

# Hydric Soils

Codington County, South Dakota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
<b>J108A:</b>					
Badger-Tonka silty clay loams, 0 to 1 percent slopes	Tonka, undrained	30	Potholes	Yes	2B3, 3
	Badger, poorly drained	2	Swales	Yes	2B3
	Parnell	2	Potholes	Yes	2B3, 3
<b>J109A:</b>					
Barnes clay loam, 0 to 2 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J109B:</b>					
Barnes clay loam, 2 to 6 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J110C:</b>					
Barnes-Buse loams, 6 to 9 percent slopes	Tonka, undrained	3	Potholes	Yes	2B3, 3
<b>J111B:</b>					
Barnes-Buse-Svea loams, 1 to 6 percent slopes	Tonka, undrained	4	Potholes	Yes	2B3, 3
<b>J111C:</b>					
Barnes-Buse-Svea loams, 2 to 9 percent slopes	Tonka, undrained	3	Potholes	Yes	2B3, 3
<b>J112A:</b>					
Barnes-Svea loams, 0 to 2 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
<b>J112B:</b>					
Barnes-Svea loams, 1 to 6 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J113A:</b>					
Brookings silty clay loam, 0 to 2 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J114C:</b>					
Buse-Barnes loams, 2 to 15 percent slopes, very stony	Tonka	2	Potholes	Yes	2B3, 3
	Parnell, undrained	1	Potholes	Yes	2B3, 3
	Southam	1	Potholes	Yes	2B3, 3
<b>J114E:</b>					
Buse-Barnes loams, 9 to 40 percent slopes, very stony	Parnell, undrained	1	Potholes	Yes	2B3, 3
	Southam	1	Potholes	Yes	2B3, 3
	Tonka, undrained	1	Potholes	Yes	2B3, 3

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J115D: Buse-Barnes loams, 9 to 20 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
J116E: Buse-Lamoure, channeled, frequently flooded, complex, 0 to 40 percent slopes	Lamoure, channeled, frequently flooded	30	Flood plains	Yes	2B3
	Rauville, frequently flooded	3	Flood plains, Outwash plains	Yes	2B3, 4
J117E: Buse-Langhei complex, 15 to 40 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
J118C: Buse-Poinsett complex, 6 to 9 percent slopes	Tonka	2	Potholes	Yes	2B3, 3
J121A: Colvin silty clay loam, till substratum, 0 to 1 percent slopes	Colvin, till substratum	85	Potholes, Rims	Yes	2B3
	Oldham	2	Potholes	Yes	2B3, 3
	Parnell, undrained	2	Potholes	Yes	2B3, 3
J122A: Cubden silty clay loam, 0 to 2 percent slopes	Colvin, till substratum	7	Potholes, Rims	Yes	2B3
	Tonka	2	Potholes	Yes	2B3, 3
J123A: Cubden-Badger silty clay loams, 0 to 2 percent slopes	Badger, poorly drained	2	Swales	Yes	2B3
	Tonka, undrained	1	Potholes	Yes	2B3, 3
J124A: Cubden-Tonka silty clay loams, 0 to 2 percent slopes	Tonka, undrained	35	Potholes	Yes	2B3, 3
	Parnell, undrained	2	Potholes	Yes	2B3, 3
J125A: Divide loam, 0 to 2 percent slopes, occasionally flooded	Marysland, occasionally flooded	10	Flood plains, Outwash plains	Yes	2B3
J126A: Doburg-Forestville loams, 0 to 2 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
J126B: Doburg-Forestville loams, 1 to 6 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3

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J131A:					
Fairdale loam, channeled, 0 to 2 percent slopes, frequently flooded	Lamoure, channeled, frequently flooded	10	Flood plains	Yes	2B3
	Rauville, frequently flooded	4	Flood plains, Outwash plains	Yes	2B3, 4
J133A:					
Forman-Aastad loams, 0 to 2 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
J133B:					
Forman-Aastad loams, 1 to 6 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
J134C:					
Forman-Buse-Aastad loams, 2 to 9 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
J136A:					
Great Bend-Beotia silt loams, 0 to 2 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
J137B:					
Great Bend-Zell silt loams, 2 to 6 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
J137C:					
Great Bend-Zell silt loams, 6 to 9 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
J138A:					
Hamerly-Badger complex, 0 to 2 percent slopes	Badger, poorly drained	2	Swales	Yes	2B3
	Tonka, undrained	2	Potholes	Yes	2B3, 3
J139A:					
Hamerly-Balaton loams, 0 to 3 percent slopes	Vallers, undrained	5	Potholes, Rims	Yes	2B3
	Tonka, undrained	2	Potholes	Yes	2B3, 3
J140A:					
Hamerly-Tonka complex, 0 to 2 percent slopes	Tonka, undrained	25	Potholes	Yes	2B3, 3
	Parnell, undrained	2	Potholes	Yes	2B3, 3
J141A:					
Hetland silty clay loam, 0 to 2 percent slopes	Tonka	3	Potholes	Yes	2B3, 3
J141B:					
Hetland silty clay loam, 2 to 6 percent slopes	Tonka	1	Potholes	Yes	2B3, 3

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<b>J142A:</b>					
Hidewood silty clay loam, 0 to 2 percent slopes, frequently flooded	Hidewood, frequently flooded	75	Flood plains	Yes	2B3
	Rauville, frequently flooded	10	Flood plains, Outwash plains	Yes	2B3, 4
<b>J143A:</b>					
Kranzburg-Brookings silty clay loams, 0 to 2 percent slopes	Tonka	1	Potholes	Yes	2B3, 3
<b>J143B:</b>					
Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes	Tonka	1	Potholes	Yes	2B3, 3
<b>J144B:</b>					
Kings lake-Buse-Waubay complex, 1 to 6 percent slopes	Tonka	4	Potholes	Yes	2B3, 3
<b>J145A:</b>					
Kranzburg-Cresbard complex, 0 to 2 percent slopes	Tonka, undrained	1	Potholes	Yes	2B3, 3
<b>J146A:</b>					
Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded	Lamoure, channeled	65	Flood plains	Yes	2B3
	Rauville, frequently flooded	25	Flood plains, Outwash plains	Yes	2B3, 4
	Marysland, occasionally flooded	4	Flood plains, Outwash plains	Yes	2B3
<b>J147A:</b>					
Lowe loam, 0 to 1 percent slopes, occasionally flooded	Lowe, occasionally flooded	85	Flood plains	Yes	2B3
	Rauville, frequently flooded	4	Flood plains, Outwash plains	Yes	2B3, 4
<b>J151A:</b>					
Marysland loam, 0 to 1 percent slopes, occasionally flooded	Marysland, undrained	80	Flood plains, Outwash plains	Yes	2B3
	Rauville, frequently flooded	8	Flood plains, Outwash plains	Yes	2B3, 4
<b>J152A:</b>					
Mauvais clay loam, occasionally ponded, 0 to 2 percent slopes	Minnewaukan, occasionally ponded	6	Beach plains, Outwash plains	Yes	2B2
<b>J153B:</b>					
Mauvais clay loam, occasionally ponded, 2 to 6 percent slopes, extremely stony	Minnewaukan, occasionally ponded	7	Beach plains, Outwash plains	Yes	2B2
<b>J154A:</b>					
Mckranz silty clay loam, 0 to 2 percent slopes	Tonka, undrained	5	Potholes	Yes	2B3, 3

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J155A: Mckranz silty clay loam, moderately saline, 0 to 2 percent slopes	Hidewood, frequently flooded	5	Flood plains	Yes	2B3
J156A: Mckranz-Badger silty clay loams, 0 to 2 percent slopes	Hidewood, frequently flooded	4	Flood plains	Yes	2B3
	Badger, poorly drained	2	Swales	Yes	2B3
	Tonka, undrained	2	Potholes	Yes	2B3, 3
J157A: Mckranz-Hidewood, frequently flooded, silty clay loams, 0 to 2 percent slopes	Hidewood, frequently flooded	25	Flood plains	Yes	2B3
	Rauville, frequently flooded	2	Flood plains, Outwash plains	Yes	2B3, 4
J158A: Minnewasta sandy loam, occasionally ponded, 0 to 2 percent slopes	Minnewaukan, occasionally ponded	10	Beach plains, Outwash plains	Yes	2B2
J158B: Minnewasta sandy loam, occasionally ponded, 2 to 6 percent slopes	Minnewaukan, occasionally ponded	10	Beach plains, Outwash plains	Yes	2B2
J159A: Minnewaukan loamy sand, occasionally ponded, 0 to 3 percent slopes	Minnewaukan, occasionally ponded	85	Beach plains, Outwash plains	Yes	2B2
J160A: Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes	Lamoure, frequently flooded	30	Flood plains	Yes	2B3
	Rauville, frequently flooded	5	Flood plains, Outwash plains	Yes	2B3, 4
J161A: Parnell silty clay loam, 0 to 1 percent slopes	Parnell, undrained	85	Potholes	Yes	2B3, 3
	Vallers, undrained	10	Potholes, Rims	Yes	2B3
J162B: Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Tonka	3	Potholes	Yes	2B3, 3
	Parnell, undrained	2	Potholes	Yes	2B3, 3
J162C: Poinsett-Buse-Waubay complex, 2 to 9 percent slopes	Tonka	3	Potholes	Yes	2B3, 3
J163B: Poinsett-Rusklyn-Waubay silty clay loams, 1 to 6 percent slopes	Tonka	2	Potholes	Yes	2B3, 3

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<b>J164A:</b>					
Poinsett-Waubay silty clay loams, 0 to 2 percent slopes	Tonka, undrained	4	Potholes	Yes	2B3, 3
<b>J164B:</b>					
Poinsett-Waubay silty clay loams, 1 to 6 percent slopes	Tonka	2	Potholes	Yes	2B3, 3
<b>J165A:</b>					
Rauville mucky silty clay loam, ponded, 0 to 1 percent slopes, frequently flooded	Rauville, ponded,frequently flooded	85	Flood plains, Outwash plains	Yes	2B3, 4
	Marysland, undrained	7	Flood plains, Outwash plains	Yes	2B3
	Lamoure, frequently flooded	5	Flood plains	Yes	2B3
	Ludden, undrained	3	Flood plains	Yes	2B3, 4
<b>J166A:</b>					
Rauville silty clay loam, 0 to 1 percent slopes, frequently flooded	Rauville, frequently flooded	85	Flood plains, Outwash plains	Yes	2B3, 4
	Marysland, occasionally flooded	7	Flood plains, Outwash plains	Yes	2B3
<b>J172A:</b>					
Sedgeville sandy loam, 0 to 1 percent slopes, frequently flooded	Sedgeville, frequently flooded	85	Flood plains	Yes	2B3
	Lamoure, frequently flooded	5	Flood plains	Yes	2B3
	Rauville, frequently flooded	5	Flood plains, Outwash plains	Yes	2B3, 4
<b>J175A:</b>					
Southam silty clay loam, 0 to 1 percent slopes	Southam	90	Potholes	Yes	2B3, 3
	Colvin, till substratum	3	Potholes, Rims	Yes	2B3
	Vallers, undrained	3	Potholes, Rims	Yes	2B3
<b>J176A:</b>					
Spottswood loam, 0 to 2 percent slopes, occasionally flooded	Castlewood, undrained	1	Flood plains	Yes	2B3
<b>J179A:</b>					
Tonka silty clay loam, 0 to 1 percent slopes	Tonka, undrained	90	Potholes	Yes	2B3, 3
	Vallers, undrained	2	Potholes, Rims	Yes	2B3
	Parnell, undrained	1	Potholes	Yes	2B3, 3

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<b>J182A:</b>					
Vallers loam, 0 to 1 percent slopes	Vallers, undrained	85	Potholes, Rims	Yes	2B3
	Parnell	5	Potholes	Yes	2B3, 3
	Tonka, undrained	3	Potholes	Yes	2B3, 3
<b>J183A:</b>					
Vallers-Hamerly loams, 0 to 2 percent slopes	Vallers, undrained	60	Potholes, Rims	Yes	2B3
	Parnell, undrained	2	Potholes	Yes	2B3, 3
	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J184A:</b>					
Vallers-Parnell complex, 0 to 2 percent slopes	Vallers, undrained	45	Potholes, Rims	Yes	2B3
	Parnell, undrained	35	Potholes	Yes	2B3, 3
	Tonka, undrained	3	Potholes	Yes	2B3, 3
<b>J185B:</b>					
Vienna-Barnes-Forestville loams, 1 to 6 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J186A:</b>					
Vienna-Brookings complex, 0 to 2 percent slopes	Tonka	1	Potholes	Yes	2B3, 3
<b>J186B:</b>					
Vienna-Brookings complex, 1 to 6 percent slopes	Tonka	2	Potholes	Yes	2B3, 3
<b>J188A:</b>					
Vienna-Forestville loams, 0 to 2 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J189B:</b>					
Wamduska gravelly loamy coarse sand, occasionally ponded, 2 to 6 percent slopes	Minnewaukan, occasionally ponded	10	Beach plains, Outwash plains	Yes	2B2
<b>J190B:</b>					
Wamduska gravelly loamy coarse sand, occasionally ponded, 2 to 6 percent slopes, extremely stony	Minnewaukan, occasionally ponded	10	Beach plains, Outwash plains	Yes	2B2
<b>J191A:</b>					
Waubay silty clay loam, 0 to 2 percent slopes	Tonka, undrained	2	Potholes	Yes	2B3, 3

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<b>J192A:</b>					
Waubay-Badger silty clay loams, 0 to 2 percent slopes	Badger, poorly drained	2	Swales	Yes	2B3
	Tonka, undrained	2	Potholes	Yes	2B3, 3
<b>J194A:</b>					
Oldham silty clay loam, 0 to 1 percent slopes	Oldham	85	Potholes	Yes	2B3, 3
	Vallers, undrained	5	Potholes, Rims	Yes	2B3
	Colvin, till substratum	4	Potholes, Rims	Yes	2B3
	Southam	4	Potholes	Yes	2B3, 3
<b>J239A:</b>					
La Prairie loam, 0 to 2 percent slopes, occasionally flooded	Castlewood, undrained	3	Flood plains	Yes	2B3
<b>J244A:</b>					
Lamoure silty clay loam, 0 to 1 percent slopes, occasionally flooded	Ludden, undrained	5	Flood plains	Yes	2B3, 4
	Rauville, frequently flooded	5	Flood plains, Outwash plains	Yes	2B3, 4

## Explanation of hydric criteria codes:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
  - A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
  - B. are poorly drained or very poorly drained and have either:
    - 1.) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
    - 2.) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
    - 3.) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.