

62B—Mardin channery silt loam, 2 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2rwbx Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Mardin and similar soils: 88 percent Minor components: 12 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Mardin

Setting

Landform: Till plains

Landform position (two-dimensional): Summit, backslope Landform position (three-dimensional): Crest, side slope

Down-slope shape: Linear

Across-slope shape: Convex, linear Parent material: Loamy basal till

Typical profile

Ap - 0 to 10 inches: channery silt loam
Bw - 10 to 17 inches: channery silt loam
E - 17 to 20 inches: channery silt loam
Bx1 - 20 to 49 inches: very flaggy silt loam
Bx2 - 49 to 65 inches: very channery silt loam

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 14 to 26 inches to fragipan Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately high (0.00 to 0.20 in/hr) Depth to water table: About 12 to 19 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: D Hydric soil rating: No

Minor Components

Volusia

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Footslope, summit Landform position (three-dimensional): Base slope, side slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Bath

Percent of map unit: 5 percent

Landform: Drumlinoid ridges, hills, till plains Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Crest, side slope

Down-slope shape: Convex, concave Across-slope shape: Convex, linear

Hydric soil rating: No

Lordstown

Percent of map unit: 2 percent

Landform: Ridges

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Side slope

Down-slope shape: Convex, concave

Across-slope shape: Linear Hydric soil rating: No

Data Source Information

75A—Alden silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2rw9s Elevation: 160 to 2,460 feet

Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Alden and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Alden

Setting

Landform: Depressions

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Concave Across-slope shape: Concave

Parent material: A silty mantle of local deposition overlying loamy

till

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 8 inches: silt loam Bg1 - 8 to 14 inches: silt loam

Bg2 - 14 to 32 inches: channery silt loam C - 32 to 60 inches: channery loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.60 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None Frequency of ponding: Frequent

Calcium carbonate, maximum in profile: 3 percent

Available water storage in profile: Moderate (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: C/D

Hydric soil rating: Yes

Minor Components

Chippewa

Percent of map unit: 5 percent

Landform: Depressions

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Concave Across-slope shape: Concave

Hydric soil rating: Yes

Canandaigua

Percent of map unit: 5 percent

Landform: Depressions

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave, linear

Hydric soil rating: Yes

Data Source Information

79B—Mongaup-Hawksnest complex, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2rwb7 Elevation: 1,390 to 3,610 feet

Mean annual precipitation: 32 to 70 inches Mean annual air temperature: 39 to 48 degrees F

Frost-free period: 110 to 155 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Mongaup and similar soils: 50 percent Hawksnest and similar soils: 35 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Mongaup

Setting

Landform: Ridges

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Crest, side slope

Down-slope shape: Convex, concave

Across-slope shape: Linear

Parent material: Loamy till derived from sandstone and siltstone

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 3 inches: channery silt loam

Bw - 3 to 10 inches: very channery silt loam BC - 10 to 21 inches: very channery silt loam 2C - 21 to 31 inches: very channery loam

2R - 31 to 41 inches: bedrock

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately high (0.00 to 1.42 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B

Hydric soil rating: No

Description of Hawksnest

Setting

Landform: Hills, ridges, benches

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Crest, side slope

Down-slope shape: Convex, concave Across-slope shape: Convex, linear

Parent material: Loamy till derived mainly from acid sandstone,

siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 2 inches: silt loam
BE - 2 to 5 inches: silt loam
Bw1 - 5 to 10 inches: silt loam

Bw2 - 10 to 18 inches: channery silt loam

2R - 18 to 28 inches: bedrock

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately high (0.00 to 1.42 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: D Hydric soil rating: No

Minor Components

Willdin

Percent of map unit: 10 percent

Landform: Hills

Landform position (two-dimensional): Summit, backslope Landform position (three-dimensional): Crest, side slope

Down-slope shape: Linear

Across-slope shape: Convex, linear

Hydric soil rating: No

Tuller, cool

Percent of map unit: 5 percent Landform: Hills, ridges, benches

Landform position (two-dimensional): Footslope, summit Landform position (three-dimensional): Base slope, side slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Data Source Information

79C—Mongaup channery silt loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2rwb9 Elevation: 1,390 to 3,610 feet

Mean annual precipitation: 32 to 70 inches Mean annual air temperature: 39 to 48 degrees F

Frost-free period: 110 to 155 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Mongaup and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Mongaup

Setting

Landform: Ridges

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Crest, side slope

Down-slope shape: Linear, concave

Across-slope shape: Linear

Parent material: Loamy till derived from sandstone and siltstone

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 3 inches: channery silt loam

Bw - 3 to 10 inches: very channery silt loam

BC - 10 to 21 inches: very channery silt loam

2C - 21 to 31 inches: very channery loam

2R - 31 to 41 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately high (0.00 to 1.42 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B Hydric soil rating: No

Minor Components

Willdin

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Summit, backslope Landform position (three-dimensional): Crest, side slope

Down-slope shape: Linear

Across-slope shape: Convex, linear

Hydric soil rating: No

Hawksnest

Percent of map unit: 5 percent Landform: Benches, hills, ridges

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Crest, side slope

Down-slope shape: Convex, concave Across-slope shape: Convex, linear

Hydric soil rating: No

Data Source Information

162D—Willdin channery silt loam, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2wblt Elevation: 1,390 to 3,610 feet

Mean annual precipitation: 32 to 70 inches Mean annual air temperature: 39 to 48 degrees F

Frost-free period: 110 to 155 days

Farmland classification: Not prime farmland

Map Unit Composition

Willdin and similar soils: 80 percent Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Willdin

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, side slope,

head slope

Down-slope shape: Concave Across-slope shape: Linear

Parent material: Brownish loamy till derived from sandstone and

siltstone

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 16 inches: channery silt loam
E - 16 to 20 inches: channery silt loam
Bx - 20 to 57 inches: channery loam
C - 57 to 72 inches: very channery silt loam

Properties and qualities

Slope: 15 to 25 percent

Percent of area covered with surface fragments: 0.0 percent Depth to restrictive feature: 16 to 26 inches to fragipan

Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.14 in/hr) Depth to water table: About 13 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: D Hydric soil rating: No

Minor Components

Lewbath

Percent of map unit: 10 percent Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, nose slope,

side slope

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Mongaup

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Convex

Hydric soil rating: No

Ontusia

Percent of map unit: 5 percent Landform: Hills, mountains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Mountainbase, side slope,

interfluve

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Data Source Information

171D—Lordstown channery silt loam, 15 to 25 percent slopes, very stony

Map Unit Setting

National map unit symbol: 2wzm6 Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Lordstown, very stony, and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Lordstown, Very Stony

Setting

Landform: Mountains, hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, nose slope,

side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Loamy till derived from sandstone and siltstone

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 5 inches: channery highly organic silt loam

Bw1 - 5 to 17 inches: channery silt loam
Bw2 - 17 to 24 inches: very channery silt loam
C - 24 to 30 inches: extremely channery silt loam

2R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 15 to 25 percent

Percent of area covered with surface fragments: 1.6 percent Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm) Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: C Hydric soil rating: No

Minor Components

Cadosia, very stony

Percent of map unit: 10 percent

Landform: Ridges

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Arnot, very stony

Percent of map unit: 5 percent Landform: Mountains, hills

Landform position (two-dimensional): Shoulder, backslope, summit

Landform position (three-dimensional): Mountaintop,

mountainflank, crest, nose slope, interfluve

Down-slope shape: Convex

Across-slope shape: Linear, convex

Hydric soil rating: No

Bath, very stony

Percent of map unit: 5 percent Landform: Mountains, hills

Landform position (two-dimensional): Backslope, summit, shoulder

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex, concave Across-slope shape: Convex, linear

Hydric soil rating: No

Data Source Information

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow

Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot

Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

120

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

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Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cortland County, New York Survey Area Data: Version 17, Sep 2, 2018

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Aug 29, 2012—Sep 27, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| 62B | Mardin channery silt loam, 2 to 8 percent slopes | 3.3 | 8.1% |
| 75A | Alden silt loam, 0 to 3 percent slopes | 1.9 | 4.7% |
| 79B | Mongaup-Hawksnest complex, 3 to 8 percent slopes | 14.9 | 36.0% |
| 79C | Mongaup channery silt loam, 8 to 15 percent slopes | 17.6 | 42.6% |
| 162D | Willdin channery silt loam, 15 to 25 percent slopes | 2.6 | 6.3% |
| 171D | Lordstown channery silt loam, 15 to 25 percent slopes, very stony | 1.0 | 2.4% |
| Totals for Area of Interest | | 41.3 | 100.0% |