

Building Site Development

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Osceola County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets   |                                      | Shallow excavations                                    |              | Lawns and landscaping                                  |              |
|-----------------------------|---------------------------|--|--------------------------------------|--|--------------|--|--------------|
|                             |                           | Rating class and<br>limiting features  | Value                                | Rating class and<br>limiting features                  | Value        | Rating class and<br>limiting features                  | Value        |
| 4:<br>Knoke-----            | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>1.00         | Very limited<br>Depth to<br>saturated zone             | 1.00         | Very limited<br>Depth to<br>saturated zone             | 1.00         |
| 6:<br>Okoboji-----          | 98                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>1.00         | Very limited<br>Depth to<br>saturated zone             | 1.00         | Very limited<br>Depth to<br>saturated zone             | 1.00         |
| 27B:<br>Terril-----         | 100                       | Very limited<br>Low strength<br>Frost action   | 1.00<br>0.50                         | Somewhat limited<br>Depth to<br>saturated zone         | 0.16         | Not limited  |              |
| 28B:<br>Dickman-----        | 100                       | Not limited  |                                      | Very limited<br>cutbanks cave                          | 0.90         | Somewhat limited<br>Droughty                           | 0.05         |
| 28B2:<br>Dickman-----       | 100                       | Not limited  |                                      | Very limited<br>cutbanks cave                          | 0.90         | Somewhat limited<br>Droughty                           | 0.05         |
| 31:<br>Afton-----           | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to<br>saturated zone<br>Flooding | 1.00<br>0.60 | Very limited<br>Depth to<br>saturated zone<br>Flooding | 1.00<br>0.60 |
| 32:<br>Spicer-----          | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength                             | 1.00<br>1.00<br>1.00                 | Very limited<br>Depth to<br>saturated zone             | 1.00         | Very limited<br>Depth to<br>saturated zone             | 1.00         |

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|-----------------------------|---------------------------|--|------------------------------|--|-------|--|-------|
|                             |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features          | Value | Rating class and<br>limiting features      | Value |
| 48:<br>Knoke-----           | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to<br>saturated zone     | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  |
| 55:<br>Nicollet-----        | 90                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                               | 1.00<br>1.00<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone | 0.73  | Not limited                                |       |
| 62C2:<br>Storden-----       | 90                        | Somewhat limited<br>Frost action   | 0.50                         | Not limited                                    |       | Not limited                                |       |
| 62D2:<br>Storden-----       | 90                        | Somewhat limited<br>Slope<br>Frost action  | 0.63<br>0.50                 | Somewhat limited<br>Slope                      | 0.63  | Somewhat limited<br>Slope                  | 0.63  |
| 62E2:<br>Storden-----       | 90                        | Very limited<br>Slope<br>Frost action  | 1.00<br>0.50                 | Very limited<br>Slope                          | 1.00  | Very limited<br>Slope                      | 1.00  |
| 62G:<br>Storden-----        | 95                        | Very limited<br>Slope<br>Frost action  | 1.00<br>0.50                 | Very limited<br>Slope                          | 1.00  | Very limited<br>Slope                      | 1.00  |
| 77:<br>Sac-----             | 95                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                               | 1.00<br>1.00<br>0.50         | Not limited                                    |       | Not limited                                |       |
| 77B:<br>Sac-----            | 98                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                               | 1.00<br>1.00<br>0.50         | Not limited                                    |       | Not limited                                |       |

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Osceola County, Iowa

| Map symbol and soil name | Pct. of map unit | Local roads and streets   |                              | Shallow excavations                         |       | Lawns and landscaping                   |       |
|--------------------------|------------------|---|------------------------------|---|-------|---|-------|
|                          |                  | Rating class and limiting features  | Value                        | Rating class and limiting features          | Value | Rating class and limiting features      | Value |
| 77B2:<br>Sac-----        | 100              | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                            | 1.00<br>1.00<br>0.50         | Not limited                                 |       | Not limited                             |       |
| 77C2:<br>Sac-----        | 95               | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                            | 1.00<br>1.00<br>0.50         | Not limited                                 |       | Not limited                             |       |
| 90:<br>Okoboji-----      | 98               | Very limited<br>Depth to saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to saturated zone     | 1.00  | Very limited<br>Depth to saturated zone | 1.00  |
| 91:<br>Primghar-----     | 90               | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                            | 1.00<br>1.00<br>1.00         | Somewhat limited<br>Depth to saturated zone | 0.61  | Not limited                             |       |
| 91B:<br>Primghar-----    | 90               | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                            | 1.00<br>1.00<br>1.00         | Somewhat limited<br>Depth to saturated zone | 0.61  | Not limited                             |       |
| 92:<br>Marcus-----       | 95               | Very limited<br>Depth to saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to saturated zone     | 1.00  | Very limited<br>Depth to saturated zone | 1.00  |

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| Map symbol and soil name | Pct. of map unit | Local roads and streets   |                                      | Shallow excavations                                 |              | Lawns and landscaping                               |              |
|--------------------------|------------------|---|--------------------------------------|---|--------------|---|--------------|
|                          |                  | Rating class and limiting features  | Value                                | Rating class and limiting features                  | Value        | Rating class and limiting features                  | Value        |
| 95:<br>Harps-----        | 95               | Very limited<br>Depth to saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>0.50         | Very limited<br>Depth to saturated zone             | 1.00         | Very limited<br>Depth to saturated zone             | 1.00         |
| 107:<br>Webster-----     | 90               | Very limited<br>Depth to saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>0.50         | Very limited<br>Depth to saturated zone             | 1.00         | Very limited<br>Depth to saturated zone             | 1.00         |
| 108:<br>Wadena-----      | 95               | Not limited   |                                      | Not limited   |              | Not limited   |              |
| 108B:<br>Wadena-----     | 100              | Not limited   |                                      | Not limited   |              | Not limited   |              |
| 108B2:<br>Wadena-----    | 100              | Not limited   |                                      | Not limited   |              | Not limited   |              |
| 135:<br>Coland-----      | 100              | Very limited<br>Depth to saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to saturated zone<br>Flooding | 1.00<br>0.60 | Very limited<br>Depth to saturated zone<br>Flooding | 1.00<br>0.60 |
| 138B:<br>Clarion-----    | 85               | Somewhat limited<br>Frost action  | 0.50                                 | Not limited   |              | Not limited   |              |
| 138B2:<br>Clarion-----   | 85               | Somewhat limited<br>Frost action  | 0.50                                 | Not limited   |              | Not limited   |              |
| 138C:<br>Clarion-----    | 90               | Somewhat limited<br>Frost action  | 0.50                                 | Not limited   |              | Not limited   |              |

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|-----------------------------|---------------------------|--|--------------------------------------|---|--------------|--|--------------|
|                             |                           | Rating class and<br>limiting features  | Value                                | Rating class and<br>limiting features                       | Value        | Rating class and<br>limiting features                  | Value        |
| 138C2:<br>Clarion-----      | 90                        | Somewhat limited<br>Frost action   | 0.50                                 | Not limited   |              | Not limited  |              |
| 138D2:<br>Clarion-----      | 95                        | Somewhat limited<br>Slope<br>Frost action  | 0.63<br>0.50                         | Somewhat limited<br>Slope                                   | 0.63         | Somewhat limited<br>Slope                              | 0.63         |
| 201B:<br>Coland-----        | 60                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>Flooding      | 1.00<br>0.60 | Very limited<br>Depth to<br>saturated zone<br>Flooding | 1.00<br>0.60 |
| Terril-----                 | 40                        | Very limited<br>Low strength<br>Frost action   | 1.00<br>0.50                         | Somewhat limited<br>Depth to<br>saturated zone              | 0.16         | Not limited  |              |
| 202:<br>Cylinder-----       | 90                        | Very limited<br>Frost action<br>Shrink-swell<br>Low strength   | 1.00<br>0.50<br>0.22                 | Very limited<br>Depth to<br>saturated zone<br>cutbanks cave | 0.95<br>0.90 | Not limited  |              |
| 203:<br>Cylinder-----       | 90                        | Very limited<br>Frost action<br>Shrink-swell<br>Low strength   | 1.00<br>0.50<br>0.22                 | Very limited<br>Depth to<br>saturated zone<br>cutbanks cave | 0.95<br>0.90 | Not limited  |              |
| 259:<br>Biscay-----         | 95                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>0.78<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>cutbanks cave | 1.00<br>0.90 | Very limited<br>Depth to<br>saturated zone             | 1.00         |

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|--------------------------------|------------------|---|------------------------------|---|--------------|---|-------|
|                                |                  | Rating class and limiting features  | Value                        | Rating class and limiting features                    | Value        | Rating class and limiting features      | Value |
| 272:<br>Kanaranzi Variant---   | 100              | Somewhat limited<br>Frost action  | 0.50                         | Very limited<br>cutbanks cave                         | 0.90         | Not limited                             |       |
| 272B:<br>Kanaranzi Variant---  | 100              | Somewhat limited<br>Frost action  | 0.50                         | Very limited<br>cutbanks cave                         | 0.90         | Not limited                             |       |
| 272C2:<br>Kanaranzi Variant--- | 100              | Somewhat limited<br>Frost action  | 0.50                         | Very limited<br>cutbanks cave                         | 0.90         | Not limited                             |       |
| 274:<br>Rolfe-----             | 100              | Very limited<br>Depth to saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to saturated zone<br>Too clayey | 1.00<br>0.01 | Very limited<br>Depth to saturated zone | 1.00  |
| 282:<br>Ransom-----            | 90               | Very limited<br>Frost action<br><br>Low strength<br>Shrink-swell                        | 1.00<br>1.00<br>0.50         | Somewhat limited<br>Depth to saturated zone           | 0.73         | Not limited                             |       |
| 308:<br>Wadena-----            | 95               | Not limited   |                              | Not limited   |              | Not limited                             |       |
| 308B:<br>Wadena-----           | 100              | Not limited   |                              | Not limited   |              | Not limited                             |       |
| 309:<br>Allendorf-----         | 100              | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                            | 1.00<br>0.50<br>0.50         | Very limited<br>cutbanks cave                         | 0.90         | Not limited                             |       |
| 309B:<br>Allendorf-----        | 90               | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                            | 1.00<br>0.50<br>0.50         | Very limited<br>cutbanks cave                         | 0.90         | Not limited                             |       |

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|                             |                           | Rating class and<br>limiting features  | Value                | Rating class and<br>limiting features  | Value        | Rating class and<br>limiting features  | Value        |
| 310:<br>Galva-----          | 95                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                       | 1.00<br>1.00<br>0.50 | Not limited  |              | Not limited  |              |
| 310B:<br>Galva-----         | 95                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                       | 1.00<br>1.00<br>0.50 | Not limited  |              | Not limited  |              |
| 311:<br>Galva-----          | 100                       | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                       | 1.00<br>1.00<br>0.50 | Very limited<br>cutbanks cave  | 0.90         | Not limited  |              |
| 311B:<br>Galva-----         | 99                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                       | 1.00<br>1.00<br>0.50 | Very limited<br>cutbanks cave  | 0.90         | Not limited  |              |
| 354:<br>Aquolls-----        | 100                       | Very limited<br>Not Rated<br>(miscellaneous<br>unit)<br>Depth to<br>saturated zone | 1.00<br>1.00<br>1.00 | Very limited<br>Depth to<br>saturated zone<br>Not Rated<br>(miscellaneous<br>unit) | 1.00<br>1.00 | Very limited<br>Depth to<br>saturated zone<br>Not Rated<br>(miscellaneous<br>unit) | 1.00<br>1.00 |
| 384:<br>Collinwood-----     | 90                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                       | 1.00<br>1.00<br>1.00 | Somewhat limited<br>Depth to<br>saturated zone<br>Too clayey                       | 0.82<br>0.28 | Not limited  |              |
| 387B:<br>Kamrar-----        | 90                        | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                       | 1.00<br>0.50<br>0.50 | Somewhat limited<br>Too clayey   | 0.03         | Not limited  |              |

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|-----------------------------|---------------------------|--|------------------------------|--|----------------------|--|-------|
|                             |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features                    | Value                | Rating class and<br>limiting features      | Value |
| 390:<br>Waldorf-----        | 95                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to<br>saturated zone<br>Too clayey | 1.00<br>1.00<br>0.28 | Very limited<br>Depth to<br>saturated zone | 1.00  |
| 396:<br>Letri-----          | 90                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone               | 1.00                 | Very limited<br>Depth to<br>saturated zone | 1.00  |
| 397:<br>Letri-----          | 95                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone               | 1.00                 | Very limited<br>Depth to<br>saturated zone | 1.00  |
| 433D2:<br>Storden-----      | 95                        | Somewhat limited<br>Slope<br>Frost action  | 0.63<br>0.50                 | Somewhat limited<br>Slope                                | 0.63                 | Somewhat limited<br>Slope                  | 0.63  |
| 433E2:<br>Storden-----      | 90                        | Very limited<br>Slope<br>Frost action  | 1.00<br>0.50                 | Very limited<br>Slope                                    | 1.00                 | Very limited<br>Slope                      | 1.00  |
| 433G:<br>Storden-----       | 100                       | Very limited<br>Slope<br>Frost action  | 1.00<br>0.50                 | Very limited<br>Slope                                    | 1.00                 | Very limited<br>Slope                      | 1.00  |
| 456:<br>Wilmington-----     | 90                        | Very limited<br>Frost action<br>Low strength<br>Shrink-swell                               | 1.00<br>1.00<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone           | 0.73                 | Not limited                                |       |

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|-----------------------------|---------------------------|--|------------------------------|--|-------|--|-------|
|                             |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features      | Value | Rating class and<br>limiting features      | Value |
| 507:<br>Canisteo-----       | 90                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  |
| 559:<br>Talcot-----         | 95                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  |
| 577:<br>Everly-----         | 95                        | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                               | 1.00<br>0.50<br>0.50         | Not limited                                |       | Not limited                                |       |
| 577B:<br>Everly-----        | 90                        | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                               | 1.00<br>0.50<br>0.50         | Not limited                                |       | Not limited                                |       |
| 577B2:<br>Everly-----       | 90                        | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                               | 1.00<br>0.50<br>0.50         | Not limited                                |       | Not limited                                |       |
| 577C:<br>Everly-----        | 90                        | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                               | 1.00<br>0.50<br>0.50         | Not limited                                |       | Not limited                                |       |
| 577C2:<br>Everly-----       | 90                        | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                               | 1.00<br>0.50<br>0.50         | Not limited                                |       | Not limited                                |       |

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|--------------------------|------------------|---|------------------------------|---|--------------|---|--------------|
|                          |                  | Rating class and limiting features  | Value                        | Rating class and limiting features                  | Value        | Rating class and limiting features                  | Value        |
| 577D2:<br>Everly-----    | 90               | Very limited<br>Low strength<br>Slope<br>Shrink-swell<br>Frost action                               | 1.00<br>0.63<br>0.50<br>0.50 | Somewhat limited<br>Slope                           | 0.63         | Somewhat limited<br>Slope                           | 0.63         |
| 638C2:<br>Clarion-----   | 70               | Somewhat limited<br>Frost action  | 0.50                         | Not limited   |              | Not limited   |              |
| 638D2:<br>Clarion-----   | 60               | Somewhat limited<br>Slope<br>Frost action   | 0.63<br>0.50                 | Somewhat limited<br>Slope                           | 0.63         | Somewhat limited<br>Slope                           | 0.63         |
| Storden-----             | 35               | Somewhat limited<br>Slope<br>Frost action   | 0.63<br>0.50                 | Somewhat limited<br>Slope                           | 0.63         | Somewhat limited<br>Slope                           | 0.63         |
| 638E2:<br>Clarion-----   | 55               | Very limited<br>Slope<br>Frost action   | 1.00<br>0.50                 | Very limited<br>Slope                               | 1.00         | Very limited<br>Slope                               | 1.00         |
| Storden-----             | 40               | Very limited<br>Slope<br>Frost action   | 1.00<br>0.50                 | Very limited<br>Slope                               | 1.00         | Very limited<br>Slope                               | 1.00         |
| 655:<br>Crippin-----     | 90               | Very limited<br>Frost action<br>Low strength  | 1.00<br>1.00                 | Very limited<br>Depth to saturated zone             | 0.95         | Not limited   |              |
| 735:<br>Havelock-----    | 100              | Very limited<br>Depth to saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to saturated zone<br>Flooding | 1.00<br>0.60 | Very limited<br>Depth to saturated zone<br>Flooding | 1.00<br>0.60 |

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| Map symbol<br>and soil name   | Pct.<br>of<br>map<br>unit | Local roads and<br>streets   |                              | Shallow excavations   |              | Lawns and landscaping                          |       |
|-------------------------------|---------------------------|--|------------------------------|---|--------------|--|-------|
|                               |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features                       | Value        | Rating class and<br>limiting features          | Value |
| 744:<br>Revere-----           | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone                  | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  |
| 878B:<br>Ocheyedan-----       | 95                        | Very limited<br>Low strength<br>Frost action   | 1.00<br>0.50                 | Not limited   |              | Not limited                                    |       |
| 879:<br>Fostoria-----         | 90                        | Very limited<br>Frost action<br>Low strength   | 1.00<br>1.00                 | Very limited<br>Depth to<br>saturated zone                  | 0.95         | Not limited                                    |       |
| 2573:<br>Hoopeston Variant--- | 90                        | Very limited<br>Frost action<br>Depth to<br>saturated zone                                 | 1.00<br>0.19                 | Very limited<br>Depth to<br>saturated zone<br>cutbanks cave | 1.00<br>0.90 | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
| 5010:<br>Pits, Sand And Grave | 100                       | Not rated  |                              | Not rated   |              | Not rated                                      |       |
| 5040:<br>Orthents-----        | 100                       | Not rated  |                              | Not rated   |              | Not rated                                      |       |