

Ag. Waste Application and Excavated Ponds  
Davison 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        |
| Aa:<br>Chaska-----       | 80               | Very limited<br>Flooding<br>Depth to saturated zone<br>Leaching limitation | 1.00<br>1.00<br>0.70         | Very limited<br>Cutbanks cave<br>Deep to water | 1.00<br>0.01 |
| BaA:<br>Beadle-----      | 85               | Somewhat limited<br>Restricted permeability                                | 0.89                         | Very limited<br>Deep to water                  | 1.00         |
| BeE:<br>Betts-----       | 50               | Very limited<br>Slope<br>Restricted permeability                           | 1.00<br>0.30                 | Very limited<br>Deep to water                  | 1.00         |
| Ethan-----               | 40               | Very limited<br>Slope  | 1.00                         | Very limited<br>Deep to water                  | 1.00         |
| BhD:<br>Betts-----       | 40               | Somewhat limited<br>Slope<br>Restricted permeability                       | 0.96<br>0.30                 | Very limited<br>Deep to water                  | 1.00         |
| Ethan-----               | 30               | Somewhat limited<br>Slope  | 0.96                         | Very limited<br>Deep to water                  | 1.00         |
| BlE:<br>Betts-----       | 40               | Very limited<br>Slope<br>Restricted permeability                           | 1.00<br>0.30                 | Very limited<br>Deep to water                  | 1.00         |
| Gavins-----              | 25               | Very limited<br>Slope<br>Depth to bedrock<br>Droughty<br>Runoff limitation | 1.00<br>1.00<br>1.00<br>0.40 | 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                |
| BmA:<br>Blendon-----        | 80                        | Not limited   |                                      | Very limited<br>Deep to water                               | 1.00                 |
| BnA:<br>Blendon-----        | 55                        | Not limited   |                                      | Very limited<br>Deep to water                               | 1.00                 |
| Firesteel-----              | 35                        | Somewhat limited<br>Depth to<br>saturated zone<br>Depth to bedrock<br>Droughty  | 0.95<br>0.42<br>0.23                 | Very limited<br>Deep to water                               | 1.00                 |
| BoA:<br>Bon-----            | 85                        | Somewhat limited<br>Flooding  | 0.60                                 | Very limited<br>Cutbanks cave<br>Deep to water              | 1.00<br>0.81         |
| Ca:<br>Clamo-----           | 85                        | Very limited<br>Restricted<br>permeability<br>Depth to<br>saturated zone<br>Flooding<br>Leaching<br>limitation            | 1.00<br>1.00<br>0.60<br>0.50         | Very limited<br>Slow refill<br>Cutbanks cave<br>Salty water | 1.00<br>0.10<br>0.01 |
| Cc:<br>Clamo-----           | 70                        | Very limited<br>Restricted<br>permeability<br>Depth to<br>saturated zone<br>Flooding<br>Ponding<br>Leaching<br>limitation | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Slow refill<br>Cutbanks cave<br>Salty water | 1.00<br>0.10<br>0.01 |
| CeB:<br>Clarno-----         | 60                        | Somewhat limited<br>Restricted<br>permeability  | 0.30                                 | Very limited<br>Deep to water                               | 1.00                 |
| Ethan-----                  | 25                        | Not limited   |                                      | 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 |
| CeC:<br>Clarno-----         | 50                        | Somewhat limited<br>Restricted<br>permeability                               | 0.30                 | Very limited<br>Deep to water         | 1.00  |
| Ethan-----                  | 30                        | Not limited  |                      | Very limited<br>Deep to water         | 1.00  |
| ChA:<br>Clarno-----         | 45                        | Somewhat limited<br>Restricted<br>permeability                               | 0.30                 | Very limited<br>Deep to water         | 1.00  |
| Houdek-----                 | 35                        | Somewhat limited<br>Restricted<br>permeability                               | 0.30                 | Very limited<br>Deep to water         | 1.00  |
| ChB:<br>Clarno-----         | 50                        | Somewhat limited<br>Restricted<br>permeability                               | 0.30                 | Very limited<br>Deep to water         | 1.00  |
| Houdek-----                 | 35                        | Somewhat limited<br>Restricted<br>permeability                               | 0.30                 | Very limited<br>Deep to water         | 1.00  |
| DhA:<br>Davison-----        | 50                        | Somewhat limited<br>Depth to<br>saturated zone                               | 0.68                 | Very limited<br>Deep to water         | 1.00  |
| Hand-----                   | 30                        | Not limited  |                      | Very limited<br>Deep to water         | 1.00  |
| DmB:<br>Delmont-----        | 90                        | Very limited<br>Depth to dense<br>layer<br>Filtering<br>capacity<br>Droughty | 1.00<br>1.00<br>0.32 | Very limited<br>Deep to water         | 1.00  |
| EnA:<br>Enet-----           | 80                        | Very limited<br>Filtering<br>capacity  | 1.00                 | Very limited<br>Deep to water         | 1.00  |
| EOA:<br>Enet-----           | 60                        | 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 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        |
| Delmont-----             | 30               | Very limited<br>Depth to dense layer<br>Filtering capacity<br>Droughty               | 1.00<br>1.00<br>0.32 | Very limited<br>Deep to water                  | 1.00         |
| EOB:<br>Enet-----        | 55               | Very limited<br>Filtering capacity   | 1.00                 | Very limited<br>Deep to water                  | 1.00         |
| Delmont-----             | 30               | Very limited<br>Depth to dense layer<br>Filtering capacity<br>Droughty               | 1.00<br>1.00<br>0.32 | Very limited<br>Deep to water                  | 1.00         |
| ESA:<br>Dimo-----        | 70               | Very limited<br>Filtering capacity<br>Depth to saturated zone<br>Flooding            | 1.00<br>0.95<br>0.60 | Very limited<br>Cutbanks cave<br>Deep to water | 1.00<br>0.02 |
| Storla-----              | 25               | Somewhat limited<br>Depth to saturated zone  | 0.86                 | Very limited<br>Deep to water                  | 1.00         |
| EtC2:<br>Ethan-----      | 40               | Not limited  |                      | Very limited<br>Deep to water                  | 1.00         |
| Betts-----               | 25               | Somewhat limited<br>Restricted permeability  | 0.30                 | Very limited<br>Deep to water                  | 1.00         |
| FeA:<br>Fedora-----      | 75               | Very limited<br>Depth to saturated zone<br>Filtering capacity<br>Leaching limitation | 1.00<br>1.00<br>0.70 | Very limited<br>Cutbanks cave                  | 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                        |
| FsA:<br>Firesteel-----        | 90                        | Somewhat limited<br>Depth to<br>saturated zone<br>Depth to bedrock<br>Droughty | 0.95<br>0.42<br>0.23 | Very limited<br>Deep to water  | 1.00                         |
| GRAV:<br>Orthents, Gravelly-- | 100                       | Very limited<br>Filtering<br>capacity<br>Droughty<br>Leaching<br>limitation    | 1.00<br>0.95<br>0.45 | Very limited<br>Deep to water  | 1.00                         |
| HaB:<br>Hand-----             | 85                        | Not limited  |                      | Very limited<br>Deep to water  | 1.00                         |
| HdA:<br>Hand-----             | 70                        | Not limited  |                      | Very limited<br>Deep to water  | 1.00                         |
| Davison-----                  | 20                        | Somewhat limited<br>Depth to<br>saturated zone                                 | 0.68                 | Very limited<br>Deep to water  | 1.00                         |
| HkA:<br>Houdek-----           | 60                        | Somewhat limited<br>Restricted<br>permeability                                 | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| Prosper-----                  | 25                        | Somewhat limited<br>Restricted<br>permeability                                 | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| HpA:<br>Houdek-----           | 40                        | Somewhat limited<br>Restricted<br>permeability                                 | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| Prosper-----                  | 25                        | Somewhat limited<br>Restricted<br>permeability                                 | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| Stickney-----                 | 20                        | Very limited<br>Restricted<br>permeability<br>Salinity                         | 1.00<br>0.50         | Somewhat limited<br>Slow refill<br>Deep to water<br>Salty water<br>Cutbanks cave | 0.99<br>0.90<br>0.50<br>0.10 |

Ag. Waste Application and Excavated Ponds -- continued  
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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                        |
| HsA:<br>Houdek-----          | 50               | Somewhat limited<br>Restricted permeability                                    | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| Stickney-----                | 35               | 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 | 0.99<br>0.90<br>0.50<br>0.10 |
| La:<br>Lamo-----             | 90               | Very limited<br>Depth to saturated zone<br>Flooding<br>Restricted permeability | 1.00<br>0.60<br>0.30 | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Deep to water                | 0.95<br>0.10<br>0.01         |
| LpA:<br>Lamo-----            | 45               | Very limited<br>Depth to saturated zone<br>Flooding<br>Restricted permeability | 1.00<br>0.60<br>0.30 | Somewhat limited<br>Slow refill<br>Cutbanks cave<br>Deep to water                | 0.95<br>0.10<br>0.01         |
| Prosper-----                 | 40               | Somewhat limited<br>Restricted permeability                                    | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| M-W:<br>Miscellaneous Water- | 100              | Not rated  |                      | Not rated  |                              |
| PrA:<br>Prosper-----         | 80               | Somewhat limited<br>Restricted permeability                                    | 0.30                 | Very limited<br>Deep to water  | 1.00                         |
| PrB:<br>Prosper-----         | 85               | Somewhat limited<br>Restricted permeability                                    | 0.30                 | 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                        |
| ReA:<br>Redstoe-----        | 85                        | Somewhat limited<br>Depth to bedrock<br>Droughty   | 0.42<br>0.32                         | Very limited<br>Deep to water  | 1.00                         |
| ReC:<br>Redstoe-----        | 85                        | Somewhat limited<br>Depth to bedrock<br>Droughty   | 0.42<br>0.32                         | Very limited<br>Deep to water  | 1.00                         |
| ReD:<br>Redstoe-----        | 80                        | Very limited<br>Slope<br>Depth to bedrock<br>Droughty  | 1.00<br>0.42<br>0.32                 | Very limited<br>Deep to water  | 1.00                         |
| Sa:<br>Salmo-----           | 80                        | Very limited<br>Depth to<br>saturated zone<br>Flooding<br>Restricted<br>permeability<br>Salinity<br>Leaching<br>limitation | 1.00<br>1.00<br>0.89<br>0.50<br>0.50 | Somewhat limited<br>Salty water<br>Slow refill<br>Cutbanks cave                  | 0.50<br>0.30<br>0.10         |
| SdA:<br>Stickney-----       | 65                        | Very limited<br>Restricted<br>permeability<br>Salinity   | 1.00<br>0.50                         | Somewhat limited<br>Slow refill<br>Deep to water<br>Salty water<br>Cutbanks cave | 0.99<br>0.90<br>0.50<br>0.10 |
| Dudley-----                 | 20                        | Very limited<br>Restricted<br>permeability<br>Sodium content<br>Runoff limitation<br>Salinity                              | 1.00<br>1.00<br>0.40<br>0.06         | Somewhat limited<br>Slow refill<br>Deep to water<br>Salty water<br>Cutbanks cave | 0.99<br>0.90<br>0.78<br>0.10 |
| SoA:<br>Storla-----         | 70                        | Somewhat limited<br>Depth to<br>saturated zone   | 0.95                                 | 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                        |
| StA:<br>Arlo-----           | 60                        | Very limited<br>Depth to<br>saturated zone<br>Filtering<br>capacity<br>Flooding                                    | 1.00<br>1.00<br>0.60                 | Very limited<br>Cutbanks cave  | 1.00                         |
| Durrstein-----              | 25                        | Very limited<br>Restricted<br>permeability<br>Depth to<br>saturated zone<br>Sodium content<br>Flooding<br>Salinity | 1.00<br>1.00<br>1.00<br>0.60<br>0.50 | Very limited<br>Slow refill<br>Salty water<br>Cutbanks cave                      | 1.00<br>0.50<br>0.10         |
| TeA:<br>Tetonka-----        | 90                        | Very limited<br>Restricted<br>permeability<br>Ponding<br>Depth to<br>saturated zone<br>Leaching<br>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         |
| TsA:<br>Tetonka-----        | 45                        | Very limited<br>Restricted<br>permeability<br>Ponding<br>Depth to<br>saturated zone<br>Leaching<br>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         |
| Stickney-----               | 40                        | Very limited<br>Restricted<br>permeability<br>Salinity   | 1.00<br>0.50                         | Somewhat limited<br>Slow refill<br>Deep to water<br>Salty water<br>Cutbanks cave | 0.99<br>0.90<br>0.50<br>0.10 |
| W:<br>Water-----            | 100                       | Not rated  |                                      | Not rated  |                              |

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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                |
| Wo:<br>Worthing-----        | 85                        | 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 | 0.95<br>0.10<br>0.01 |
| Wp:<br>Worthing-----        | 85                        | 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 | 0.95<br>0.10<br>0.01 |

