

Ag. Waste Application and Excavated Ponds  
Lake County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

| Map symbol and soil name | Pct. of map unit | Application of manure and food-processing waste   |                                      | Aquifer-fed excavated ponds                      |              |
|--------------------------|------------------|---|--------------------------------------|--|--------------|
|                          |                  | Rating class and limiting features  | Value                                | Rating class and limiting features               | Value        |
| Ba:<br>Badus-----        | 90               | Very limited<br>Depth to saturated zone<br>Flooding<br>Leaching limitation<br>Restricted permeability<br>Salinity | 1.00<br>0.60<br>0.50<br>0.50<br>0.01 | Somewhat limited<br>Slow refill<br>Cutbanks cave | 0.97<br>0.10 |
| Bc:<br>Baltic-----       | 90               | Very limited<br>Restricted permeability<br>Ponding<br>Depth to saturated zone<br>Runoff limitation                | 1.00<br>1.00<br>1.00<br>0.40         | Somewhat limited<br>Slow refill<br>Cutbanks cave | 0.97<br>0.10 |
| BdA:<br>Beadle-----      | 85               | Somewhat limited<br>Restricted permeability   | 0.81                                 | Very limited<br>Deep to water                    | 1.00         |
| BdB:<br>Beadle-----      | 90               | Somewhat limited<br>Restricted permeability   | 0.81                                 | Very limited<br>Deep to water                    | 1.00         |
| BdC:<br>Beadle-----      | 90               | Somewhat limited<br>Restricted permeability   | 0.81                                 | Very limited<br>Deep to water                    | 1.00         |
| CaA:<br>Clarno-----      | 90               | Somewhat limited<br>Restricted permeability   | 0.50                                 | Very limited<br>Deep to water                    | 1.00         |
| CaB:<br>Clarno-----      | 90               | Somewhat limited<br>Restricted permeability   | 0.50                                 | Very limited<br>Deep to water                    | 1.00         |

Ag. Waste Application and Excavated Ponds -- continued  
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| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Application of<br>manure and food-<br>processing waste                       |                      | Aquifer-fed<br>excavated ponds                                    |                      |
|-----------------------------|---------------------------|--|----------------------|---|----------------------|
|                             |                           | Rating class and<br>limiting features  | Value                | Rating class and<br>limiting features                             | Value                |
| CaC:<br>Clarno-----         | 85                        | Somewhat limited<br>Restricted<br>permeability                               | 0.50                 | Very limited<br>Deep to water                                     | 1.00                 |
| CeB:<br>Clarno-----         | 60                        | Somewhat limited<br>Restricted<br>permeability                               | 0.50                 | Very limited<br>Deep to water                                     | 1.00                 |
| Ethan-----                  | 25                        | Not limited  |                      | Very limited<br>Deep to water                                     | 1.00                 |
| CeC:<br>Clarno-----         | 55                        | Somewhat limited<br>Restricted<br>permeability                               | 0.50                 | Very limited<br>Deep to water                                     | 1.00                 |
| Ethan-----                  | 30                        | Not limited  |                      | Very limited<br>Deep to water                                     | 1.00                 |
| CeD:<br>Clarno-----         | 50                        | Somewhat limited<br>Slope<br>Restricted<br>permeability                      | 0.84<br>0.50         | Very limited<br>Deep to water                                     | 1.00                 |
| Ethan-----                  | 35                        | Somewhat limited<br>Slope  | 0.84                 | Very limited<br>Deep to water                                     | 1.00                 |
| Da:<br>Davis-----           | 90                        | Not limited  |                      | Somewhat limited<br>Deep to water<br>Slow refill<br>Cutbanks cave | 0.81<br>0.30<br>0.10 |
| DeB:<br>Delmont-----        | 50                        | Very limited<br>Depth to dense<br>layer<br>Filtering<br>capacity<br>Droughty | 1.00<br>1.00<br>0.22 | Very limited<br>Deep to water                                     | 1.00                 |
| Talmo-----                  | 35                        | Very limited<br>Filtering<br>capacity<br>Droughty<br>Leaching<br>limitation  | 1.00<br>0.76<br>0.45 | Very limited<br>Deep to water                                     | 1.00                 |

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| Map symbol and soil name | Pct. of map unit | Application of manure and food-processing waste                        |                      | Aquifer-fed excavated ponds        |       |
|--------------------------|------------------|--|----------------------|------------------------------------|-------|
|                          |                  | Rating class and limiting features                                     | Value                | Rating class and limiting features | Value |
| DeC:<br>Delmont-----     | 45               | Very limited<br>Depth to dense layer<br>Filtering capacity<br>Droughty | 1.00<br>1.00<br>0.22 | Very limited<br>Deep to water      | 1.00  |
| Talmo-----               | 35               | Very limited<br>Filtering capacity<br>Droughty<br>Leaching limitation  | 1.00<br>0.76<br>0.45 | Very limited<br>Deep to water      | 1.00  |
| DmA:<br>Dempster-----    | 85               | Not limited  |                      | Very limited<br>Deep to water      | 1.00  |
| DmB:<br>Dempster-----    | 85               | Not limited  |                      | Very limited<br>Deep to water      | 1.00  |
| DpC:<br>Dempster-----    | 60               | Not limited  |                      | Very limited<br>Deep to water      | 1.00  |
| Delmont-----             | 25               | Very limited<br>Depth to dense layer<br>Filtering capacity<br>Droughty | 1.00<br>1.00<br>0.22 | Very limited<br>Deep to water      | 1.00  |
| EaC:<br>Egan-----        | 80               | Somewhat limited<br>Restricted permeability                            | 0.50                 | Very limited<br>Deep to water      | 1.00  |
| EbA:<br>Egan-----        | 60               | Somewhat limited<br>Restricted permeability                            | 0.50                 | Very limited<br>Deep to water      | 1.00  |
| Beadle-----              | 30               | Somewhat limited<br>Restricted permeability                            | 0.81                 | Very limited<br>Deep to water      | 1.00  |

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| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Application of<br>manure and food-<br>processing waste |       | Aquifer-fed<br>excavated ponds        |       |
|-----------------------------|---------------------------|--|-------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features                  | Value | Rating class and<br>limiting features | Value |
| EbB:<br>Egan-----           | 60                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Beadle-----                 | 30                        | Somewhat limited<br>Restricted<br>permeability         | 0.81  | Very limited<br>Deep to water         | 1.00  |
| EbC:<br>Egan-----           | 55                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Beadle-----                 | 35                        | Somewhat limited<br>Restricted<br>permeability         | 0.81  | Very limited<br>Deep to water         | 1.00  |
| EeB:<br>Egan-----           | 50                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Ethan-----                  | 40                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |
| EeC2:<br>Egan-----          | 45                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Ethan-----                  | 40                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |
| EgA:<br>Egan-----           | 60                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Viborg-----                 | 30                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| EhB:<br>Egan-----           | 50                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Wentworth-----              | 30                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |

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| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Application of<br>manure and food-<br>processing waste                      |                      | Aquifer-fed<br>excavated ponds        |       |
|-----------------------------|---------------------------|---|----------------------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features                                       | Value                | Rating class and<br>limiting features | Value |
| EnA:<br>Enet-----           | 90                        | Very limited<br>Filtering<br>capacity                                       | 1.00                 | Very limited<br>Deep to water         | 1.00  |
| EoF:<br>Ethan-----          | 45                        | Very limited<br>Slope   | 1.00                 | Very limited<br>Deep to water         | 1.00  |
| Betts-----                  | 35                        | Very limited<br>Slope<br>Restricted<br>permeability                         | 1.00<br>0.50         | Very limited<br>Deep to water         | 1.00  |
| ErE:<br>Ethan-----          | 60                        | Very limited<br>Slope   | 1.00                 | Very limited<br>Deep to water         | 1.00  |
| Clarno-----                 | 20                        | Very limited<br>Slope<br>Restricted<br>permeability                         | 1.00<br>0.50         | Very limited<br>Deep to water         | 1.00  |
| EsE:<br>Ethan-----          | 50                        | Very limited<br>Slope   | 1.00                 | Very limited<br>Deep to water         | 1.00  |
| Clarno-----                 | 30                        | Very limited<br>Slope<br>Restricted<br>permeability                         | 1.00<br>0.50         | Very limited<br>Deep to water         | 1.00  |
| EtD:<br>Ethan-----          | 55                        | Somewhat limited<br>Slope   | 0.63                 | Very limited<br>Deep to water         | 1.00  |
| Davis-----                  | 25                        | Somewhat limited<br>Slope   | 0.04                 | Very limited<br>Deep to water         | 1.00  |
| Gp:<br>Orthents, Gravelly-- | 90                        | Very limited<br>Filtering<br>capacity<br>Droughty<br>Leaching<br>limitation | 1.00<br>0.71<br>0.45 | Very limited<br>Deep to water         | 1.00  |
| Gr:<br>Graceville-----      | 90                        | Very limited<br>Filtering<br>capacity                                       | 1.00                 | Very limited<br>Deep to water         | 1.00  |

Ag. Waste Application and Excavated Ponds -- continued  
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| Map symbol<br>and soil name  | Pct.<br>of<br>map<br>unit | Application of<br>manure and food-<br>processing waste   |                              | Aquifer-fed<br>excavated ponds                                    |                      |
|------------------------------|---------------------------|--|------------------------------|---|----------------------|
|                              |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features                             | Value                |
| HeA:<br>Henkin-----          | 90                        | Not limited  |                              | Very limited<br>Deep to water                                     | 1.00                 |
| HeB:<br>Henkin-----          | 90                        | Not limited  |                              | Very limited<br>Deep to water                                     | 1.00                 |
| HkB:<br>Houdek-----          | 80                        | Somewhat limited<br>Restricted<br>permeability   | 0.50                         | Very limited<br>Deep to water                                     | 1.00                 |
| HpA:<br>Houdek-----          | 50                        | Somewhat limited<br>Restricted<br>permeability   | 0.50                         | Very limited<br>Deep to water                                     | 1.00                 |
| Prosper-----                 | 35                        | Somewhat limited<br>Restricted<br>permeability   | 0.50                         | Very limited<br>Deep to water                                     | 1.00                 |
| La:<br>Lamo-----             | 85                        | Very limited<br>Depth to<br>saturated zone<br>Flooding<br>Restricted<br>permeability                     | 1.00<br>0.60<br>0.50         | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Deep to water | 0.97<br>0.10<br>0.01 |
| M-W:<br>Miscellaneous Water- | 100                       | Not rated  |                              | Not rated   |                      |
| Mar:<br>Worthing-----        | 95                        | Very limited<br>Restricted<br>permeability<br>Ponding<br>Depth to<br>saturated zone<br>Runoff limitation | 1.00<br>1.00<br>1.00<br>0.40 | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Salty water   | 0.97<br>0.10<br>0.01 |
| MnB:<br>Moody-----           | 50                        | Not limited  |                              | Very limited<br>Deep to water                                     | 1.00                 |
| Nora-----                    | 30                        | Not limited  |                              | Very limited<br>Deep to water                                     | 1.00                 |

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|-----------------------------|---------------------------|--|-------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features                  | Value | Rating class and<br>limiting features | Value |
| MtA:<br>Moody-----          | 55                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |
| Trent-----                  | 35                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |
| NcC:<br>Nora-----           | 50                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |
| Crofton-----                | 30                        | Not limited  |       | Very limited<br>Deep to water         | 1.00  |
| PrA:<br>Prosper-----        | 85                        | Somewhat limited<br>Restricted<br>permeability         | 0.50  | Very limited<br>Deep to water         | 1.00  |
| Ra:<br>Rauville-----        | 85                        | Very limited<br>Depth to<br>saturated zone             | 1.00  | Somewhat limited<br>Slow refill       | 0.47  |
|                             |                           | Flooding   | 1.00  | Cutbanks cave                         | 0.10  |
|                             |                           | Runoff limitation                                      | 0.40  |                                       |       |
| Sa:<br>Minnewaukan-----     | 90                        | Very limited<br>Depth to<br>saturated zone             | 1.00  | Very limited<br>Cutbanks cave         | 1.00  |
|                             |                           | Ponding  | 1.00  |                                       |       |
|                             |                           | Filtering<br>capacity                                  | 1.00  |                                       |       |
|                             |                           | Leaching<br>limitation                                 | 0.90  |                                       |       |
|                             |                           | Flooding   | 0.60  |                                       |       |
| ScA:<br>Huntimer-----       | 90                        | Very limited<br>Restricted<br>permeability             | 1.00  | Very limited<br>Deep to water         | 1.00  |
| SdB:<br>Huntimer-----       | 85                        | Very limited<br>Restricted<br>permeability             | 1.00  | Very limited<br>Deep to water         | 1.00  |

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| Map symbol and soil name | Pct. of map unit | Application of manure and food-processing waste  |                              | Aquifer-fed excavated ponds  |                              |
|--------------------------|------------------|--|------------------------------|--|------------------------------|
|                          |                  | Rating class and limiting features   | Value                        | Rating class and limiting features   | Value                        |
| StA:<br>Stickney-----    | 60               | Very limited<br>Restricted permeability<br>Salinity  | 1.00<br>0.50                 | Somewhat limited<br>Slow refill<br>Deep to water<br>Salty water<br>Cutbanks cave | 0.98<br>0.90<br>0.50<br>0.10 |
| Tetonka-----             | 20               | Very limited<br>Restricted permeability<br>Ponding<br>Depth to saturated zone<br>Leaching limitation | 1.00<br>1.00<br>1.00<br>0.50 | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Salty water                  | 0.30<br>0.10<br>0.01         |
| TdE:<br>Talmo-----       | 45               | Very limited<br>Filtering capacity<br>Slope<br>Droughty<br>Leaching limitation                       | 1.00<br>0.96<br>0.76<br>0.45 | Very limited<br>Deep to water  | 1.00                         |
| Delmont-----             | 35               | Very limited<br>Depth to dense layer<br>Filtering capacity<br>Slope<br>Droughty                      | 1.00<br>1.00<br>0.96<br>0.22 | Very limited<br>Deep to water  | 1.00                         |
| Te:<br>Tetonka-----      | 90               | Very limited<br>Restricted permeability<br>Ponding<br>Depth to saturated zone<br>Leaching limitation | 1.00<br>1.00<br>1.00<br>0.50 | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Salty water                  | 0.30<br>0.10<br>0.01         |
| VbA:<br>Viborg-----      | 85               | Somewhat limited<br>Restricted permeability  | 0.50                         | Very limited<br>Deep to water  | 1.00                         |

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| Map symbol and soil name | Pct. of map unit | Application of manure and food-processing waste   |                              | Aquifer-fed excavated ponds                                     |                      |
|--------------------------|------------------|---|------------------------------|---|----------------------|
|                          |                  | Rating class and limiting features  | Value                        | Rating class and limiting features                              | Value                |
| VgB:<br>Viborg-----      | 50               | Somewhat limited<br>Restricted permeability   | 0.50                         | Very limited<br>Deep to water                                   | 1.00                 |
| Egan-----                | 30               | Somewhat limited<br>Restricted permeability   | 0.50                         | Very limited<br>Deep to water                                   | 1.00                 |
| Vo:<br>Arlo-----         | 85               | Very limited<br>Depth to saturated zone<br>Filtering capacity<br>Flooding                             | 1.00<br>1.00<br>0.60         | Very limited<br>Cutbanks cave                                   | 1.00                 |
| W:<br>Water-----         | 100              | Not rated   |                              | Not rated   |                      |
| WeA:<br>Wentworth-----   | 55               | Not limited   |                              | Very limited<br>Deep to water                                   | 1.00                 |
| Egan-----                | 35               | Somewhat limited<br>Restricted permeability   | 0.50                         | Very limited<br>Deep to water                                   | 1.00                 |
| Wh:<br>Whitewood-----    | 80               | Very limited<br>Flooding<br>Depth to saturated zone<br>Leaching limitation<br>Restricted permeability | 1.00<br>1.00<br>0.50<br>0.50 | Somewhat limited<br>Slow refill<br>Cutbanks cave                | 0.97<br>0.10         |
| Wo:<br>Worthing-----     | 90               | Very limited<br>Restricted permeability<br>Ponding<br>Depth to saturated zone<br>Runoff limitation    | 1.00<br>1.00<br>1.00<br>0.40 | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Salty water | 0.97<br>0.10<br>0.01 |

