

# Major Land Resource Area 116B

## Springfield Plain

Accessed: 04/16/2026

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### Description

The Springfield Plain is in the western part of the Ozark Uplift. It is primarily a smooth plateau with some dissection along streams. Elevation is about 1,000 feet in the north to over 1,700 feet in the east along the Burlington escarpment adjacent to the Ozark Highlands. The underlying bedrock is mainly Mississippian-aged limestone, with areas of shale on lower slopes and structural benches, and intermittent Pennsylvanian-aged sandstone deposits on the plateau surface.

### Ecological site keys

#### MLRA 116B

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#### I. Upland Summits, Shoulders or Backslopes

##### A. Bedrock <20"

**1 SHALLOW LIMESTONE UPLAND GLADE/WOODLAND Limestone residuum ... R116BY024MO – Shallow Limestone Upland Glade/Woodland**

**2 SHALLOW SANDSTONE UPLAND GLADE/WOODLAND Sandstone residuum ... R116BY025MO – Shallow Sandstone Upland Glade/Woodland**

##### B. Bedrock >20"

##### 1 Mollisol or Mollic Subgroup

##### i. >12" loess

**a. CLAYPAN SUMMIT PRAIRIE Fragipan or claypan ... R116BY020MO – Claypan Summit Prairie**

**b. LOAMY UPLAND PRAIRIE No root restriction ... R116BY022MO – Loamy Upland Prairie**

##### ii. <12" loess

**a. CHERT UPLAND PRAIRIE Cherty limestone residuum ... R116BY021MO – Chert Upland Prairie**

**b. SANDSTONE/SHALE UPLAND PRAIRIE Sandstone/shale residuum ... R116BY023MO – Sandstone/Shale Upland Prairie**

##### 2 Alfisol or Ultisol (not in Mollic subgroups)

##### i. <15% slope

##### a. >12" loess

##### 1) Fragipan

**a) FRAGIPAN UPLAND FLATWOODS P, SWP Drained ... F116BY039MO – Fragipan Upland Flatwoods**

**b) FRAGIPAN UPLAND WOODLAND MW Drained ... F116BY001MO – Fragipan Upland Woodland**

2) **LOW-BASE LOAMY UPLAND WOODLAND No root restriction** ... F116BY005MO – Low-Base Loamy Upland Woodland

**b. <12" loess**

**1) Cherty limestone residuum**

**a) Alfisol**

(1) **CHERT LIMESTONE UPLAND WOODLAND Bedrock 20-60"** ... F116BY006MO – Chert Limestone Upland Woodland

(2) **CHERT UPLAND WOODLAND No root restriction** ... F116BY003MO – Chert Upland Woodland

**b) LOW-BASE CHERT UPLAND WOODLAND Ultisol** ... F116BY004MO – Low-Base Chert Upland Woodland

2) **DRY SANDSTONE UPLAND WOODLAND Sandstone residuum** ... F116BY007MO – Dry Sandstone Upland Woodland

**3) Interbedded shale, sandstone, mudstone residuum**

**a) INTERBEDDED SEDIMENTARY UPLAND WOODLAND Alfisol** ... F116BY008MO – Interbedded Sedimentary Upland Woodland

**b) LOW-BASE INTERBEDDED SEDIMENTARY UPLAND WOODLAND Ultisol** ... F116BY019MO – Low-Base Interbedded Sedimentary Upland Woodland

**ii. >15% slope**

**a. Cherty limestone residuum**

**1) Alfisol**

**a) Bedrock 20-60"**

(1) **CHERT LIMESTONE PROTECTED BACKSLOPE FOREST N, E aspects** ... F116BY011MO – Chert Limestone Protected Backslope Forest

(2) **CHERT LIMESTONE EXPOSED BACKSLOPE WOODLAND S, W aspects**

**b) No root restriction**

(1) **CHERT PROTECTED BACKSLOPE FOREST N, E aspects** ... F116BY009MO – Chert Protected Backslope Forest

(2) **CHERT EXPOSED BACKSLOPE WOODLAND S, W aspects** ... F116BY032MO – Chert Exposed Backslope Woodland

**2) Ultisol**

**a) LOW-BASE CHERT PROTECTED BACKSLOPE WOODLAND N, E aspects** ... F116BY010MO – Low-Base Chert Protected Backslope Woodland

**b) LOW-BASE CHERT EXPOSED BACKSLOPE WOODLAND S, W aspects** ... F116BY034MO – Chert Limestone Exposed Backslope Woodland

**b. Interbedded shale, sandstone, mudstone residuum**

- 1) **INTERBEDDED SEDIMENTARY PROTECTED BACKSLOPE FOREST N, E aspects** ... F116BY012MO  
– Interbedded Sedimentary Protected Backslope Forest
- 2) **INTERBEDDED SEDIMENTARY EXPOSED BACKSLOPE WOODLAND S, W aspects** ... F116BY036MO  
– Interbedded Sedimentary Exposed Backslope Woodland

## II. Footslopes

- A. **WET FOOTSLOPE PRAIRIE Mollisol or Mollic Subgroup** ... R116BY027MO – Wet Footslope Prairie
- B. **Alfisol**
  - 1 **DRY FOOTSLOPE WOODLAND Low AWC (skeletal, sandy, coarse-loamy)** ... F116BY016MO – Dry Footslope Woodland
  - 2 **LOAMY FOOTSLOPE WOODLAND Mod to High AWC (fine-loamy, fine-silty)** ... F116BY013MO – Loamy Footslope Woodland

## III. Upland Drainageways

- A. **GRAVELLY/LOAMY UPLAND DRAINAGEWAY WOODLAND MW, W, SWE drained** ... F116BY017MO – Gravelly/Loamy Upland Drainageway Woodland
- B. **WET UPLAND DRAINAGEWAY PRAIRIE SWP, P drained** ... R116BY037MO – Wet Upland Drainageway Prairie

## IV. Sinkholes

- A. **LOAMY SINKHOLE WOODLAND Well Drained** ... F116BY018MO – Loamy Sinkhole Woodland
- B. **PONDED SINKHOLE WETLAND Somewhat Poorly Drained** ... R116BY040MO – Poned Sinkhole Wetland

## V. Terraces and Floodplain Steps

- A. **LOAMY TERRACE SAVANNA Mollisol or Mollic Subgroup** ... R116BY026MO – Loamy Terrace Savanna
- B. **Alfisol**
  - 1 **LOAMY TERRACE WOODLAND Well Drained** ... F116BY015MO – Loamy Terrace Woodland
  - 2 **WET TERRACE WOODLAND SWP, P Drained** ... F116BY014MO – Wet Terrace Woodland

## VI. Floodplains

- A. **SANDY/GRAVELLY FLOODPLAIN FOREST Low AWC (skeletal, sandy, coarse-loamy)** ... F116BY029MO – Sandy/Gravelly Floodplain Forest
- B. **LOAMY FLOODPLAIN FOREST Mod to High AWC (fine-loamy, fine-silty)** ... F116BY002MO – Loamy Floodplain Forest