

(ONLY MAPUNITS THAT CONTAIN HYDRIC SOILS ARE LISTED)

Map Symbol And map unit name	Hydric Component	Percent Of Map Unit	Hydric Rating	Landform	Hydric Soils Criteria			
					Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria
6: Okoboji silty clay loam, 0 to 1 percent slopes	Okoboji	85	Yes	depressions	2	Yes	No	No
	Canisteo	10	Yes	rims on depressions, ground moraines	2	Yes	No	No
	Harps	5	Yes	rims on depressions	2	Yes	No	No
27B: Terri loam, 2 to 6 percent slopes	Delft	8	Yes	swales on ground moraines	2	Yes	No	No
34B: Estherville sandy loam, 2 to 6 percent slopes	Biscay	1	Yes	terraces, outwash plains	2	Yes	No	No
55: Nicoret clay loam, 1 to 3 percent slopes	Okoboji	5	Yes	depressions	2	Yes	No	No
	Webster	5	Yes	ground moraines	2	Yes	No	No
90: Okoboji mucky silty clay loam, depressional, 0 to 1 percent slopes	Okoboji, mucky, ponded	85	Yes	ground moraines	2, 3	Yes	No	Yes
	Harps	5	Yes	ground moraines	2	Yes	No	No
	Knoke, depressional	5	Yes	ground moraines	3, 2	Yes	No	Yes
	Okoboji	5	Yes	ground moraines	2, 3	Yes	No	Yes
95: Harps clay loam, 0 to 2 percent slopes	Harps	85	Yes	rims on depressions	2	Yes	No	No
	Glencoe	10	Yes	depressions	2	Yes	No	No
	Okoboji	3	Yes	depressions	2	Yes	No	No
	Canisteo	2	Yes	rims on depressions, ground	2	Yes	No	No

107: Webster clay loam, 0 to 2 percent slopes	Webster	85	Yes	moraines ground moraines	2	Yes	No	No
	Okoboji	5	Yes	depressions	2	Yes	No	No

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	Glencoe	3	Yes	depressions	2	Yes	No	No
	Canisteo	2	Yes	rims on depressions, ground moraines	2	Yes	No	No
135: Coland clay loam, 0 to 2 percent slopes, occasionally flooded	Coland, occasionally flooded	85	Yes	flood plains	2	Yes	No	No
	Havelock, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
138B: Clari loam, 2 to 6 percent slopes	Webster	5	Yes	ground moraines	2	Yes	No	No
201B: Coland-Terril complex, 1 to 5 percent slopes	Coland	50	Yes	ground moraines	2	Yes	No	No
	Coland, Frequently flooded	5	Yes	ground moraines	2	Yes	No	No
203: Cylinder loam, 0 to 2 percent slopes	Biscay	10	Yes	stream terraces	2	Yes	No	No
228: Cylinder loam, loamy substratum, 0 to 2 percent slopes	Biscay	10	Yes	stream terraces	2	Yes	No	No
	Biscay, loamy substratum	5	Yes	ground moraines	2	Yes	No	No
236D: Lester loam, 10 to 16 percent slopes	Hamel	2	Yes	ground moraines	2	Yes	No	No
259: Biscay clay loam, 0 to 2 percent slopes	Biscay	85	Yes	terraces, outwash plains	2	Yes	No	No
	Biscay,	10	Yes	depressions	2	Yes	No	No

274: Rolfe silt loam, 0 to 1 percent slopes	depressional			on outwash plains				
	Mayer	3	Yes	terraces, outwash plains	2	Yes	No	No
	Okoboji	2	Yes	depressions	2	Yes	No	No
	Rolfe	85	Yes	depressions	2	Yes	No	No
	Webster	10	Yes	ground moraines	2	Yes	No	No

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278: Biscay clay loam, loamy substratum, 0 to 2 percent slopes	Glencoe	5	Yes	depressions	2	Yes	No	No
	Biscay, loamy substratum	70	Yes	ground moraines	2	Yes	No	No
	Biscay	15	Yes	stream terraces	2	Yes	No	No
	Biscay, depressional, ponded	10	Yes	stream terraces	3, 2	Yes	No	Yes
315B: Udi fluvents, loamy, 2 to 5 percent slopes, occasionally flooded	Fluvaquents, Frequently flooded	10	Yes	flood plains	2, 4	Yes	Yes	No
325: Le Sueur loam, 1 to 3 percent slopes	Cordova	10	Yes	ground moraines	2	Yes	No	No
	Webster	5	Yes	ground moraines	2	Yes	No	No
345: Copaston-jacwin complex, 1 to 3 percent slopes	Faxon	15	Yes	structural benches	2	Yes	No	No
355: Luther loam, 1 to 3 percent slopes	Dundas	5	Yes	ground moraines	2	Yes	No	No
383: Marna silty clay loam, 0 to 2 percent slopes	Marna	85	Yes	flats, ground moraines, lake plains	2	Yes	No	No
	Okoboji	7	Yes	depressions, depressions	2	Yes	No	No
	Brownton	3	Yes	ground	2	Yes	No	No

385: Guckeen silty clay loam, 1 to 3 percent slopes	Marna	10	Yes	moraines, flats, lake plains ground moraines	2	Yes	No	No
386: Cordova clay loam, 0 to 2 percent slopes	Cordova	85	Yes	ground moraines	2	Yes	No	No
	Glencoe	5	Yes	depressions	2	Yes	No	No
457: Du Page silt loam, 0 to 2 percent slopes, occasionally flooded	Havelock, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
485: Spillville loam, 0 to 2 percent slopes, occasionally flooded	Coland, occasionally flooded	10	Yes	flood plains	2	Yes	No	No

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485B: Spillville loam, 2 to 5 percent slopes, rarely flooded	Havelock, occasionally flooded	5	Yes	flood plains	2	Yes	No	No	
	Coland, occasionally flooded	5	Yes	flood plains	2	Yes	No	No	
	506: Wacousta silty clay loam, depressional, 0 to 1 percent slopes	Wacousta, depressional, ponded	80	Yes	ground moraines	3, 2	Yes	No	Yes
		Calcousta, depressional, ponded	10	Yes	ground moraines	2, 3	Yes	No	Yes
	507: Canisteo clay loam, 0 to 2 percent slopes	Harps	5	Yes	ground moraines	2	Yes	No	No
		Klossner, depressional, ponded	5	Yes	ground moraines	3, 1	No	No	Yes
Canisteo		75	Yes	rims on depressions, ground moraines	2	Yes	No	No	
507: Canisteo clay loam, 0 to 2 percent slopes	Okoboji	13	Yes	depressions	2	Yes	No	No	
	Harps	5	Yes	rims on depressions	2	Yes	No	No	

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511: Blue Earth mucky silt loam, 0 to 1 percent slopes	Webster	5	Yes	ground moraines	2	Yes	No	No
	Glencoe	2	Yes	depressions	2	Yes	No	No
	Blue Earth	85	Yes	depressions	2	Yes	No	No
	Canisteo	10	Yes	rims on depressions, ground moraines	2	Yes	No	No
	Harps	4	Yes	rims on depressions	2	Yes	No	No
	Lemond	1	Yes	terraces, outwash plains	2	Yes	No	No
526: Wacousta mucky silt loam, depressional, 0 to 1 percent slopes	Wacousta, mucky, depressional	90	Yes	ground moraines	2, 3	Yes	No	Yes
	Calcousta, depressional	5	Yes	ground moraines	3, 2	Yes	No	Yes

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551B: Calamine silty clay loam, 2 to 5 percent slopes	Okoboji, mucky	5	Yes	ground moraines	2, 3	Yes	No	Yes
	Calamine	85	Yes	structural benches	2	Yes	No	No
	Cosmos, bouldery	5	Yes	terraces, ground moraines	2	Yes	No	No
551D: Calamine silty clay loam, 5 to 14 percent slopes	Calamine	55	Yes	structural benches	2	Yes	No	No
	Cosmos, bouldery	5	Yes	terraces, ground moraines	2	Yes	No	No
559: Talcot clay loam, 0 to 2 percent slopes	Talcot	85	Yes	stream terraces	2	Yes	No	No
	Biscay, depressional, ponded	10	Yes	stream terraces	3, 2	Yes	No	Yes

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561: Talcot clay loam, loamy substratum, 0 to 2 percent slopes	Talcot, loamy substratum	70	Yes	ground moraines	2	Yes	No	No
	Talcot	20	Yes	stream terraces	2	Yes	No	No
	Biscay, depressional , ponded	5	Yes	stream terraces	2, 3	Yes	No	Yes
583: Minnetonka silty clay loam, 0 to 2 percent slopes	Minnetonka	90	Yes	ground moraines	2	Yes	No	No
606: Lanyon silty clay loam, depressional, 0 to 1 percent slopes	Lanyon, depressional	80	Yes	ground moraines	2	Yes	No	No
	Brownton	10	Yes	ground moraines	2	Yes	No	No
	Harps	10	Yes	ground moraines	2	Yes	No	No
625: Lerdal silt loam, 1 to 3 percent slopes	Minnetonka	15	Yes	ground moraines	2	Yes	No	No
638C2: Clari on-Storden complex, 6 to 10 percent slopes, moderately eroded	Del ft	5	Yes	swales on ground moraines	2	Yes	No	No

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650: Joliet-Faxon complex, 0 to 2 percent slopes	Faxon	45	Yes	structural benches	2	Yes	No	No
	Joliet	45	Yes	structural benches	2	Yes	No	No
	Romeo, frequently flooded, ponded	5	Yes	flood plains	3, 2	Yes	No	Yes
715: Fluvaquents, loamy, 0 to 2 percent slopes, frequently flooded	Fluvaquents, Frequently flooded	65	Yes	flood plains	2, 4	Yes	Yes	No
	Fluvaquents, Frequently flooded	10	Yes	flood plains	2, 4	Yes	Yes	No
735:								

Havelock clay loam, 0 to 2 percent slopes, occasionally flooded	Havelock, occasionally flooded	85	Yes	flood plains	2	Yes	No	No
	Coland, occasionally flooded	10	Yes	flood plains	2	Yes	No	No
836B: Kilkenny silt loam, 2 to 5 percent slopes	Minnetonka	5	Yes	ground moraines	2	Yes	No	No
854D: Fens, aquolls, 5 to 14 percent slopes	Fens	80	Yes	ground moraines	1	No	No	No
	Coland, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
	Klossner	5	Yes	ground moraines	1	No	No	No
855: Shorewood silty clay loam, 1 to 3 percent slopes	Minnetonka	10	Yes	depressions, lake plains	2	Yes	No	No
956: Harps-Okoboji complex, 0 to 2 percent slopes	Harps	55	Yes	rims on depressions	2	Yes	No	No
	Okoboji	35	Yes	depressions	2	Yes	No	No
	Canisteo	10	Yes	rims on depressions, ground moraines	2	Yes	No	No
1007: Cosmos clay loam, 0 to 3 percent slopes, bouldery	Cosmos, bouldery	65	Yes	terraces, ground moraines	2	Yes	No	No

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1055B: Kandi yohi clay loam, 2 to 5 percent slopes, bouldery	Cosmos	10	Yes	terraces, ground moraines	2	Yes	No	No
	Coland, occasionally flooded	3	Yes	flood plains	2	Yes	No	No
	Cosmos, bouldery	10	Yes	terraces, ground moraines	2	Yes	No	No
	Cosmos	10	Yes	terraces, ground	2	Yes	No	No

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1236B: Angus loam, 2 to 6 percent slopes	Cordova	5	Yes	ground moraines	2	Yes	No	No
1259: Biscay clay loam, depressional, 0 to 1 percent slopes	Biscay, depressional	85	Yes	depressions on outwash plains	2	Yes	No	No
	Biscay	10	Yes	terraces, outwash plains	2	Yes	No	No
	Mayer	3	Yes	terraces, outwash plains	2	Yes	No	No
	Klossner, drained	2	Yes	depressions	1	No	No	No
1507: Brownnton silty clay loam, 0 to 2 percent slopes	Brownnton	80	Yes	ground moraines	2	Yes	No	No
	Marna	10	Yes	ground moraines	2	Yes	No	No
	Lanyon, depressional, ponded	5	Yes	ground moraines	2	Yes	No	No
	Okoboji	5	Yes	ground moraines	3, 2	Yes	No	Yes
1555: Nicolet-Guckeen complex, 1 to 3 percent slopes	Marna	15	Yes	ground moraines	2	Yes	No	No
1836B: Killenny-Shorewood complex, 2 to 5 percent slopes	Minnetonka	5	Yes	ground moraines	2	Yes	No	No
4107: Webster-Urban land complex, 0 to 2 percent slopes	Webster	60	Yes	ground moraines	2	Yes	No	No

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4507: Canisteo-Urban land complex, 0 to 2 percent slopes	Canisteo	50	Yes	ground moraines	2	Yes	No	No
4551B: Calamine-Urban land complex, 2 to 5	Calamine	50	Yes	structural benches	2	Yes	No	No

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percent slopes								
4551D: Calamine-Urban land complex, 5 to 14 percent slopes	Calamine	50	Yes	structural benches	2	Yes	No	No
5049: Aquolls, ponded-Udorthents, loamy, complex	Aquolls	60	Yes	flood plains	3, 2	Yes	No	Yes
5457: Du Page silt loam, channeled, 0 to 2 percent slopes, frequently flooded	Du Page, frequently flooded, channeled	80	Yes	flood plains	4	No	Yes	No
	Havelock, frequently flooded	10	Yes	flood plains	2	Yes	No	No
5507: Corvuso-Brownton complex, 0 to 2 percent slopes	Corvuso	55	Yes	ground moraines	2	Yes	No	No
	Brownton	35	Yes	ground moraines	2	Yes	No	No
	Okoboji	5	Yes	ground moraines	3, 2	Yes	No	Yes
L307: Dundas silt loam, Bemis moraine, 0 to 2 percent slopes	Dundas, Bemis moraine	85	Yes	ground moraines	2	Yes	No	No
	Webster, Bemis moraine	5	Yes	ground moraines	2	Yes	No	No

Explanation of hydric criteria codes:

1. All Histels (except for Folistels), and Histosols (except for Folists), which are, by definition, saturated
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 periods of long or very long duration during the growing season.
4. Soils that are frequently flooded for periods of long or very long duration during the growing season.