9-9.6 | 0.0-0.5 | .32 | .32 | | |
---------- | 55-79 |25-31- 45|22-40- 51|24-29- 40|1.42-1.58| 1.00-10.00
|0.11-0.21| 2.3-6.2 | 0.0-0.5 | .37 | .37 | | |

452C2:

Lineville,

moderately eroded---| 0-8 | 5-18- 20|50-53- 67|18-29- 30|1.45-1.50| 1.00-10.00
|0.16-0.20| 3.0-5.9 | 1.5-2.5 | .32 | .32 | 5 | 6 | 48
---------- | 8-12 | 5-18- 20|45-53- 64|28-29- 35|1.50-1.55| 1.00-10.00
|0.17-0.21| 3.0-5.9 | 0.0-0.5 | .43 | .43 | | |
---------- | 12-16 |10-20- 40|30-48- 62|28-32- 35|1.50-1.55| 1.00-10.00
|0.17-0.21| 3.0-5.9 | 0.0-0.5 | .43 | .43 | | |
---------- | 16-37 |25-35- 50|17-37- 55|20-28- 35|1.65-1.75| 1.00-10.00
|0.17-0.21| 3.0-5.9 | 0.0-0.5 | .37 | .37 | | |
---------- | 37-73 |15-31- 45| 4-32- 57|28-37- 55|1.65-1.75| 0.10-1.00
|0.13-0.21| 6.0-8.9 | 0.0-0.5 | .32 | .32 | | |
---------- | 73-80 |25-31- 45|22-40- 51|24-29- 40|1.65-1.75| 1.00-10.00
|0.13-0.21| 6.0-8.9 | 0.0-0.5 | .37 | .37 | | |

460:

Mt. Sterling,

occasionally flooded| 0-8 | 5-10- 15|50-61- 75|18-29- 35|1.25-1.30| 1.00-10.00
|0.21-0.23| 3.0-5.9 | 3.0-7.0 | .32 | .32 | 5 | 6 | 48
---------- | 8-24 |18-20- 30|40-52- 64|18-28- 30|1.25-1.30| 1.00-10.00
|0.21-0.23| 1.6-2.9 | 3.0-7.0 | .37 | .37 | | |
---------- | 24-54 | 0- 5- 10|45-52- 62|35-43- 45|1.30-1.45| 0.10-1.00
|0.11-0.13| 3.0-5.9 | 5.0-7.0 | .28 | .28 | | |
---------- | 54-80 | 0- 7- 10|42-52- 64|35-41- 48|1.30-1.35| 0.01-0.10
|0.21-0.23| 4.8-9.9 | 5.0-7.0 | .32 | .32 | | |

531B:

Kniffin----------| 0-8 | 1- 5- 6|68-73- 81|18-22- 26|1.37-1.44| 1.00-10.00
|0.22-0.24| 1.3-3.6 | 2.0-3.0 | .49 | .49 | 5 | 6 | 48
---------- | 8-14 | 1- 5- 6|68-69- 75|19-26- 26|1.40-1.44| 1.00-10.00
|0.22-0.24| 1.7-4.8 | 1.0-2.0 | .49 | .49 | | |
---------- | 14-19 | 1- 4- 5|56-64- 69|30-32- 42|1.37-1.41| 1.00-10.00
|0.18-0.20| 3.4-8.9 | 0.5-1.0 | .49 | .49 | | |
---------- | 19-40 | 1- 2- 5|42-49- 54|45-49- 54|1.33-1.40| 0.01-0.10
|0.12-0.14| 8.4-11.0| 0.5-1.0 | .32 | .32 | | |
---------- | 40-60 | 1- 2- 5|51-62- 69|30-36- 48|1.40-1.42| 0.10-1.00
|0.18-0.20| 3.7-9.2 | 0.0-0.5 | .43 | .43 | | |
---------- | 60-68 | 1- 3- 5|62-69- 74|25-28- 35|1.37-1.40| 1.00-10.00
|0.18-0.20| 2.8-5.9 | 0.0-0.5 | .49 | .49 | | |
---------- | 68-79 | 1- 3- 5|62-69- 74|25-28- 35|1.35-1.35| 1.00-10.00
|0.18-0.20| 2.8-5.9 | 0.0-0.5 | .49 | .49 | | |

Physical Soil Properties

|Erosion factors|Wind |Wind

Map symbol | Depth | Sand | Silt | Clay | Moist | Saturated

Available water capacity	Linear extensibility	Organic matter	Kw	Kf	T	erodibility group	erodibility index	bulk density	hydraulic conductivity
In/in	Pct	Pct	In	Pct	Pct		Pct	g/cc	um/sec
531C:									
Kniffin	0-8	1- 5- 6	68-73- 81	18-22- 26	1.38-1.45	1.00-10.00	0.22-0.24	1.3-3.6	1.5-2.7
			.49	.49	5	6	48		
	8-14	1- 5- 6	68-69- 75	19-26- 26	1.40-1.44	1.00-10.00	0.22-0.24	1.7-4.8	1.0-2.0
			.49	.49					
	14-19	1- 4- 5	56-64- 69	30-32- 42	1.37-1.41	1.00-10.00	0.18-0.20	3.4-8.9	0.5-1.0
			.49	.49					
	19-40	1- 2- 5	42-49- 54	45-49- 54	1.33-1.40	0.01-0.10	0.12-0.14	8.4-11.0	0.5-1.0
			.32	.32					
	40-60	1- 2- 5	51-62- 69	30-36- 48	1.40-1.42	0.10-1.00	0.18-0.20	3.7-9.2	0.0-0.5
			.43	.43					
	60-68	1- 3- 5	62-69- 74	25-28- 35	1.37-1.40	1.00-10.00	0.18-0.20	2.8-5.9	0.0-0.5
			.49	.49					
	68-79	1- 3- 5	62-69- 74	25-28- 35	1.35-1.35	1.00-10.00	0.18-0.20	2.8-5.9	0.0-0.5
			.49	.49					
531C2:									
Kniffin	0-8	1- 5- 6	66-67- 77	22-28- 29	1.41-1.46	1.00-10.00	0.22-0.24	1.9-4.5	1.0-2.0
			.49	.49	5	6	48		
	8-14	1- 4- 5	56-64- 69	30-32- 42	1.37-1.41	1.00-10.00	0.18-0.20	3.4-8.9	0.5-1.0
			.49	.49					
	14-40	1- 2- 5	42-49- 54	45-49- 54	1.33-1.40	0.01-0.10	0.12-0.14	8.4-11.0	0.5-1.0
			.32	.32					
	40-60	1- 2- 5	51-62- 69	30-36- 48	1.40-1.42	0.10-1.00	0.18-0.20	3.7-9.2	0.0-0.5
			.43	.43					
	60-68	1- 3- 5	62-69- 74	25-28- 35	1.37-1.40	1.00-10.00	0.18-0.20	2.8-5.9	0.0-0.5
			.49	.49					
	68-79	1- 3- 5	62-69- 74	25-28- 35	1.35-1.35	1.00-10.00	0.18-0.20	2.8-5.9	0.0-0.5
			.49	.49					
587:									
Chequest, occasionally flooded	0-7	5-14- 15	52-54- 62	30-32- 35	1.36-1.39	1.00-10.00	0.18-0.20	4.2-6.3	3.0-4.0
			.28	.28	5	6	48		
	7-12	5-15- 15	52-52- 62	30-33- 35	1.27-1.31	1.00-10.00	0.18-0.20	4.2-6.3	3.0-4.0
			.37	.37					
	12-35	5- 7- 15	43-54- 55	35-39- 42	1.41-1.44	0.10-1.00	0.14-0.18	5.4-7.8	0.0-1.0
			.37	.37					
	35-79	1- 5- 15	43-56- 60	35-39- 42	1.41-1.46	0.10-1.00	0.14-0.18	5.4-7.8	0.0-1.0
			.37	.37					
592C2:									
Mystic, moderately									

```
  eroded-------------|  0-6  |15-24- 30|50-50- 65|20-26- 27|1.36-1.43| 1.00-10.00
|0.22-0.24| 2.2-3.5 | 2.0-3.0 | .43 | .43 | 3 |  6   |  48
 --------------------|  6-9  |15-29- 40|25-40- 55|30-31- 35|1.46-1.51| 1.00-10.00
|0.20-0.22| 3.7-6.0 | 0.0-1.0 | .37 | .37 |   |      |
 --------------------|  9-30 | 5-29- 40|15-37- 50|30-35- 50|1.50-1.60| 0.10-1.00
|0.15-0.19| 3.4-9.7 | 0.0-0.5 | .32 | .32 |   |      |
 --------------------| 30-54 | 5-30- 35|15-32- 50|30-39- 50|1.45-1.52| 0.10-1.00
|0.11-0.14| 3.4-9.7 | 0.0-0.5 | .28 | .28 |   |      |
 --------------------| 54-63 | 5-34- 35|15-30- 50|30-36- 50|1.45-1.55| 0.10-1.00
|0.15-0.19| 3.4-9.7 | 0.0-0.5 | .32 | .32 |   |      |
 --------------------| 63-79 |30-65- 70| 0-15- 45|10-20-
30|1.41-1.76|10.00-100.00|0.11-0.13| 0.6-3.8 | 0.0-0.5 | .17 | .17 |   |      |

                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
711:                  |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Lawson, occasionally |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  flooded------------|  0-8  | 5-12- 18|47-66- 85|10-22- 35|1.20-1.55| 1.00-10.00
|0.22-0.24| 0.0-2.9 | 3.0-7.0 | .32 | .32 | 5 |  6   |  48
 --------------------|  8-30 | 5-11- 18|53-69- 85|10-20- 30|1.20-1.55| 1.00-10.00
|0.18-0.22| 0.0-2.9 | 3.0-7.0 | .37 | .37 |   |      |
 --------------------| 30-60 | 5- 7- 40|46-69- 77|18-24- 30|1.50-1.70| 1.00-10.00
|0.11-0.15| 3.0-5.9 | 1.0-3.0 | .43 | .43 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Nodaway,             |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  occasionally flooded|  0-8  | 1- 8- 15|59-70- 81|18-22- 27|1.25-1.35| 1.00-10.00
|0.20-0.23| 0.0-2.9 | 2.0-4.0 | .37 | .37 | 5 |  6   |  48
 --------------------|  8-31 | 1- 7- 15|57-70- 81|18-23- 30|1.25-1.35| 1.00-10.00
|0.20-0.23| 3.0-5.9 | 0.0-0.5 | .49 | .49 |   |      |
 --------------------| 31-42 | 1- 7- 15|57-70- 81|18-23- 30|1.25-1.35| 1.00-10.00
|0.20-0.23| 3.0-5.9 | 0.0-0.5 | .49 | .49 |   |      |
 --------------------| 42-80 | 1- 7- 15|57-70- 81|18-23- 30|1.25-1.35| 1.00-10.00
|0.20-0.23| 3.0-5.9 | 0.0-0.5 | .49 | .49 |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
Physical Soil Properties
_____________________________________________________________________________________
_____________________________________________________________
                      |       |         |         |         |         |            |
        |         |        |Erosion factors|Wind  |Wind
      Map symbol      | Depth |   Sand  |   Silt  |   Clay  |  Moist  |  Saturated
|Available|  Linear | Organic |_______________|erodi-|erodi-
     and soil name    |       |         |         |         |   bulk  |  hydraulic |
 water  | extensi-|  matter |     |     |   |bility|bility
                      |       |         |         |         | density |conductivity|
capacity|  bility |        |  Kw |  Kf | T |group |index
_____________________|_______|_________|_________|_________|_________|____________|
_________|_________|_________|_____|_____|___|______|______
                      |  In   | Pct     | Pct     | Pct     |  g/cc   |  um/sec    |
 In/in  |  Pct    |  Pct    |     |     |   |      |
                      |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Colo, occasionally   |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  flooded------------|  0-8  | 2- 7- 25|46-62- 71|27-32- 35|1.28-1.32| 1.00-10.00
|0.21-0.23| 3.0-5.9 | 5.0-7.0 | .28 | .28 | 5 |  6   |  48
 --------------------|  8-40 | 2- 7- 25|47-61- 68|30-33- 35|1.25-1.35| 1.00-10.00
|0.18-0.20| 3.0-5.9 | 3.0-4.0 | .37 | .37 |   |      |
 --------------------| 40-46 | 0- 7- 15|51-61- 70|30-33- 35|1.25-1.35| 1.00-10.00
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|0.18-0.20| 3.0-5.9 | 3.0-4.0 | .37 | .37 |    |       |
 ---------------------| 46-52 | 0- 7- 15|51-63- 75|25-30- 35|1.35-1.45| 1.00-10.00
|0.18-0.20| 2.6-5.8 | 1.0-2.0 | .43 | .43 |    |       |
 ---------------------| 52-60 | 5- 7- 30|48-67- 73|22-26- 35|1.35-1.45| 1.00-10.00
|0.18-0.20| 2.6-5.8 | 1.0-2.0 | .43 | .43 |    |       |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
792C:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Armstrong------------|  0-7  |10-30- 45|20-46- 74|15-24- 35|1.45-1.50| 1.00-10.00
|0.17-0.19| 3.0-5.9 | 2.0-3.0 | .32 | .32 | 3 |  6   |  48
 ---------------------|  7-11 |10-30- 45|29-48- 70|18-22- 26|1.45-1.50| 1.00-10.00
|0.20-0.22| 3.0-5.9 | 1.0-2.0 | .43 | .43 |    |       |
 ---------------------| 11-14 |10-38- 45|20-33- 58|20-30- 35|1.55-1.65| 1.00-10.00
|0.14-0.16| 4.2-6.1 | 0.5-1.0 | .37 | .37 |    |       |
 ---------------------| 14-18 |15-38- 40|20-29- 49|25-34- 40|1.55-1.65| 1.00-10.00
|0.14-0.16| 4.2-6.1 | 0.0-1.0 | .32 | .32 |    |       |
 ---------------------| 18-31 |25-35- 45| 0-17- 39|36-48- 60|1.35-1.40| 0.01-0.10
|0.11-0.13| 6.1-13.7| 0.0-1.0 | .24 | .24 |    |       |
 ---------------------| 31-60 |30-38- 45|12-30- 40|30-33- 50|1.55-1.65| 1.00-10.00
|0.14-0.16| 4.2-6.1 | 0.0-1.0 | .28 | .28 |    |       |
 ---------------------| 60-80 |30-38- 45|20-31- 43|27-31- 35|1.55-1.70| 1.00-10.00
|0.14-0.16| 4.2-6.1 | 0.0-0.5 | .32 | .32 |    |       |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
792C2:                |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Armstrong,           |       |         |         |         |         |            |
        |         |         |     |     |   |      |
  moderately eroded---|  0-8  |23-34- 50|28-42- 50|12-24- 27|1.32-1.42| 4.00-14.00
|0.18-0.21| 0.9-3.4 | 1.5-3.0 | .37 | .37 | 3 |  6   |  48
 ---------------------|  8-11 |40-50- 52|30-32- 40|15-18- 27|1.36-1.52| 4.00-14.00
|0.18-0.21| 1.2-3.4 | 0.5-1.0 | .43 | .43 |    |       |
 ---------------------| 11-14 |10-38- 45|20-33- 58|20-30- 35|1.43-1.46| 1.00-10.00
|0.14-0.16| 1.5-6.9 | 0.5-1.0 | .37 | .37 |    |       |
 ---------------------| 14-18 |20-22- 30|30-41- 50|27-37- 40|1.35-1.44| 0.10-1.40
|0.14-0.16| 2.6-7.7 | 0.3-1.0 | .37 | .37 |    |       |
 ---------------------| 18-26 |10-25- 30|30-31- 50|40-44- 60|1.44-1.49| 0.01-0.10
|0.11-0.16| 5.7-12.6| 0.1-1.0 | .32 | .32 |    |       |
 ---------------------| 26-54 |20-25- 35|30-38- 50|27-37- 40|1.46-1.51| 0.10-1.40
|0.14-0.16| 2.8-7.1 | 0.1-0.5 | .32 | .32 |    |       |
 ---------------------| 54-79 |20-34- 40|30-34- 50|24-32- 38|1.38-1.52| 2.00-10.00
|0.12-0.16| 2.2-6.4 | 0.0-0.5 | .32 | .32 |    |       |
                      |       |         |         |         |         |            |
        |         |         |     |     |   |      |
792D:                 |       |         |         |         |         |            |
        |         |         |     |     |   |      |
 Armstrong------------|  0-9  |23-34- 50|28-42- 50|12-24- 27|1.30-1.45| 4.00-14.00
|0.18-0.21| 0.9-3.4 | 1.5-3.0 | .24 | .24 | 3 |  6   |  48
 ---------------------|  9-13 |40-50- 52|30-32- 40|15-18- 27|1.36-1.52| 4.00-14.00
|0.18-0.21| 1.2-3.4 | 0.5-1.0 | .37 | .37 |    |       |
 ---------------------| 13-16 |40-50- 52|30-32- 40|15-18- 27|1.36-1.52| 4.00-14.00
|0.18-0.21| 1.2-3.4 | 0.5-1.0 | .43 | .43 |    |       |
 ---------------------| 16-20 |10-38- 45|20-33- 58|20-30- 35|1.40-1.53| 1.00-10.00
|0.14-0.16| 1.5-6.9 | 0.0-1.0 | .37 | .37 |    |       |
 ---------------------| 20-30 |20-22- 30|30-41- 50|27-37- 40|1.35-1.44| 0.10-1.40
|0.14-0.16| 2.6-7.7 | 0.3-1.0 | .37 | .37 |    |       |
 ---------------------| 30-41 |10-25- 30|30-31- 50|40-44- 60|1.44-1.49| 0.01-0.10
|0.11-0.16| 5.7-12.6| 0.1-1.0 | .32 | .32 |    |       |
 ---------------------| 41-48 |20-25- 35|30-38- 50|27-37- 40|1.46-1.51| 0.10-1.40
|0.14-0.16| 2.8-7.1 | 0.1-0.5 | .32 | .32 |    |       |
 ---------------------| 48-79 |20-34- 40|30-34- 50|24-32- 38|1.38-1.52| 2.00-10.00
|0.12-0.16| 2.2-6.4 | 0.0-0.5 | .32 | .32 |    |       |
```

792D2:

Armstrong,

moderately eroded---| 0-8 |23-34- 50|28-42- 50|12-24- 27|1.36-1.43| 4.00-14.00 |0.18-0.21| 0.9-3.4 | 1.5-2.5 | .37 | .37 | 3 | 6 | 48
---| 8-11 |40-50- 52|30-32- 40|15-18- 27|1.36-1.52| 4.00-14.00 |0.18-0.21| 1.2-3.4 | 0.5-1.0 | .43 | .43 | | |
---| 11-14 |10-38- 45|20-33- 58|20-30- 35|1.40-1.53| 1.00-10.00 |0.14-0.16| 1.5-6.9 | 0.0-1.0 | .37 | .37 | | |
---| 14-18 |20-22- 30|30-41- 50|27-37- 40|1.35-1.44| 0.10-1.40 |0.14-0.16| 2.6-7.7 | 0.3-1.0 | .37 | .37 | | |
---| 18-26 |10-25- 30|30-31- 50|40-44- 60|1.44-1.49| 0.01-0.10 |0.11-0.16| 5.7-12.6| 0.1-1.0 | .32 | .32 | | |
---| 26-54 |20-25- 35|30-38- 50|27-37- 40|1.46-1.51| 0.10-1.40 |0.14-0.16| 2.8-7.1 | 0.1-0.5 | .32 | .32 | | |
---| 54-79 |20-34- 40|30-34- 50|24-32- 38|1.38-1.52| 2.00-10.00 |0.12-0.16| 2.2-6.4 | 0.0-0.5 | .32 | .32 | | |

Physical Soil Properties

Map symbol and soil name	Depth	Organic matter	Erosion factors Sand	Silt	Clay	Wind erodibility group	Wind erodibility index	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility
	In	Pct	Kw	Kf	T			g/cc	um/sec	In/in	Pct
822C2:											
Lamoni	0-8	5-15- 30	33-52- 67	28-33- 42	1.30-1.40	1.00-10.00	0.21-0.23	3.5-8.0	2.0-3.0	.43	.43	3	6	48
	8-13	10-30- 30	28-36- 52	30-34- 42	1.50-1.60	1.00-10.00	0.14-0.17	3.8-7.9	1.0-2.0	.32	.32		
	13-37	10-15- 40	13-38- 60	30-47- 50	1.25-1.40	0.01-0.10	0.09-0.11	3.4-9.7	0.0-0.5	.28	.28		
	37-48	20-30- 40	22-36- 50	30-34- 38	1.60-1.70	1.00-10.00	0.10-0.16	3.4-6.6	0.0-0.5	.32	.32		
	48-79	25-30- 40	25-36- 45	30-34- 38	1.60-1.70	1.00-10.00	0.10-0.16	3.4-6.6	0.0-0.5	.32	.32		
822D2:											
Lamoni	0-11	15-19- 20	40-48- 50	27-33- 40	1.26-1.41	1.00-10.00	0.17-0.21	3.3-7.5	2.0-3.5	.28	.28	3	6	48
	11-24	20-27- 35	25-29- 42	38-44- 50	1.41-1.48	0.01-0.10	0.13-0.17	5.8-9.7	0.0-0.5	.28	.28		
	24-53	20-31- 35	25-33- 42	32-36- 40	1.46-1.51	0.10-1.00	0.14-0.18	3.8-7.1	0.0-0.5	.32	.32		
	53-79	20-32- 35	25-31- 42	32-37- 40	1.40-1.48	0.10-1.00	0.14-0.18	3.8-7.1	0.0-0.5	.28	.28		

```
                     |       |         |         |         |         |            |
        |         |        |     |     |   |      |
822D3:               |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Lamoni, severely    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-8  |20-34- 35|25-32- 40|27-34- 40|1.35-1.39| 1.00-10.00
|0.17-0.21| 3.3-7.5 | 1.5-3.0 | .32 | .32 | 2 |  6   |  48
 ---------------------|  8-24 |20-27- 35|25-29- 40|38-44- 50|1.41-1.48| 0.01-0.10
|0.13-0.17| 5.8-9.7 | 0.0-0.5 | .28 | .28 |   |      |
 ---------------------| 24-49 |20-31- 35|25-33- 40|32-36- 40|1.48-1.51| 0.10-1.00
|0.14-0.18| 3.8-7.1 | 0.0-0.5 | .32 | .32 |   |      |
 ---------------------| 49-79 |20-29- 35|25-34- 40|32-37- 40|1.37-1.48| 0.10-1.00
|0.14-0.18| 3.8-7.1 | 0.0-0.5 | .32 | .32 |   |      |
                     |       |         |         |         |         |            |
        |         |        |     |     |   |      |
831B:                |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Pershing, terrace----|  0-8  | 0- 3-  5|68-73- 80|20-24- 27|1.38-1.43| 1.00-10.00
|0.22-0.24| 2.2-3.6 | 2.5-3.5 | .43 | .43 | 5 |  6   |  48
 ---------------------|  8-13 | 0- 3-  5|60-66- 74|25-31- 35|1.35-1.40| 1.00-10.00
|0.20-0.22| 3.0-6.0 | 0.5-1.0 | .49 | .49 |   |      |
 ---------------------| 13-60 | 1- 3-  4|48-56- 64|35-41- 48|1.38-1.43| 0.01-0.10
|0.18-0.20| 5.4-9.2 | 0.0-0.5 | .43 | .43 |   |      |
 ---------------------| 60-79 | 1- 3-  4|61-65- 72|24-32- 35|1.37-1.40| 1.00-10.00
|0.18-0.20| 2.6-5.9 | 0.0-0.5 | .43 | .43 |   |      |
                     |       |         |         |         |         |            |
        |         |        |     |     |   |      |
831C2:               |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Pershing, moderately |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded, terrace-----|  0-4  | 0- 3-  5|61-69- 76|24-28- 35|1.37-1.39| 1.00-10.00
|0.22-0.24| 2.9-6.2 | 2.0-3.0 | .49 | .49 | 5 |  6   |  48
 ---------------------|  4-12 | 0- 3-  5|60-66- 72|27-31- 35|1.35-1.40| 1.00-10.00
|0.20-0.22| 3.4-6.0 | 0.5-1.0 | .49 | .49 |   |      |
 ---------------------| 12-55 | 1- 3-  4|48-56- 64|35-41- 48|1.38-1.43| 0.01-0.10
|0.18-0.20| 5.4-9.2 | 0.0-0.5 | .43 | .43 |   |      |
 ---------------------| 55-79 | 1- 3-  4|61-65- 72|24-32- 35|1.37-1.40| 1.00-10.00
|0.18-0.20| 2.6-5.9 | 0.0-0.5 | .43 | .43 |   |      |
                     |       |         |         |         |         |            |
        |         |        |     |     |   |      |
993D2:               |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Gara, moderately    |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  eroded--------------|  0-7  |20-35- 45|20-34- 53|27-31- 35|1.36-1.40| 1.00-10.00
|0.14-0.18| 3.2-5.2 | 1.5-3.0 | .32 | .32 | 5 |  6   |  48
 ---------------------|  7-31 |20-34- 40|26-33- 50|25-33- 35|1.36-1.54| 0.40-1.40
|0.13-0.16| 2.5-5.1 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 31-40 |20-34- 40|26-33- 50|25-33- 35|1.36-1.54| 0.40-1.40
|0.13-0.16| 2.5-5.1 | 0.0-1.0 | .32 | .32 |   |      |
 ---------------------| 40-79 |20-34- 40|30-34- 50|24-32- 38|1.46-1.55| 1.40-4.00
|0.12-0.16| 2.4-5.5 | 0.0-0.5 | .32 | .32 |   |      |
                     |       |         |         |         |         |            |
        |         |        |     |     |   |      |
 Armstrong,          |       |         |         |         |         |            |
        |         |        |     |     |   |      |
  moderately eroded---|  0-8  |20-35- 45|20-34- 53|27-31- 35|1.40-1.45| 1.00-10.00
|0.16-0.18| 3.1-5.9 | 1.0-2.0 | .32 | .32 | 3 |  6   |  48
 ---------------------|  8-11 |40-50- 52|30-32- 40|15-18- 27|1.36-1.52| 4.00-14.00
|0.18-0.21| 1.2-3.4 | 1.0-3.0 | .37 | .37 |   |      |
 ---------------------| 11-14 |20-22- 30|30-41- 50|27-37- 40|1.35-1.44| 0.10-1.40
```

|0.14-0.16| 2.6-7.7 | 0.5-2.0 | .37 | .37 | | |
---|---|---|

5025:											
Strip mines	---	---	---	---	---	--	---	--	---	---	---
5030:											
Pits, limestone quarry	---	---	---	---	---	--	---	--	---	---	---
5040:											
Udorthents, loamy	---	---	---	---	---	5	---	--	---	---	---
5049:											
Aquolls	---	---	---	---	---	5	---	--	---	---	---
Udorthents, loamy	---	---	---	---	---	5	---	--	---	---	---
AW:											
Animal waste lagoon	---	---	---	---	---	--	---	--	---	---	---
SL:											
Sewage lagoon	---	---	---	---	---	--	---	--	---	---	---
W:											
Water	---	---	---	---	---	--	---	--	---	---	---