

HYDRIC SOIL INTERPRETATIONS  
HYDRIC SOILS LIST  
Cheyenne County, Kansas

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In this section, hydric soils are defined and described and the hydric soils in the survey area are listed. The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for each of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 1995). These criteria are used to identify a phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (USDA, 1999) and "Keys to Soil Taxonomy" (USDA, 1998) and in the "Soil Survey Manual" (USDA, 1993).

If soils are wet enough for a long enough period to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 1996).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units in the Hydric Soil Interpretations table meet the definition of hydric soils and, in addition, have at least one of the hydric soil indicators. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 1996).

Map units that are made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

These map units, in general, do not meet the definition of hydric soils because they do not have one of the hydric soil indicators. A portion of these map units, however, may include hydric soils. Onsite investigation is recommended to determine whether hydric soils occur and the location of the included hydric soils.

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| Map symbol and map unit name  | Component                             | Hydric | Local landform | Hydric soils criteria |                           |                         |                        |
|---|---------------------------------------|--------|----------------|-----------------------|---------------------------|-------------------------|------------------------|
|   |                                       |        |                | Hydric criteria code  | Meets saturation criteria | Meets flooding criteria | Meets ponding criteria |
| 153CD:<br>CARUSO SILT LOAM,<br>OCCASIONALLY FLOODED                         | CARUSO                                | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
|   | UNNAMED<br>HYDRIC SOILS               | Yes    | flood plain    | 4,2A                  | YES                       | YES                     | NO                     |
| 153CO:<br>COLBY SILT LOAM, 10 TO<br>25 PERCENT SLOPES                       | COLBY                                 | No     | hillslope      | ---                   | ---                       | ---                     | ---                    |
| 153UC:<br>ULYSSES SILT LOAM, 2<br>TO 7 PERCENT SLOPES                       | ULYSSES                               | No     | hillslope      | ---                   | ---                       | ---                     | ---                    |
| 181KH:<br>KEITH SILT LOAM, 1 TO<br>3 PERCENT SLOPES                         | KEITH                                 | No     | plain          | ---                   | ---                       | ---                     | ---                    |
|   | PLEASANT                              | Yes    | depression     | 3                     | NO                        | NO                      | YES                    |
| 181UB:<br>ULYSSES SILT LOAM, 3<br>TO 6 PERCENT SLOPES                       | ULYSSES                               | No     | hillslope      | ---                   | ---                       | ---                     | ---                    |
|   | BANKARD                               | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
| Bc:<br>BANKARD LOAMY FINE<br>SAND, OCCASIONALLY<br>FLOODED                  | CARUSO                                | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | LAS ANIMAS                            | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | UNNAMED<br>HYDRIC SOILS               | Yes    | channel        | 2B3,3                 | YES                       | NO                      | YES                    |
| Bg:<br>BRIDGEPORT SILT LOAM,<br>0 TO 2 PERCENT<br>SLOPES, RARELY<br>FLOODED | BRIDGEPORT                            | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
|   | GLENBERG                              | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
| Bh:<br>BRIDGEPORT SILT LOAM,<br>2 TO 5 PERCENT SLOPES                       | BRIDGEPORT                            | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
|   | COLBY                                 | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | KIM                                   | No     | ---            | ---                   | ---                       | ---                     | ---                    |
| Bs:<br>BRIDGEPORT SILT LOAM,<br>CHANNELED                                   | ULYSSES                               | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | BRIDGEPORT                            | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
|   | CARUSO<br>UNNAMED<br>HYDRIC SOIL      | Yes    | channel        | 2B3                   | YES                       | NO                      | NO                     |
| Bw:<br>BRIDGEPORT SILT LOAM,<br>OCCASIONALLY FLOODED                        | BRIDGEPORT                            | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
|   | BANKARD                               | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | CARUSO<br>UNNAMED<br>HYDRIC SOILS     | Yes    | flood plain    | 2B3,3                 | YES                       | NO                      | YES                    |
| Ca:<br>CANYON-KIM LOAMS, 5 TO<br>30 PERCENT SLOPES                          | CANYON                                | No     | drainageway    | ---                   | ---                       | ---                     | ---                    |
|   | KIM                                   | No     | drainageway    | ---                   | ---                       | ---                     | ---                    |
|   | COLBY                                 | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                                 | No     | fan remnant    | ---                   | ---                       | ---                     | ---                    |
|   | UNNAMED<br>HYDRIC SOILS               | Yes    | drainageway    | 2A                    | YES                       | NO                      | NO                     |
| Cf:<br>CARUSO SILTY CLAY<br>LOAM, OCCASIONALLY<br>FLOODED                   | CARUSO                                | No     | flood plain    | ---                   | ---                       | ---                     | ---                    |
|   | BRIDGEPORT                            | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | LAS ANIMAS<br>UNNAMED<br>HYDRIC SOILS | Yes    | flood plain    | 2B3,3                 | YES                       | NO                      | YES                    |
| Co:<br>COLBY SILT LOAM, 3 TO<br>6 PERCENT SLOPES                            | COLBY                                 | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | KIM                                   | No     | ---            | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                                 | No     | fan remnant    | ---                   | ---                       | ---                     | ---                    |
| COD:<br>COLBY SILT LOAM, 5 TO<br>15 PERCENT SLOPES                          | COLBY                                 | No     | hill           | ---                   | ---                       | ---                     | ---                    |
|   | GOSHEN                                | No     | drainageway    | ---                   | ---                       | ---                     | ---                    |
|   | NORKA<br>WAGES                        | No     | hill           | ---                   | ---                       | ---                     | ---                    |

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| Map symbol and map unit name                                    | Component            | Hydric   | Local landform     | Hydric soils criteria |                           |                         |                        |
|---|----------------------|----------|--------------------|-----------------------|---------------------------|-------------------------|------------------------|
|   |                      |          |                    | Hydric criteria code  | Meets saturation criteria | Meets flooding criteria | Meets ponding criteria |
| Cp:<br>COLBY SILT LOAM, 6 TO 20 PERCENT SLOPES                  | COLBY                | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | BRIDGEPORT           | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | CANYON               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | KIM                  | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                | No       | fan remnant        | ---                   | ---                       | ---                     | ---                    |
| Cs:<br>COLBY SILT LOAM, 20 TO 50 PERCENT SLOPES                 | COLBY                | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | BRIDGEPORT           | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | CANYON               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | KIM                  | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                | No       | fan remnant        | ---                   | ---                       | ---                     | ---                    |
| Dw:<br>DWYER LOAMY FINE SAND, 3 TO 15 PERCENT SLOPES            | DWYER                | No       | dune               | ---                   | ---                       | ---                     | ---                    |
|   | CANYON               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | MANTER               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
| Gb:<br>GLENBERG FINE SANDY LOAM, RARELY FLOODED                 | OTERO                | No       | fan remnant        | ---                   | ---                       | ---                     | ---                    |
|   | GLENBERG             | No       | flood plain        | ---                   | ---                       | ---                     | ---                    |
|   | BANKARD              | No       | ---                | ---                   | ---                       | ---                     | ---                    |
| Gn:<br>GOSHEN SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED  | BRIDGEPORT           | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | GOSHEN               | No       | drainageway, swale | ---                   | ---                       | ---                     | ---                    |
| Ka:<br>KEITH SILT LOAM, 0 TO 1 PERCENT SLOPES                   | PLEASANT             | Yes      | depression         | 3                     | NO                        | NO                      | YES                    |
|   | KEITH                | No       | plain              | ---                   | ---                       | ---                     | ---                    |
| Km:<br>KIM LOAM, 1 TO 3 PERCENT SLOPES                          | PLEASANT             | Yes      | depression         | 3                     | NO                        | NO                      | YES                    |
|   | KIM                  | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | SATANTA              | No       | ---                | ---                   | ---                       | ---                     | ---                    |
| Ko:<br>KIM LOAM, 3 TO 6 PERCENT SLOPES                          | ULYSSES              | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | KIM                  | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | CANYON               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | COLBY                | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                | No       | fan remnant        | ---                   | ---                       | ---                     | ---                    |
| Kr:<br>KIM-RAZOR COMPLEX, 3 TO 6 PERCENT SLOPES                 | SATANTA              | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | KIM                  | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | RAZOR                | No       | hillslope          | ---                   | ---                       | ---                     | ---                    |
|   | COLBY                | No       | ---                | ---                   | ---                       | ---                     | ---                    |
| Ku:<br>KUMA SILT LOAM, 0 TO 1 PERCENT SLOPES                    | MIDWAY               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | KUMA                 | No       | flat               | ---                   | ---                       | ---                     | ---                    |
|   | PLEASANT             | Yes      | depression         | 3                     | NO                        | NO                      | YES                    |
| Lh:<br>LAS ANIMAS LOAM, OCCASIONALLY FLOODED                    | LAS ANIMAS           | No       | flood plain        | ---                   | ---                       | ---                     | ---                    |
|   | BANKARD              | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | BRIDGEPORT           | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | CARUSO               | No       | ---                | ---                   | ---                       | ---                     | ---                    |
| M-W:<br>Miscellaneous Water                                     | MISCELLANEOUS WATER  | Unranked | ---                | ---                   | ---                       | ---                     |                        |
| Mc:<br>MANTER FINE SANDY LOAM, 2 TO 5 PERCENT SLOPES            | MANTER               | No       | plain              | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                | No       | fan remnant        | ---                   | ---                       | ---                     | ---                    |
|   | SATANTA              | No       | ---                | ---                   | ---                       | ---                     | ---                    |
|   | UNNAMED HYDRIC SOILS | Yes      | depression         | 3                     | NO                        | NO                      | YES                    |
| n1331:<br>BANKARD SAND, 0 TO 2 PERCENT SLOPES                   | BANKARD              | No       | flood plain        | ---                   | ---                       | ---                     | ---                    |
|   | ALMERIA              | Yes      | flood plain        | 2B3                   | YES                       | NO                      | NO                     |
| n1465:<br>BENKELMAN VERY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES | BENKELMAN            | No       | stream terrace     | ---                   | ---                       | ---                     | ---                    |
|   | OTERO                | No       | stream terrace     | ---                   | ---                       | ---                     | ---                    |

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|---|-----------------------|----------|----------------------------------|-----------------------|---------------------------|-------------------------|------------------------|
|   |                       |          |                                  | Hydric criteria code  | Meets saturation criteria | Meets flooding criteria | Meets ponding criteria |
| n1500:<br>BLACKWOOD LOAM, 0 TO 1 PERCENT SLOPE                              | BLACKWOOD             | No       | plain                            | ---                   | ---                       | ---                     | ---                    |
|   | LODGEPOLE             | Yes      | depression                       | 2A                    | YES                       | NO                      | NO                     |
| n1502:<br>BLACKWOOD LOAM, 1 TO 3 PERCENT SLOPES                             | BLACKWOOD             | No       | plain                            | ---                   | ---                       | ---                     | ---                    |
|   | LODGEPOLE             | Yes      | depression                       | 2A                    | YES                       | NO                      | NO                     |
| n2250:<br>CRAFT VERY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED | CRAFT                 | No       | flood plain                      | ---                   | ---                       | ---                     | ---                    |
|   | HAIGLER               | No       | flood plain                      | ---                   | ---                       | ---                     | ---                    |
| n2254:<br>CRAFT VERY FINE SANDY LOAM, CHANNELED, 0 TO 2 PERCENT SLOPES      | CRAFT                 | No       | flood plain                      | ---                   | ---                       | ---                     | ---                    |
|   | BANKARD               | No       | flood plain                      | ---                   | ---                       | ---                     | ---                    |
| n5949:<br>OTERO FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES                      | OTERO                 | No       | stream terrace                   | ---                   | ---                       | ---                     | ---                    |
|   | BENKELMAN<br>SCOVILLE | No<br>No | stream terrace<br>stream terrace | ---                   | ---                       | ---                     | ---                    |
| n6632:<br>SARBEN LOAMY SAND, 0 TO 3 PERCENT SLOPES                          | SARBEN                | No       | swale                            | ---                   | ---                       | ---                     | ---                    |
|   | VALENT<br>JAYEM       | No<br>No | swale<br>swale                   | ---                   | ---                       | ---                     | ---                    |
| n6633:<br>SARBEN LOAMY SAND, 3 TO 6 PERCENT SLOPES                          | SARBEN                | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | VALENT<br>SULCO       | No<br>No | hillslope<br>hillslope           | ---                   | ---                       | ---                     | ---                    |
| n6634:<br>SARBEN LOAMY SAND, 6 TO 9 PERCENT SLOPES                          | SARBEN                | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | VALENT<br>SULCO       | No<br>No | hillslope<br>hillslope           | ---                   | ---                       | ---                     | ---                    |
| n6635:<br>SARBEN LOAMY SAND, 9 TO 30 PERCENT SLOPES                         | SARBEN                | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | VALENT<br>SULCO       | No<br>No | hillslope<br>hillslope           | ---                   | ---                       | ---                     | ---                    |
| n6700:<br>SATANTA FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES                    | SATANTA               | No       | plain                            | ---                   | ---                       | ---                     | ---                    |
|   | SARBEN<br>ULYSSES     | No<br>No | plain<br>plain                   | ---                   | ---                       | ---                     | ---                    |
| n7096:<br>SULCO LOAM, 3 TO 6 PERCENT SLOPES                                 | SULCO                 | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | ULYSSES               | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
| n7098:<br>SULCO LOAM, 6 TO 9 PERCENT SLOPES                                 | SULCO                 | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | ULYSSES               | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
| n7100:<br>SULCO LOAM, 9 TO 30 PERCENT SLOPES                                | SULCO                 | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | ULYSSES<br>CRAFT      | No<br>No | hillslope<br>flood plain         | ---                   | ---                       | ---                     | ---                    |
| n7102:<br>SULCO COMPLEX, 9 TO 60 PERCENT SLOPES                             | SULCO                 | No       | hillslope                        | ---                   | ---                       | ---                     | ---                    |
|   | SULCO<br>CRAFT        | No<br>No | hillslope<br>flood plain         | ---                   | ---                       | ---                     | ---                    |
| n7461:<br>ULYSSES LOAM, 1 TO 3 PERCENT SLOPES                               | ULYSSES               | No       | plain                            | ---                   | ---                       | ---                     | ---                    |
|   | DUROC                 | No       | swale                            | ---                   | ---                       | ---                     | ---                    |
| Ot:<br>OTERO FINE SANDY LOAM, 5 TO 15 PERCENT SLOPES                        | OTERO                 | No       | fan remnant                      | ---                   | ---                       | ---                     | ---                    |
|   | MANTER<br>SATANTA     | No<br>No | ---<br>---                       | ---                   | ---                       | ---                     | ---                    |
| Ps:<br>PLEASANT SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES                      | PLEASANT              | Yes      | playa                            | 3                     | NO                        | NO                      | YES                    |

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| Map symbol and map unit name                                 | Component            | Hydric   | Local landform | Hydric soils criteria |                           |                         |                        |
|--|----------------------|----------|----------------|-----------------------|---------------------------|-------------------------|------------------------|
|  |                      |          |                | Hydric criteria code  | Meets saturation criteria | Meets flooding criteria | Meets ponding criteria |
| Rm:<br>RAZOR-MIDWAY SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES | RAZOR                | No       | hillslope      | ---                   | ---                       | ---                     | ---                    |
|  | MIDWAY               | No       | hillslope      | ---                   | ---                       | ---                     | ---                    |
|  | BRIDGEPORT           | No       | ---            | ---                   | ---                       | ---                     | ---                    |
|  | KIM                  | No       | ---            | ---                   | ---                       | ---                     | ---                    |
| Sb:<br>SATANTA LOAM, 0 TO 1 PERCENT SLOPES                   | UNNAMED HYDRIC SOILS | Yes      | drainageway    | 2A                    | YES                       | NO                      | NO                     |
|  | SATANTA              | No       | paleoterrace   | ---                   | ---                       | ---                     | ---                    |
|  | KIM                  | No       | ---            | ---                   | ---                       | ---                     | ---                    |
|  | MANTER               | No       | ---            | ---                   | ---                       | ---                     | ---                    |
| Sc:<br>SATANTA LOAM, 1 TO 3 PERCENT SLOPES                   | PLEASANT             | Yes      | depression     | 3                     | NO                        | NO                      | YES                    |
|  | SATANTA              | No       | paleoterrace   | ---                   | ---                       | ---                     | ---                    |
|  | MANTER               | No       | ---            | ---                   | ---                       | ---                     | ---                    |
| Ua:<br>ULYSSES SILT LOAM, 0 TO 1 PERCENT SLOPES              | PLEASANT             | Yes      | depression     | 3                     | NO                        | NO                      | YES                    |
|  | ULYSSES              | No       | ---            | ---                   | ---                       | ---                     | ---                    |
|  | SATANTA              | No       | ---            | ---                   | ---                       | ---                     | ---                    |
| Ub:<br>ULYSSES SILT LOAM, 1 TO 3 PERCENT SLOPES              | ULYSSES              | No       | plain          | ---                   | ---                       | ---                     | ---                    |
|  | MANTER               | No       | ---            | ---                   | ---                       | ---                     | ---                    |
|  | SATANTA              | No       | ---            | ---                   | ---                       | ---                     | ---                    |
| W:<br>Water  | WATER                | Unranked | ---            | ---                   | ---                       | ---                     |                        |

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II. Areas mapped as water or any map unit that contains one of the following conventional symbols is considered a hydric soil map unit: marshes or swamps; wet spots; depressions; streams, lakes and ponds.

1. All Histosols except Folists, or
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
  - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
  - b. poorly drained or very poorly drained and have either:
    - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in), or for other soils
    - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
    - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or
3. Soils that are frequently ponded for long duration or very long duration during the growing season, or
4. Soils that are frequently flooded for long duration or very long duration during the growing season.