

# Major Land Resource Area 116A Ozark Highland

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## Ecological site keys

### ES key for MLRA 116A

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#### 1a. Upland Summits, Shoulders or Backslopes [NOT Upland Drainageways, Sinkholes, Foothslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains]

##### 2a. Bedrock <20"

##### 3a. Cliffs dominant (upper slope range to 70%)

4a. North, East aspects ... R116AY014MO – Dolomite Protected Cliff

4b. South, West aspects ... R116AY017MO – Dolomite Exposed Cliff

##### 3b. Cliffs minor

##### 5a. Dolomite residuum

6a. Smaller, isolated acreage primarily in eastern portion of MLRA primarily on Gasconade and Eminence-Potosi dolomite formations ... R116AY020MO – Shallow Dolomite Upland Glade/Woodland

6b. Larger, continuous acreage on Jefferson City-Cotter dolomite formation geology, located primarily in the White River Hills Subsection ... R116AY021MO – Bald Knob Dolomite Glade

5b. Sandstone residuum ... R116AY027MO – Shallow Sandstone Upland Glade/Woodland

##### 2b. Bedrock >20"

##### 7a. Mollisols or Mollic Subgroups

##### 8a. >12" loess

9a. Fragipan or claypan ... R116AY001MO – Claypan Summit Prairie

9b. No root restriction ... R116AY006MO – Loamy Upland Prairie

##### 8b. <12" loess

##### 10a. <15% slope

11a. Bedrock 20-40" ... F116AY009MO – Calcareous Dolomite Upland Woodland

11b. Bedrock 40" ... R116AY063MO – Chert Upland Savanna

##### 10b. >15% slope

12a. North, East aspects ... F116AY010MO – Calcareous Dolomite Protected Backslope Forest

12b. South, West aspects ... F116AY047MO – Calcareous Dolomite Exposed Backslope Woodland

##### 7b. Alfisols or Ultisols, not in Mollic subgroups

**13a. <15% slope**

**14a. >12" loess**

**15a. Fragipan or claypan**

**16a. Somewhat Poorly Drained** ... F116AY066MO – Fragipan Upland Flatwoods

**16b. Moderately Well Drained** ... F116AY004MO – Fragipan Upland Woodland

**15b. No root restriction**

**17a. Ultic** ... F116AY007MO – Low-Base Loamy Upland Woodland

**17b. Alfic** ... F116AY008MO – Loamy Upland Woodland

**14b. <12" loess**

**18a. Cherty Mudstone residuum or sandstone residuum**

**19a. Cherty mudstone residuum** ... F116AY003MO – Chert Mudstone Upland Woodland

**19b. Sandstone residuum** ... F116AY023MO – Low-Base Sandstone Upland Woodland

**18b. Dolomite residuum or cherty dolomite residuum**

**20a. Dolomite residuum** ... F116AY018MO – Loamy Dolomite Upland Woodland

**20b. Cherty dolomite residuum**

**21a. Alfisols**

**22a. Bedrock 20-40"** ... F116AY044MO – Chert Dolomite Upland Woodland

**22b. Bedrock >40"; none** ... F116AY011MO – Chert Upland Woodland

**21b. Ultisols**

**49a. Shortleaf Pine able to regenerate naturally** ... F116AY090MO – Low-Base Chert Upland Pine Woodland

**49b. Shortleaf Pine not able to regenerate naturally (outside of natural range of Shortleaf Pine)** ... F116AY012MO – Low-Base Chert Upland Woodland

**13b. >15% slope**

**23a. Residuum**

**24a. Cherty dolomite residuum, or cherty slope alluvium**

**25a. >12" loess**

**26a. North, East aspects** ... F116AY030MO – Loamy Protected Backslope Forest

**26b. South, West aspects** ... F116AY046MO – Loamy Exposed Backslope Woodland

**25b. <12" loess**

**27a. Alfisols**

**28a. Bedrock 20-40"**

**29a. Thin loess**

**30a. North, East aspects** ... F116AY019MO – Loamy Dolomite Protected Backslope Forest

**30b. South, West aspects ... F116AY051MO – Loamy Dolomite Exposed Backslope Woodland**

**29b. No loess**

**31a. North, East aspects ... F116AY016MO – Chert Dolomite Protected Backslope Forest**

**31b. South, West aspects ... F116AY048MO – Chert Dolomite Exposed Backslope Woodland**

**28b. Bedrock >40"; none**

**32a. North, East aspects ... F116AY002MO – Chert Protected Backslope Forest**

**32b. South, West aspects ... F116AY062MO – Chert Exposed Backslope Woodland**

**27a. Ultisols**

**33a. North, East aspects ... F116AY013MO – Low-Base Chert Protected Backslope Woodland**

**33b. South, West aspects ... F116AY049MO – Low-Base Chert Exposed Backslope Woodland**

**24b. Sandstone residuum**

**34a. North, East aspects ... F116AY045MO – Low-Base Sandstone Protected Backslope Woodland**

**34b. South, West aspects ... F116AY053MO – Low-Base Sandstone Exposed Backslope Woodland**

**23b. Colluvium ... F116AY022MO – Talus Footslope Forest**

**1b. Upland Drainageways, Sinkholes, Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains**

**35a. Fens or Upland Drainageways [NOT Sinkholes, Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains]**

**36a. Historic Prairie ... R116AY026MO – Wet Upland Drainageway Prairie**

**36b. Historic Forest**

**37a. Somewhat Poorly, Poorly Drained ... F116AY036MO – Wet Upland Drainageway Forest**

**37b. Moderately Well, Well Drained ... F116AY037MO – Gravelly/Loamy Upland Drainageway Forest**

**36c. Fen landform or very poorly drained soils with mucky surface associated with spring discharge, occurring on multiple landforms. ... R116AY100MO – Karst Fen**

**35b. Sinkholes, Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains**

**38a. Sinkholes [NOT Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains]**

**39a. Well Drained ... F116AY043MO – Loamy Sinkhole Woodland**

**39b. Somewhat Poorly Drained ... R116AY029MO – Ponded Sinkhole Wetland**

**38b. Foothills & High Terraces, Terraces & Floodplain Steps, or Low Floodplains**

**40a. Foothills & High Terraces [NOT Terraces & Floodplain Steps, or Low Floodplains]**

**41a. Mollic ... R116AY005MO – Wet Foothill Savanna**

**41b. Alfic & Ultic**

**42a. Somewhat Poorly, Poorly Drained ... F116AY035MO – Wet Terrace Forest**

**42b. Moderately Well, Well Drained**

**43a. Low Available Water Capacity (skeletal or fragipan) ... F116AY031MO – Dry Foothill Forest**

**43b. High Available Water Capacity (loamy or clayey) ... F116AY032MO – Loamy Foothill Forest**

**40b. Terraces & Floodplain Steps, or Low Floodplains**

**44a. Terraces, Floodplain Steps**

**45a. Argillic horizon**

**46a. Poorly to Somewhat Poorly Drained ... F116AY033MO – Wet Foothill Forest**

**46b. Moderately Well to Well Drained ... F116AY034MO – Loamy Terrace Forest**

**45a. No argillic horizon**

**47a. Poorly to Somewhat Poorly Drained ... F116AY040MO – Wet Floodplain Step Forest**

**47b. Moderately Well to Well Drained ... F116AY039MO – Loamy Floodplain Step Forest**

**44b. Low Floodplains**

**48a. Low Available Water Capacity (skeletal, sandy, coarse loamy) ... F116AY042MO – Sandy/Gravelly Floodplain Forest**

**48b. High Available Water Capacity (fine loamy, fine silty) ... F116AY041MO – Loamy Floodplain Forest**