

## Simplifying the Soil Map Unit, the Soil Map Unit Symbol, and the Soil Map Unit Description (MUD)

### Soil Map Unit:

#### Hackers silt loam, 0 to 3% slopes, rarely flooded:

1 major component (Hackers); minor components (making up less than 15% of the map unit), also called inclusions, are **NOT** shown in the map unit name

#### Gilpin-Upshur silt loams, 8 to 15% slopes:

2 major components (Gilpin and Upshur); the major component making up the larger percent of the map unit (Gilpin) is listed first; minor components (making up less than 15% of the map unit), also called inclusions, are **NOT** shown in the map unit name

The map unit name consists of the soil series name, the slope phase (range of slopes within the map unit), and may or may not include another descriptive phase of the map unit (i.e. severely eroded, rarely flooded, extremely stony)

Map Unit Name
Gilpin-Upshur silt loams, 8 to 15 percent slopes
Gilpin-Upshur silt loams, 15 to 25 percent slopes
Gilpin-Upshur silt loams, 25 to 35 percent slopes
Gilpin-Upshur silt loams, 35 to 70 percent slopes, severely eroded
Hackers silt loam, 0 to 3 percent slopes, rarely flooded

## Soil Map Unit symbol:

### GuC:

The first 2 letters represent the soil name or names; the 3rd letter represents the slope phase; for eroded phases, a number may be added to the symbol (i.e. GwF3)

The map unit symbols are used predominantly on the soil map of the selected area and help de-clutter the map by using symbols instead of the full name. They are in the Soil Map Legend next to their corresponding Soil Map Unit name.

## Map Unit Legend

Map Unit Symbol	Map Unit Name
GuC	Gilpin-Upshur silt loams, 8 to 15 percent slopes
GuD	Gilpin-Upshur silt loams, 15 to 25 percent slopes
GuE	Gilpin-Upshur silt loams, 25 to 35 percent slopes
GwF3	Gilpin-Upshur silt loams, 35 to 70 percent slopes, severely eroded
Ha	Hackers silt loam, 0 to 3 percent slopes, rarely flooded

Soil map units containing nearly level slopes (0 to 3 percent) may or may not contain a third letter symbol (Ha).

## Map Unit Descriptions:

Located in the Soil Resource Report following the Map Legend; in alphabetical order as in the Map Legend

The complete MUD is shown below:

### **GuC—Gilpin-Upshur silt loams, 8 to 15 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* k8pr

*Mean annual precipitation:* 43 to 57 inches

*Mean annual air temperature:* 39 to 64 degrees F

*Frost-free period:* 150 to 176 days

*Farmland classification:* Farmland of statewide importance

#### **Map Unit Composition**

*Gilpin and similar soils:* 55 percent

*Upshur and similar soils:* 35 percent

*Minor components:* 10 percent

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

#### **Description of Gilpin**

##### **Setting**

*Landform:* Hillslopes

*Landform position (two-dimensional):* Summit, shoulder, backslope

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

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Fine-loamy residuum weathered from shale and siltstone

##### **Typical profile**

*Ap - 0 to 7 inches:* silt loam

*Bt - 7 to 27 inches:* silt loam

*BC - 27 to 30 inches:* channery silt loam

*Cr - 30 to 34 inches:* unweathered bedrock

##### **Properties and qualities**

*Slope:* 8 to 15 percent

*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock

*Natural drainage class:* Well drained

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

Moderately high (0.20 to 0.57 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 4.1 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3e

*Hydrologic Soil Group:* C

*Other vegetative classification:* Acid Loams (AL3)

*Hydric soil rating:* No

#### **Description of Upshur**

##### **Setting**

*Landform:* Hillslopes  
*Landform position (two-dimensional):* Summit, shoulder  
*Landform position (three-dimensional):* Crest, nose slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Clayey residuum weathered from interbedded sedimentary rock

**Typical profile**

*Ap - 0 to 5 inches:* silt loam  
*Bt+BC - 5 to 39 inches:* silty clay  
*C - 39 to 65 inches:* silty clay loam  
*Cr - 65 to 75 inches:*

**Properties and qualities**

*Slope:* 8 to 15 percent  
*Depth to restrictive feature:* 40 to 69 inches to paralithic bedrock  
*Natural 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  
*Available water storage in profile:* Moderate (about 6.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Hydric soil rating:* No

**Minor Components**

**Other soils**

*Percent of map unit:* 10 percent  
*Hydric soil rating:* No

What the MUD consists of, part by part:

First, find the soil map unit name or symbol:

**GuC—Gilpin-Upshur silt loams, 8 to 15 percent slopes**

1. After the map unit symbol and map unit name

**Map Unit Setting**

*National map unit symbol:* k8pr  
*Mean annual precipitation:* 43 to 57 inches  
*Mean annual air temperature:* 39 to 64 degrees F  
*Frost-free period:* 150 to 176 days  
*Farmland classification:* Farmland of statewide importance

**Map Unit Composition**

*Gilpin and similar soils:* 55 percent  
*Upshur and similar soils:* 35 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**\*Map unit setting:** general information, note the farmland classification

**\*Map unit composition:** percentages of major and minor components

2. Component descriptions

**Description of Gilpin**

**Setting**

*Landform:* Hillslopes

*Landform position (two-dimensional):* Summit, shoulder, backslope

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

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Fine-loamy residuum weathered from shale and siltstone

**Typical profile**

*Ap - 0 to 7 inches:* silt loam

*Bt - 7 to 27 inches:* silt loam

*BC - 27 to 30 inches:* channery silt loam

*Cr - 30 to 34 inches:* unweathered bedrock

**\*Setting:** location of this component on the landscape; type of parent material

**\*Typical profile:** depth and thicknesses of major horizons, including bedrock (if encountered)

3. Properties and Qualities

**Properties and qualities**

***Slope:*** 8 to 15 percent

***Depth to restrictive feature:*** 20 to 40 inches to paralithic bedrock

***Natural drainage class:*** Well drained

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

Moderately high (0.20 to 0.57 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 4.1 inches)

**\*Properties and qualities:** important for different uses; a good place to find the limitations for use

**Interpretive groups**

***Land capability classification (irrigated):*** None specified

***Land capability classification (nonirrigated):*** 3e

***Hydrologic Soil Group:*** C

***Other vegetative classification:*** Acid Loams (AL3)

***Hydric soil rating:*** No

**\*Interpretive groups:** important classifications and ratings

**If the map unit contains another major component, it will be listed next:**

## **Description of Upshur**

### **Setting**

*Landform:* Hillslopes

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Crest, nose slope

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Clayey residuum weathered from interbedded sedimentary rock

### **Typical profile**

*Ap - 0 to 5 inches:* silt loam

*Bt+BC - 5 to 39 inches:* silty clay

*C - 39 to 65 inches:* silty clay loam

*Cr - 65 to 75 inches:*

## 4. Properties and Qualities

### **Minor Components**

#### **Other soils**

*Percent of map unit:* 10 percent

*Hydric soil rating:* No

**\*Minor components:** may or may not be listed by soil name (hydric components usually named)