Hydric Soils

Blue Earth 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
17:					
Minneopa sandy loam, 0 to 3 percent slopes	Minneopa	90	Terraces	No	---
	Alluvial land	5	Flood plains	Yes	2B3
	Comfrey	5	Flood plains	Yes	2B3
18:					
Comfrey clay loam	Comfrey, occasionally flooded	90	Flood plains	Yes	2B3
	Calco	5	Flood plains	Yes	2B3
	Chaska	5	Flood plains	Yes	2B3
27:					
Dickinson fine sandy loam, 0 to 2 percent slopes	Dickinson	90	Outwash deltas	No	---
	Wadena	5	Outwash deltas	No	---
	Darfur	3	Drainageways	Yes	2B3
	Litchfield	2	Outwash deltas	No	---
27B:					
Dickinson fine sandy loam, 2 to 6 percent slopes	Dickinson	90	Outwash deltas	No	---
	Wadena	5	Outwash deltas	No	---
	Darfur	3	Drainageways	Yes	2B3
	Litchfield	2	Outwash deltas	No	---
35:					
Blue Earth mucky silt loam	Blue Earth	85	Depressions, Relict lakebeds	Yes	2B3, 3
	Canisteo	10	Rims	Yes	2B3
	Glencoe	5	Depressions	Yes	2B3, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
39:					
Wadena loam, 0 to 2 percent slopes	Wadena	90	Terraces	No	---
	Darfur	5	Drainageways	Yes	2B3
	Estherville	5	Terraces	No	---
39B:					
Wadena loam, 2 to 6 percent slopes	Wadena	90	Terraces	No	---
	Darfur	5	Drainageways	Yes	2B3
	Estherville	5	Terraces	No	---
41:					
Estherville sandy loam, 0 to 2 percent slopes	Estherville	90	Terraces	No	---
	Wadena	5	Terraces	No	---
	Darfur	3	Flats	Yes	2B3
	Dickenson	2	Terraces	No	---
41B:					
Estherville sandy loam, 2 to 6 percent slopes	Estherville	90	Terraces	No	---
	Wadena	5	Terraces	No	---
	Darfur	3	Terraces	Yes	2B3
	Dickenson	2	Terraces	No	---
62:					
Barrington silt loam, 1 to 3 percent slopes	Barrington	90	Lake plains, Rises	No	---
	Grays	5	Lake plains	No	---
	Madelia	5	Flats	Yes	2B3
69:					
Fedji loamy fine sand, 1 to 3 percent slopes	Fedji	90	Outwash plains	No	---
	Darfur	5	Drainageways	Yes	2B3
	Litchfield	5	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
69B:					
Fedji loamy fine sand, 3 to 8 percent slopes	Fedji	90	Outwash plains	No	---
	Dickinson	5	Deltas	No	---
	Litchfield	3	Deltas	No	---
	Darfur	2	Drainageways	Yes	2B3
84:					
Brownton silty clay loam	Brownton	90	Depressions, Flats, Moraines, Rims	Yes	2B3
	Marna	5	Lake plains	Yes	2B3
	Lura	3	Depressions	Yes	2B3, 3
	Guckeen	2	Lake plains	No	---
85:					
Calco silty clay loam	Calco, occasionally flooded	90	Flood plains	Yes	2B3
	Comfrey	10	Flood plains	Yes	2B3
86:					
Canisteo silty clay loam	Canisteo	90	Depressions, Flats, Moraines, Rims	Yes	2B3
	Glencoe	5	Depressions	Yes	2B3, 3
	Webster	3	Flats	Yes	2B3
	Nicollet	2	Rises	No	---
94:					
Terril loam, 0 to 2 percent slopes	Terril	90	Hills, Moraines	No	---
	Hamel	4	Drainageways	Yes	2B3
	Le Sueur	2	Rises	No	---
	Nicollet	2	Rises	No	---
	Webster	2	Drainageways	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
94B:					
Terril loam, 2 to 6 percent slopes	Terril	90	Hills, Moraines	No	---
	Hamel	4	Drainageways	Yes	2B3
	Le Sueur	2	Rises	No	---
	Nicollet	2	Rises	No	---
	Webster	2	Drainageways	Yes	2B3
94C:					
Terril loam, 6 to 15 percent slopes	Terril	90	Hills, Moraines	No	---
	Hamel	5	Drainageways	Yes	2B3
	Le Sueur	2	Rises	No	---
	Webster	2	Drainageways	Yes	2B3
	Nicollet	1	Rises	No	---
96:					
Collinwood silty clay loam, 1 to 3 percent slopes	Collinwood	90	Lake plains, Rises	No	---
	Lura	5	Depressions	Yes	2B3, 3
	Barbert	3	Depressions	Yes	2B3, 3
	Waldorf	2	Lake plains	Yes	2B3
96B:					
Collinwood silty clay loam, 2 to 6 percent slopes	Collinwood	90	Hills, Lake plains	No	---
	Waldorf	10	Lake plains	Yes	2B3
96C:					
Collinwood silty clay loam, 6 to 12 percent slopes	Collinwood	90	Hills, Lake plains	No	---
	Waldorf	10	Lake plains	Yes	2B3
100:					
Copaston loam, 1 to 4 percent slopes	Copaston	90	Terraces	No	---
	Joliet	10	Swales	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
101B:					
Truman silt loam, 2 to 6 percent slopes	Truman	90	Hills, Lake plains	No	---
	Kingston	5	Lake plains	No	---
	Madelia	5	Drainageways	Yes	2B3
101C:					
Truman silt loam, 6 to 12 percent slopes	Truman	90	Hills, Lake plains	No	---
	Kingston	5	Lake plains	No	---
	Madelia	5	Drainageways	Yes	2B3
102B:					
Clarion loam, 2 to 6 percent slopes	Clarion	90	Hills, Moraines	No	---
	Nicollet	4	Moraines	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Webster	3	Drainageways	Yes	2B3
102C:					
Clarion loam, 6 to 12 percent slopes	Clarion	90	Hills, Moraines	No	---
	Nicollet	4	Moraines	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Webster	3	Drainageways	Yes	2B3
102D:					
Clarion loam, 12 to 18 percent slopes	Clarion	90	Hills, Moraines	No	---
	Nicollet	3	Flats	No	---
	Webster	3	Drainageways	Yes	2B3
	Glencoe	2	Depressions	Yes	2B3
	Terril	2	Till plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
105B:					
Kamrar silty clay, 2 to 6 percent slopes	Kamrar	90	Hills, Moraines	No	---
	Guckeen	5	Moraines	No	---
	Marna	5	Drainageways	Yes	2B3
106B:					
Lester loam, 2 to 6 percent slopes	Lester	90	Hills, Moraines	No	---
	Cordova	5	Drainageways	Yes	2B3
	Le Sueur	5	Moraines	No	---
106C:					
Lester loam, 6 to 12 percent slopes	Lester	90	Hills, Moraines	No	---
	Hamel	4	Drainageways	Yes	2B3
	Cordova	3	Drainageways	Yes	2B3
	Le Sueur	3	Moraines	No	---
106D:					
Lester loam, 12 to 18 percent slopes	Lester	90	Hills, Moraines	No	---
	Hamel	4	Drainageways	Yes	2B3
	Cordova	3	Drainageways	Yes	2B3
	Le Sueur	3	Moraines	No	---
106E:					
Lester loam, 18 to 24 percent slopes	Lester	90	Hills, Moraines	No	---
	Storden	4	Moraines	No	---
	Hamel	3	Drainageways	Yes	2B3
	Terril	3	Drainageways	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
109:					
Cordova clay loam	Cordova	90	Flats, Moraines	Yes	2B3
	Glencoe	5	Depressions	Yes	2B3, 3
	Rolfe	3	Depressions	Yes	2B3, 3
	Canisteo	2	Rims	Yes	2B3
110:					
Marna silty clay loam	Marna	90	Flats, Lake plains	Yes	2B3
	Lura	10	Depressions	Yes	2B3, 3
113:					
Webster silty clay loam	Webster	90	Flats, Moraines	Yes	2B3
	Canisteo	5	Rims	Yes	2B3
	Rolfe	5	Depressions	Yes	2B3, 3
114:					
Glencoe silty clay loam	Glencoe	85	Depressions, Moraines	Yes	2B3, 3
	Canisteo	10	Rims	Yes	2B3
	Webster	5	Flats	Yes	2B3
128:					
Grogan silt loam, 1 to 3 percent slopes	Grogan	90	Outwash deltas, Rises	No	---
	Litchfield	4	Rises	No	---
	Madelia	3	Drainageways	Yes	2B3
	Nicollet	3	Rises	No	---
128B:					
Grogan silt loam, 3 to 6 percent slopes	Grogan	90	Hills, Outwash deltas	No	---
	Litchfield	4	Rises	No	---
	Madelia	3	Drainageways	Yes	2B3
	Nicollet	3	Rises	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
130:					
Nicollet clay loam, 1 to 3 percent slopes	Nicollet	90	Moraines, Rises	No	---
	Clarion	4	Moraines	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Webster	3	Flats	Yes	2B3
134:					
Okoboji silty clay loam	Okoboji	85	Depressions, Lake plains	Yes	2B3, 3
	Madelia	10	Flats	Yes	2B3
	Lura	5	Depressions	Yes	2B3, 3
136:					
Madelia silty clay loam	Madelia	90	Flats, Lake plains	Yes	2B3
	Kingston	4	Lake plains	No	---
	Okoboji	3	Depressions	Yes	2B3, 3
	Spicer	3	Flats	Yes	2B3
138B2:					
Lerdal silty clay loam, 2 to 6 percent slopes, eroded	Lerdal, eroded	90	Hills, Moraines	No	---
	Kilkenny	4	Moraines	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Minnetonka	3	Drainageways	Yes	2B3
138C2:					
Lerdal silty clay loam, 6 to 15 percent slopes, eroded	Lerdal, eroded	90	Hills, Moraines	No	---
	Kilkenny	4	Moraines	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Minnetonka	3	Drainageways	Yes	2B3

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140:					
Spicer silty clay loam	Spicer	90	Flats, Lake plains	Yes	2B3
	Madelia	5	Flats	Yes	2B3
	Okoboji	5	Depressions	Yes	2B3, 3
160:					
Fieldon loam	Fieldon	90	Flats, Outwash plains	Yes	2B3
	Darfur	5	Flats	Yes	2B3
	Dassel	5	Depressions	Yes	2B3, 3
178:					
Granby fine sandy loam	Granby	90	Flats, Outwash plains	Yes	2B3, 3
	Darfur	4	Flats	Yes	2B3
	Dassel	3	Depressions	Yes	2B3, 3
	Fieldon	3	Flats	Yes	2B3
181:					
Litchfield loamy fine sand, 1 to 3 percent slopes	Litchfield	90	Outwash plains	No	---
	Darfur	4	Flats	Yes	2B3
	Dickinson	3	Outwash plains	No	---
	Estherville	3	Outwash plains	No	---
183:					
Dassel loam	Dassel	85	Depressions, Outwash plains	Yes	2B3, 3
	Darfur	10	Flats	Yes	2B3
	Fieldon	5	Flats	Yes	2B3
196:					
Joliet silty clay loam	Joliet	90	Terraces	Yes	2B3
	Tilfer	10	Depressions	Yes	2B3, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
197:					
Kingston silty clay loam, 1 to 3 percent slopes	Kingston	90	Lake plains	No	---
	Madelia	5	Flats	Yes	2B3
	Truman	5	Lake plains	No	---
211:					
Lura silty clay	Lura	85	Depressions, Lake plains	Yes	2B3, 3
	Barbert	5	Depressions	Yes	2B3, 3
	Marna	5	Flats	Yes	2B3
	Minnetonka	5	Flats	Yes	2B3
219:					
Rolfe silt loam	Rolfe	85	Depressions, Till plains	Yes	2B3, 3
	Cordova	5	Flats	Yes	2B3
	Glencoe	5	Depressions	Yes	2B3, 3
	Minnetonka	5	Flats	Yes	2B3
222B:					
Lasa fine sand, 2 to 8 percent slopes	Lasa	90	Outwash deltas	No	---
	Dassel	10	Depressions	Yes	2B3, 3
229:					
Waldorf silty clay loam	Waldorf	90	Flats, Lake plains	Yes	2B3
	Collinwood	4	Lake plains	No	---
	Guckeen	3	Lake plains	No	---
	Kingston	3	Lake plains	No	---
230:					
Guckeen silty clay loam, 1 to 4 percent slopes	Guckeen	90	Lake plains, Rises	No	---
	Kamrar	5	Lake plains	No	---
	Marna	5	Drainageways	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
238B:					
Kilkenny clay loam, 2 to 6 percent slopes	Kilkenny	90	Hills, Moraines	No	---
	Lerdal	5	Moraines	No	---
	Mazaska	5	Drainageways	Yes	2B3
238C:					
Kilkenny clay loam, 6 to 12 percent slopes	Kilkenny	90	Hills, Moraines	No	---
	Lerdal	4	Moraines	No	---
	Derrynane	3	Drainageways	Yes	2B3
	Terril	3	Moraines	No	---
238D:					
Kilkenny clay loam, 12 to 18 percent slopes	Kilkenny	90	Hills, Moraines	No	---
	Lerdal	4	Moraines	No	---
	Derrynane	3	Drainageways	Yes	2B3
	Terril	3	Moraines	No	---
239:					
Le Sueur clay loam, 1 to 3 percent slopes	Le Sueur	90	Moraines, Rises	No	---
	Cordova	5	Drainageways	Yes	2B3
	Lester	5	Moraines	No	---
248:					
Lomax loam, 1 to 3 percent slopes	Lomax	90	Flood plains	No	---
	Dorchester	4	Flood plains	No	---
	Minneopa	4	Terraces	No	---
	Comfrey	2	Flood plains	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
259B:					
Grays silt loam, 2 to 8 percent slopes	Grays	90	Hills, Lake plains	No	---
	Barrington	5	Lake plains	No	---
	Madelia	5	Drainageways	Yes	2B3
275B:					
Ocheyedan loam, 2 to 8 percent slopes	Ocheyedan	90	Lake plains	No	---
	Clarion	4	Moraines	No	---
	Nicollet	3	Moraines	No	---
	Webster	3	Flats	Yes	2B3
281:					
Darfur loam	Darfur	90	Flats, Outwash plains	Yes	2B3
	Fieldon	4	Flats	Yes	2B3
	Dassel	3	Depressions	Yes	2B3, 3
	Granby	3	Flats	Yes	2B3
286:					
Shorewood silty clay loam, 1 to 6 percent slopes	Shorewood	90	Lake plains, Rises	No	---
	Guckeen	5	Lake plains	No	---
	Minnetonka	5	Flats	Yes	2B3
287:					
Minnetonka silty clay loam	Minnetonka	90	Flats, Lake plains	Yes	2B3
	Shorewood	4	Lake plains	No	---
	Barbert	3	Depressions	Yes	2B3, 3
	Lura	3	Depressions	Yes	2B3, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
310:					
Beauford clay	Beauford	90	Flats, Lake plains	Yes	2B3
	Lura	4	Depressions	Yes	2B3, 3
	Barbert	3	Depressions	Yes	2B3, 3
	Guckeen	3	Lake plains	No	---
311:					
Shorewood silty clay, 1 to 6 percent slopes	Shorewood	90	Lake plains, Rises	No	---
	Lura	4	Depressions	Yes	2B3, 3
	Barbert	3	Depressions	Yes	2B3, 3
	Beauford	3	Flats	Yes	2B3
316:					
Baroda silty clay loam	Baroda	90	Flats, Lake plains	Yes	2B3
	Lura	4	Depressions	Yes	2B3, 3
	Barbert	3	Depressions	Yes	2B3, 3
	Shorewood	3	Lake plains	No	---
317:					
Oshawa silt loam	Oshawa, frequently flooded	85	Flood plains	Yes	2B3, 3, 4
	Chaska	10	Terraces	Yes	---
	Palms	5	Depressions	Yes	1, 3
319:					
Barbert silt loam	Barbert	85	Depressions, Lake plains	Yes	2B3, 3
	Lura	10	Depressions	Yes	2B3, 3
	Minnetonka	5	Flats	Yes	2B3
321:					
Tilfer silty clay loam	Tilfer	90	Benches, Flats	Yes	2B3
	Joliet	10	Outwash plains	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
329:					
Chaska loam	Chaska, occasionally flooded	90	Flood plains	No	---
	Dorchester	5	Flood plains	No	---
	Oshawa	5	Depressions	Yes	2B3, 3, 4
349:					
Calco silty clay loam, very wet	Calco, frequently flooded	90	Flood plains	Yes	2B3
	Minneopa	10	Flood plains	No	---
353:					
Comfrey clay loam, frequently flooded	Comfrey, frequently flooded	90	Flood plains	Yes	2B3, 4
	Oshawa	4	Depressions	Yes	2B3, 3, 4
	Caron	3	Depressions	Yes	1, 3, 4
	Chaska	3	Terraces	Yes	2B3
354:					
Dorchester loam, occasionally flooded	Dorchester, occasionally flooded	90	Flood plains	No	---
	Chaska	5	Terraces	Yes	2B3
	Comfrey	5	Flood plains	Yes	2B3
360B:					
Lasa loamy fine sand, rock substratum, 1 to 6 percent slopes	Lasa, rock substratum	90	Outwash deltas	No	---
	Joliet	10	Outwash plains	Yes	2B3
363:					
Minneopa loamy fine sand, occasionally flooded, 0 to 3 percent slopes	Minneopa, occasionally flooded	90	Terraces	No	---
	Comfrey	10	Flood plains	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
364:					
Minnetonka silty clay loam, silty substratum	Minnetonka, silty substratum	90	Flats, Lake plains	Yes	2B3
	Shorewood	4	Rises	No	---
	Barbert	3	Depressions	Yes	2B3, 3
	Lura	3	Depressions	Yes	2B3, 3
414:					
Hamel clay loam, 1 to 4 percent slopes	Hamel	90	Drainageways, Moraines	Yes	2B3
	Glencoe	10	Depressions	Yes	2B3
440:					
Copaston loam, very shallow, 1 to 4 percent slopes	Copaston, very shallow	90	Terraces	No	---
	Joliet	10	Swales	Yes	2B3
448:					
Shorewood silty clay loam, silty substratum, 1 to 3 percent slopes	Shorewood, silty substratum	90	Lake plains, Rises	No	---
	Minnetonka	4	Rises	Yes	2B3
	Barbert	3	Depressions	Yes	2B3, 3
	Lura	3	Depressions	Yes	2B3, 3
451:					
Dorchester loam, 1 to 3 percent slopes	Dorchester, rarely flooded	90	Terraces	No	---
	Comfrey	5	Flood plains	Yes	2B3
	Lomax	5	Flood plains	No	---
524:					
Caron muck	Caron	85	Depressions, Moraines	Yes	1, 3
	Palms	15	Depressions	Yes	1, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
525:					
Muskego muck	Muskego	85	Depressions, Moraines	Yes	1, 3
	Caron	10	Depressions	Yes	1, 3
	Palms	5	Depressions	Yes	1, 3
539:					
Palms muck	Palms	85	Depressions, Moraines	Yes	1, 3
	Glencoe	15	Depressions	Yes	2B3
548:					
Palms muck, sandy substratum	Palms, sandy substratum	85	Depressions, Outwash plains	Yes	1, 3
	Dassel	15	Depressions	Yes	2B3, 3
851:					
Chaska-Urban land complex	Chaska, rarely flooded	50	Flood plains	No	---
	Urban land, rarely flooded	30	Flood plains	Unranked	---
	Dorchester	10	Flood plains	No	---
	Oshawa	10	Depressions	Yes	2B3, 3, 4
852:					
Copaston-Urban land complex, 1 to 4 percent slopes	Copaston	50	Terraces	No	---
	Urban land	40	Terraces	Unranked	---
	Joliet	10	Swales	Yes	2B3
853:					
Copaston-Urban land bouldery complex, 1 to 4 percent slopes	Copaston	50	Terraces	No	---
	Urban land	40	Terraces	Unranked	---
	Joliet	10	Swales	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
854:					
Cordova-Urban land complex, 0 to 3 percent slopes	Cordova	50	Drainageways, Moraines	Yes	2B3
	Urban land	30	Moraines	Unranked	---
	Glencoe	10	Depressions	Yes	2B3, 3
	Le Sueur	5	Moraines	No	---
	Rolfe	5	Depressions	Yes	2B3, 3
855:					
Dorchester-Urban land complex, 1 to 3 percent slopes	Dorchester, rarely flooded	50	Flood plains	No	---
	Urban land, rarely flooded	30	Flood plains	Unranked	---
	Comfrey	10	Flood plains	Yes	2B3
	Lomax	10	Flood plains	No	---
856B:					
Terril-Urban land complex, 2 to 6 percent slopes	Terril	50	Moraines	No	---
	Urban land	30	Moraines	Unranked	---
	Hamel	10	Drainageways	Yes	2B3
	Le Sueur	5	Moraines	No	---
	Lester	5	Moraines	No	---
856C:					
Terril-Urban land complex, 6 to 15 percent slopes	Terril	50	Moraines	No	---
	Urban land	30	Moraines	Unranked	---
	Hamel	10	Drainageways	Yes	2B3
	Le Sueur	5	Moraines	No	---
	Lester	5	Moraines	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
909C:					
Bold-Truman silt loams, 6 to 12 percent slopes	Bold	50	Hills, Lake plains	No	---
	Truman	40	Hills, Lake plains	No	---
	Kingston	5	Lake plains	No	---
	Madelia	5	Drainageways	Yes	2B3
909D:					
Bold-Truman silt loams, 12 to 18 percent slopes	Bold	60	Hills, Lake plains	No	---
	Truman	30	Hills, Lake plains	No	---
	Kingston	5	Lake plains	No	---
	Madelia	5	Drainageways	Yes	2B3
919:					
Canisteo-Fieldon loams	Canisteo	65	Flats, Moraines	Yes	2B3
	Fieldon	25	Flats, Moraines	Yes	2B3
	Nicollet	3	Rises	No	---
	Webster	3	Flats	Yes	2B3
	Darfur	2	Flats	Yes	2B3
	Litchfield	2	Outwash deltas	No	---
920B:					
Clarion-Estherville complex, 2 to 6 percent slopes	Clarion	65	Hills, Moraines	No	---
	Estherville	25	Hills, Moraines	No	---
	Nicollet	4	Moraines	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Webster	3	Drainageways	Yes	2B3

Hydric Soils

Blue Earth County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
920C:					
Clarion-Estherville complex, 6 to 12 percent slopes	Clarion	50	Hills, Moraines	No	---
	Estherville	30	Hills, Moraines	No	---
	Nicollet	10	Moraines	No	---
	Webster	4	Drainageways	Yes	2B3
	Glencoe	3	Depressions	Yes	2B3, 3
	Terril	3	Till plains	No	---
920D:					
Clarion-Estherville complex, 12 to 20 percent slopes	Clarion	55	Hills, Moraines	No	---
	Estherville	25	Hills, Moraines	No	---
	Glencoe	5	Depressions	Yes	2B3, 3
	Nicollet	5	Moraines	No	---
	Terril	5	Moraines	No	---
	Webster	5	Drainageways	Yes	2B3
921C:					
Clarion-Storden loams, 6 to 12 percent slopes	Clarion	55	Hills, Moraines	No	---
	Storden	35	Hills, Moraines	No	---
	Nicollet	4	Flats	No	---
	Glencoe	2	Depressions	Yes	2B3
	Terril	2	Till plains	No	---
	Webster	2	Drainageways	Yes	2B3

Hydric Soils

Blue Earth County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
921D:					
Clarion-Storden loams, 12 to 18 percent slopes	Clarion	55	Hills, Moraines	No	---
	Storden	35	Hills, Moraines	No	---
	Nicollet	4	Flats	No	---
	Glencoe	2	Depressions	Yes	2B3
	Terril	2	Till plains	No	---
	Webster	2	Drainageways	Yes	2B3
923:					
Copaston-Rock outcrop complex, 1 to 4 percent slopes	Copaston	55	Terraces	No	---
	Rock outcrop	35	Terraces	Unranked	---
	Joliet	5	Swales	Yes	2B3
	Tilfer	5	Swales	Yes	2B3, 3
926:					
Darfur-Webster loams	Darfur	65	Flats, Outwash plains	Yes	2B3
	Webster	25	Flats, Outwash plains	Yes	2B3
	Dassel	5	Depressions	Yes	2B3, 3
	Litchfield	3	Outwash deltas	No	---
	Glencoe	2	Depressions	Yes	2B3, 3
929:					
Fieldon-Canisteo loams	Fieldon	65	Flats, Outwash plains	Yes	2B3
	Canisteo	25	Flats, Outwash plains	Yes	2B3
	Dassel	5	Depressions	Yes	2B3, 3
	Litchfield	3	Outwash deltas	No	---
	Glencoe	2	Depressions	Yes	2B3, 3

Hydric Soils

Blue Earth County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
932:					
Glencoe-Dassel loams	Glencoe	65	Depressions, Moraines	Yes	2B3, 3
	Dassel	25	Depressions, Moraines	Yes	2B3, 3
	Fieldon	4	Flats	Yes	2B3
	Darfur	3	Flats	Yes	2B3
	Webster	3	Flats	Yes	2B3
941:					
Kingston-Nicollet complex, 1 to 3 percent slopes	Kingston	55	Lake plains, Rises	No	---
	Nicollet	35	Lake plains, Rises	No	---
	Madelia	5	Flats	Yes	2B3
	Webster	5	Flats	Yes	2B3
946:					
Litchfield-Nicollet complex, 1 to 3 percent slopes	Litchfield	55	Outwash deltas	No	---
	Nicollet	35	Outwash deltas	No	---
	Granby	4	Swales	Yes	2B3
	Darfur	3	Flats	Yes	2B3
	Webster	3	Flats	Yes	2B3
947:					
Madelia-Webster silty clay loams	Madelia	55	Flats, Lake plains	Yes	2B3
	Webster	35	Flats, Lake plains	Yes	2B3
	Kingston	4	Lake plains	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Okoboji	3	Depressions	Yes	2B3, 3

Hydric Soils

Blue Earth County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
960E:					
Storden-Clarion loams, 18 to 24 percent slopes	Storden	50	Hills, Moraines	No	---
	Clarion	40	Hills, Moraines	No	---
	Terril	5	Till plains	No	---
	Glencoe	3	Depressions	Yes	2B3, 3
	Webster	2	Drainageways	Yes	2B3
968:					
Webster-Darfur-Granby complex	Webster	55	Flats, Moraines	Yes	2B3
	Darfur	20	Flats, Moraines	Yes	2B3
	Granby	15	Flats, Outwash plains	Yes	2B3, 3
	Litchfield	5	Outwash deltas	No	---
	Nicollet	5	Moraines	No	---
978:					
Cordova-Rolfe complex	Cordova	60	Flats, Moraines	Yes	2B3
	Rolfe	30	Depressions, Moraines	Yes	2B3, 3
	Glencoe	5	Depressions	Yes	2B3, 3
	Le Sueur	5	Moraines	No	---
996:					
Beauford-Barbert complex	Beauford	60	Flats, Lake plains	Yes	2B3
	Barbert	30	Depressions, Lake plains	Yes	2B3, 3
	Lura	5	Depressions	Yes	2B3, 3
	Waldorf	3	Flats	Yes	2B3
	Marna	2	Depressions	Yes	2B3

Hydric Soils

Blue Earth County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
997:					
Marna-Barbert complex	Marna	60	Flats, Lake plains	Yes	2B3
	Barbert	30	Depressions, Lake plains	Yes	2B3, 3
	Lura	10	Depressions	Yes	2B3, 3
998:					
Minnetonka-Barbert complex	Minnetonka	60	Flats, Lake plains	Yes	2B3
	Barbert	30	Depressions, Lake plains	Yes	2B3, 3
	Marna	4	Depressions	Yes	2B3
	Lura	3	Depressions	Yes	2B3, 3
	Shorewood	3	Rises	No	---
1001:					
Alluvial land, occasionally flooded	Alluvial land, occasionally flooded	90	Flood plains	Yes	2B3
	Comfrey	10	Flood plains	Yes	2B3
1002:					
Alluvial land, frequently flooded	Alluvial land, frequently flooded	90	Flood plains	Yes	2B3, 4
	Comfrey	10	Flood plains	Yes	2B3
1004:					
Alluvial land, gently sloping	Alluvial land, rarely flooded	90	Flood plains, Rises	No	---
	Comfrey	10	Flood plains	Yes	2B3
1007:					
Alluvial-Urban land complex	Alluvial, rarely flooded	50	Flood plains	Unranked	---
	Urban land, rarely flooded	30	Flood plains	Unranked	---
	Comfrey	10	Flood plains	Yes	2B3
	Oshawa	10	Flood plains	Yes	2B3, 3

Hydric Soils

Blue Earth County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1032:					
Lake beaches	Beaches, lake	100	Beaches, Moraines	Yes	2B2
1053:					
Marsh	Marsh	90	Depressions, Moraines	Yes	1, 3
	Canisteo	10	Rims	Yes	2B3
1800:					
Caron mucky peat	Caron	85	Depressions, Terraces	Yes	1, 3
	Tilfer	15	Depressions	Yes	2B3, 3
1801B:					
Grogan loamy fine sand, 2 to 6 percent slopes	Grogan	90	Deltas	No	---
	Dassel	10	Depressions	Yes	2B3, 3
L13A:					
Klossner muck, depressional, 0 to 1 percent slopes	Klossner, drained	80	Depressions, Moraines	Yes	1
	Mineral soil, drained	15	Depressions, Moraines	Yes	2B3
	Houghton, drained	5	Depressions, Moraines	Yes	1
L84A:					
Glencoe clay loam, depressional, 0 to 1 percent slopes	Glencoe, depressional	80	Depressions, Moraines	Yes	2B3, 3
	Very poorly drained muck	10	Depressions, Moraines	Yes	2B3
	Canisteo	5	Depressions, Flats, Moraines, Rims	Yes	2B3
	Harps	5	Depressions, Rims	Yes	2B3
L85A:					
Nicollet clay loam, 1 to 3 percent slopes	Nicollet	85	Flats, Moraines, Rises	No	---
	Clarion	10	Hills, Moraines	No	---
	Webster	5	Flats, Moraines, Swales	Yes	2B3

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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