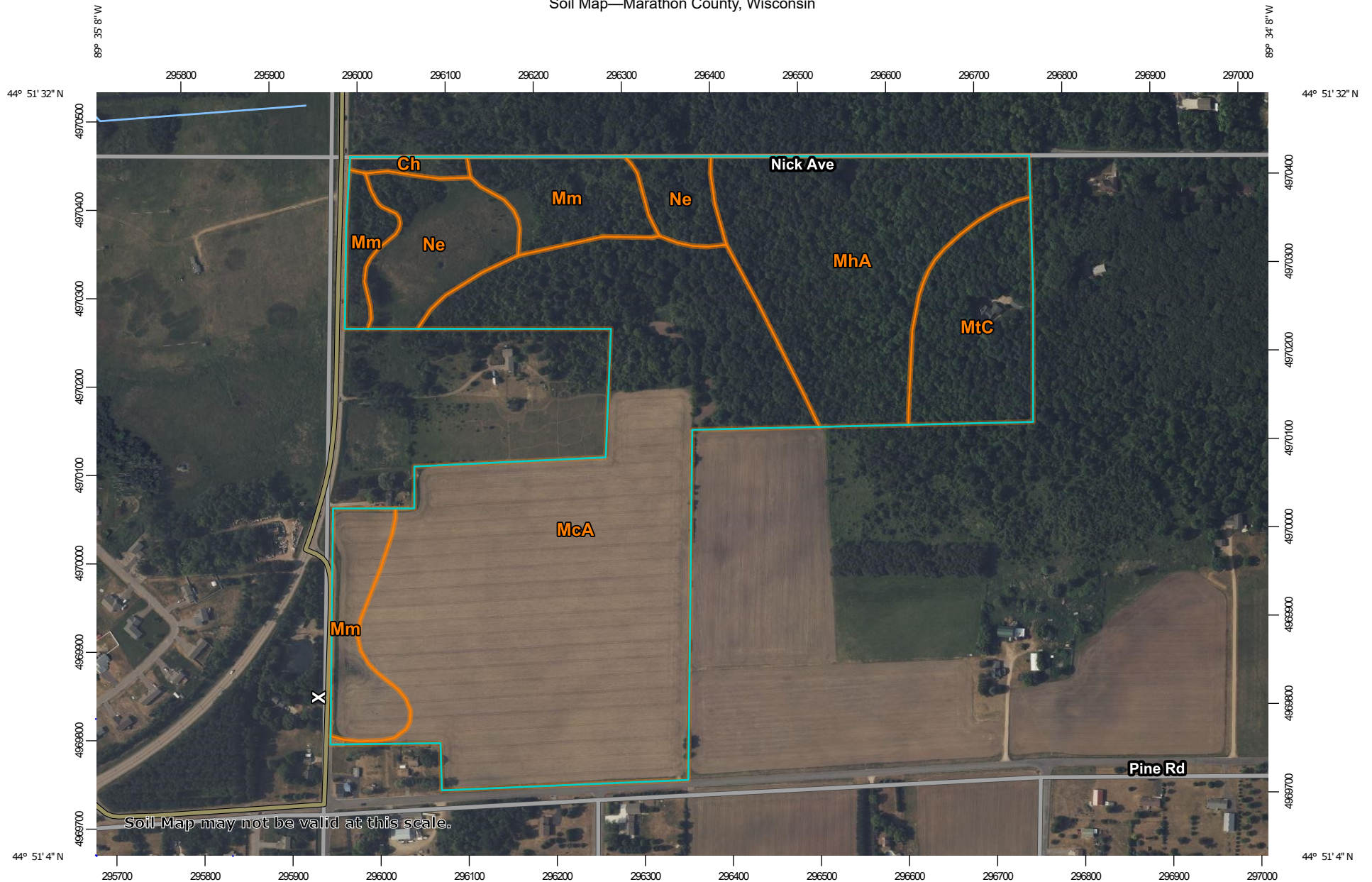
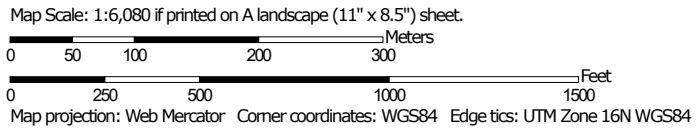


Soil Map—Marathon County, Wisconsin



Soil Map may not be valid at this scale.




## 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



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



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 1:20,000.

**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: Marathon County, Wisconsin

Survey Area Data: Version 22, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 7, 2023—Jun 8, 2023

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
Ch	Cathro muck, 0 to 1 percent slopes	0.7	0.8%
McA	Mahtomedi loamy sand, moderately well drained, 0 to 3 percent slopes	45.1	52.4%
MhA	Meadland loam, 0 to 3 percent slopes, stony	16.4	19.1%
Mm	Meehan loamy sand, 0 to 2 percent slopes	9.3	10.8%
MtC	Mosinee sandy loam, 2 to 15 percent slopes, stony	7.4	8.5%
Ne	Newson mucky loamy sand, river valley, 0 to 1 percent slopes	7.2	8.4%
<b>Totals for Area of Interest</b>		<b>86.0</b>	<b>100.0%</b>

## Marathon County, Wisconsin

### Ch—Cathro muck, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* ggvn

*Elevation:* 600 to 1,400 feet

*Mean annual precipitation:* 28 to 36 inches

*Mean annual air temperature:* 39 to 48 degrees F

*Frost-free period:* 120 to 170 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Cathro and similar soils:* 100 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Cathro

##### Setting

*Landform:* Depressions on lake plains, depressions on outwash plains, drainageways on ground moraines, drainageways on lake plains, drainageways on outwash plains, depressions on ground moraines

*Landform position (two-dimensional):* Toeslope

*Down-slope shape:* Concave, linear

*Across-slope shape:* Concave

*Parent material:* Organic material over silty or loamy drift

##### Typical profile

*Oe - 0 to 5 inches:* muck

*Oa1-Oa3 - 5 to 28 inches:* muck

*C1,C2 - 28 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Very poorly drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to high (0.14 to 1.98 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* None

*Frequency of ponding:* Frequent

*Calcium carbonate, maximum content:* 25 percent

*Available water supply, 0 to 60 inches:* Very high (about 16.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* B/D

*Ecological site:* F090BY002WI - Mucky Swamp

*Forage suitability group:* Not suited, flooded or organics  
(G090BY010WI)

*Other vegetative classification:* Not suited, flooded or organics  
(G090BY010WI), Picea mariana-Larix laricina/Ledum  
groenlandicum(Aronia melancarpa variant) , Black Spruce-  
Tamarack/Labrador Tea(BlackChokeberry variant) (5PmLLe-  
An)

*Hydric soil rating:* Yes

## Data Source Information

Soil Survey Area: Marathon County, Wisconsin

Survey Area Data: Version 22, Sep 3, 2024

## Marathon County, Wisconsin

### McA—Mahtomedi loamy sand, moderately well drained, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2xk6w

*Elevation:* 670 to 1,600 feet

*Mean annual precipitation:* 28 to 36 inches

*Mean annual air temperature:* 39 to 48 degrees F

*Frost-free period:* 120 to 170 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Mahtomedi, moderately well drained, and similar soils:* 100 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Mahtomedi, Moderately Well Drained

##### Setting

*Landform:* Outwash plains, stream terraces

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy outwash

##### Typical profile

*Ap - 0 to 7 inches:* loamy sand

*Bw1 - 7 to 19 inches:* loamy coarse sand

*Bw2 - 19 to 26 inches:* gravelly coarse sand

*C - 26 to 60 inches:* gravelly sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)

*Depth to water table:* About 42 to 60 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Low (about 3.8 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4s

*Hydrologic Soil Group:* A

*Ecological site:* F090BY013WI - Sandy Upland



*Forage suitability group:* Low AWC, adequately drained  
(G090BY002WI)

*Other vegetative classification:* Low AWC, adequately drained  
(G090BY002WI), Pinus strobus - Acer rubrum / Vaccinium  
angustifolium - Amphicarpa bracteata , Eastern White Pine -  
Red Maple / Low Sweet Blueberry - Hog-peanut (PARVAm),  
Pinus strobus - Quercus spp. / Gaultheria procumbens -  
Ceanothus americanus , Eastern White Pine - Oak spp. /  
Wintergreen - New Jersey Tea (PQGGe)

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Marathon County, Wisconsin

Survey Area Data: Version 22, Sep 3, 2024

## Marathon County, Wisconsin

### MhA—Meadland loam, 0 to 3 percent slopes, stony

#### Map Unit Setting

*National map unit symbol:* ggwy

*Elevation:* 800 to 1,950 feet

*Mean annual precipitation:* 28 to 36 inches

*Mean annual air temperature:* 39 to 48 degrees F

*Frost-free period:* 120 to 170 days

*Farmland classification:* Prime farmland if drained

#### Map Unit Composition

*Meadland and similar soils:* 98 percent

*Minor components:* 2 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Meadland

##### Setting

*Landform:* Ground moraines

*Landform position (two-dimensional):* Footslope

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Loamy drift over loamy till and/or loamy residuum weathered from igneous and metamorphic rock

##### Typical profile

*A,E - 0 to 5 inches:* loam

*Bs,B/E - 5 to 15 inches:* sandy loam

*Bt - 15 to 25 inches:* loam

*C - 25 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Surface area covered with cobbles, stones or boulders:* 0.1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Somewhat poorly drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to high (0.14 to 1.98 in/hr)

*Depth to water table:* About 6 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Moderate (about 8.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3s

*Hydrologic Soil Group:* B/D



*Ecological site:* F090BY011WI - Moist Loamy Lowland  
*Forage suitability group:* Mod AWC, high water table (G090BY004WI)  
*Other vegetative classification:* Mod AWC, high water table (G090BY004WI), *Tsuga canadensis* / *Maianthemum canadense* - *Coptis groenlandica* , Eastern Hemlock / Wild Lily-of-the-valley - Goldthread (TMC)  
*Hydric soil rating:* No

### Minor Components

#### Dancy

*Percent of map unit:* 1 percent  
*Landform:* Depressions  
*Ecological site:* F090BY006WI - Wet Loamy Lowland  
*Other vegetative classification:* *Fraxinus nigra*-*Acer rubrum*/  
*Impatiens capensis*(*Ilex verticillata* variant) , Black Ash-Red Maple/Spotted Touch-me-not(Winterberry variant) (5FnArl-Ix)  
*Hydric soil rating:* Yes

#### Sherry

*Percent of map unit:* 1 percent  
*Landform:* Depressions  
*Ecological site:* F090BY006WI - Wet Loamy Lowland  
*Other vegetative classification:* *Fraxinus nigra*-*Acer rubrum*/  
*Impatiens capensis*(*Ilex verticillata* variant) , Black Ash-Red Maple/Spotted Touch-me-not(Winterberry variant) (5FnArl-Ix)  
*Hydric soil rating:* Yes

## Data Source Information

Soil Survey Area: Marathon County, Wisconsin  
Survey Area Data: Version 22, Sep 3, 2024

## Marathon County, Wisconsin

### Mm—Meehan loamy sand, 0 to 2 percent slopes

#### Map Unit Setting

*National map unit symbol:* ggwz  
*Elevation:* 670 to 1,950 feet  
*Mean annual precipitation:* 28 to 36 inches  
*Mean annual air temperature:* 39 to 48 degrees F  
*Frost-free period:* 120 to 170 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Meehan and similar soils:* 99 percent  
*Minor components:* 1 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Meehan

##### Setting

*Landform:* Outwash plains, stream terraces  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy outwash

##### Typical profile

*Ap - 0 to 10 inches:* loamy sand  
*Bw1,Bw2,BC - 10 to 30 inches:* sand  
*C - 30 to 60 inches:* sand

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Somewhat poorly drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)  
*Depth to water table:* About 6 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 4.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Ecological site:* F090BY009WI - Moist Sandy Upland  
*Forage suitability group:* Low AWC, high water table (G090BY001WI)

*Other vegetative classification:* Low AWC, high water table  
(G090BY001WI), Acer rubrum - Abies balsamea / Vaccinium  
angustifolium - Coptis groenlandica , Red Maple Balsam Fir/  
Low Sweet Blueberry - Goldthread (ArAbVC), Acer rubrum /  
Vaccinium angustifolium - Rubus pubescens , Red Maple / Low  
Sweet Blueberry - Dwarf raspberry (ArVRp)  
*Hydric soil rating:* No

### **Minor Components**

#### **Newson**

*Percent of map unit:* 1 percent  
*Landform:* Depressions  
*Ecological site:* F090BY005WI - Wet Sandy Lowland  
*Other vegetative classification:* Pinus strobus-Acer rubrum/  
Gaylussacia baccata , Eastern White Pine-Red Maple/Black  
Huckleberry (5PArGy)  
*Hydric soil rating:* Yes

## **Data Source Information**

Soil Survey Area: Marathon County, Wisconsin  
Survey Area Data: Version 22, Sep 3, 2024

## Marathon County, Wisconsin

### MtC—Mosinee sandy loam, 2 to 15 percent slopes, stony

#### Map Unit Setting

*National map unit symbol:* ggx6  
*Elevation:* 800 to 1,950 feet  
*Mean annual precipitation:* 28 to 36 inches  
*Mean annual air temperature:* 39 to 48 degrees F  
*Frost-free period:* 120 to 170 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Mosinee and similar soils:* 100 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Mosinee

##### Setting

*Landform:* Hills  
*Landform position (two-dimensional):* Shoulder, backslope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Loamy drift over shattered bedrock igneous and/or metamorphic

##### Typical profile

*A - 0 to 7 inches:* sandy loam  
*Bw1,Bw2 - 7 to 18 inches:* gravelly sandy loam  
*Bw3,Bw4 - 18 to 41 inches:* gravelly sandy loam  
*R - 41 to 60 inches:* bedrock

##### Properties and qualities

*Slope:* 2 to 15 percent  
*Surface area covered with cobbles, stones or boulders:* 0.1 percent  
*Depth to restrictive feature:* 40 to 60 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to high (0.00 to 5.95 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 4.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* F090BY014WI - Loamy Bedrock Upland

*Forage suitability group:* Mod AWC, adequately drained  
(G090BY005WI)

*Other vegetative classification:* Mod AWC, adequately drained  
(G090BY005WI), Acer saccharum / Viburnum acerifolium ,  
Sugar Maple / Maple-leaved Viburnum (AVb)

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Marathon County, Wisconsin

Survey Area Data: Version 22, Sep 3, 2024

## Marathon County, Wisconsin

### Ne—Newson mucky loamy sand, river valley, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2xxj2  
*Elevation:* 1,080 to 1,430 feet  
*Mean annual precipitation:* 28 to 36 inches  
*Mean annual air temperature:* 39 to 48 degrees F  
*Frost-free period:* 120 to 170 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Newson and similar soils:* 80 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Newson

##### Setting

*Landform:* Stream terraces, valley trains  
*Landform position (three-dimensional):* Tread, talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy outwash

##### Typical profile

*Oe - 0 to 3 inches:* mucky peat  
*Oa - 3 to 5 inches:* muck  
*A - 5 to 7 inches:* mucky loamy sand  
*Bg - 7 to 15 inches:* loamy sand  
*BCg - 15 to 26 inches:* sand  
*Cg - 26 to 79 inches:* sand

##### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Poorly drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.20 to 6.00 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Low (about 5.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* A/D  
*Ecological site:* F090BY005WI - Wet Sandy Lowland  
*Forage suitability group:* Low AWC, high water table  
(G090BY001WI)  
*Other vegetative classification:* Low AWC, high water table  
(G090BY001WI), Larix laricina-Acer rubrum/Ilex verticillata ,  
Tamarack-Red Maple/Winterberry (1LARlx)  
*Hydric soil rating:* Yes

## Minor Components

### Meehan

*Percent of map unit:* 10 percent  
*Landform:* Stream terraces, valley trains  
*Landform position (three-dimensional):* Tread, talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* F090BY009WI - Moist Sandy Upland  
*Other vegetative classification:* Low AWC, high water table  
(G095AY001WI), Acer rubrum - Abies balsamea / Vaccinium  
angustifolium - Coptis groenlandica , Red Maple Balsam Fir/  
Low Sweet Blueberry - Goldthread (ArAbVC), Acer rubrum /  
Vaccinium angustifolium - Rubus pubescens , Red Maple / Low  
Sweet Blueberry - Dwaf raspberry (ArVRp)  
*Hydric soil rating:* No

### Dancy

*Percent of map unit:* 5 percent  
*Landform:* Stream terraces, valley trains  
*Landform position (three-dimensional):* Tread, talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* F090BY006WI - Wet Loamy Lowland  
*Other vegetative classification:* Mod AWC, high water table  
(G090BY004WI), Fraxinus nigra-Acer rubrum/Impatiens  
capensis(Ilex verticillata variant) , Black Ash-Red Maple/  
Spotted Touch-me-not(Winterberry variant) (5FnArl-Ix)  
*Hydric soil rating:* Yes

### Markey

*Percent of map unit:* 5 percent  
*Landform:* Valley trains  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* F090BY002WI - Mucky Swamp  
*Other vegetative classification:* Not suited, flooded or organics  
(G090AY010WI), Picea mariana-Larix laricina/Ledum  
groenlandicum(Aronia melancarpa variant) , Black Spruce-  
Tamarack/Labrador Tea(BlackChokeberry variant) (5PmLLe-  
An)



*Hydric soil rating: Yes*

## **Data Source Information**

Soil Survey Area: Marathon County, Wisconsin  
Survey Area Data: Version 22, Sep 3, 2024