# **Aitkin County, Minnesota**

# 504C—Duluth fine sandy loam, 6 to 12 percent slopes

# **Map Unit Setting**

National map unit symbol: gjh8 Elevation: 980 to 1,640 feet

Mean annual precipitation: 25 to 30 inches Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Farmland of statewide importance

# **Map Unit Composition**

Duluth and similar soils: 85 percent *Minor components:* 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

### **Description of Duluth**

#### Setting

Landform: Moraines

Landform position (two-dimensional): Backslope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy till

# **Typical profile**

A - 0 to 3 inches: fine sandy loam E,Bw,2BE,2Bt - 3 to 49 inches: clay loam

2C - 49 to 60 inches: loam

#### **Properties and qualities**

Slope: 6 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well 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: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Available water supply, 0 to 60 inches: High (about 10.2 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: F090AY015WI - Loamy Upland with Carbonates Forage suitability group: Sloping Upland, Acid (G090AN006MN)

Other vegetative classification: Sloping Upland, Acid

(G090AN006MN)

Hydric soil rating: No

## **Minor Components**

#### **Blackhoof**

Percent of map unit: 3 percent Landform: Depressions Hydric soil rating: Yes

#### Mahtowa

Percent of map unit: 3 percent Landform: Depressions Hydric soil rating: Yes

#### Rifle

Percent of map unit: 3 percent Landform: Bogs Hydric soil rating: Yes

#### Cromwell

Percent of map unit: 2 percent Hydric soil rating: No

## Cutaway

Percent of map unit: 2 percent Hydric soil rating: No

## **Dusler**

Percent of map unit: 2 percent Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 24, Sep 9, 2023