Print date: 11/07/2016

(Absence of an entry indicates that data were not estimated.)

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 13B: | | | | | | | | |
| Zook, occasionally flooded | 0-8 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-20 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-38 | 25-35 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-52 | 28-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-61 | 21-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 61-79 | 15-33 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| Vesser, occasionally flooded | 0-8 | 17-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-15 | 17-24 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 15-31 | 15-22 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-66 | 20-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 66-79 | 20-27 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 23C: | | | | | | | | |
| Arispe | 0-8 | 23-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | 23-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-53 | 28-31 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 53-79 | 17-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 23C2: | | | | | | | | |
| Arispe | 0-8 | 23-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-49 | 28-31 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 49-79 | 17-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 24D: | | | | | | | | |
| Shelby | 0-11 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 11-56 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 56-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| 24D2: | | | | | | | | |
| Shelby, moderately eroded | 0-6 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 6-15 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 15-50 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 50-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| 24E2: | | | | | | | | |
| Shelby, moderately eroded | 0-7 | 22-28 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-38 | 19-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-60 | 25-30 | --- | 5.6-8.4 | 0-14 | 0 | 0.0-2.0 | 0 |
| | 60-79 | 19-27 | --- | 6.6-8.4 | 0-30 | 0 | 0.0-2.0 | 0 |
| 24E3: | | | | | | | | |
| Shelby, severely eroded | 0-5 | 22-28 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 5-38 | 19-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-60 | 17-27 | --- | 7.1-8.4 | 0-14 | 0 | 0.0-2.0 | 0 |
| | 60-79 | 19-27 | --- | 6.6-8.4 | 0-30 | 0 | 0.0-2.0 | 0 |
| 24F2: | | | | | | | | |
| Shelby, moderately eroded | 0-6 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 6-15 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 15-50 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 50-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|

| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
|---|---|---|---|---|---|---|---|---|
| 51: | | | | | | | | |
| Vesser, occasionally flooded | 0-8 | 17-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-15 | 17-24 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 15-31 | 15-22 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-66 | 20-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 66-79 | 20-27 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 51+: | | | | | | | | |
| Vesser, overwash, occasionally flooded | 0-8 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 8-20 | 25-30 | --- | 5.6-7.3 | 0 | --- | --- | --- |
| | 20-39 | 20-25 | --- | 5.1-6.0 | 0 | --- | --- | --- |
| | 39-60 | 25-30 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| 51B: | | | | | | | | |
| Vesser, rarely flooded | 0-8 | 17-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-15 | 17-24 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 15-31 | 15-22 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-66 | 20-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 66-79 | 20-27 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 51B+: | | | | | | | | |
| Vesser, overwash, occasionally flooded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-33 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 33-60 | 25-30 | --- | 5.6-6.5 | 0 | 0 | 0 | 0 |
| 54: | | | | | | | | |
| Zook, occasionally flooded | 0-8 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-20 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-38 | 25-35 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-52 | 28-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-61 | 21-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 61-79 | 15-33 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 54+: | | | | | | | | |
| Zook, occasionally flooded, overwash | 0-8 | 17-22 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-33 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-51 | 25-35 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 51-61 | 28-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 61-74 | 21-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 74-79 | 15-33 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 54B: | | | | | | | | |
| Zook, rarely flooded | 0-8 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-20 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-38 | 25-35 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-52 | 28-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-61 | 21-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 61-79 | 15-33 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 65E: | | | | | | | | |
| Lindley | 0-9 | 8.9-16 | --- | 3.5-5.9 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-13 | 7.1-14 | --- | 4.5-6.6 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-30 | 18-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-79 | 15-25 | --- | 4.5-6.5 | 0-10 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 65E2: | | | | | | | | |
| Lindley, moderately eroded | 0-8 | 8.9-16 | --- | 3.5-5.9 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-30 | 18-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 30-79 | 15-25 | --- | 6.1-8.4 | 0-10 | 0 | 0.0-2.0 | 0 |
| 65F: | | | | | | | | |
| Lindley | 0-8 | 8.9-16 | --- | 3.5-5.9 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-30 | 18-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-79 | 15-25 | --- | 4.5-6.5 | 0-10 | 0 | 0.0-2.0 | 0 |
| 65F2: | | | | | | | | |
| Lindley, moderately eroded | 0-5 | 8.9-16 | --- | 3.5-5.9 | 0 | 0 | 0.0-2.0 | 0 |
| | 5-8 | 7.1-14 | --- | 3.5-5.9 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-30 | 18-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-79 | 15-25 | --- | 6.1-8.4 | 0-10 | 0 | 0.0-2.0 | 0 |
| 65G: | | | | | | | | |
| Lindley | 0-5 | 8.9-16 | --- | 3.5-5.9 | 0 | 0 | 0.0-2.0 | 0 |
| | 5-8 | 7.1-14 | --- | 4.5-6.6 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-30 | 18-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-79 | 15-25 | --- | 6.1-8.4 | 0-10 | 0 | 0.0-2.0 | 0 |
| 65G2: | | | | | | | | |
| Lindley, moderately eroded | 0-5 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 5-39 | 15-20 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 39-60 | 10-16 | --- | 6.1-7.8 | 0 | 0 | 0 | 0 |
| 93D2: | | | | | | | | |
| Shelby, moderately eroded | 0-6 | 20-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 6-15 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 15-50 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 50-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| Adair, moderately eroded | 0-6 | 20-30 | --- | 5.6-7.3 | 0 | --- | --- | --- |
| | 6-30 | 41-50 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| | 30-60 | 25-30 | --- | 5.6-7.8 | 5-10 | --- | --- | --- |
| 94D2: | | | | | | | | |
| Mystic, moderately eroded | 0-6 | 17-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-9 | 21-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-30 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-54 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 54-63 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 63-79 | 8.0-23 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| Caleb, moderately eroded | 0-8 | 19-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | --- | 7.2-13 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-34 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-58 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 58-68 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 68-79 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 94E2: | | | | | | | | |
| Mystic, moderately eroded | 0-9 | 25-30 | --- | 4.5-7.3 | 0 | --- | --- | --- |
| | 9-51 | 25-30 | --- | 4.5-6.5 | 0 | --- | --- | --- |
| | 51-60 | 20-25 | --- | 6.1-6.5 | 0 | --- | --- | --- |
| Caleb, moderately eroded | 0-7 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 7-43 | --- | 20-25 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 43-60 | 5.0-25 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| 131B: | | | | | | | | |
| Pershing | 0-7 | 17-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-12 | 19-26 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12-55 | 19-36 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 17-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 131C: | | | | | | | | |
| Pershing | 0-7 | 17-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-12 | 19-26 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-55 | 19-36 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 17-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 131C2: | | | | | | | | |
| Pershing, moderately eroded | 0-4 | 20-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 4-12 | 21-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-55 | 24-34 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 17-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 131D2: | | | | | | | | |
| Pershing, moderately eroded | 0-4 | 22-29 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 4-12 | 22-29 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-55 | 26-39 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 19-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 132B: | | | | | | | | |
| Weller | 0-7 | 9.3-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-9 | 9.3-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-15 | 19-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 15-24 | --- | 14-29 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-67 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 132C: | | | | | | | | |
| Weller | 0-12 | 15-20 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 12-43 | --- | 30-35 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 43-74 | 25-30 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 132C2: | | | | | | | | |
| Weller, moderately eroded | 0-7 | 14-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-18 | 19-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-25 | --- | 14-29 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 25-67 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 132D2: | | | | | | | | |
| Weller, moderately eroded | 0-7 | 20-26 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-18 | 18-24 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-25 | --- | 15-31 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 25-67 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 172: | | | | | | | | |
| Wabash, occasionally flooded | 0-8 | 0.0-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 8-60 | 28-42 | --- | 5.1-7.8 | 0 | 0 | 0 | 0 |
| 179D2: | | | | | | | | |
| Gara, moderately eroded | 0-7 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 7-47 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 47-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 179E: | | | | | | | | |
| Gara | 0-7 | 24-43 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-10 | 24-43 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 10-31 | 17-30 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-40 | 17-30 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 40-79 | 25-30 | --- | 5.6-8.4 | 0-20 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 179E2: | | | | | | | | |
| Gara, moderately eroded | 0-6 | 22-28 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-31 | 17-30 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-40 | 21-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 40-79 | 25-30 | --- | 5.6-8.4 | 0 | 0 | 0.0-2.0 | 0 |
| 179E3: | | | | | | | | |
| Gara, severely eroded | 0-7 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 7-47 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 47-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 179F: | | | | | | | | |
| Gara | 0-7 | 11-23 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-10 | 13-23 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 10-31 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-40 | 19-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 40-79 | 17-29 | --- | 5.6-8.4 | 0-15 | 0 | 0.0-2.0 | 0 |
| 179F2: | | | | | | | | |
| Gara, moderately eroded | 0-7 | 22-29 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-31 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-40 | 19-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 40-79 | 17-29 | --- | 5.6-8.4 | 0-15 | 0 | 0.0-2.0 | 0 |
| 179G2: | | | | | | | | |
| Gara, moderately eroded | 0-7 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 7-47 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 47-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 192C2: | | | | | | | | |
| Adair, moderately eroded | 0-8 | 21-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-17 | 28-43 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-51 | 21-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 51-68 | 21-28 | --- | 7.4-8.4 | 5-25 | 0 | 0.0-2.0 | 0 |
| | 68-79 | 21-28 | --- | 6.1-7.8 | 0-20 | 0 | 0.0-2.0 | 0 |
| 192D2: | | | | | | | | |
| Adair, moderately eroded | 0-8 | 21-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-17 | 28-43 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-51 | 21-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 51-68 | 21-28 | --- | 7.4-8.4 | 5-25 | 0 | 0.0-2.0 | 0 |
| | 68-79 | 21-28 | --- | 6.1-7.8 | 0-20 | 0 | 0.0-2.0 | 0 |
| 211: | | | | | | | | |
| Edina | 0-9 | 13-23 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-18 | 13-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-54 | 29-42 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 54-79 | 19-29 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 222C: | | | | | | | | |
| Clarinda | 0-8 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-19 | 26-39 | --- | 5.1-6.5 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 19-67 | 26-42 | --- | 5.1-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 25-36 | --- | 5.6-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| 222C2: | | | | | | | | |
| Clarinda, moderately eroded | 0-8 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-16 | 26-39 | --- | 5.1-6.5 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 16-67 | 26-42 | --- | 5.1-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 26-36 | --- | 5.6-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 222C3: | | | | | | | | |
| Clarinda---------- | 0-8 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-12 | 26-39 | --- | 5.1-6.5 | 0-5 | 0 | 0.0-2.0 | 0 |
| ---------- | 12-60 | 26-42 | --- | 5.1-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| ---------- | 60-79 | 26-36 | --- | 5.6-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| 222D2: | | | | | | | | |
| Clarinda---------- | 0-8 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-16 | 26-39 | --- | 5.1-6.5 | 0-5 | 0 | 0.0-2.0 | 0 |
| ---------- | 16-67 | 26-42 | --- | 5.1-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| ---------- | 67-79 | 26-36 | --- | 5.6-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| 223C2: | | | | | | | | |
| Rinda, moderately eroded---------- | 0-9 | 24-33 | --- | 5.2-6.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 9-16 | 23-40 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 16-79 | 26-42 | --- | 5.1-8.0 | 0-15 | 0 | 0.0-2.0 | 0 |
| 223D2: | | | | | | | | |
| Rinda, moderately eroded---------- | 0-8 | 24-33 | --- | 5.2-6.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-16 | 23-40 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 16-79 | 26-42 | --- | 5.1-8.0 | 0-15 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 269: | | | | | | | | |
| Humeston, occasionally flooded | 0-8 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-11 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-25 | 15-21 | --- | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 25-31 | 23-27 | --- | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-72 | 27-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 72-79 | 23-29 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 269+: | | | | | | | | |
| Humeston, overwash, occasionally flooded | 0-14 | 25-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 14-24 | --- | 25-30 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 24-60 | 25-36 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| 273B: | | | | | | | | |
| Olmitz---------- | 0-6 | 18-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 6-10 | 18-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 10-16 | 18-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 16-20 | 18-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 20-36 | 18-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 36-79 | 18-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 273C: | | | | | | | | |
| Olmitz---------- | 0-6 | 18-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 6-28 | 18-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 28-48 | 18-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 48-79 | 18-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 312B: | | | | | | | | |
| Seymour---------- | 0-8 | 19-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-13 | 20-31 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 13-19 | 26-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 19-64 | 24-38 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 64-79 | 19-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 312C2: | | | | | | | | |
| Seymour---------- | 0-8 | 23-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-15 | 26-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 15-64 | 24-38 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 64-79 | 20-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 354: | | | | | | | | |
| Aquolls, channeled, ponded---------- | 0-80 | --- | --- | --- | --- | 0 | --- | --- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 362: | | | | | | | | |
| Haig | 0-7 | 19-23 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-13 | 22-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-38 | 26-37 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-79 | 19-29 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 364B: | | | | | | | | |
| Grundy | 0-12 | 23-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-17 | 24-34 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-35 | 26-37 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 35-60 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 60-79 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 423C2: | | | | | | | | |
| Bucknell | 0-8 | 22-28 | --- | 4.5-7.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 19-27 | --- | 4.5-7.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-18 | 26-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-43 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 43-79 | 21-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 423D: | | | | | | | | |
| Bucknell | 0-8 | 22-28 | --- | 4.5-7.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 19-27 | --- | 4.5-7.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-18 | 26-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-43 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 43-79 | 21-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 423D2: | | | | | | | | |
| Bucknell | 0-7 | 22-28 | --- | 4.5-7.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-9 | 19-27 | --- | 4.5-7.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-18 | 26-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-43 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 43-79 | 21-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 425D: | | | | | | | | |
| Keswick | 0-12 | 18-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-18 | 7.1-14 | --- | 4.5-6.6 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-36 | --- | 18-39 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 36-79 | 21-29 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| 425D2: | | | | | | | | |
| Keswick, moderately eroded | 0-7 | 22-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-34 | --- | 20-36 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-79 | 21-29 | --- | 4.5-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| 430: | | | | | | | | |
| Ackmore, occasionally flooded | 0-8 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 8-28 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 28-60 | 25-30 | --- | 5.6-7.8 | 5-10 | 0 | 0 | 0 |
| 451D2: | | | | | | | | |
| Caleb, moderately eroded | 0-8 | 19-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | --- | 7.2-13 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-34 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-58 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 58-68 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 68-79 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 451E2: | | | | | | | | |
| Caleb, moderately eroded | 0-8 | 19-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | --- | 7.2-13 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-34 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-58 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 58-68 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ---------- | 68-79 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 452C: | | | | | | | | |
| Lineville---------- | 0-8 | 16-25 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-11 | 15-21 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-15 | 19-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 15-33 | 14-27 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 33-55 | 19-40 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 55-79 | 17-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 452C2: | | | | | | | | |
| Lineville, moderately eroded--- | 0-8 | 16-25 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-15 | 19-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 15-33 | 14-27 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 33-55 | 19-40 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 55-79 | 17-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 453: | | | | | | | | |
| Tuskeego, rarely flooded---------- | 0-8 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 8-19 | 20-25 | --- | 5.1-7.3 | 0 | --- | --- | --- |
| ---------- | 19-24 | 30-36 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| ---------- | 24-60 | 20-30 | --- | 5.6-6.5 | 0 | --- | --- | --- |
| Tuskeego, rarely flooded---------- | 0-8 | 14-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-19 | 14-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 19-24 | 18-31 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 24-79 | 19-33 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 470D2: | | | | | | | | |
| Lamoni, moderately eroded---------- | 0-10 | 22-31 | --- | 5.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 10-24 | 25-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 24-53 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 53-79 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| Shelby, moderately eroded---------- | 0-7 | 22-29 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 7-49 | 19-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 49-60 | 17-27 | --- | 7.1-8.4 | 0-14 | 0 | 0.0-2.0 | 0 |
| ---------- | 60-79 | 19-27 | --- | 6.6-8.4 | 0-30 | 0 | 0.0-2.0 | 0 |
| 484: | | | | | | | | |
| Lawson, occasionally flooded---------- | 0-8 | 9.3-24 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-30 | 9.3-26 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 30-79 | 15-25 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 531B: | | | | | | | | |
| Kniffin---------- | 0-8 | --- | 9.3-21 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-14 | --- | 13-31 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 14-19 | --- | 15-33 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 19-40 | 33-39 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 40-60 | 21-34 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 60-68 | 18-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 18-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 531C: | | | | | | | | |
| Kniffin---------- | 0-8 | --- | 9.3-21 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-14 | --- | 13-31 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 14-19 | --- | 15-33 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 19-40 | 33-39 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 40-60 | 21-34 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 60-68 | 18-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 18-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 531C2: | | | | | | | | |
| Kniffin---------- | 0-8 | --- | 11-23 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-14 | --- | 15-33 | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 14-40 | 33-39 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 40-60 | 21-34 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 60-68 | 18-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 18-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 587: | | | | | | | | |
| Chequest, occasionally flooded | 0-7 | 24-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 7-12 | 24-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 12-35 | 24-31 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 35-79 | 24-31 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| 587+: | | | | | | | | |
| Chequest, overwash, occasionally flooded | 0-8 | 20-25 | --- | 5.1-7.3 | 0 | --- | --- | --- |
| ---------- | 8-12 | 20-25 | --- | 5.1-7.3 | 0 | --- | --- | --- |
| ---------- | 12-24 | 20-25 | --- | 5.1-7.3 | 0 | --- | --- | --- |
| ---------- | 24-60 | 25-30 | --- | 5.1-6.0 | 0 | --- | --- | --- |
| 592C2: | | | | | | | | |
| Mystic, moderately eroded---------- | 0-6 | 22-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 6-9 | 21-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 9-30 | 20-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 30-54 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 54-63 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 63-79 | 8.0-23 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 592D2: | | | | | | | | |
| Mystic, moderately eroded---------- | 0-6 | 22-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 6-9 | 21-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 9-30 | 20-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 30-54 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 54-63 | 21-36 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 63-79 | 8.0-23 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 711: | | | | | | | | |
| Lawson, occasionally flooded---------- | 0-8 | 9.3-30 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-30 | 9.3-26 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 30-60 | 15-25 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| Nodaway, occasionally flooded | 0-8 | 16-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-31 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 31-42 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 42-80 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| Colo, occasionally flooded---------- | 0-8 | 23-30 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-40 | 25-29 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| ---------- | 40-46 | 25-29 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| ---------- | 46-52 | 20-28 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 52-60 | 18-28 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| 716: | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Lawson, occasionally flooded | 0-8 | 9.3-30 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| | 8-30 | 9.3-26 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| | 30-80 | 15-25 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| Quiver, occasionally flooded | 0-8 | 22-29 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| | 8-80 | 14-28 | --- | 6.6-8.4 | 0 | 0 | --- | --- |
| Nodaway, occasionally flooded | 0-8 | 16-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| | 8-31 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| | 31-42 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| | 42-80 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| 792C: | | | | | | | | |
| Armstrong | 0-7 | 22-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 7-11 | 25-30 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 11-14 | 21-28 | --- | 5.1-7.3 | 0 | 0 | --- | --- |
| | 14-18 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 18-31 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 31-60 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 60-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| 792C2: | | | | | | | | |
| Armstrong, moderately eroded | 0-5 | 22-28 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 5-11 | 21-31 | --- | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-31 | 28-43 | --- | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-79 | 20-29 | --- | 5.1-7.8 | 0-2 | 0 | 0.0-2.0 | 0 |
| 792D: | | | | | | | | |
| Armstrong | 0-9 | 11-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-13 | 13-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-16 | 13-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 16-20 | --- | 12-28 | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-30 | --- | 14-26 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-41 | --- | 20-39 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 41-48 | 20-29 | --- | 5.1-7.8 | 0-2 | 0 | 0.0-2.0 | 0 |
| | 48-79 | 17-28 | --- | 5.6-8.4 | 0 | 0 | 0.0-2.0 | 0 |
| 792D2: | | | | | | | | |
| Armstrong, moderately eroded | 0-8 | 13-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-11 | 21-28 | --- | 5.1-7.3 | 0 | 0 | --- | --- |
| | 11-14 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 14-26 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 26-54 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 54-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 792D3: | | | | | | | | |
| Armstrong, severely eroded | 0-8 | 22-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-11 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 11-23 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 23-51 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 51-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| 822C: | | | | | | | | |
| Lamoni | 0-9 | 22-32 | --- | 5.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-16 | 22-32 | --- | 5.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 16-24 | 25-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-53 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 53-79 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 822C2: | | | | | | | | |
| Lamoni, moderately eroded | 0-6 | 25-30 | --- | 5.5-7.3 | 0 | 0 | 0 | 0 |
| | 6-34 | 41-50 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 34-60 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 822D: | | | | | | | | |
| Lamoni | 0-9 | 22-32 | --- | 5.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-16 | 22-32 | --- | 5.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 16-24 | 25-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-53 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 53-79 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 822D2: | | | | | | | | |
| Lamoni | 0-11 | 22-31 | --- | 5.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-24 | 25-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-53 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 53-79 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 831B: | | | | | | | | |
| Pershing, terrace | 0-8 | 17-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | 20-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-60 | 24-34 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 60-79 | 17-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 831C: | | | | | | | | |
| Pershing, terrace | 0-8 | 18-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | 22-29 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-60 | 26-39 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 60-79 | 19-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 831C2: | | | | | | | | |
| Pershing, moderately eroded, terrace | 0-4 | 20-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 4-12 | 21-27 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-55 | 24-34 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 17-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 894D2: | | | | | | | | |
| Bucknell, moderately eroded | 0-6 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 6-49 | --- | 36-41 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 49-60 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| Gara, moderately eroded | 0-7 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 7-47 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 47-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 993D2: | | | | | | | | |
| Gara, moderately eroded | 0-7 | 22-29 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-31 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-40 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 40-79 | 17-29 | --- | 5.6-8.4 | 0-20 | 0 | 0.0-2.0 | 0 |
| Armstrong, moderately eroded | 0-8 | 22-27 | --- | 5.6-7.2 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 13-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-14 | --- | 14-26 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 14-26 | --- | 20-39 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 26-54 | 20-29 | --- | 5.1-7.8 | 0-2 | 0 | 0.0-2.0 | 0 |
| | 54-79 | 17-28 | --- | 5.6-8.4 | 0 | 0 | 0.0-2.0 | 0 |
| 1313D2: | | | | | | | | |
| Munterville, moderately eroded | 0-8 | 8.1-19 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | 16-19 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-17 | 15-26 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-47 | --- | 12-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 47-75 | --- | 10-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 75-79 | --- | --- | --- | --- | --- | --- | --- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1313E2: | | | | | | | | |
| Munterville, moderately eroded--- | 0-8 | 8.1-19 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-13 | 16-19 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 13-17 | 15-26 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-47 | --- | 12-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 47-75 | --- | 10-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 75-79 | --- | --- | --- | --- | --- | --- | --- |
| 1313F: | | | | | | | | |
| Munterville---------- | 0-4 | 5.5-14 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 4-8 | 11-15 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-17 | 15-26 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-47 | --- | 12-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 47-75 | --- | 10-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 75-79 | --- | --- | --- | --- | --- | --- | --- |
| 1313F2: | | | | | | | | |
| Munterville, moderately eroded--- | 0-8 | 8.1-19 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-13 | 16-19 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 13-17 | 15-26 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-47 | --- | 12-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 47-75 | --- | 10-37 | 3.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 75-79 | --- | --- | --- | --- | --- | --- | --- |
| 1711: | | | | | | | | |
| Lawson, channeled, frequently flooded-- | 0-8 | 9.3-30 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-30 | 9.3-26 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 30-60 | 15-25 | --- | 6.1-7.3 | 0 | 0 | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| Nodaway, channeled, frequently flooded-- | 0-8 | 16-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-31 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 31-42 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 42-80 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| Colo, channeled, frequently flooded-- | 0-8 | 23-30 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-40 | 25-29 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| ---------- | 40-46 | 25-29 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| ---------- | 46-52 | 20-28 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 52-60 | 18-28 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| 1716: | | | | | | | | |
| Lawson, channeled, frequently flooded-- | 0-8 | 9.3-30 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-30 | 9.3-26 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 30-80 | 15-25 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| Quiver, channeled, frequently flooded-- | 0-8 | 22-29 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| ---------- | 8-80 | 14-28 | --- | 6.6-8.4 | 0 | 0 | --- | --- |
| Nodaway, channeled, frequently flooded-- | 0-8 | 16-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 8-31 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 31-42 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| ---------- | 42-80 | 13-23 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| 5021: | | | | | | | | |
| Orthents---------- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5025: | | | | | | | | |
| Strip mines---------- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5040: | | | | | | | | |
| Udorthents, loamy---- | --- | --- | --- | --- | --- | --- | --- | --- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5049: | | | | | | | | |
| Aquolls | --- | --- | --- | --- | --- | --- | --- | --- |
| Udorthents, loamy | --- | --- | --- | --- | --- | --- | --- | --- |
| SL: | | | | | | | | |
| Sewage lagoon | --- | --- | --- | --- | --- | --- | --- | --- |
| W: | | | | | | | | |
| Water | --- | --- | --- | --- | --- | --- | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 7: | | | | | | | | |
| Wiota, rarely flooded | 0-22 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 22-38 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 38-60 | 20-25 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| 7B: | | | | | | | | |
| Wiota | 0-22 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 22-38 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 38-60 | 20-25 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| 8B: | | | | | | | | |
| Judson | 0-9 | 20-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-22 | 20-29 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 22-28 | 22-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 28-35 | 21-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 35-52 | 19-28 | --- | 6.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-79 | 17-26 | --- | 5.3-7.8 | 0-10 | 0 | 0.0-2.0 | 0 |
| 11B: | | | | | | | | |
| Colo | 0-25 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 25-40 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 40-60 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| Ely | 0-22 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 22-55 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 55-60 | 25-30 | --- | 6.6-8.4 | 0-25 | 0 | 0 | 0 |
| 23C: | | | | | | | | |
| Arispe | 0-8 | 23-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-13 | 23-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 13-53 | 28-31 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 53-79 | 17-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 23C2: | | | | | | | | |
| Arispe | 0-8 | 23-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-49 | 28-31 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 49-79 | 17-26 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 24F2: | | | | | | | | |
| Shelby, moderately eroded | 0-7 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 7-11 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 11-44 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 44-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| 43: | | | | | | | | |
| Bremer, occasionally flooded | 0-8 | 36-41 | --- | 5.6-7.3 | 0 | --- | --- | --- |
| | 8-19 | 36-41 | --- | 5.6-7.3 | 0 | --- | --- | --- |
| | 19-42 | 36-41 | --- | 5.6-6.5 | 0 | --- | --- | --- |
| | 42-60 | 30-36 | --- | 5.6-6.5 | 0 | --- | --- | --- |
| 51: | | | | | | | | |
| Vesser, occasionally flooded | 0-12 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 12-26 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ---------- | 26-60 | 25-30 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 51B: | | | | | | | | |
| Vesser, occasionally flooded---------- | 0-12 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 12-26 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 26-60 | 25-30 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 54: | | | | | | | | |
| Zook, occasionally flooded---------- | 0-7 | 25-34 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 7-20 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 20-38 | 27-37 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 38-61 | 24-36 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 61-79 | 22-32 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 63C2: | | | | | | | | |
| Chelsea, moderately eroded---------- | 0-5 | 5.0-10 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 5-60 | 5.0-10 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 63D2: | | | | | | | | |
| Chelsea, eroded------ | 0-8 | 1.0-7.8 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-36 | 0.8-6.1 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 36-70 | 0.8-7.4 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 65D: | | | | | | | | |
| Lindley---------- | 0-8 | 15-20 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 8-47 | 15-20 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 47-60 | 10-16 | --- | 6.1-7.8 | 0 | 0 | 0 | 0 |
| 65E: | | | | | | | | |
| Lindley---------- | 0-8 | 15-20 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 8-47 | 15-20 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 47-60 | 10-16 | --- | 6.1-7.8 | 0 | 0 | 0 | 0 |
| 65E3: | | | | | | | | |
| Lindley, severely eroded---------- | 0-6 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 6-40 | 15-20 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 40-60 | 10-16 | --- | 6.1-7.8 | 0 | 0 | 0 | 0 |
| 65F: | | | | | | | | |
| Lindley---------- | 0-8 | 15-20 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 8-47 | 15-20 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 47-60 | 10-16 | --- | 6.1-7.8 | 0 | 0 | 0 | 0 |
| 65G: | | | | | | | | |
| Lindley---------- | 0-8 | 15-20 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 8-47 | 15-20 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 47-60 | 10-16 | --- | 6.1-7.8 | 0 | 0 | 0 | 0 |
| 69C: | | | | | | | | |
| Clearfield---------- | 0-18 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 18-41 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 41-60 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 69C2: | | | | | | | | |
| Clearfield, moderately eroded--- | 0-18 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 18-41 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 41-60 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion |
|---|---|---|---|---|---|---|---|---|

| | | | capacity | | | | | ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 75: | | | | | | | | |
| Givin---------- | 0-11 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 11-53 | --- | 20-25 | 5.1-5.5 | 0 | 0 | 0 | 0 |
| ---------- | 53-60 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| 76B: | | | | | | | | |
| Ladoga---------- | 0-9 | 20-25 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 9-42 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 76C: | | | | | | | | |
| Ladoga---------- | 0-9 | 20-25 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 9-42 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 76C2: | | | | | | | | |
| Ladoga, moderately eroded---------- | 0-9 | 20-25 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 9-42 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 76D2: | | | | | | | | |
| Ladoga, moderately eroded---------- | 0-9 | 20-25 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 9-42 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 80B: | | | | | | | | |
| Clinton---------- | 0-8 | 16-24 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-15 | 13-20 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 15-20 | --- | 14-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 20-27 | --- | 15-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 27-39 | --- | 18-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 39-47 | --- | 18-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 47-58 | --- | 15-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 58-72 | --- | 14-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 72-79 | 13-24 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 80C2: | | | | | | | | |
| Clinton, eroded------ | 0-6 | 15-24 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 6-11 | 15-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-16 | --- | 14-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 16-23 | --- | 15-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 23-35 | --- | 18-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 35-43 | --- | 18-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 43-54 | --- | 15-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 54-68 | --- | 14-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 13-24 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 80D2: | | | | | | | | |
| Clinton, eroded------ | 0-6 | 15-24 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 6-11 | 15-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-16 | --- | 14-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 16-23 | --- | 15-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 23-35 | --- | 18-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 35-43 | --- | 18-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 43-54 | --- | 15-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 54-68 | --- | 14-30 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 13-24 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 88: | | | | | | | | |
| Nevin, rarely flooded | 0-22 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 22-43 | 30-36 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 43-60 | 25-30 | --- | 6.6-7.3 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 88B: | | | | | | | | |
| Nevin, rarely flooded | 0-22 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 22-43 | 30-36 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| | 43-60 | 25-30 | --- | 6.6-7.3 | 0 | 0 | 0 | 0 |
| 93D2: | | | | | | | | |
| Adair, moderately eroded | 0-7 | 20-30 | --- | 5.6-7.3 | 0 | --- | --- | --- |
| | 7-42 | 41-50 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| | 42-60 | 25-30 | --- | 5.6-7.8 | 5-10 | --- | --- | --- |
| Shelby, moderately eroded | 0-7 | 20-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 7-11 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 11-44 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 44-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| 93E2: | | | | | | | | |
| Adair, moderately eroded | 0-7 | 20-30 | --- | 5.6-7.3 | 0 | --- | --- | --- |
| | 7-42 | 41-50 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| | 42-60 | 25-30 | --- | 5.6-7.8 | 5-10 | --- | --- | --- |
| Shelby, moderately eroded | 0-7 | 20-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 7-11 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 11-44 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 44-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| 93E3: | | | | | | | | |
| Adair, severely eroded | 0-8 | 25-30 | --- | 5.1-7.3 | 0 | --- | --- | --- |
| | 8-16 | 41-50 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| | 16-35 | 41-50 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| | 35-80 | 25-30 | --- | 5.6-7.8 | 5-10 | --- | --- | --- |
| Shelby, severely eroded | 0-6 | 20-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 6-36 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 36-60 | 20-25 | --- | 6.6-8.4 | 0-30 | 0 | 0 | 0 |
| 94D2: | | | | | | | | |
| Mystic, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | --- | --- | --- |
| | 8-32 | 25-30 | --- | 4.5-6.5 | 0 | --- | --- | --- |
| | 32-40 | 20-25 | --- | 6.1-6.5 | 0 | --- | --- | --- |
| | 40-60 | 15-25 | --- | 6.1-7.3 | 0 | --- | --- | --- |
| Caleb, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 8-39 | --- | 20-25 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 39-60 | 5.0-25 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 94E2: | | | | | | | | |
| Mystic, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | --- | --- | --- |
| | 8-32 | 25-30 | --- | 4.5-6.5 | 0 | --- | --- | --- |
| | 32-40 | 20-25 | --- | 6.1-6.5 | 0 | --- | --- | --- |
| | 40-60 | 15-25 | --- | 6.1-7.3 | 0 | --- | --- | --- |
| Caleb, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 8-39 | 20-25 | 20-25 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 39-60 | 5.0-25 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| 119: | | | | | | | | |
| Muscatine | 0-7 | 21-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-16 | 21-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 16-20 | 22-29 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 20-42 | 21-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 42-79 | 16-27 | --- | 5.6-7.8 | 0-15 | 0 | 0.0-2.0 | 0 |
| 120: | | | | | | | | |
| Tama | 0-6 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-10 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 10-14 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 14-18 | 20-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-32 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 32-45 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 45-60 | 14-23 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 120B: | | | | | | | | |
| Tama | 0-6 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-10 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 10-14 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 14-18 | 20-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-32 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 32-45 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 45-60 | 14-23 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 120C2: | | | | | | | | |
| Tama, eroded | 0-6 | 20-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-12 | 20-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-20 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-33 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-60 | 14-23 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 120D2: | | | | | | | | |
| Tama, eroded | 0-6 | 20-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-12 | 20-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-20 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-33 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-60 | 14-23 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 122: | | | | | | | | |
| Sperry | 0-8 | 25-30 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-10 | 25-30 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 10-17 | 20-25 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 17-28 | 30-36 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 28-47 | 30-36 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 47-79 | 25-30 | --- | 5.6-6.5 | 0 | 0 | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 131B: | | | | | | | | |
| Pershing | 0-7 | 17-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-12 | 19-26 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-55 | 19-36 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 17-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 131C2: | | | | | | | | |
| Pershing, moderately eroded | 0-4 | 17-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 4-12 | 19-26 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-55 | 19-36 | --- | 5.1-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 55-79 | 17-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 131D2: | | | | | | | | |
| Pershing, moderately eroded | 0-7 | 25-30 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 7-13 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 13-43 | 30-36 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 43-60 | 25-30 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 132B: | | | | | | | | |
| Weller | 0-7 | 9.3-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-9 | 9.3-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 9-15 | 19-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 15-24 | --- | 14-29 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-67 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 67-79 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 132C2: | | | | | | | | |
| Weller, moderately eroded | 0-7 | 9.3-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-18 | 19-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-25 | --- | 14-29 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 25-67 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 18-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| 133: | | | | | | | | |
| Colo, occasionally flooded | 0-8 | 19-30 | --- | 5.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-34 | 20-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-46 | 24-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 46-52 | 23-28 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-79 | 19-28 | --- | 6.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| 133B: | | | | | | | | |
| Colo, occasionally flooded | 0-8 | 19-30 | --- | 5.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-34 | 20-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-46 | 24-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 46-52 | 23-28 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-79 | 19-28 | --- | 6.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| 172: | | | | | | | | |
| Wabash, occasionally flooded | 0-60 | 0.0-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 179D2: | | | | | | | | |
| Gara, moderately eroded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 179E2: | | | | | | | | |
| Gara, moderately eroded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 179F2: | | | | | | | | |
| Gara, moderately eroded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 179G: | | | | | | | | |
| Gara | 0-14 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 20-25 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 20-25 | --- | 6.6-8.4 | 0-25 | 0 | 0 | 0 |
| 185D2: | | | | | | | | |
| Bauer, moderately eroded | 0-8 | 25-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 8-26 | 41-50 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 26-60 | --- | --- | --- | 0 | --- | --- | --- |
| 185E2: | | | | | | | | |
| Bauer, moderately eroded | 0-8 | 25-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 8-26 | 41-50 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 26-60 | --- | --- | --- | 0 | --- | --- | --- |
| 185E3: | | | | | | | | |
| Bauer, severely eroded | 0-12 | 25-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 12-26 | 41-50 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 26-60 | --- | --- | --- | --- | --- | --- | --- |
| 212: | | | | | | | | |
| Kennebec, occasionally flooded | 0-41 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 41-60 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| 220: | | | | | | | | |
| Nodaway, occasionally flooded | 0-7 | 14-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-79 | 11-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 222C: | | | | | | | | |
| Clarinda | 0-8 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-19 | 26-39 | --- | 5.1-6.5 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 19-67 | 26-42 | --- | 5.1-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 25-36 | --- | 5.6-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| 222C2: | | | | | | | | |
| Clarinda, moderately eroded | 0-8 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-16 | 26-39 | --- | 5.1-6.5 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 16-67 | 26-42 | --- | 5.1-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |
| | 67-79 | 26-36 | --- | 5.6-7.3 | 0-5 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 222D2: | | | | | | | | |
| Clarinda, moderately eroded | 0-14 | 36-41 | --- | 5.1-7.3 | 0 | --- | --- | --- |
| | 14-42 | 41-50 | --- | 5.1-6.5 | 0 | --- | --- | --- |
| | 42-60 | 41-50 | --- | 5.6-8.4 | 0-30 | --- | --- | --- |
| 248: | | | | | | | | |
| Wabash, occasionally flooded | 0-9 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 9-60 | 28-42 | --- | 5.1-7.8 | 0 | 0 | 0 | 0 |
| 269: | | | | | | | | |
| Humeston, occasionally flooded | 0-8 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 8-13 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 13-22 | 17-21 | --- | 5.1-7.3 | 0 | 0 | 0 | --- |
| | 22-26 | 23-27 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 26-50 | 27-36 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 50-60 | 23-29 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| 273B: | | | | | | | | |
| Olmitz | 0-7 | 21-25 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-30 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-60 | 16-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 273C: | | | | | | | | |
| Olmitz | 0-7 | 21-25 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-30 | 22-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 30-60 | 16-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 315: | | | | | | | | |
| Alluvial land, Frequently flooded | 0-9 | 5.0-10 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 9-60 | 5.0-10 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 368: | | | | | | | | |
| Macksburg | 0-6 | 25-28 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 6-24 | 25-28 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 24-42 | 28-33 | --- | 5.1-7.3 | 0 | 0 | 0 | --- |
| | 42-73 | 21-25 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| 368B: | | | | | | | | |
| Macksburg | 0-6 | 25-28 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ---------- | 6-24 | 25-28 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| ---------- | 24-42 | 28-33 | --- | 5.1-7.3 | 0 | 0 | 0 | --- |
| ---------- | 42-73 | 21-25 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| 369: | | | | | | | | |
| Winterset---------- | 0-19 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 19-50 | 36-41 | --- | 5.6-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 50-60 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| 370: | | | | | | | | |
| Sharpsburg---------- | 0-8 | 20-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-17 | 23-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-31 | 25-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-38 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 38-46 | 26-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 46-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 370B: | | | | | | | | |
| Sharpsburg---------- | 0-8 | 20-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-17 | 23-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-31 | 25-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-38 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 38-46 | 26-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 46-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 370C: | | | | | | | | |
| Sharpsburg---------- | 0-8 | 20-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-17 | 23-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-31 | 25-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-38 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 38-46 | 26-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 46-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 370C2: | | | | | | | | |
| Sharpsburg, eroded--- | 0-7 | 26-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 7-21 | 25-31 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 21-40 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 40-48 | 26-27 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 48-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 370D2: | | | | | | | | |
| Sharpsburg, eroded--- | 0-7 | 26-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 7-21 | 25-31 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 21-40 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 40-48 | 26-27 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 48-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 422: | | | | | | | | |
| Amana, occasionally flooded---------- | 0-16 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 16-44 | 25-30 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| ---------- | 44-60 | 25-30 | --- | 5.6-6.5 | 0 | 0 | 0 | 0 |
| 425D: | | | | | | | | |
| Keswick---------- | 0-11 | 20-25 | --- | 4.5-7.3 | 0 | --- | --- | --- |
| ---------- | 11-43 | --- | 30-50 | 4.5-6.0 | 0 | --- | --- | --- |
| ---------- | 43-60 | 30-36 | --- | 4.5-7.8 | 0-15 | --- | --- | --- |
| 427C2: | | | | | | | | |
| Ladoga, moderately eroded---------- | 0-9 | 10-30 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 9-42 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| Chelsea, moderately eroded---------- | 0-17 | 10-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 17-60 | 5.0-10 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| 427D2: | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ladoga, moderately eroded | 0-9 | 10-30 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 9-42 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| Chelsea, moderately eroded | 0-17 | 10-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 17-60 | 5.0-10 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 428B: | | | | | | | | |
| Ely | 0-22 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 22-55 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 55-60 | 25-30 | --- | 6.6-8.4 | 0-25 | 0 | 0 | 0 |
| 430: | | | | | | | | |
| Ackmore, occasionally flooded | 0-6 | 19-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-25 | 20-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 25-60 | 23-32 | --- | 5.6-7.8 | 0-10 | 0 | 0.0-2.0 | 0 |
| 434D: | | | | | | | | |
| Arbor | 0-18 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 18-43 | 25-30 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 43-60 | 25-30 | --- | 6.6-8.4 | 0-25 | 0 | 0 | 0 |
| 451D2: | | | | | | | | |
| Caleb, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 8-39 | --- | 20-25 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 39-60 | 5.0-25 | --- | 6.1-6.5 | 0 | 0 | 0 | 0 |
| 478: | | | | | | | | |
| Steep rock land | --- | --- | --- | --- | --- | --- | --- | --- |
| 502: | | | | | | | | |
| Strip mines | --- | --- | --- | --- | --- | --- | --- | --- |
| 570B: | | | | | | | | |
| Nira | 0-9 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 9-44 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 44-60 | 25-30 | --- | 5.6-6.5 | 0 | 0 | 0 | 0 |
| 570C2: | | | | | | | | |
| Nira, moderately eroded | 0-9 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 9-44 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 44-60 | 25-30 | --- | 5.6-6.5 | 0 | 0 | 0 | 0 |
| 592C2: | | | | | | | | |
| Mystic, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | --- | --- | --- |
| | 8-32 | 25-30 | --- | 4.5-6.5 | 0 | --- | --- | --- |
| | 32-40 | 20-25 | --- | 6.1-6.5 | 0 | --- | --- | --- |
| | 40-60 | 15-25 | --- | 6.1-7.3 | 0 | --- | --- | --- |
| 592D2: | | | | | | | | |
| Mystic, moderately eroded | 0-8 | 20-25 | --- | 4.5-7.3 | 0 | --- | --- | --- |
| | 8-32 | 25-30 | --- | 4.5-6.5 | 0 | --- | --- | --- |
| | 32-40 | 20-25 | --- | 6.1-6.5 | 0 | --- | --- | --- |
| | 40-60 | 15-25 | --- | 6.1-7.3 | 0 | --- | --- | --- |
| 687B: | | | | | | | | |
| Watkins | 0-15 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 15-49 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 49-60 | 20-25 | --- | 5.6-6.5 | 0 | 0 | 0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| 792D2: | | | | | | | | |
| Armstrong, moderately eroded | 0-8 | 22-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-11 | 21-28 | --- | 5.1-7.3 | 0 | 0 | --- | --- |
| | 11-14 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 14-26 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 26-54 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 54-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| 822D2: | | | | | | | | |
| Lamoni, moderately eroded | 0-11 | 25-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 11-50 | 41-50 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 50-60 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 822D3: | | | | | | | | |
| Lamoni, severely eroded | 0-7 | 25-30 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 7-45 | 41-50 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| | 45-60 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| 864B: | | | | | | | | |
| Grundy | 0-12 | 23-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-17 | 24-34 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-35 | 26-37 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 35-60 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 60-79 | 21-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| 980B: | | | | | | | | |
| Gullied land | 0-61 | --- | --- | --- | --- | --- | --- | --- |
| Ely | 0-22 | 30-36 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 22-55 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 55-60 | 25-30 | --- | 6.6-8.4 | 0-25 | 0 | 0 | 0 |
| Colo, occasionally flooded | 0-25 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 25-40 | 36-41 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 40-60 | 30-36 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| 993D2: | | | | | | | | |
| Armstrong, moderately eroded | 0-8 | 22-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-11 | 21-28 | --- | 5.1-7.3 | 0 | 0 | --- | --- |
| | 11-14 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 14-26 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 26-54 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 54-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| Gara, moderately eroded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 993E2: | | | | | | | | |
| Armstrong, moderately eroded | 0-8 | 22-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-11 | 21-28 | --- | 5.1-7.3 | 0 | 0 | --- | --- |
| | 11-14 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 14-26 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 26-54 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 54-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Gara, moderately eroded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 993E3: | | | | | | | | |
| Armstrong, severely eroded | 0-8 | 22-28 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 8-11 | 21-28 | --- | 5.1-6.5 | 0 | 0 | --- | --- |
| | 11-23 | 24-43 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 23-51 | 21-28 | --- | 4.5-6.5 | 0 | 0 | --- | --- |
| | 51-80 | 19-26 | --- | 5.6-7.8 | 0 | 0 | --- | --- |
| Gara, severely eroded | 0-14 | 25-30 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 14-40 | 25-30 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 40-60 | 25-30 | --- | 5.6-8.4 | 0-25 | 0 | 0 | 0 |
| 1313D: | | | | | | | | |
| Munterville | 0-4 | 8.0-19 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 4-8 | 13-21 | --- | 5.6-6.5 | 0 | 0 | 0 | --- |
| | 8-17 | 11-27 | --- | 5.1-6.5 | 0 | 0 | 0 | --- |
| | 17-47 | --- | 1.2-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 47-75 | --- | 1.1-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 75-79 | --- | --- | --- | 0 | 0 | --- | --- |
| 1313E: | | | | | | | | |
| Munterville | 0-4 | 8.0-19 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 4-8 | 13-21 | --- | 5.6-6.5 | 0 | 0 | 0 | --- |
| | 8-17 | 11-27 | --- | 5.1-6.5 | 0 | 0 | 0 | --- |
| | 17-47 | --- | 1.2-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 47-75 | --- | 1.1-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 75-79 | --- | --- | --- | 0 | 0 | --- | --- |
| 1313E3: | | | | | | | | |
| Munterville, severely eroded | 0-8 | 8.0-19 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 8-38 | --- | 1.2-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 38-66 | --- | 1.1-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 66-79 | --- | --- | --- | 0 | 0 | --- | --- |
| 1313F: | | | | | | | | |
| Munterville | 0-4 | 8.0-19 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 4-8 | 13-21 | --- | 5.6-6.5 | 0 | 0 | 0 | --- |
| | 8-17 | 11-27 | --- | 5.1-6.5 | 0 | 0 | 0 | --- |
| | 17-47 | --- | 1.2-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 47-75 | --- | 1.1-14 | 3.5-6.5 | 0 | 0 | 0 | --- |
| | 75-79 | --- | --- | --- | 0 | 0 | --- | --- |
| 5010: | | | | | | | | |
| Pits, sand and gravel | --- | --- | --- | --- | --- | --- | --- | --- |
| 5040: | | | | | | | | |
| Udorthents, loamy | --- | --- | --- | --- | --- | --- | --- | --- |
| AW: | | | | | | | | |
| Animal waste lagoon | --- | --- | --- | --- | --- | --- | --- | --- |
| BW: | | | | | | | | |
| Built wetland | --- | --- | --- | --- | --- | --- | --- | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| C220: | | | | | | | | |
| Nodaway, frequently flooded, channeled | 0-7 | 13-25 | --- | 5.6-7.3 | 0 | 0 | --- | --- |
| | 7-80 | 12-22 | --- | 6.1-7.3 | 0 | 0 | --- | --- |
| C315: | | | | | | | | |
| Alluvial land, | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| frequently flooded, channeled | 0-9 | 10-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| | 9-60 | 5.0-10 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| INT: | | | | | | | | |
| Intermittent water | --- | --- | --- | --- | --- | --- | --- | --- |
| M162: | | | | | | | | |
| Downs | 0-8 | 16-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-12 | 16-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-17 | 15-21 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-24 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-33 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-39 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 39-48 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 48-79 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| M162B: | | | | | | | | |
| Downs | 0-8 | 16-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-12 | 16-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-17 | 15-21 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-24 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-33 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-39 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 39-48 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 48-79 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| M162C2: | | | | | | | | |
| Downs, eroded | 0-6 | 16-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-12 | 15-21 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-24 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-33 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-39 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 39-48 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 48-79 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| M162D2: | | | | | | | | |
| Downs, eroded | 0-6 | 16-22 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-12 | 15-21 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 12-24 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 24-33 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 33-39 | 19-25 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 39-48 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 48-79 | 14-21 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| M163B: | | | | | | | | |
| Fayette | 0-8 | 13-23 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 13-21 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-14 | 16-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 14-26 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 26-34 | --- | 11-18 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-47 | --- | 9.3-17 | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| | 47-79 | 13-23 | --- | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| M163C2: | | | | | | | | |
| Fayette, eroded | 0-8 | 13-23 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 16-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-23 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 23-31 | --- | 11-18 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-44 | --- | 9.3-17 | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| | 44-79 | 13-23 | --- | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| M163D2: | | | | | | | | |
| Fayette, eroded | 0-8 | 13-23 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-11 | 16-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 11-23 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 23-31 | --- | 11-18 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-44 | --- | 9.3-17 | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| | 44-79 | 13-23 | --- | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M163E2: | | | | | | | | |
| Fayette, eroded------ | 0-8 | 13-23 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-11 | 16-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-23 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 23-31 | --- | 11-18 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-44 | --- | 9.3-17 | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| ---------- | 44-79 | 13-23 | --- | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| M163F2: | | | | | | | | |
| Fayette, eroded------ | 0-8 | 13-23 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-11 | 16-28 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-23 | 17-28 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 23-31 | --- | 11-18 | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-44 | --- | 9.3-17 | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| ---------- | 44-79 | 13-23 | --- | 4.5-7.8 | 0-8 | 0 | 0.0-2.0 | 0 |
| S54: | | | | | | | | |
| Zook, occasionally flooded---------- | 0-8 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-20 | 26-36 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 20-38 | 25-35 | --- | 5.6-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 38-52 | 28-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 52-61 | 21-35 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 61-79 | 15-33 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| S192D2: | | | | | | | | |
| Adair, moderately eroded---------- | 0-8 | 21-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-17 | 28-43 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 17-51 | 21-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 51-68 | 21-28 | --- | 7.4-8.4 | 5-25 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 21-28 | --- | 6.1-7.8 | 0-20 | 0 | 0.0-2.0 | 0 |
| S220: | | | | | | | | |
| Nodaway, occasionally flooded | 0-7 | 16-29 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 7-31 | 15-28 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 31-42 | 13-28 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 42-79 | 13-27 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| S451D2: | | | | | | | | |
| Caleb, moderately eroded---------- | 0-8 | 19-22 | --- | 4.5-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-13 | --- | 7.2-13 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 13-34 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 34-58 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 58-68 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 68-79 | 7.6-26 | --- | 6.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| S792D2: | | | | | | | | |
| Armstrong, moderately eroded--- | 0-8 | 11-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 8-11 | 13-22 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 11-14 | --- | 12-28 | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 14-18 | --- | 14-26 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 18-26 | --- | 20-39 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| ---------- | 26-54 | 20-29 | --- | 5.1-7.8 | 0-2 | 0 | 0.0-2.0 | 0 |
| ---------- | 54-79 | 17-28 | --- | 5.6-8.4 | 0 | 0 | 0.0-2.0 | 0 |
| SL: | | | | | | | | |
| Sewage lagoon-------- | --- | --- | --- | --- | --- | --- | --- | --- |
| T76B: | | | | | | | | |
| Ladoga, terrace------ | 0-9 | 20-25 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| ---------- | 9-42 | 20-25 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| ---------- | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| T76C2: | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ladoga, moderately eroded, terrace----- | 0-9 | 20-25 | --- | 6.1-7.3 | 0 | 0 | 0 | 0 |
| | 9-42 | 25-30 | --- | 5.1-6.0 | 0 | 0 | 0 | 0 |
| | 42-60 | 20-25 | --- | 5.1-6.5 | 0 | 0 | 0 | 0 |
| T119: | | | | | | | | |
| Muscatine, terrace--- | 0-7 | 21-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-16 | 21-30 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 16-20 | 22-29 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 20-42 | 21-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 42-79 | 16-27 | --- | 5.6-7.8 | 0-15 | 0 | 0.0-2.0 | 0 |
| T120B: | | | | | | | | |
| Tama---------- | 0-6 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 6-10 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 10-14 | 19-25 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 14-18 | 20-26 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 18-32 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 32-45 | 19-28 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 45-60 | 14-23 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| T162B: | | | | | | | | |
| Downs, terrace------- | 0-12 | 20-25 | --- | 5.1-7.3 | 0 | 0 | 0 | 0 |
| | 12-48 | 20-25 | --- | 4.5-7.3 | 0 | 0 | 0 | 0 |
| | 48-60 | 20-25 | --- | 5.6-7.3 | 0 | 0 | 0 | 0 |
| T368: | | | | | | | | |
| Macksburg, terrace--- | 0-6 | 25-28 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 6-24 | 25-28 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |
| | 24-42 | 28-33 | --- | 5.1-7.3 | 0 | 0 | 0 | --- |
| | 42-73 | 21-25 | --- | 5.6-7.3 | 0 | 0 | 0 | --- |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| T370: | | | | | | | | |
| Sharpsburg, terrace-- | 0-8 | 20-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-17 | 23-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-31 | 25-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-38 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-46 | 26-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 46-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| T370B: | | | | | | | | |
| Sharpsburg, terrace-- | 0-8 | 20-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-17 | 23-27 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-31 | 25-32 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 31-38 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 38-46 | 26-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 46-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| T370C2: | | | | | | | | |
| Sharpsburg, eroded, terrace---------- | 0-7 | 26-29 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-21 | 25-31 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 21-40 | 24-30 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 40-48 | 26-27 | --- | 5.6-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 48-79 | 22-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| W: | | | | | | | | |
| Water---------- | --- | --- | --- | --- | --- | --- | --- | --- |
| Y11B: | | | | | | | | |
| Colo, occasionally flooded---------- | 0-8 | 19-30 | --- | 5.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-34 | 20-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 34-46 | 24-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 46-52 | 23-28 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-79 | 19-28 | --- | 6.1-7.8 | 0 | 0 | 0.0-2.0 | 0 |
| Ely---------- | 0-8 | 18-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-32 | 23-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 32-58 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 58-79 | 15-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| Y24D2: | | | | | | | | |
| Shelby, dissected till plain, eroded-- | 0-7 | 22-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-37 | 25-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 37-45 | 19-24 | --- | 7.4-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| | 45-79 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| Y24E2: | | | | | | | | |
| Shelby, dissected till plain, eroded-- | 0-7 | 22-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-37 | 25-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 37-45 | 19-24 | --- | 7.4-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| | 45-79 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| Y24F2: | | | | | | | | |
| Shelby, dissected till plain, eroded-- | 0-7 | 22-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-37 | 25-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 37-45 | 19-24 | --- | 7.4-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| | 45-79 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| Y93D2: | | | | | | | | |
| Shelby, dissected till plain, eroded-- | 0-7 | 22-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-37 | 25-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 37-45 | 19-24 | --- | 7.4-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| | 45-79 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| Adair, dissected till plain, eroded-- | 0-7 | 22-29 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-17 | 28-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-59 | 22-30 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 59-74 | 20-28 | --- | 6.1-8.4 | 0-20 | 0 | 0.0-2.0 | 0 |
| | 74-79 | 20-24 | --- | 6.1-7.8 | 0-10 | 0 | 0.0-2.0 | 0 |
| Y93E2: | | | | | | | | |
| Shelby, dissected till plain, eroded-- | 0-7 | 22-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-37 | 25-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 37-45 | 19-24 | --- | 7.4-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| | 45-79 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| Adair, dissected till plain, eroded-- | 0-7 | 22-29 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-17 | 28-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-59 | 22-30 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 59-74 | 20-28 | --- | 6.1-8.4 | 0-20 | 0 | 0.0-2.0 | 0 |
| | 74-79 | 20-24 | --- | 6.1-7.8 | 0-10 | 0 | 0.0-2.0 | 0 |
| Y93E3: | | | | | | | | |
| Shelby, dissected till plain, severely eroded----- | 0-2 | 20-28 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 2-48 | 25-31 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 48-62 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| | 62-79 | 16-27 | --- | 6.6-8.4 | 4-20 | 0 | 0.0-2.0 | 0 |
| Adair, dissected till plain, severely eroded----- | 0-3 | 19-26 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 3-26 | 28-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 26-59 | 22-30 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 59-70 | 20-28 | --- | 6.1-8.4 | 0-20 | 0 | 0.0-2.0 | 0 |
| | 70-79 | 20-24 | --- | 6.1-7.8 | 0-10 | 0 | 0.0-2.0 | 0 |
| Y192D2: | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Adair, dissected till plain, eroded-- | 0-7 | 22-29 | --- | 5.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-17 | 28-36 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 17-59 | 22-30 | --- | 5.1-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 59-74 | 20-28 | --- | 6.1-8.4 | 0-20 | 0 | 0.0-2.0 | 0 |
| | 74-79 | 20-24 | --- | 6.1-7.8 | 0-10 | 0 | 0.0-2.0 | 0 |
| Y212: | | | | | | | | |
| Kennebec, occasionally flooded | 0-8 | 19-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-54 | 19-27 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 54-79 | 14-26 | --- | 6.1-7.3 | 0 | 0 | 0.0-2.0 | 0 |

Chemical Soil Properties

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon-ate | Gypsum | Salinity | Sodium adsorp-tion ratio |
|---|---|---|---|---|---|---|---|---|
| | Inches | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| Y369: | | | | | | | | |
| Winterset | 0-7 | 23-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-19 | 26-31 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 19-25 | 30-34 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 25-32 | 30-34 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 32-79 | 24-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| Y428B: | | | | | | | | |
| Ely | 0-8 | 18-30 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 8-32 | 23-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 32-58 | 22-29 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 58-79 | 15-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| YC220: | | | | | | | | |
| Nodaway, channeled, frequently flooded-- | 0-7 | 14-28 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |
| | 7-79 | 11-27 | --- | 5.6-7.3 | 0 | 0 | 0.0-2.0 | 0 |