Hydric Soils

Wright County, Minnesota

[This report lists only those map unit components that are rated as hydric. Dashes (---) in any column indicate that the data were not included in the database. Definitions of hydric criteria codes are included at the end of the report]

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
7A:					
Hubbard loamy sand, 0 to 2 percent slopes	Hubbard	95	Stream terraces	No	---
	Mosford	5	---	No	---
7B:					
Hubbard loamy sand, 2 to 6 percent slopes	Hubbard	90	Hills, Hills, Outwash plains, Stream terraces	No	---
	Mosford	10	---	No	---
7C:					
Hubbard loamy sand, 6 to 12 percent slopes	Hubbard	80	Hills, Hills, Outwash plains, Stream terraces	No	---
	Mosford	10	---	No	---
	Sandberg	10	---	No	---
8B:					
Sparta loamy sand, 1 to 6 percent slopes	Sparta	95	Hills, Hills, Outwash plains, Stream terraces	No	---
	Dickman	3	---	No	---
	Crowfork	2	---	No	---
35:					
Blue Earth mucky silty clay loam, depressional, 0 to 1 percent slopes	Blue Earth, depressional	80	Depressions, Moraines	Yes	2B3
	Mineral soil, drained	10	Rims	Yes	2B3
	Muskego	10	Depressions	Yes	1
74B:					
Dickinson fine sandy loam, 1 to 6 percent slopes	Dickinson	95	Hills, Hills, Outwash plains, Stream terraces	No	---
	Dickman	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
86:					
Canisteo clay loam, moderately fine substratum, 0 to 2 percent slopes	Canisteo	80	Depressions, Flats, Moraines, Rims	Yes	2B3
	Cordova	15	Swales	Yes	2B3
	Glencoe, depressional	5	Depressions	Yes	2B3, 3
106C2:					
Lester loam, 6 to 12 percent slopes, eroded	Lester, eroded	70	Hills, Moraines	No	---
	Angus	15	---	No	---
	Terril	8	---	No	---
	Storden	5	---	No	---
	Hamel	2	Drainageways	Yes	2B3
106D2:					
Lester loam, 12 to 18 percent slopes, eroded	Lester, eroded	80	Hills, Moraines	No	---
	Storden	8	---	No	---
	Angus	5	---	No	---
	Terril	5	---	No	---
	Hamel	2	Drainageways	Yes	2B3
106E:					
Lester loam, 18 to 25 percent slopes	Lester	80	Hills, Moraines	No	---
	Terril	12	---	No	---
	Storden	5	---	No	---
	Hamel	3	Drainageways	Yes	2B3
109:					
Cordova clay loam, 0 to 2 percent slopes	Cordova	90	Drainageways, Moraines	Yes	2B3
	Glencoe, depressional	8	Depressions	Yes	2B3, 3
	Le Sueur	2	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
114:					
Glencoe clay loam, depressional, 0 to 1 percent slopes	Glencoe, depressional	90	Depressions, Moraines	Yes	2B3, 3
	Canisteo	10	Rims	Yes	2B3
138:					
Lerdal silty clay loam, 1 to 3 percent slopes	Lerdal	80	Moraines	No	---
	Mazaska	10	Swales	Yes	2B3
	Cordova	5	Swales	Yes	2B3
	Le Sueur	5	---	No	---
158A:					
Zimmerman fine sand, 0 to 3 percent slopes	Zimmerman	90	Outwash plains	No	---
	Cantlin	5	---	No	---
	Sartell	5	---	No	---
158B:					
Zimmerman fine sand, 3 to 6 percent slopes	Zimmerman	90	Hills, Outwash plains	No	---
	Kost	5	---	No	---
	Sartell	5	---	No	---
158C:					
Zimmerman fine sand, 6 to 12 percent slopes	Zimmerman	90	Hills, Outwash plains	No	---
	Kost	5	---	No	---
	Sartell	5	---	No	---
158E:					
Zimmerman fine sand, 12 to 25 percent slopes	Zimmerman	85	Hills, Outwash plains	No	---
	Cantlin	5	---	No	---
	Lino	5	---	No	---
	Sartell	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
169C:					
Braham loamy fine sand, 6 to 12 percent slopes	Braham	90	Hills, Moraines	No	---
	Nebish	5	---	No	---
	Eckvoll, MAP>25	3	---	No	---
	Wet mineral soil	2	Swales	Yes	2B3
181:					
Litchfield loamy fine sand, 0 to 2 percent slopes	Litchfield	95	Outwash plains	No	---
	Biscay	5	Swales	Yes	2B3
229:					
Waldorf silty clay loam, 0 to 2 percent slopes	Waldorf	90	Flats, Lake plains	Yes	2B3
	Lura, depressional	5	Depressions	Yes	2B3, 3
	Shorewood	5	---	No	---
231C:					
Lester fine sandy loam, 6 to 12 percent slopes	Lester	80	Hills, Moraines	No	---
	Terril	12	---	No	---
	Angus	5	---	No	---
	Hamel	3	Drainageways	Yes	2B3
231D:					
Lester fine sandy loam, 12 to 18 percent slopes	Lester	80	Hills, Moraines	No	---
	Terril	12	---	No	---
	Angus	5	---	No	---
	Hamel	3	Drainageways	Yes	2B3
235:					
Nessel loam, 1 to 3 percent slopes	Nessel	85	Moraines	No	---
	Cordova	10	Swales	Yes	2B3
	Angus	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
239:					
Le Sueur clay loam, 1 to 3 percent slopes	Le Sueur	80	Moraines	No	---
	Cordova	15	Swales	Yes	2B3
	Angus	5	---	No	---
247:					
Linder loam, 0 to 2 percent slopes	Linder	90	Outwash plains	No	---
	Biscay, depressional	5	Depressions	Yes	2B3, 3
	Biscay	5	Swales	Yes	2B3
255:					
Mayer loam, 0 to 2 percent slopes	Mayer	85	Flats, Stream terraces	Yes	2B3
	Biscay, depressional	10	Depressions	Yes	2B3, 3
	Biscay	3	Swales	Yes	2B3
	Linder	2	---	No	---
256:					
Mazaska silty clay loam, 0 to 2 percent slopes	Mazaska	90	Drainageways, Moraines	Yes	2B3
	Lerdal	5	---	No	---
	Shields	5	---	No	---
258B:					
Sandberg loamy sand, 2 to 6 percent slopes	Sandberg	95	Stream terraces	No	---
	Arvilla, MAP>25	5	---	No	---
258C:					
Sandberg loamy sand, 6 to 12 percent slopes	Sandberg	90	Stream terraces	No	---
	Corliss	5	---	No	---
	Southhaven	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
258E:					
Sandberg loamy sand, 12 to 35 percent slopes	Sandberg	85	Stream terraces	No	---
	Southhaven	10	---	No	---
	Isan	5	Swales	Yes	2B3
260:					
Duelm loamy sand, 0 to 2 percent slopes	Duelm	90	Stream terraces	No	---
	Isan	8	Swales	Yes	2B3
	Hubbard	2	Stream terraces	No	---
261:					
Isan sandy loam, depressional, 0 to 1 percent slopes	Isan, depressional	90	Depressions, Stream terraces	Yes	2B3, 3
	Isan	10	Swales	Yes	2B3
286B:					
Shorewood silty clay loam, 3 to 6 percent slopes	Shorewood	95	Lake plains	No	---
	Waldorf	5	Swales	Yes	2B3
294A:					
Rasset sandy loam, 0 to 2 percent slopes	Rasset	90	Stream terraces	No	---
	Dickman	5	---	No	---
	Malardi	5	---	No	---
323:					
Shields silty clay loam, 0 to 3 percent slopes	Shields	95	Moraines	No	---
	Mazaska	3	Swales	Yes	2B3
	Lerdal	2	---	No	---
327A:					
Dickman sandy loam, 0 to 2 percent slopes	Dickman	85	Stream terraces	No	---
	Estherville	10	---	No	---
	Dickinson	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
327B:					
Dickman sandy loam, 2 to 6 percent slopes	Dickman	85	Stream terraces	No	---
	Estherville	10	---	No	---
	Dickinson	5	---	No	---
375:					
Forada loam, 0 to 2 percent slopes	Forada	85	Drainageways, Outwash plains	Yes	2B3
	Forada, depressional	10	Depressions	Yes	2B3, 3
	Oylen	5	---	No	---
392:					
Biscay loam, 0 to 2 percent slopes	Biscay	90	Drainageways, Stream terraces	Yes	2B3
	Biscay, depressional	10	Depressions	Yes	2B3, 3
406:					
Dorset sandy loam, 0 to 2 percent slopes	Dorset	90	Stream terraces	No	---
	Verndale, acid substratum	8	---	No	---
	Almora	2	---	No	---
414:					
Hamel loam, 1 to 3 percent slopes	Hamel	90	Drainageways, Moraines	Yes	2B3
	Glencoe, depressional	5	Depressions	Yes	2B3, 3
	Terril	5	---	No	---
441:					
Almora loam, 0 to 2 percent slopes	Almora	90	Outwash plains	No	---
	Dorset	8	---	No	---
	Southhaven	2	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
461B:					
Koronis loam, 2 to 6 percent slopes	Koronis	85	Moraines	No	---
	Marcellon, MAP<30	10	---	No	---
	Barry	5	Swales	Yes	2B3
461C2:					
Koronis loam, 6 to 12 percent slopes, eroded	Koronis, eroded	80	Moraines	No	---
	Sunburg	10	---	No	---
	Forestcity	5	Swales	Yes	2B3
	Terril, moderately wet	5	---	No	---
461E:					
Koronis loam, 18 to 40 percent slopes	Koronis	80	Moraines	No	---
	Sunburg	10	---	No	---
	Terril, moderately wet	8	---	No	---
	Forestcity	2	Swales	Yes	2B3
511:					
Marcellon loam, map <30, 0 to 3 percent slopes	Marcellon, MAP<30	85	Moraines	No	---
	Barry	10	Swales	Yes	2B3
	Koronis	5	---	No	---
523:					
Houghton muck, depressional, 0 to 1 percent slopes	Houghton, drained	80	Depressions, Moraines	Yes	1
	Klossner, drained	10	Depressions	Yes	1
	Mineral soil, drained	10	Rims	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
525:					
Muskego muck, depressional, 0 to 1 percent slopes	Muskego, surface drained	75	Depressions, Moraines	Yes	1, 3
	Klossner, depressional	10	Depressions	Yes	1, 3
	Mineral soil	10	Rims	Yes	2B3
	Houghton, depressional	5	Depressions	Yes	1, 3
539:					
Klossner muck, depressional, 0 to 1 percent slopes	Klossner, drained	80	Depressions, Moraines	Yes	1
	Houghton, drained	10	Depressions	Yes	1
	Mineral soil, drained	10	Rims	Yes	2B3
540:					
Seelyeville muck, depressional, 0 to 1 percent slopes	Seelyeville, surface drained	80	Depressions, Outwash plains	Yes	1, 3
	Markey, depressional	10	Depressions	Yes	1, 3
	Mineral soil, depressional	10	Depressions	Yes	2B3, 3
543:					
Markey muck, depressional, 0 to 1 percent slopes	Markey, surface drained	80	Depressions, Outwash plains	Yes	1, 3
	Mineral soil, depressional	10	Depressions	Yes	2B3, 3
	Seelyeville, depressional	10	Depressions	Yes	1, 3
548:					
Medo muck, depressional, 0 to 1 percent slopes	Medo, drained	80	Depressions, Outwash plains	Yes	1
	Houghton, drained	10	Depressions	Yes	1
	Mineral soil, drained	10	Rims	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
603:					
Hanlon fine sandy loam, 0 to 2 percent slopes, occasionally flooded	Hanlon, occasionally flooded	80	Flood plains	No	---
	Suckercreek, occasionally flooded	10	Flood plains	Yes	2B3
	Suckercreek, frequently flooded	10	Flood plains	Yes	2B3, 4
611D:					
Hawick gravelly sandy loam, 12 to 25 percent slopes	Hawick	85	Outwash plains	No	---
	Estherville	10	---	No	---
	Tomall	5	---	No	---
708:					
Rushlake coarse sand, 1 to 4 percent slopes	Rushlake	85	Beaches	No	---
	Isan	13	Swales	Yes	2B3
	Hubbard	2	---	No	---
740:					
Hamel-Glencoe, depressional, complex, 0 to 3 percent slopes	Hamel	70	Drainageways, Moraines	Yes	2B3
	Glencoe, depressional	20	Depressions, Moraines	Yes	2B3, 3
	Canisteo	5	Rims	Yes	2B3
	Terril, moderately wet	5	---	No	---
768:					
Mosford sandy loam, 0 to 2 percent slopes	Mosford	85	Stream terraces	No	---
	Hubbard	10	---	No	---
	Arvilla, MAP>25	5	---	No	---
771:					
Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded	Elkriver, rarely flooded	85	Flood plains	No	---
	Mosford, rarely flooded	10	---	No	---
	Elkriver, occasionally flooded	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
783C2:					
Lester-Kilkenny complex, 6 to 12 percent slopes, eroded	Lester, eroded	50	Moraines	No	---
	Kilkenny, eroded	30	Moraines	No	---
	Storden	10	---	No	---
	Hamel	5	Drainageways	Yes	2B3
	Terril, moderately wet	5	---	No	---
792:					
Fordum fine sandy loam, 0 to 2 percent slopes, frequently flooded	Fordum, frequently flooded	90	Alluvial flats, Flood plains	Yes	2B3, 4
	Fordum, occasionally flooded	5	Flood plains	Yes	2B3
	Winterfield, occasionally flooded	5	---	No	---
799:					
Seelyeville and Bowstring soils, 0 to 1 percent slopes, frequently flooded	Bowstring, frequently flooded	45	Flats, Flood plains	Yes	1, 4
	Seelyeville, frequently flooded	45	Flats, Flood plains	Yes	1, 4
	Fordum, occasionally flooded	5	Flood plains	Yes	2B3
	Fordum, frequently flooded	5	Flood plains	Yes	2B3, 4
804B:					
Koronis-Sunburg-Hawick complex, 2 to 6 percent slopes	Koronis	50	Moraines	No	---
	Sunburg	20	Moraines	No	---
	Hawick	15	Moraines	No	---
	Marcellon, MAP<30	10	---	No	---
	Barry	5	Swales	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
804C2:					
Koronis-Sunburg-Hawick complex, 6 to 12 percent slopes, eroded	Koronis, eroded	45	Moraines	No	---
	Sunburg	25	Moraines	No	---
	Hawick	15	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Forestcity	5	Swales	Yes	2B3
804D2:					
Koronis-Sunburg-Hawick complex, 12 to 18 percent slopes, eroded	Koronis, eroded	40	Moraines	No	---
	Sunburg	30	Moraines	No	---
	Hawick	15	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Forestcity	5	Swales	Yes	2B3
804E:					
Koronis-Sunburg-Hawick complex, 18 to 40 percent slopes	Koronis	50	Moraines	No	---
	Sunburg	20	Moraines	No	---
	Hawick	15	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Forestcity	5	Swales	Yes	2B3
807D2:					
Koronis-Sunburg complex, 12 to 18 percent slopes, eroded	Koronis, eroded	65	Moraines	No	---
	Sunburg	20	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Forestcity	5	Swales	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
875B:					
Estherville-Hawick complex, 2 to 6 percent slopes	Estherville	60	Stream terraces	No	---
	Hawick	30	Stream terraces	No	---
	Dickman	10	---	No	---
875C:					
Hawick-Estherville complex, 6 to 12 percent slopes	Hawick	60	Outwash plains	No	---
	Estherville	25	Outwash plains	No	---
	Dickman	10	---	No	---
	Wadena	5	---	No	---
896B:					
Kingsley-Gotham complex, 2 to 6 percent slopes	Kingsley	70	Moraines	No	---
	Gotham	25	Moraines	No	---
	Grays	5	---	No	---
896C:					
Kingsley-Gotham complex, 6 to 12 percent slopes	Kingsley	70	Moraines	No	---
	Gotham	25	Moraines	No	---
	Grays	5	---	No	---
945C2:					
Lester-Storden complex, 6 to 12 percent slopes, eroded	Lester, eroded	50	Moraines	No	---
	Storden, eroded	30	Moraines	No	---
	Angus	10	---	No	---
	Hamel	5	Drainageways	Yes	2B3
	Terril, moderately wet	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
945D2:					
Lester-Storden complex, 12 to 18 percent slopes, eroded	Lester, eroded	60	Moraines	No	---
	Storden, eroded	20	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Angus	5	---	No	---
	Hamel	5	Drainageways	Yes	2B3
956:					
Canisteo-Glencoe, depressional, complex, 0 to 2 percent slopes	Canisteo	65	Flats, Moraines	Yes	2B3
	Glencoe, depressional	25	Depressions, Moraines	Yes	2B3, 3
	Cordova	10	Swales	Yes	2B3
978:					
Cordova-Rolfe, depressional, complex, 0 to 2 percent slopes	Cordova	60	Drainageways, Moraines	Yes	2B3
	Rolfe, depressional	30	Depressions, Moraines	Yes	2B3
	Le Sueur	10	---	No	---
1000:					
Arvilla sandy loam, map >25, 0 to 2 percent slopes	Arvilla, MAP>25	90	Stream terraces	No	---
	Mosford	8	---	No	---
	Sandberg	2	---	No	---
1015:					
Udipsamments (cut and fill land)	Udipsamments, (cut and fill land)	100	Stream terraces		---
1016:					
Udorthents, loamy (cut and fill land)	Udorthents, loamy (cut and fill land)	100	Moraines		---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1023C:					
Lester-Malardi complex, 6 to 12 percent slopes, eroded	Lester, eroded	50	Moraines	No	---
	Malardi	35	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Hamel	5	Drainageways	Yes	2B3
1023D:					
Lester-Malardi complex, 12 to 18 percent slopes, eroded	Lester, eroded	45	Moraines	No	---
	Malardi	40	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Hamel	5	Drainageways	Yes	2B3
1026B:					
Lizzie silt loam, moderately wet, 1 to 5 percent slopes	Lizzie, moderately wet	90	Moraines	No	---
	Lida	8	---	No	---
	Lindaas, morainic	2	Swales	Yes	2B3
1027:					
Udorthents, wet substratum (fill land)	Udorthents, wet substratum (fill land)	100	Moraines		---
1030:					
Pits, gravel-Udipsamments complex	Pits, gravel	80	Outwash plains		---
	Udipsamments	20	Outwash plains		---
1035B:					
Crowfork loamy sand, 1 to 6 percent slopes	Crowfork	90	Stream terraces	No	---
	Eden Prairie	5	---	No	---
	Sparta	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1035C:					
Crowfork loamy sand, 6 to 12 percent slopes	Crowfork	90	Stream terraces	No	---
	Eden Prairie	5	---	No	---
	Sparta	5	---	No	---
1035D:					
Crowfork loamy sand, 12 to 18 percent slopes	Crowfork	85	Stream terraces	No	---
	Eden Prairie	10	---	No	---
	Sparta	5	---	No	---
1036B:					
Angus fine sandy loam, 2 to 5 percent slopes	Angus	85	Moraines	No	---
	Le Sueur	10	---	No	---
	Cordova	5	Swales	Yes	2B3
1037:					
Eckvoll loamy fine sand, map >25, 0 to 3 percent slopes	Eckvoll, MAP>25	90	Moraines	No	---
	Beltrami	7	---	No	---
	Talmoon	3	Swales	Yes	2B3
1038A:					
Verndale sandy loam, acid substratum, 0 to 2 percent slopes	Verndale, acid substratum	90	Stream terraces	No	---
	Dorset	7	---	No	---
	Hubbard	3	---	No	---
1038B:					
Verndale sandy loam, acid substratum, 2 to 6 percent slopes	Verndale, acid substratum	85	Stream terraces	No	---
	Dorset	10	---	No	---
	Hubbard	5	---	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1066B:					
Malardi-Hawick complex, 1 to 6 percent slopes	Malardi	65	Stream terraces	No	---
	Hawick	25	Stream terraces	No	---
	Eden Prairie	5	---	No	---
	Rasset	5	---	No	---
1066C:					
Malardi-Hawick complex, 6 to 12 percent slopes	Malardi	60	Stream terraces	No	---
	Hawick	25	Stream terraces	No	---
	Tomall	10	---	No	---
	Crowfork	5	---	No	---
1066E:					
Malardi-Hawick complex, 18 to 35 percent slopes	Malardi	55	Stream terraces	No	---
	Hawick	30	Stream terraces	No	---
	Tomall	15	---	No	---
1072:					
Udorthents, shallow (sanitary landfill)	Udorthents, shallow (sanitary landfill)	100	Moraines		---
1075:					
Klossner and Muskego soils, ponded, 0 to 1 percent slopes	Klossner, ponded	40	Marshes, Moraines	Yes	1, 3
	Muskego, ponded	40	Marshes, Moraines	Yes	1, 3
	Houghton, ponded	10	Depressions	Yes	1, 3
	Mineral soil, ponded	10	Depressions	Yes	2B3, 3
1080:					
Klossner, Okoboji, and Glencoe soils, ponded, 0 to 1 percent slopes	Glencoe, ponded	30	Marshes, Moraines	Yes	2B3, 3
	Klossner, ponded	30	Marshes, Moraines	Yes	1, 3
	Okoboji, ponded	30	Marshes, Moraines	Yes	2B3, 3
	Houghton, ponded	10	Depressions	Yes	1, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1087B:					
Angus-Malardi complex, 2 to 6 percent slopes	Angus	55	Moraines	No	---
	Malardi	30	Moraines	No	---
	Le Sueur	10	---	No	---
	Cordova	5	Swales	Yes	2B3
1094B:					
Angus-Cordova complex, 0 to 5 percent slopes	Angus	60	Moraines	No	---
	Cordova	30	Drainageways, Moraines	Yes	2B3
	Glencoe, depressional	5	Depressions	Yes	2B3, 3
	Le Sueur	5	---	No	---
1099:					
Granby loamy fine sand, very wet, 0 to 1 percent slopes	Granby, very wet	85	Beaches, Moraines	Yes	2B2, 3
	Belleville	10	Swales	Yes	2B3
	Medo, depressional	5	Depressions	Yes	1, 3
1110:					
Isan sandy loam, 0 to 2 percent slopes	Isan	90	Drainageways, Outwash plains	Yes	2B3
	Isan, depressional	10	Depressions	Yes	2B3, 3
1156:					
Cordova loam, 0 to 2 percent slopes	Cordova	85	Drainageways, Moraines	Yes	2B3
	Glencoe, depressional	10	Depressions	Yes	2B3, 3
	Nessel	5	---	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1163:					
Suckercreek loam, 0 to 2 percent slopes, frequently flooded	Suckercreek, frequently flooded	85	Alluvial flats, Flood plains	Yes	2B3, 4
	Suckercreek, occasionally flooded	10	Flood plains	Yes	2B3
	Hanlon, occasionally flooded	5	---	No	---
1165:					
Lundlake silty clay loam, depressional, 0 to 1 percent slopes	Lundlake, depressional	90	Depressions, Moraines	Yes	2B3
	Forestcity	10	Swales	Yes	2B3
1173:					
Muskego and Klossner soils, 0 to 1 percent slopes, frequently flooded	Klossner, frequently flooded	45	Flats, Flood plains	Yes	1, 3, 4
	Muskego, frequently flooded	45	Flats, Flood plains	Yes	1, 3, 4
	Suckercreek, frequently flooded	10	Flood plains	Yes	2B3, 4
1186:					
Forestcity-Lundlake, depressional, complex, 0 to 3 percent slopes	Forestcity	75	Drainageways, Moraines	Yes	2B3
	Lundlake, depressional	20	Depressions, Moraines	Yes	2B3
	Marcellon, MAP<30	5	---	No	---
1196B:					
Lida-Two Inlets complex, 1 to 8 percent slopes	Lida	60	Outwash plains	No	---
	Two Inlets	30	Outwash plains	No	---
	Almora	5	---	No	---
	Southhaven	5	---	No	---
1196C:					
Lida-Two Inlets complex, 8 to 15 percent slopes	Lida	55	Outwash plains	No	---
	Two Inlets	30	Outwash plains	No	---
	Southhaven	10	---	No	---
	Almora	5	---	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1196E:					
Lida-Two Inlets complex, 15 to 30 percent slopes	Lida	50	Outwash plains	No	---
	Two Inlets	40	Outwash plains	No	---
	Almora	5	---	No	---
	Southhaven	5	---	No	---
1197:					
Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded	Suckercreek, occasionally flooded	80	Alluvial flats, Flood plains	Yes	2B3
	Hanlon, occasionally flooded	10	---	No	---
	Suckercreek, frequently flooded	10	Flood plains	Yes	2B3, 4
1199:					
Klossner and Lundlake soils, ponded, 0 to 1 percent slopes	Klossner, ponded	45	Marshes, Moraines	Yes	1, 3
	Lundlake, ponded	45	Marshes, Moraines	Yes	2B3, 3
	Thin muck surface, ponded	10	Depressions	Yes	2B3, 3
1203:					
Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes	Blue Earth, ponded	30	Marshes, Moraines	Yes	2B3, 3
	Houghton, ponded	30	Marshes, Moraines	Yes	1, 3
	Muskego, ponded	30	Marshes, Moraines	Yes	1, 3
	Klossner, ponded	10	Depressions	Yes	1, 3
1204B:					
Reedslake loam, 2 to 5 percent slopes	Reedslake	85	Moraines	No	---
	Le Sueur	10	---	No	---
	Cokato	5	---	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1207B:					
Reedslake-Le Sueur complex, 1 to 5 percent slopes	Reedslake	60	Moraines	No	---
	Le Sueur	25	Moraines	No	---
	Cordova	12	Swales	Yes	2B3
	Cokato	3	---	No	---
1213C:					
Cokato-Storden complex, 6 to 12 percent slopes, eroded	Cokato, eroded	65	Moraines	No	---
	Storden	20	Moraines	No	---
	Terril, moderately wet	8	---	No	---
	Reedslake	4	---	No	---
	Hamel	3	Drainageways	Yes	2B3
1213D:					
Cokato-Storden complex, 12 to 18 percent slopes, eroded	Cokato, eroded	60	Moraines	No	---
	Storden	25	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Hamel	3	Drainageways	Yes	2B3
	Reedslake	2	---	No	---
1220C:					
Cokato-Storden-Hawick complex, 6 to 12 percent slopes, eroded	Cokato, eroded	50	Moraines	No	---
	Storden	20	Moraines	No	---
	Hawick	15	Moraines	No	---
	Terril, moderately wet	10	---	No	---
	Hamel	5	Drainageways	Yes	2B3

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1223:					
Sandberg-Arvilla complex, map >25, 0 to 3 percent slopes	Sandberg, MAP>25	60	Stream terraces	No	---
	Arvilla, MAP>25	30	Stream terraces	No	---
	Hubbard	10	---	No	---
1224:					
Hubbard-Verndale, acid substratum, complex, 0 to 3 percent slopes	Hubbard	60	Stream terraces	No	---
	Verndale, acid substratum	30	Stream terraces	No	---
	Arvilla, MAP>25	5	---	No	---
	Mosford	5	---	No	---
1231:					
Hubbard-Mosford complex, 0 to 3 percent slopes	Hubbard	60	Stream terraces	No	---
	Mosford	30	Stream terraces	No	---
	Arvilla, MAP>25	5	---	No	---
	Verndale, acid substratum	5	---	No	---
1255:					
Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded	Elkriver, occasionally flooded	80	Flood plains	No	---
	Fordum, frequently flooded	15	Flood plains	Yes	2B3, 4
	Winterfield, occasionally flooded	5	---	No	---
1256:					
Cantlin loamy fine sand, 0 to 3 percent slopes	Cantlin	90	Outwash plains	No	---
	Lino	7	---	No	---
	Zimmerman	3	---	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1257:					
Elkriver-Mosford complex, 0 to 6 percent slopes, rarely flooded	Elkriver, rarely flooded	55	Flood plains	No	---
	Mosford, rarely flooded	35	Flood plains	No	---
	Fordum, frequently flooded	7	Flood plains	Yes	2B3, 4
	Winterfield, occasionally flooded	3	---	No	---
1260B:					
Stonelake-Nebish, moderately wet, complex, 2 to 6 percent slopes	Stonelake	55	Moraines	No	---
	Nebish, moderately wet	30	Moraines	No	---
	Beltrami	7	---	No	---
	Talmoon	5	Swales	Yes	2B3
	Braham	3	---	No	---
1260C:					
Stonelake-Nebish complex, 6 to 12 percent slopes	Stonelake	55	Moraines	No	---
	Nebish	30	Moraines	No	---
	Beltrami	7	---	No	---
	Talmoon	5	Swales	Yes	2B3
	Braham	3	---	No	---
1260E:					
Stonelake-Nebish complex, 12 to 25 percent slopes	Stonelake	60	Moraines	No	---
	Nebish	25	Moraines	No	---
	Beltrami	7	---	No	---
	Bluffton	5	Depressions	Yes	2B3, 3
	Braham	3	---	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1288:					
Seelyeville and Markey soils, ponded, 0 to 1 percent slopes	Markey, ponded	45	Marshes, Outwash plains	Yes	1, 3
	Seelyeville, ponded	45	Marshes, Outwash plains	Yes	1, 3
	Mineral soil, ponded	10	Depressions	Yes	2B3, 3
1356:					
Water, miscellaneous	Water, miscellaneous	100	---		---
1362B:					
Angus loam, 2 to 5 percent slopes	Angus	85	Moraines	No	---
	Le Sueur	10	---	No	---
	Cordova	5	Swales	Yes	2B3
1368:					
Southhaven loam, 0 to 2 percent slopes	Southhaven	90	Outwash plains	No	---
	Mosford	7	---	No	---
	Dorset	3	---	No	---
1377B:					
Dorset-Two Inlets complex, 2 to 6 percent slopes	Dorset	70	Stream terraces	No	---
	Two Inlets	20	Stream terraces	No	---
	Southhaven	5	---	No	---
	Verndale, acid substratum	5	---	No	---
1377C:					
Dorset-Two Inlets complex, 6 to 12 percent slopes	Dorset	50	Stream terraces	No	---
	Two Inlets	35	Stream terraces	No	---
	Southhaven	10	---	No	---
	Verndale, acid substratum	5	---	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1377D:					
Dorset-Two Inlets complex, 12 to 20 percent slopes	Dorset	45	Stream terraces	No	---
	Two Inlets	40	Stream terraces	No	---
	Southhaven	10	---	No	---
	Verndale, acid substratum	5	---	No	---
1377E:					
Dorset-Two Inlets complex, 20 to 35 percent slopes	Dorset	45	Stream terraces	No	---
	Two Inlets	45	Stream terraces	No	---
	Southhaven	5	---	No	---
	Verndale, acid substratum	5	---	No	---
1378:					
Fordum loam, 0 to 2 percent slopes, occasionally flooded	Fordum, occasionally flooded	85	Alluvial flats, Flood plains	Yes	2B3
	Fordum, frequently flooded	10	Flood plains	Yes	2B3, 4
	Elkriver, occasionally flooded	5	---	No	---
1379B:					
Dorset-Almora complex, 1 to 4 percent slopes	Dorset	65	Stream terraces	No	---
	Almora	25	Stream terraces	No	---
	Southhaven	5	---	No	---
	Verndale, acid substratum	5	---	No	---
1380A:					
Bygland silt loam, map >25, 0 to 2 percent slopes	Bygland, MAP>25	85	Lake plains	No	---
	Lindaas, sandy substratum	10	Swales	Yes	2B3
	Lindaas, morainic	5	Swales	Yes	2B3

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1380B:					
Bygland silt loam, map >25, 2 to 6 percent slopes	Bygland, MAP>25	70	Lake plains	No	---
	Lindaas, sandy substratum	15	Swales	Yes	2B3
	Lindaas, morainic	10	Swales	Yes	2B3
	Depressional soil	5	Depressions	Yes	2B3, 3
1380C:					
Bygland silt loam, map >25, 6 to 12 percent slopes, eroded	Bygland, MAP>25	70	Lake plains	No	---
	Lindaas, sandy substratum	15	Swales	Yes	2B3
	Lindaas, morainic	10	Swales	Yes	2B3
	Depressional soil	5	Depressions	Yes	2B3, 3
1381:					
Lindaas silt loam, morainic, 0 to 2 percent slopes	Lindaas, morainic	80	Flats, Lake plains	Yes	2B3
	Depressional soil	10	Depressions	Yes	2B3, 3
	Lindaas, sandy substratum	10	Swales	Yes	2B3
1383A:					
Shorewood silty clay loam, moderately wet, 0 to 3 percent slopes	Shorewood, moderately wet	95	Lake plains	No	---
	Waldorf	5	Swales	Yes	2B3
1388B:					
Terril loam, moderately wet, 2 to 6 percent slopes	Terril, moderately wet	85	Moraines	No	---
	Hamel	12	Drainageways	Yes	2B3
	Glencoe, depressional	3	Depressions	Yes	2B3, 3

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1406:					
Medo, Dassel, and Biscay soils, ponded, 0 to 1 percent slopes	Biscay, ponded	30	Marshes, Stream terraces	Yes	2B3, 3
	Dassel, ponded	30	Marshes, Stream terraces	Yes	2B3, 3
	Medo, ponded	30	Marshes, Stream terraces	Yes	1, 3
	Houghton, ponded	5	Depressions	Yes	1, 3
	Muskego, ponded	5	Depressions	Yes	1, 3
1408B:					
Angus-Kilkenny complex, 2 to 6 percent slopes	Angus	45	Moraines	No	---
	Kilkenny	40	Moraines	No	---
	Lerdal	10	---	No	---
	Mazaska	5	Swales	Yes	2B3
1438B:					
Braham loamy fine sand, moderately wet, 2 to 5 percent slopes	Braham, moderately wet	85	Moraines	No	---
	Eckvoll, MAP>25	7	---	No	---
	Talmoon	5	Swales	Yes	2B3
	Nebish	3	---	No	---
1443:					
Belleville sandy loam, 0 to 2 percent slopes	Belleville	85	Beaches, Moraines	Yes	2B3
	Sandy substratum	10	Swales	Yes	2B3
	Sandy surface layer	5	Swales	Yes	2B2
1901B:					
Angus-Le Sueur complex, 1 to 5 percent slopes	Angus	60	Moraines	No	---
	Le Sueur	30	Moraines	No	---
	Cordova	10	Swales	Yes	2B3

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1931:					
Essexville sandy loam, 0 to 2 percent slopes	Essexville	75	Beaches, Moraines	Yes	2B3
	Belleville	15	Swales	Yes	2B3
	Sandy substratum	10	Swales	Yes	2B2
1942:					
Forada mucky loam, depressional, 0 to 1 percent slopes	Forada, depressional	85	Depressions, Outwash plains	Yes	2B3, 3
	Forada	10	Rims	Yes	2B3
	Thin organic layer	5	Depressions	Yes	2B3, 3
1946:					
Fordum-Winterfield complex, 0 to 2 percent slopes, frequently flooded	Fordum, frequently flooded	70	Alluvial flats, Flood plains	Yes	2B3, 4
	Winterfield, frequently flooded	20	Flood plains	No	---
	Fordum, occasionally flooded	10	Flood plains	Yes	2B3
1975:					
Oylen sandy loam, 0 to 2 percent slopes	Oylen	90	Stream terraces	No	---
	Forada	10	Swales	Yes	2B3
L307B:					
Koronis loam, 2 to 6 percent slopes	Koronis	80	Moraines	No	---
	Marcellon	10	Moraines	No	---
	Barry	5	Moraines	Yes	2B3
	Sunburg	5	Moraines	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
L307C2:					
Koronis loam, 6 to 12 percent slopes, moderately eroded	Koronis, moderately eroded	75	Moraines	No	---
	Sunburg	10	Moraines	No	---
	Forestcity	5	Moraines	Yes	2B3
	Marcellon	5	Moraines	No	---
	Terril	5	Moraines	No	---
L317A:					
Barry loam, 0 to 2 percent slopes	Barry	85	Moraines	Yes	2B3
	Marcellon	10	Moraines	No	---
	Lundlake	5	Depressions, Moraines	Yes	2B3, 3
L318A:					
Lundlake silty clay loam, 0 to 1 percent slopes	Lundlake	85	Depressions, Moraines	Yes	2B3, 3
	Histic Endoaquolls	5	Depressions, Moraines	Yes	2B3, 3
	Swedegrove	5	Moraines	Yes	2B3
	Uniongrove	5	Moraines	Yes	2B3
L320A:					
Muskego and Klossner soils, lundlake catena, 0 to 1 percent slopes, frequently flooded	Klossner, frequently flooded	45	Flood plains	Yes	1, 3, 4
	Muskego, frequently flooded	45	Flood plains	Yes	1, 3, 4
	Suckercreek, frequently flooded	10	Flood plains	Yes	2B3, 4
L324A:					
Forestcity, overwash-Forestcity complex, 1 to 4 percent slopes	Forestcity, overwash	45	Moraines	No	---
	Forestcity	40	Moraines	Yes	2B3
	Lundlake	10	Depressions, Moraines	Yes	2B3, 3
	Marcellon	5	Moraines	No	---

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
L330A:					
Muskego, Blue Earth and Houghton soils, lundlake catena, 0 to 1 percent slopes, ponded	Blue Earth, ponded	30	Depressions, Moraines	Yes	2B3, 3
	Houghton, ponded	30	Depressions, Moraines	Yes	1, 3
	Muskego, ponded	30	Depressions, Moraines	Yes	1, 3
	Klossner, lundlake catena, ponded	10	Depressions, Moraines	Yes	1, 3
L331A:					
Klossner muck, lundlake catena, 0 to 1 percent slopes	Klossner, drained, lundlake catena	80	Depressions, Moraines	Yes	1, 3
	Lundlake	15	Depressions, Moraines	Yes	2B3, 3
	Houghton, drained	5	Depressions, Moraines	Yes	1, 3
L334A:					
Houghton and Muskego soils, lundlake catena, 0 to 1 percent slopes	Houghton, surface drained	40	Depressions, Moraines	Yes	1, 3
	Muskego, surface drained	40	Depressions, Moraines	Yes	1, 3
	Klossner, drained lundlake catena	10	Depressions, Moraines	Yes	1, 3
	Lundlake	10	Depressions, Moraines	Yes	2B3, 3
L335A:					
Klossner soils, lundlake catena, 0 to 1 percent slopes	Klossner, surface drained, lundlake catena	65	Depressions, Moraines	Yes	1, 3
	Klossner, drained, lundlake catena	20	Depressions, Moraines	Yes	1, 3
	Lundlake	15	Depressions, Moraines	Yes	2B3, 3
L347A:					
Klossner and Lundlake soils, 0 to 1 percent slopes, ponded	Klossner, lundlake catena, ponded	50	Depressions, Moraines	Yes	1, 3
	Lundlake, ponded	45	Depressions, Moraines	Yes	2B3, 3
	Houghton, ponded	5	Depressions, Moraines	Yes	1, 3

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
L350A:					
Marcellon loam, 0 to 3 percent slopes	Marcellon	85	Moraines	No	---
	Barry	8	Moraines	Yes	2B3
	Koronis	5	Moraines	No	---
	Lundlake	2	Depressions, Moraines	Yes	2B3, 3
L351A:					
Houghton muck, lundlake catena, 0 to 1 percent slopes	Houghton, drained	80	Depressions, Moraines	Yes	1, 3
	Klossner, drained, lundlake catena	10	Depressions, Moraines	Yes	1, 3
	Lundlake	10	Depressions, Moraines	Yes	2B3, 3
L355B:					
Koronis-Sunburg-Hawick complex, 2 to 6 percent slopes	Koronis	50	Moraines	No	---
	Sunburg	20	Moraines	No	---
	Hawick	15	Moraines	No	---
	Marcellon	10	Moraines	No	---
	Barry	5	Moraines	Yes	2B3
L355C2:					
Koronis-Sunburg-Hawick complex, 6 to 12 percent slopes, moderately eroded	Koronis, moderately eroded	45	Moraines	No	---
	Sunburg, moderately eroded	25	Moraines	No	---
	Hawick	15	Moraines	No	---
	Terril	10	Moraines	No	---
	Forestcity	5	Moraines	Yes	2B3

Hydric Soils

Wright County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
L355D2:					
Koronis-Sunburg-Hawick complex, 12 to 18 percent slopes, moderately eroded	Koronis, moderately eroded	40	Moraines	No	---
	Sunburg, moderately eroded	30	Moraines	No	---
	Hawick	15	Moraines	No	---
	Ridgeton	10	Moraines	No	---
	Forestcity, overwash	5	Moraines	No	---
L355E:					
Koronis-Sunburg-Hawick complex, 18 to 40 percent slopes	Koronis	50	Moraines	No	---
	Sunburg	20	Moraines	No	---
	Hawick	15	Moraines	No	---
	Ridgeton	10	Moraines	No	---
	Forestcity, overwash	5	Moraines	No	---
L356D2:					
Sunburg-Wadenill complex, 12 to 18 percent slopes, moderately eroded	Sunburg, moderately eroded	70	Moraines	No	---
	Wadenill, moderately eroded	20	Moraines	No	---
	Arctander, overwash	5	Moraines	No	---
	Ridgeton	5	Moraines	No	---
W:					
Water	Water	100	---		---

Hydric Soils

This table lists the map unit components that are rated as hydric soils in the survey area. 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, 2002).

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 all 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, under natural conditions, 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, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2003) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time 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 are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 2002).

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

The criteria for hydric soils are represented by codes in the table (for example, 2B3). Definitions for the codes are as follows:

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.

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