

## **Berks County, Pennsylvania**

### **Hydric Soils**

In this section, hydric soils are defined and described and the hydric soils in the survey area are listed.

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 each 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 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, 1995). These criteria are used to identify a phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (USDA, 1999) and "Keys to Soil Taxonomy" (USDA, 1998) and in the "Soil Survey Manual" (USDA, 1993).

If soils are wet enough for a long enough period 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 in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 1996).

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.

The following Table lists map units meet the definition of hydric soils and, in addition, have at least one of the hydric soil indicators. 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, 1996).

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

The table identifies both map units in which the major component (C) is hydric and those that have hydric inclusions (I) as listed in the Component/Inclusion column.

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
AbA: ABBOTTSTOWN SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Abbottstown	No	Hillslope on valley	---	90
	(I) Joanna	No	---	---	0-5
AbB: ABBOTTSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Abbottstown	No	Hillslope on valley	---	90
	(I) Joanna	No	---	---	0-5
AnA: ANDOVER-BUCHANAN GRAVELLY LOAMS, 0 TO 3 PERCENT SLOPES	(C) Andover	Yes	Hillslope on valley	2B3	55
	(C) Buchanan	No	Hillslope on valley	---	40
	(I) Laidig	No	---	---	0-3
	(I) Hazleton	No	---	---	0-2
AnB: ANDOVER-BUCHANAN GRAVELLY LOAMS, 3 TO 8 PERCENT SLOPES	(C) Andover	Yes	Hillslope on valley	2B3	55
	(C) Buchanan	No	Hillslope on valley	---	40
	(I) Laidig	No	---	---	0-3
	(I) Hazleton	No	---	---	0-2
AoB: ANDOVER-BUCHANAN GRAVELLY LOAMS, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Andover	Yes	Hillslope on valley	2B3	55
	(C) Buchanan	No	Hillslope on valley	---	40
	(I) Laidig	No	---	---	0-3
	(I) Hazleton	No	---	---	0-2
AsB: ATHOL SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Athol	No	Hillslope on valley	---	90
	(I) Readington	No	---	---	0-5
AsC: ATHOL SILT LOAM, 8 TO 15 PERCENT SLOPES	(C) Athol	No	Hillslope on valley	---	90
	(I) Readington	No	---	---	0-5
AuD: ATHOL-OATLANDS SILT LOAMS, 15 TO 25 PERCENT SLOPES	(C) Athol	No	Hillslope on valley	---	70
	(C) Oatlands	No	Hillslope on valley	---	25
	(I) Readington	---	---	---	0-3
AwD: ATHOL-OATLANDS SILT LOAMS, 8 TO 25 PERCENT SLOPES, EXTREMELY BOULDERY	(C) Athol	No	Hillslope on valley	---	50
	(C) Oatlands	No	Hillslope on valley	---	45
	(I) Readington	No	---	---	0-3
BfB: BEDINGTON-BERKS COMPLEX, 3 TO 8 PERCENT SLOPES	(C) Bedington	No	Hillslope on valley	---	55
	(C) Berks	No	Hillslope on valley	---	35

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Brinkerton	Yes	Depression	2B3	0-3
	(I) Comly	No	---	---	0-3
	(I) Weikert	No	---	---	0-3
BfC: BEDINGTON-BERKS COMPLEX, 8 TO 15 PERCENT SLOPES	(C) Bedington	No	Hillslope on valley	---	50
	(C) Berks	No	Hillslope on valley	---	40
	(I) Brinkerton	Yes	Depression	2B3	0-3
	(I) Comly	No	---	---	0-3
	(I) Weikert	No	---	---	0-3
BhD: BERKS-BEDINGTON COMPLEX, 15 TO 25 PERCENT SLOPES	(C) Berks	No	Hillslope on valley	---	55
	(C) Bedington	No	Hillslope on valley	---	40
	(I) Comly	No	---	---	0-2
	(I) Weikert	No	---	---	0-2
	(I) Berks	No	---	---	0-1
BkA: BERKS-WEIKERT COMPLEX, 0 TO 3 PERCENT SLOPES	(C) Berks	No	Hillslope on valley	---	65
	(C) Weikert	No	Hillslope on valley	---	25
	(I) Comly	No	---	---	0-4
	(I) Brinkerton	Yes	Depression	2B3	0-3
BkB: BERKS-WEIKERT COMPLEX, 3 TO 8 PERCENT SLOPES	(C) Berks	No	Hillslope on valley	---	65
	(C) Weikert	No	Hillslope on valley	---	25
	(I) Comly	No	---	---	0-4
	(I) Brinkerton	Yes	Depression	2B3	0-3
BkC: BERKS-WEIKERT COMPLEX, 8 TO 15 PERCENT SLOPES	(C) Berks	No	Hillslope on valley	---	65
	(C) Weikert	No	Hillslope on valley	---	25
	(I) Comly	No	---	---	0-4
	(I) Brinkerton	Yes	Depression	2B3	0-3
BkD: BERKS-WEIKERT COMPLEX, 15 TO 25 PERCENT SLOPES	(C) Berks	No	Hillslope on valley	---	65
	(C) Weikert	No	Hillslope on valley	---	25
	(I) Comly	No	---	---	0-4
	(I) Brinkerton	Yes	Depression	2B3	0-3
BkF: BERKS-WEIKERT COMPLEX, 25 TO 60 PERCENT SLOPES	(C) Berks	No	Hillslope on valley	---	65
	(C) Weikert	No	Hillslope on valley	---	25
	(I) Bedington	No	---	---	0-4

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Comly	No	---	---	0-3
	(I) Brinkerton	Yes	Depression	2B3	0-2
BmA: BIRDSBORO SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Birdsboro	No	Terrace on alluvial fan on valley Terrace on hill on valley	---	95
	(I) Lamington	Yes	Depression	2B3	0-3
BmB: BIRDSBORO SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Birdsboro	No	Terrace on hill on valley Terrace on alluvial fan on valley	---	95
	(I) Lamington	Yes	Depression	2B3	0-3
Bo: BOWMANVILLE-KNAUERS SILT LOAM	(C) Bowmansville	Yes	Flood plain on piedmont Valley on piedmont	2B3	40
	(C) Knauers	Yes	Valley on piedmont Flood plain on piedmont	2B3,3	40
	(I) Rowland	No	---	---	0-10
BpB: BRECKNOCK CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Brecknock	No	Hill on piedmont Ridge on piedmont	---	90
	(I) Lehigh	No	---	---	0-5
	(I) Penn	No	---	---	0-5
BpC: BRECKNOCK CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	(C) Brecknock	No	Hill on piedmont Ridge on piedmont	---	90
	(I) Lehigh	No	---	---	0-5
	(I) Penn	No	---	---	0-5
BpD: BRECKNOCK CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	(C) Brecknock	No	Hill on piedmont Ridge on piedmont	---	90
	(I) Lehigh	No	---	---	0-5
	(I) Penn	No	---	---	0-5
BsB: BRECKNOCK CHANNERY SILT LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Brecknock	No	Hill on piedmont Ridge on piedmont	---	90
	(I) Lehigh	No	---	---	0-5
	(I) Penn	No	---	---	0-5
BsD: BRECKNOCK CHANNERY SILT LOAM,	(C) Brecknock	No	Ridge on	---	90

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
15 TO 25 PERCENT SLOPES, EXTREMELY STONY	(I) Lehigh	No	piedmont Hill on piedmont	---	0-5
	(I) Penn	No	---	---	0-5
BtA: BRINKERTON-COMLY SILT LOAMS, 0 TO 3 PERCENT SLOPES	(C) Brinkerton	Yes	Hill on valley	2B3	75
BtB: BRINKERTON-COMLY SILT LOAMS, 3 TO 8 PERCENT SLOPES	(C) Comly	No	Hill on valley	---	20
	(C) Brinkerton	Yes	Hill on valley	2B3	75
BuB: BUCHANAN GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES	(C) Comly	No	Hill on valley	---	20
	(C) Buchanan	No	Mountain slope on mountains	---	90
BvB: BUCHANAN GRAVELLY LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(I) Andover	Yes	Depression	2B3	0-5
	(I) Laidig	No	---	---	0-5
BvD: BUCHANAN GRAVELLY LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY STONY	(C) Buchanan	No	Mountain slope on mountains	---	90
	(I) Andover	Yes	Depression	2B3	0-5
CaB: CALVIN-KLINESVILLE CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES	(I) Laidig	No	---	---	0-5
	(C) Calvin	No	Hill on mountains	---	70
CaC: CALVIN-KLINESVILLE CHANNERY SILT LOAMS, 8 TO 15 PERCENT SLOPES	(C) Klinesville	No	Hill on mountains	---	20
	(I) Brinkerton	Yes	Depression	2B3	0-5
CaD: CALVIN-KLINESVILLE CHANNERY SILT LOAMS, 15 TO 25 PERCENT SLOPES	(I) Comly	No	---	---	0-5
	(C) Calvin	No	Hill on mountains	---	60
	(C) Klinesville	No	Hill on mountains	---	30
	(I) Brinkerton	Yes	Depression	2B3	0-5

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Comly	No	---	---	0-5
CmA: CLARKSBURG SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Clarksburg	No	Hill on piedmont Valley flat on piedmont	---	95
	(I) Thorndale	No	---	---	0-5
CmB: CLARKSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Clarksburg	No	Hill on piedmont Valley flat on piedmont	---	90
	(I) Thorndale	No	---	---	0-5
CpA: COMLY SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Comly	No	Valley on hills	---	90
	(I) Brinkerton	Yes	Depression	2B3	0-5
CpB: COMLY SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Comly	No	Valley on hills	---	90
	(I) Brinkerton	Yes	Depression	2B3	0-5
CwA: CROTON SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Croton	Yes	Depression on hills Valley on hills	2B3	90
	(I) Readington	No	---	---	0-5
CwB: CROTON SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Croton	Yes	Valley on hills Depression on hills	2B3	90
	(I) Readington	No	---	---	0-5
DAM: DAMS AND IMPOUNDMENT STRUCTURES	(C) Dams	No	---	---	100
DbA: DUFFIELD SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Duffield	No	Hill on valley	---	90
	(I) Clarksburg	No	---	---	0-3
	(I) Ryder	No	---	---	0-3
	(I) Penlaw	No	---	---	0-2
	(I) Thorndale	No	---	---	0-2
DbB: DUFFIELD SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Duffield	No	Hill on valley	---	90
	(I) Ryder	No	---	---	0-3
	(I) Penlaw	No	---	---	0-2
	(I) Thorndale	No	---	---	0-2
DfC: DUFFIELD-RYDER SILT LOAMS, 8 TO 15 PERCENT SLOPES	(C) Duffield	No	Hill on valley	---	60
	(C) Ryder	No	Hill on valley	---	30
	(I) Clarksburg	No	---	---	0-3

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Penlaw	No	---	---	0-3
	(I) Thorndale	No	---	---	0-3
DfD: DUFFIELD-RYDER SILT LOAMS, 15 TO 25 PERCENT SLOPES	(C) Duffield	No	Hill on valley	---	50
	(C) Ryder	No	Hill on valley	---	40
	(I) Clarksburg	No	---	---	0-3
	(I) Penlaw	No	---	---	0-3
	(I) Thorndale	No	---	---	0-3
EdB: EDGEMONT CHANNERY SANDY LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Edgemont	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-4
	(I) Andover	Yes	Drainageway	2B3	0-3
EdD: EDGEMONT CHANNERY SANDY LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY STONY	(C) Edgemont	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-4
	(I) Andover	Yes	Drainageway	---	0-3
EdF: EDGEMONT CHANNERY SANDY LOAM, 25 TO 60 PERCENT SLOPES, EXTREMELY STONY	(C) Edgemont	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-4
	(I) Andover	Yes	Drainageway	2B3	0-3
EhB: EDGEMONT CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	(C) Edgemont	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-4
	(I) Andover	Yes	Depression	2B3	0-3
EhC: EDGEMONT CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	(C) Edgemont	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-4
	(I) Andover	Yes	Drainageway	2B3	0-3
EhD: EDGEMONT CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	(C) Edgemont	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-4
	(I) Andover	Yes	Drainageway	2B3	0-3
Gc: GIBRALTAR SILT LOAM	(C) Gibraltar	No	Levee on valley flat on hills	---	95
	(I) Holly	No	---	---	0-5
GeB: GLADSTONE GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Gladstone	No	Ridge on hills	---	90

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Glenville	No	---	---	0-4
	(I) Towhee	No	---	---	0-3
GeC: GLADSTONE GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES	(C) Gladstone	No	Ridge on hills	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
GeD: GLADSTONE GRAVELLY SILT LOAM, 15 TO 25 PERCENT SLOPES	(C) Gladstone	No	Ridge on hills	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
GfB: GLADSTONE GRAVELLY SILT LOAM, 0 TO 8 PERCENT SLOPES, VERY BOULDERY	(C) Gladstone	No	Ridge on hills	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
GfD: GLADSTONE GRAVELLY SILT LOAM, 8 TO 25 PERCENT SLOPES, VERY BOULDERY	(C) Gladstone	No	Ridge on hills	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
GfF: GLADSTONE GRAVELLY SILT LOAM, 25 TO 55 PERCENT SLOPES, VERY BOULDERY	(C) Gladstone	No	Ridge on hills	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
GnA: GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Glenville	No	Hill on valley	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
GnB: GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Glenville	No	Hill on valley	---	90
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
HaB: HAGERSTOWN-DUFFIELD SILT LOAMS, 3 TO 8 PERCENT SLOPES	(C) Hagerstown	No	Valley	---	50
	(C) Duffield	No	Valley	---	40
	(I) Ryder	No	---	---	0-3
	(I) Clarksburg	No	---	---	0-2
	(I) Penlaw	No	---	---	0-2
	(I) Thorndale	No	---	---	0-2
HeB:					



Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
HAZLETON VERY CHANNERY LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Hazleton	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-5
HeD:					
HAZLETON VERY CHANNERY LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY STONY	(C) Hazleton	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-5
HeF:					
HAZLETON VERY CHANNERY LOAM, 25 TO 60 PERCENT SLOPES, EXTREMELY STONY	(C) Hazleton	No	Mountain slope on mountains	---	90
	(I) Buchanan	No	---	---	0-5
HgF:					
HAZLETON-RUBBLE LAND COMPLEX, 25 TO 60 PERCENT SLOPES	(C) Hazleton	No	Mountain slope on mountains	---	70
	(C) Rubble Land	No	Mountain slope on mountains	---	20
	(I) Buchanan	No	---	---	0-5
Ho:					
HOLLY SILT LOAM	(C) Holly	Yes	Valley floor on hills	2B3,4	90
	(I) Brinkerton	Yes	Depression	2B3	0-2
	(I) Gibraltar	No	---	---	0-2
	(I) Linden	No	---	---	0-2
JnB:					
JOANNA LOAM, 3 TO 8 PERCENT SLOPES	(C) Joanna	No	Ridge on hills	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
JnC:					
JOANNA LOAM, 8 TO 15 PERCENT SLOPES	(C) Joanna	No	Ridge on hills	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
JnD:					
JOANNA LOAM, 15 TO 25 PERCENT SLOPES	(C) Joanna	No	Ridge on hills	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
JnE:					
JOANNA LOAM, 25 TO 35 PERCENT SLOPES	(C) Joanna	No	Ridge on hills	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
JpB:					
JOANNA LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Joanna	No	Ridge on hills	---	90
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Readington	No	---	---	0-4
	(I) Penn	No	---	---	0-2

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
JpD: JOANNA LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY STONY	(C) Joanna	No	Ridge on hills	---	90
	(I) Penn	No	---	---	0-4
	(I) Readington	No	---	---	0-4
	(I) Croton	Yes	Depression	2B3	0-2
JpF: JOANNA LOAM, 25 TO 60 PERCENT SLOPES, EXTREMELY STONY	(C) Joanna	No	Ridge on hills	---	90
	(I) Penn	No	---	---	0-4
	(I) Readington	No	---	---	0-4
	(I) Croton	Yes	Depression	2B3	0-2
KlF: KLINESVILLE-CALVIN CHANNERY SILT LOAMS, 25 TO 60 PERCENT SLOPES	(C) Klinesville	No	Hill on mountains	---	60
	(C) Calvin	No	Hill on mountains	---	30
	(I) Brinkerton	Yes	Depression	2B3	0-5
	(I) Comly	No	---	---	0-5
LaB: LAIDIG GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES	(C) Laidig	No	Mountain slope on mountains	---	90
	(I) Andover	Yes	Drainageway	2B3	0-4
	(I) Buchanan	No	---	---	0-4
	(I) Hazleton	No	---	---	0-2
LaC: LAIDIG GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	(C) Laidig	No	Mountain slope on mountains	---	90
	(I) Andover	Yes	Drainageway	2B3	0-4
	(I) Buchanan	No	---	---	0-4
	(I) Hazleton	No	---	---	0-2
LaD: LAIDIG GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES	(C) Laidig	No	Mountain slope on mountains	---	90
	(I) Andover	Yes	Drainageway	2B3	0-4
	(I) Buchanan	No	---	---	0-4
	(I) Hazleton	No	---	---	0-2
LbB: LAIDIG VERY GRAVELLY LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Laidig	No	Mountain slope on mountains	---	90
	(I) Andover	Yes	Drainageway	2B3	0-4
	(I) Buchanan	No	---	---	0-4
	(I) Hazleton	No	---	---	0-2
LbD: LAIDIG VERY GRAVELLY LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY STONY	(C) Laidig	No	Mountain slope on mountains	---	90

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Andover	Yes	Drainageway	2B3	0-4
	(I) Buchanan	No	---	---	0-4
	(I) Hazleton	---	---	---	0-2
LbF: LAIDIG VERY GRAVELLY LOAM, 25 TO 55 PERCENT SLOPES, EXTREMELY STONY	(C) Laidig	No	Mountain slope on mountains	---	90
	(I) Andover	Yes	Drainageway	2B3	0-5
	(I) Buchanan	No	---	---	0-5
LdF: LAIDIG-RUBBLE LAND COMPLEX, 25 TO 55 PERCENT SLOPES	(C) Laidig	No	Mountain slope on mountains	---	50
	(C) Rubble Land	No	Mountain slope on mountains	---	40
	(I) Andover	Yes	Drainageway	2B3	0-5
	(I) Buchanan	No	---	---	0-5
LfA: LAMINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Lamington	Yes	Drainageway on valley on	2B3	85
	(I) Birdsboro	No	---	---	0-5
	(I) Raritan	No	---	---	0-5
LmA: LEHIGH SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Lehigh	No	Hill on valley	---	90
	(I) Brecknock	No	---	---	0-5
	(I) Croton	Yes	Depression	2B3	0-5
LmB: LEHIGH SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Lehigh	No	Hill on valley	---	90
	(I) Brecknock	No	---	---	0-5
	(I) Croton	Yes	Depression	2B3	0-5
Lv: LINDEN LOAM	(C) Linden	No	Depression on flood plain on valley	---	95
	(I) Holly	No	---	---	0-3
Me: MIDDLEBURY SILT LOAM	(C) Middlebury	No	Depression on flood plain on valley	---	95
	(I) Holly	No	---	---	0-3
MgB: MONONGAHELA SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Monongahela	No	Terrace on valley on hills	---	90
	(I) Lamington	Yes	Depression	---	0-5
MLB: MOUNT LUCAS SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Mount Lucas	No	Hill on valley	---	90
	(I) Towhee	No	---	---	0-5
MmB: MOUNT LUCAS SILT LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY	(C) Mount Lucas	No	Hill on valley	---	90
	(I) Towhee	No	---	---	0-5

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
MuA:					
MURRILL GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES	(C) Murrill	No	Hill on valley	---	90
	(I) Clarksburg	No	---	---	0-4
	(I) Penlaw	No	---	---	0-4
	(I) Thorndale	No	---	---	0-2
MuB:					
MURRILL GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES	(C) Murrill	No	Hill on valley	---	90
	(I) Clarksburg	No	---	---	0-4
	(I) Penlaw	No	---	---	0-4
	(I) Thorndale	No	---	---	0-2
MuC:					
MURRILL GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	(C) Murrill	No	Hill on valley	---	90
	(I) Clarksburg	No	---	---	0-4
	(I) Penlaw	No	---	---	0-4
	(I) Thorndale	No	---	---	0-2
NaB:					
NESHAMINY SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Neshaminy	No	Hill on mountains	---	90
	(I) Mount Lucas	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
NaC:					
NESHAMINY SILT LOAM, 8 TO 15 PERCENT SLOPES	(C) Neshaminy	No	Hill on mountains	---	90
	(I) Mount Lucas	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
NaD:					
NESHAMINY SILT LOAM, 15 TO 25 PERCENT SLOPES	(C) Neshaminy	No	Hill on mountains	---	90
	(I) Mount Lucas	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
NhB:					
NESHAMINY GRAVELLY SILT LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY BOULDERY	(C) Neshaminy	No	Hill on mountains	---	90
	(I) Mount Lucas	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
NhD:					
NESHAMINY GRAVELLY SILT LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY BOULDERY	(C) Neshaminy	No	Hill on mountains	---	90
	(I) Mount Lucas	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
NhF:					
NESHAMINY GRAVELLY SILT LOAM, 25 TO 60 PERCENT SLOPES, EXTREMELY BOULDERY	(C) Neshaminy	No	Hill on mountains	---	90
	(I) Mount Lucas	No	---	---	0-5

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Towhee	No	---	---	0-5
PaA: PENLAW SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Penlaw	No	Flat on valley	---	95
PeB: PENN CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Penn	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
PeC: PENN CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	(C) Penn	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
PeD: PENN CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	(C) Penn	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-5
	(I) Readington	No	---	---	0-5
PkC: PENN-KLINESVILLE CHANNERY SILT LOAMS, 8 TO 15 PERCENT SLOPES	(C) Penn	No	Hill on valley	---	70
	(C) Klinesville	No	Hill on valley	---	20
	(I) Calvin	No	---	---	0-4
	(I) Readington	No	---	---	0-4
	(I) Croton	Yes	Depression	2B3	0-2
PkD: PENN-KLINESVILLE CHANNERY SILT LOAMS, 15 TO 25 PERCENT SLOPES	(C) Penn	No	Hill on valley	---	70
	(C) Klinesville	No	Hill on valley	---	20
	(I) Calvin	Unranked	---	---	0-4
	(I) Croton	Yes	Depression	2B3	0-3
	(I) Readington	No	---	---	0-3
Qu: QUARRIES	(C) Quarries	No	Ridge on mountains Hill on mountains Valley on mountains	---	90
RaB: RARITAN SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Raritan	No	-- error in exists on --	---	90
	(I) Lamington	Yes	Depression	2B3	0-5
ReA: READINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Readington	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Penn	No	---	---	0-4
	(I) Joanna	No	---	---	0-2
ReB:					

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
READINGTON SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Readington	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Penn	No	---	---	0-4
	(I) Joanna	No	---	---	0-2
REAVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Reaville	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Penn	No	---	---	0-4
	(I) Joanna	No	---	---	0-2
RhB: REAVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Reaville	No	Hill on valley	---	90
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Penn	No	---	---	0-4
	(I) Joanna	No	---	---	0-2
Ro: ROWLAND SILT LOAM	(C) Rowland	No	Valley flat on hills	---	95
	(I) Bowmansville	Yes	Depression	2B3	0-5
Ru: RUBBLE LAND	(C) Rubbleland	No	Hill	---	95
ThA: THORNDALE-PENLAW SILT LOAMS, 0 TO 3 PERCENT SLOPES	(C) Thorndale	Yes	Depression on valley	2B3	55
	(C) Penlaw	No	Depression on valley	---	40
	(I) Clarksburg	No	---	---	0-5
ToA: TOWHEE SILT LOAM, 0 TO 3 PERCENT SLOPES	(C) Towhee	Yes	Depression on hills	2B3	90
ToB: TOWHEE SILT LOAM, 3 TO 8 PERCENT SLOPES	(C) Towhee	Yes	Depression on hills	2B3	90
	(I) Mount Lucas	No	---	---	0-5
TwB: TOWHEE SILT LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY	(C) Towhee	Yes	Depression on hills	2B3	90
	(I) Mount Lucas	No	---	---	0-5
Ua: UDORTHENTS	(C) Udorthents	No	Hill on mountains Ridge on mountains Valley on mountains	---	95
UgB: URBAN LAND, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	Ridge on mountains Valley on mountains Hill on mountains	---	85
UgC: URBAN LAND, 8 TO 15 PERCENT	(C) Urban Land	No	Valley on	---	85

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
SLOPES			mountains Ridge on mountains Hill on mountains		
UkB: URBAN LAND-BERKS COMPLEX, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Berks	No	Hill on valley	---	25
	(I) Brinkerton	Yes	Depression	2B3	0-5
	(I) Comly	No	---	---	0-5
UkD: URBAN LAND-BERKS COMPLEX, 8 TO 25 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Berks	No	Hill on valley	---	25
	(I) Brinkerton	Yes	Depression	2B3	0-5
	(I) Comly	No	---	---	0-5
UmB: URBAN LAND-DUFFIELD COMPLEX, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Duffield	No	Valley on hills	---	25
	(I) Clarksburg	No	---	---	0-4
	(I) Penlaw	No	---	---	0-4
	(I) Thorndale	No	---	---	0-2
UmD: URBAN LAND-DUFFIELD COMPLEX, 8 TO 25 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Duffield	No	Valley on hills	---	25
	(I) Clarksburg	No	---	---	0-4
	(I) Penlaw	No	---	---	0-4
	(I) Thorndale	No	---	---	0-2
UnB: URBAN LAND-GLADSTONE COMPLEX, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Gladstone	No	Ridge on hills	---	25
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
UnD: URBAN LAND-GLADSTONE COMPLEX, 8 TO 25 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Gladstone	No	Ridge on hills	---	25
	(I) Glenville	No	---	---	0-5
	(I) Towhee	No	---	---	0-5
UpB: URBAN LAND-JOANNA COMPLEX, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Joanna	No	Ridge on hills	---	25

Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Readington	No	---	---	0-4
	(I) Abbottstown	No	---	---	0-2
UpD: URBAN LAND-JOANNA COMPLEX, 8 TO 25 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Joanna	No	Ridge on hills	---	25
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Readington	No	---	---	0-4
	(I) Abbottstown	No	---	---	0-2
UsB: URBAN LAND-LAIDIG COMPLEX, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Laidig	No	Hill on mountains	---	25
	(I) Andover	Yes	Drainageway	2B3	0-5
UsD: URBAN LAND-LAIDIG COMPLEX, 8 TO 25 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Laidig	No	Hill on mountains	---	25
	(I) Andover	Yes	Drainageway	2B3	0-5
	(I) Buchanan	No	---	---	0-5
UxB: URBAN LAND-PENN COMPLEX, 0 TO 8 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Penn	No	Hill on valley	---	25
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Readington	No	---	---	0-4
	(I) Reaville	No	---	---	0-2
UxD: URBAN LAND-PENN COMPLEX, 8 TO 25 PERCENT SLOPES	(C) Urban Land	No	---	---	65
	(C) Penn	No	Hill on valley	---	25
	(I) Croton	Yes	Depression	2B3	0-4
	(I) Readington	No	---	---	0-4
	(I) Reaville	No	---	---	0-2
W: WATER	(C) Water	Unranked	---	---	99
WeB: WEIKERT-BERKS COMPLEX, 3 TO 8 PERCENT SLOPES	(C) Weikert	No	Hill on valley	---	50
	(C) Berks	No	Hill on valley	---	40
	(I) Brinkerton	Yes	Depression	2B3	0-5
	(I) Comly	No	---	---	0-5
WeD: WEIKERT-BERKS COMPLEX, 15 TO 25 PERCENT SLOPES	(C) Weikert	No	Hill on valley	---	50



Map symbol and map unit name	(C) Component (I) Inclusion	Hydric Status	Local Landform	Hydric criteria met (code)	Comp. Pct.
	(C) Berks	No	Hill on valley	---	40
	(I) Brinkerton	Yes	Depression	2B3	0-5
	(I) Comly	No	---	---	0-5