Lucas County, Iowa
Hydric Soils

Print date: 11/07/2016

(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
13B:								
Zook-Olmitz-Vesser complex, 0 to 5 percent slopes	Zook, occasionally flooded	50	Yes	flood plains	2	Yes	No	No
	Vesser, occasionally flooded	15	Yes	flood plains	2	Yes	No	No
	Zook, occasionally flooded, overwash	10	Yes	flood plains	2	Yes	No	No
	Zook, frequently flooded	5	Yes	flood plains	2	Yes	No	No
23C:								
Arispe silty clay loam, 5 to 9 percent slopes	Clarinda	5	Yes	hillslopes	2	Yes	No	No
23C2:								
Arispe silty clay loam, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	10	Yes	hillslopes	2	Yes	No	No
51:								
Vesser silt loam, 0 to 2 percent slopes, occasionally flooded	Vesser, occasionally flooded	80	Yes	flood plains	2	Yes	No	No
	Colo, occasionally flooded	10	Yes	flood plains	2	Yes	No	No
	Vesser, occasionally flooded, overwash	5	Yes	flood plains	2	Yes	No	No
51+:								
Vesser silt loam, 0 to 2 percent slopes, overwash	Vesser, overwash, occasionally flooded	90	Yes	flood plains	2	Yes	No	No
	Coland, overwash, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
	Coppock, overwash, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
51B:								
Vesser silt loam, 2 to 5 percent slopes, rarely flooded	Vesser, rarely flooded	90	Yes	flood plains	2	Yes	No	No

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
	Colo, rarely flooded	10	Yes	flood plains	2	Yes	No	No
51B+:								
Vesser silt loam, 2 to 5 percent slopes, overwash	Vesser, overwash, occasionally flooded	90	Yes	flood plains	2	Yes	No	No
	Humeston, overwash, occasionally flooded	10	Yes	flood plains	2	Yes	No	No
54:								
Zook silty clay loam, heavy till, 0 to 2 percent slopes, occasionally flooded	Zook, occasionally flooded	85	Yes	flood plains	2	Yes	No	No
	Chequest, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
	Zook, occasionally flooded, overwash	5	Yes	flood plains	2	Yes	No	No
	Zook, occasionally flooded, ponded	5	Yes	flood plains	2	Yes	No	No
54+:								
Zook silt loam, heavy till, 0 to 2 percent	Zook, occasionally	90	Yes	flood plains	2	Yes	No	No

slopes, occasionally flooded, overwash	flooded, overwash							
	Chequest, occasionally flooded, overwash	10	Yes	flood plains	2	Yes	No	No
54B: Zook silty clay loam, heavy till, 2 to 5 percent slopes, rarely flooded	Zook, rarely flooded	90	Yes	drainageways	2	Yes	No	No
	Humeston, rarely flooded	5	Yes	flood plains	2	Yes	No	No
131B: Pershing silt loam, 2 to 5 percent slopes	Belinda	5	Yes	interfluves	2	Yes	No	No
131C: Pershing silt loam, 5 to 9 percent slopes	Rinda	5	Yes	hillslopes	2	Yes	No	No
131C2: Pershing silty clay loam, 5 to 9 percent slopes, moderately eroded	Rinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No

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
132B: Weller silt loam, 2 to 5 percent slopes	Beckwith	5	Yes	interfluves	2	Yes	No	No
132C2: Weller silty clay loam, 5 to 9 percent slopes, moderately eroded	Ashgrove, moderately eroded	5	Yes	interfluves	2	Yes	No	No
132D2: Weller silty clay loam, 9 to 14 percent slopes, moderately eroded	Ashgrove, moderately eroded	5	Yes	interfluves	2	Yes	No	No
172: Wabash silty clay, 0 to 2 percent slopes	Wabash, occasionally flooded	95	Yes	flood plains	2	Yes	No	No
	Chequest, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
192C2: Adair clay loam, heavy till, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
	Clearfield, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
211: Edina silt loam, depressional, 0 to 1 percent slopes	Edina	90	Yes	flats	2	Yes	No	No
	Haig	10	Yes	flats	2	Yes	No	No
222C: Clarinda silty clay loam, 5 to 9 percent slopes	Clarinda	85	Yes	hillslopes	2	Yes	No	No
	Clearfield	10	Yes	hillslopes	2	Yes	No	No
	Clarinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
222C2: Clarinda silty clay loam, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	85	Yes	hillslopes	2	Yes	No	No
	Clearfield	10	Yes	hillslopes	2	Yes	No	No
	Clarinda, severely eroded	5	Yes	hillslopes	2	Yes	No	No

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
222C3: Clarinda silty clay loam, 5 to 9 percent slopes, severely eroded	Clarinda	85	Yes	hillslopes	2	Yes	No	No
	Clearfield, severely	5	Yes	hillslopes	2	Yes	No	No

	eroded							
222D2:								
Clarinda silty clay loam, 9 to 14 percent slopes, moderately eroded	Clarinda	85	Yes	hillslopes	2	Yes	No	No
	Clarinda, severely eroded	5	Yes	hillslopes	2	Yes	No	No
	Clearfield, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
223C2:								
Rinda silty clay loam, 5 to 9 percent slopes, moderately eroded	Rinda, moderately eroded	90	Yes	hillslopes	2	Yes	No	No
	Rinda, severely eroded	5	Yes	hillslopes	2	Yes	No	No
223D2:								
Rinda silty clay loam, 9 to 14 percent slopes, moderately eroded	Rinda, moderately eroded	90	Yes	hillslopes	2	Yes	No	No
	Rinda, severely eroded	5	Yes	hillslopes	2	Yes	No	No
269:								
Humeston silty clay loam, 0 to 2 percent slopes, occasionally flooded	Humeston, occasionally flooded	90	Yes	flood-plain steps	2	Yes	No	No
	Vesser, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No
	Zook, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No
269+:								
Humeston silt loam, 0 to 2 percent slopes, overwash	Humeston, overwash, occasionally flooded	95	Yes	flood plains	2	Yes	No	No
	Vesser, overwash, occasionally flooded	5	Yes	flood plains	2	Yes	No	No

Map Symbol And map unit name	Hydric Component	Percent Of Map Unit	Hydric Rating	Landform	Hydric Soils Criteria			
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273B:								
Olmitz loam, heavy till, 2 to 5 percent slopes	Colo, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No
	Vesser	5	Yes	drainageways	2	Yes	No	No
312B:								
Seymour silt loam, 2 to 5 percent slopes	Edina	5	Yes	divides	2	Yes	No	No
312C2:								
Seymour silty clay loam, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
	Clearfield, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
354:								
Aquolls, 0 to 1 percent slopes, channeled, ponded	Aquolls, channeled, ponded	100	Yes	depressions	2, 3	Yes	No	Yes
362:								
Haig silt loam, 0 to 2 percent slopes	Haig	90	Yes	flats	2	Yes	No	No
	Edina	10	Yes	divides	2	Yes	No	No
364B:								
Grundy silty clay loam, 2 to 5 percent slopes	Edina	5	Yes	flats	2	Yes	No	No
	Haig	5	Yes	interfluves	2	Yes	No	No
423C2:								
Bucknell silty clay loam, 5 to 9 percent slopes, moderately eroded	Rinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
430:								
Ackmore silt loam, 0 to 2 percent slopes	Colo, overwash, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
453:								
Tuskeego silt loam, 0 to 2 percent slopes,	Tuskeego, rarely	100	Yes	stream terraces	2	Yes	No	No

rarely flooded	flooded							
	Tuskeego, rarely flooded	95	Yes	stream terraces	2	Yes	No	No
	Coppock, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No

Map Symbol And map unit name	Hydric Component	Percent Of Map Unit	Hydric Rating	Landform	Hydric Soils Criteria			
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484:								
Lawson silt loam, heavy till, 0 to 2 percent slopes, occasionally flooded	Colo, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No
531B:								
Kniffin silt loam, 2 to 5 percent slopes	Appanoose	10	Yes	flats	2	Yes	No	No
531C2:								
Kniffin silty clay loam, 5 to 9 percent slopes, moderately eroded	Rinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
587:								
Chequest silty clay loam, 0 to 2 percent slopes, occasionally flooded	Chequest, occasionally flooded	85	Yes	flood-plain steps	2	Yes	No	No
	Chequest, occasionally flooded, overwash	5	Yes	flood-plain steps	2	Yes	No	No
	Vesser, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No
	Zook, occasionally flooded	5	Yes	flood-plain steps	2	Yes	No	No
587+:								
Chequest silt loam, 0 to 2 percent slopes, overwash	Chequest, overwash, occasionally flooded	90	Yes	flood plains	2	Yes	No	No
	Wabash, overwash, occasionally flooded	10	Yes	flood plains	2	Yes	No	No
711:								
Lawson-Nodaway-Colo complex, 0 to 2 percent slopes, occasionally flooded	Colo, occasionally flooded	20	Yes	flood plains	2	Yes	No	No
	Colo, occasionally flooded, overwash	10	Yes	flood plains	2	Yes	No	No
716:								
Lawson-Quiver-Nodaway complex, 0 to 2 percent slopes, occasionally flooded	Quiver, occasionally flooded	25	Yes	flood plains	2	Yes	No	No
	Colo, occasionally flooded	10	Yes	flood plains	2	Yes	No	No

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
	Zook, occasionally flooded, ponded	5	Yes	flood plains	2, 3	Yes	No	Yes
822C:								
Lamoni silty clay loam, 5 to 9 percent slopes	Clarinda	5	Yes	hillslopes	2	Yes	No	No
	Clearfield	5	Yes	hillslopes	2	Yes	No	No
822C2:								
Lamoni silty clay loam, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
822D2:								
Lamoni silty clay loam, 9 to 14 percent slopes, moderately eroded	Clarinda	5	Yes	hillslopes	2	Yes	No	No
	Clearfield	5	Yes	hillslopes on till plains	2	Yes	No	No
831B:								

Pershing silt loam, terrace, 2 to 5 percent slopes	Belinda, terrace	5	Yes	stream terraces	2	Yes	No	No
1711: Lawson-Nodaway-Colo complex, channeled, 0 to 2 percent slopes, frequently flooded	Lawson, channeled, frequently flooded	35	Yes	flood plains	4	No	Yes	No
	Nodaway, channeled, frequently flooded	25	Yes	flood plains	4	No	Yes	No
	Colo, channeled, frequently flooded	20	Yes	flood plains	2, 4	Yes	Yes	No
	Aquolls, channeled, frequently flooded, ponded	10	Yes	flood plains	3, 2, 4	Yes	Yes	Yes
	Colo, channeled, frequently flooded,over wash	10	Yes	flood plains	4, 2	Yes	Yes	No
1716: Lawson-Quiver-Nodaway complex, 0 to 2 percent slopes, channeled, frequently flooded	Lawson, channeled, frequently flooded	30	Yes	flood plains	4	No	Yes	No
	Quiver, channeled, frequently flooded	25	Yes	flood plains	2, 4	Yes	Yes	No
	Colo, channeled, frequently flooded	10	Yes	flood plains	4, 2	Yes	Yes	No
	Zook, channeled, frequently flooded, ponded	5	Yes	flood plains	2, 3	Yes	No	Yes
5049: Aquolls, ponded-Udorthents, loamy, complex	Aquolls	60	Yes	flood plains	2, 3	Yes	No	Yes

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.

11B: Colo-Ely silty clay loams, 2 to 5 percent slopes	Colo	60	Yes	drainageways	2	Yes	No	No
23C: Arispe silty clay loam, 5 to 9 percent slopes	Clarinda	5	Yes	hillslopes	2	Yes	No	No
23C2: Arispe silty clay loam, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	10	Yes	hillslopes	2	Yes	No	No
43: Bremer silty clay loam, 0 to 2 percent slopes	Bremer, occasionally flooded	95	Yes	stream terraces	2	Yes	No	No
51B: Vesser silt loam, 2	Vesser,	95	Yes	flood plains	2	Yes	No	No

to 5 percent slopes	occasionally flooded							
54:								
Zook silty clay loam, 0 to 2 percent slopes, occasionally flooded	Zook, occasionally flooded	85	Yes	flood plains	2	Yes	No	No
69C:								
Clearfield silty clay loam, 5 to 9 percent slopes	Clearfield	90	Yes	hillslopes	2	Yes	No	No
69C2:								
Clearfield silty clay loam, 5 to 9 percent slopes, moderately eroded	Clearfield, moderately eroded	85	Yes	hillslopes	2	Yes	No	No
122:								
Sperry silt loam, 0 to 1 percent slopes	Sperry	95	Yes	depressions	3, 2	Yes	No	Yes
131B:								
Pershing silt loam, 2 to 5 percent slopes	Belinda	5	Yes	interfluves	2	Yes	No	No
132B:								
Weller silt loam, 2 to 5 percent slopes	Beckwith	5	Yes	interfluves	2	Yes	No	No
133:								
Colo silty clay loam, deep loess, 0 to 2 percent slopes, occasionally flooded	Colo, occasionally flooded	85	Yes	flood plains	2	Yes	No	No
133B:								
Colo silty clay loam, dissected till plain, 2 to 5 percent slopes, occasionally flooded	Colo, occasionally flooded	95	Yes	drainageways	2	Yes	No	No

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
172:								
Wabash silty clay, 0 to 2 percent slopes	Wabash, occasionally flooded	95	Yes	flood plains	2, 3	Yes	No	Yes
222C:								
Clarinda silty clay loam, 5 to 9 percent slopes	Clarinda	85	Yes	hillslopes	2	Yes	No	No
	Clearfield	10	Yes	hillslopes	2	Yes	No	No
	Clarinda, moderately eroded	5	Yes	hillslopes	2	Yes	No	No
222C2:								
Clarinda silty clay loam, 5 to 9 percent slopes, moderately eroded	Clarinda, moderately eroded	85	Yes	hillslopes	2	Yes	No	No
	Clearfield	10	Yes	hillslopes	2	Yes	No	No
	Clarinda, severely eroded	5	Yes	hillslopes	2	Yes	No	No
222D2:								
Clarinda silty clay loam, 9 to 14 percent slopes, moderately eroded	Clarinda, moderately eroded	95	Yes	hillslopes	2	Yes	No	No
248:								
Wabash silty clay loam, 0 to 2 percent slopes	Wabash, occasionally flooded	95	Yes	flood plains	3, 2	Yes	No	Yes
269:								
Humeston silt loam, 0 to 2 percent slopes	Humeston, occasionally flooded	95	Yes	flood plains	2	Yes	No	No
315:								
Alluvial land	Alluvial land, Frequently flooded	85	Yes	flood plains	4	No	Yes	No
369:								
Winterset silty clay loam, 0 to 2 percent slopes	Winterset	90	Yes	depressions	2	Yes	No	No
864B:								
Grundy silty clay loam, 2 to 5 percent slopes	Edina	5	Yes	flats	2	Yes	No	No
	Haig	5	Yes	interfluves	2	Yes	No	No
980B:								
Gullied land-Ely-Colo complex, 2 to 5 percent slopes	Colo, occasionally flooded	15	Yes	drainageways	2	Yes	No	No

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
C315:								
Alluvial land, channeled	Alluvial land, frequently flooded, channeled	90	Yes	flood plains	4	No	Yes	No
S54:								
Zook silty clay loam, heavy till, 0 to 2 percent slopes, occasionally flooded	Zook, occasionally flooded	85	Yes	flood plains	2	Yes	No	No
	Chequest, occasionally flooded	5	Yes	flood plains	2	Yes	No	No
	Zook, occasionally flooded, overwash	5	Yes	flood plains	2	Yes	No	No
	Zook, occasionally flooded, ponded	5	Yes	flood plains	2	Yes	No	No
Y11B:								
Colo, occasionally flooded-Ely silty clay loams, dissected till plain, 2 to 5 percent slopes	Colo, occasionally flooded	60	Yes	drainageways	2	Yes	No	No
Y369:								
Winterset silty clay loam, 0 to 2 percent slopes	Winterset	90	Yes	flats	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.