

Missoula County Area, Montana

7—Minesinger-Bigarm complex, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 4wd7

Elevation: 2,600 to 5,500 feet

Mean annual precipitation: 14 to 19 inches

Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 90 to 120 days

Farmland classification: Farmland of local importance

Map Unit Composition

Minesinger and similar soils: 50 percent

Bigarm and similar soils: 45 percent

Minor components: 5 percent

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

Description of Minesinger

Setting

Landform: Hills

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Tertiary slope alluvium

Typical profile

A1 - 0 to 6 inches: gravelly loam

A2 - 6 to 13 inches: cobbly loam

Bt - 13 to 24 inches: very gravelly clay

Bk - 24 to 60 inches: very gravelly clay loam

Properties and qualities

Slope: 0 to 4 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 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 8 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R044AA036MT - Droughty (Dr) LRU 44A-A

Hydric soil rating: No

Description of Bigarm

Setting

Landform: Hills

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Tertiary slope alluvium

Typical profile

A1 - 0 to 11 inches: gravelly loam

A2 - 11 to 15 inches: very gravelly loam

Bw - 15 to 40 inches: very gravelly sandy loam

C - 40 to 60 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 0 to 4 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 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 5.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R043BP818MT - Upland Grassland Group

Hydric soil rating: No

Minor Components

Larry

Percent of map unit: 5 percent

Landform: Drainageways

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R046XC518MT - Wet Meadow (WM) RRU 46-C
15-19 PZ

Hydric soil rating: No

Data Source Information

Soil Survey Area: Missoula County Area, Montana

Survey Area Data: Version 21, Aug 29, 2023