Spring River Watershed Summit

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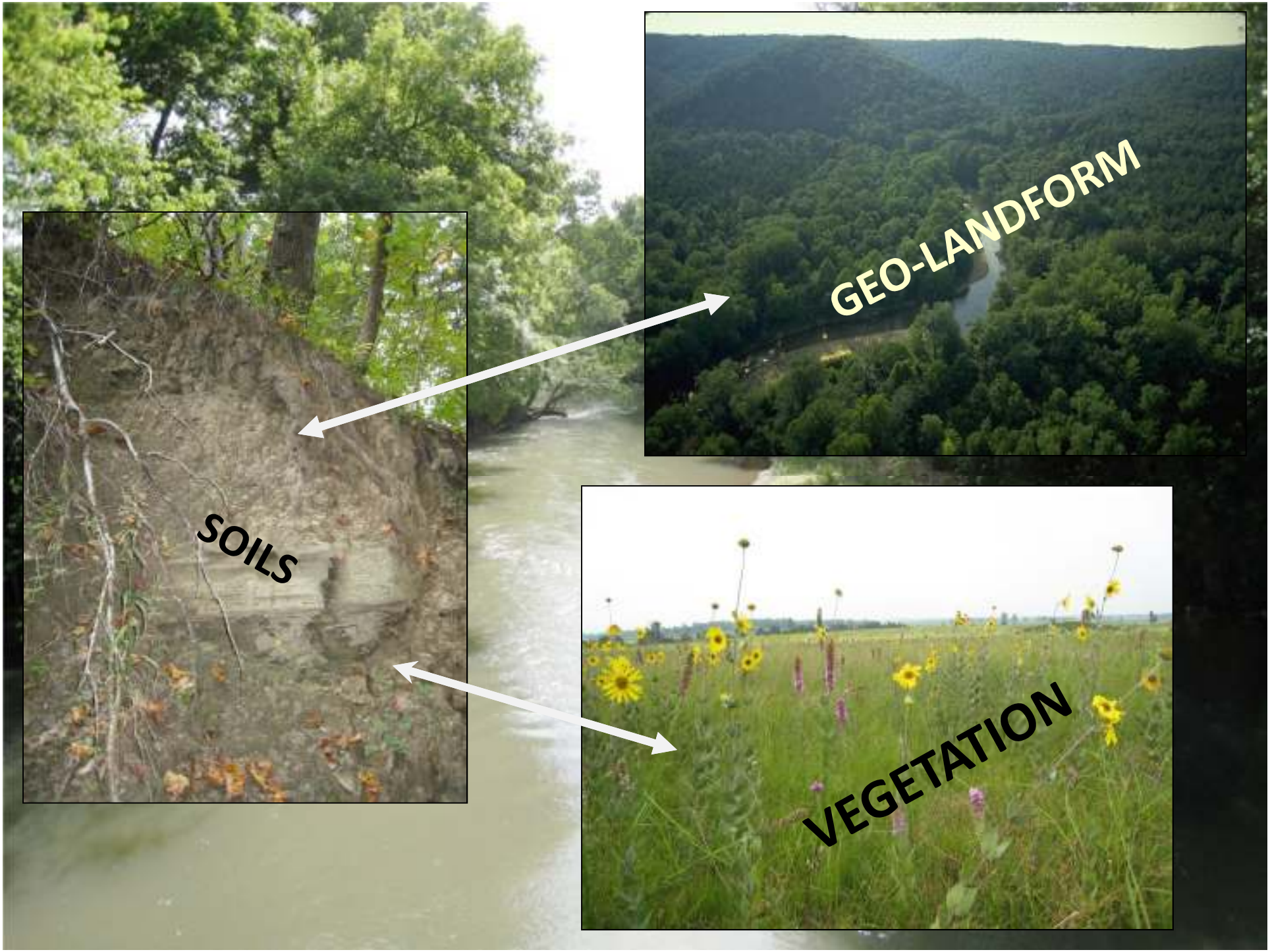
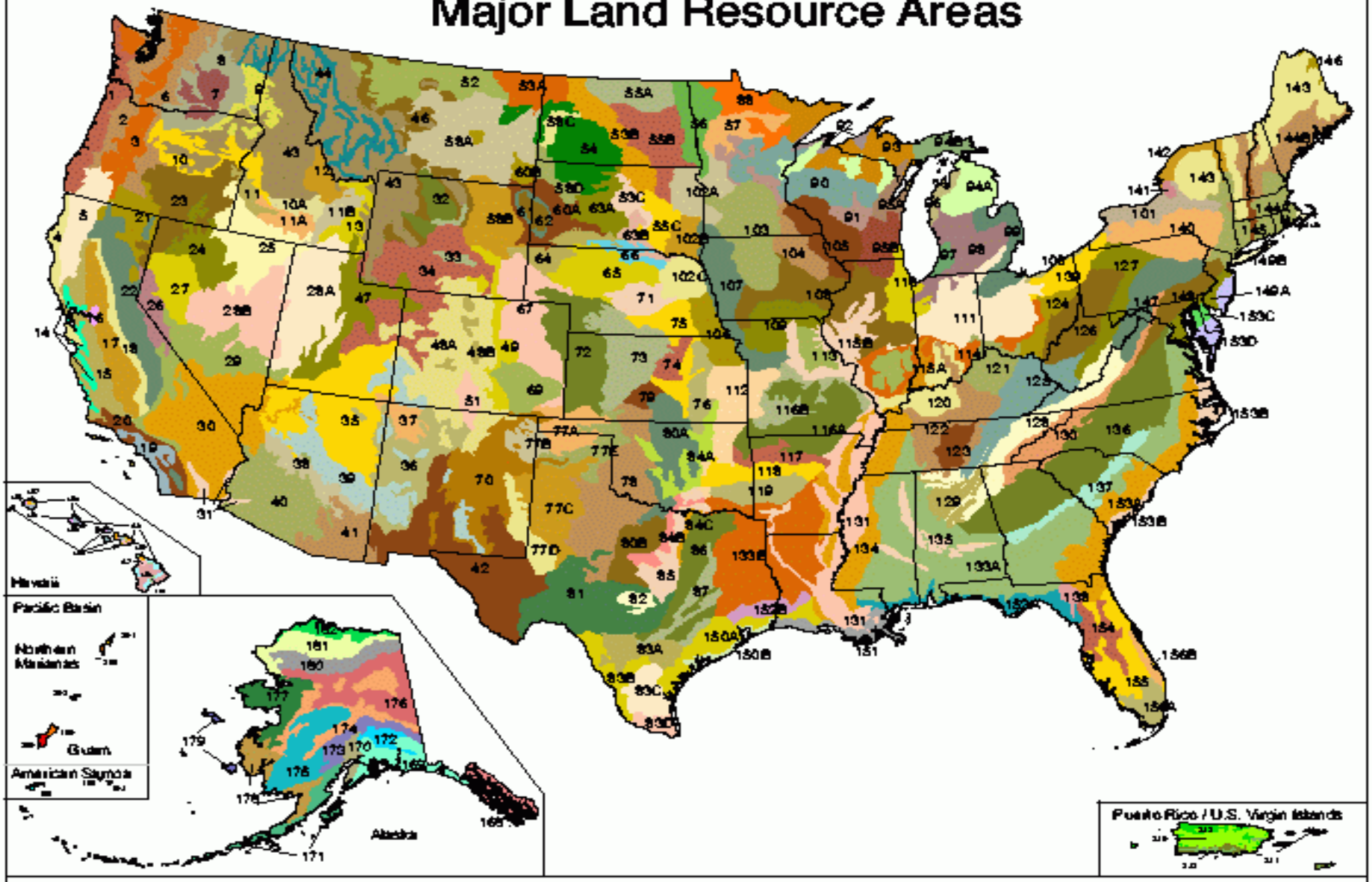
- MLRAs
- Geology
- Parent Materials
- Major Ecological Types/Topographic landscapes
- Historic/Current Land Cover


GEO-LANDFORM
SOILS
VEGETATION

Major Land Resource Areas



USDA NRCS

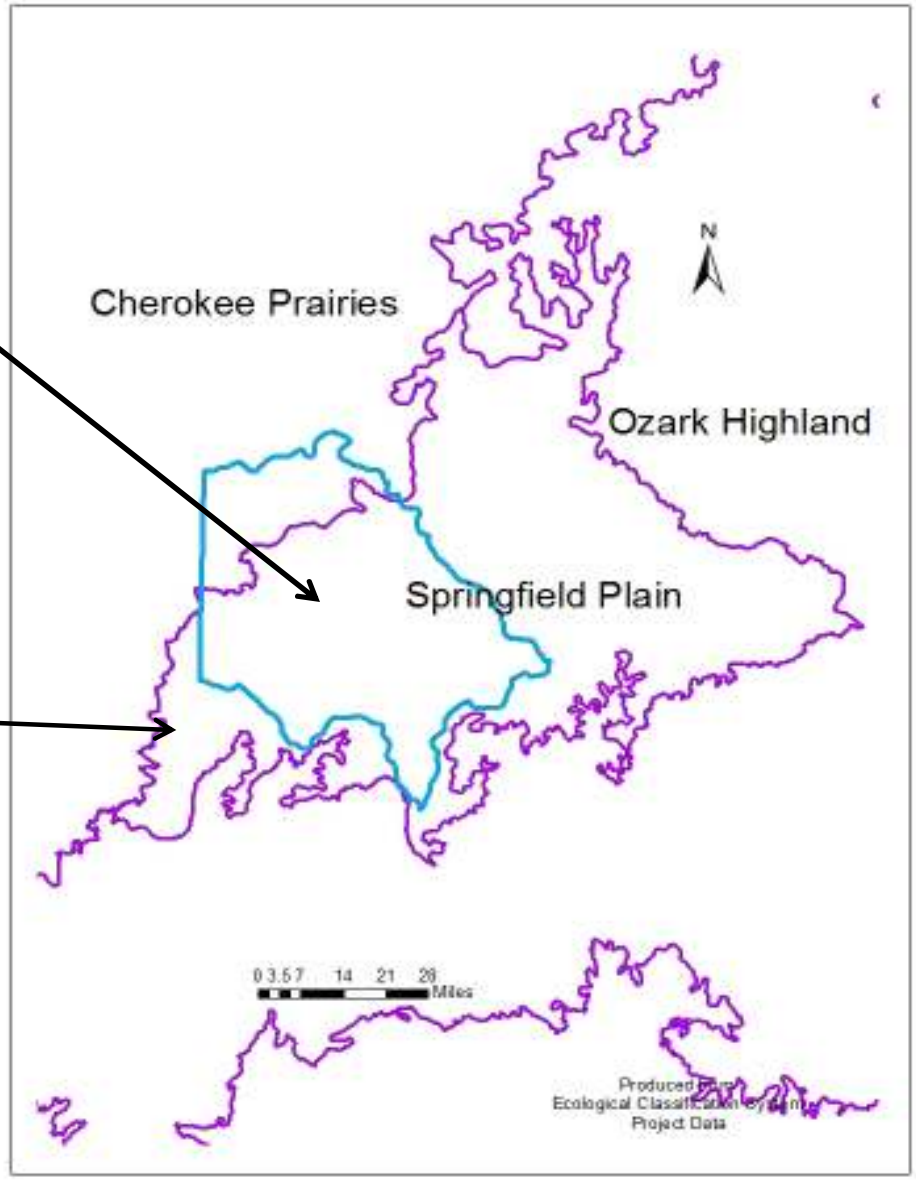
U.S. Department of Agriculture
Natural Resources Conservation Service
Resource Assessment Division
Washington, D.C. July 2000

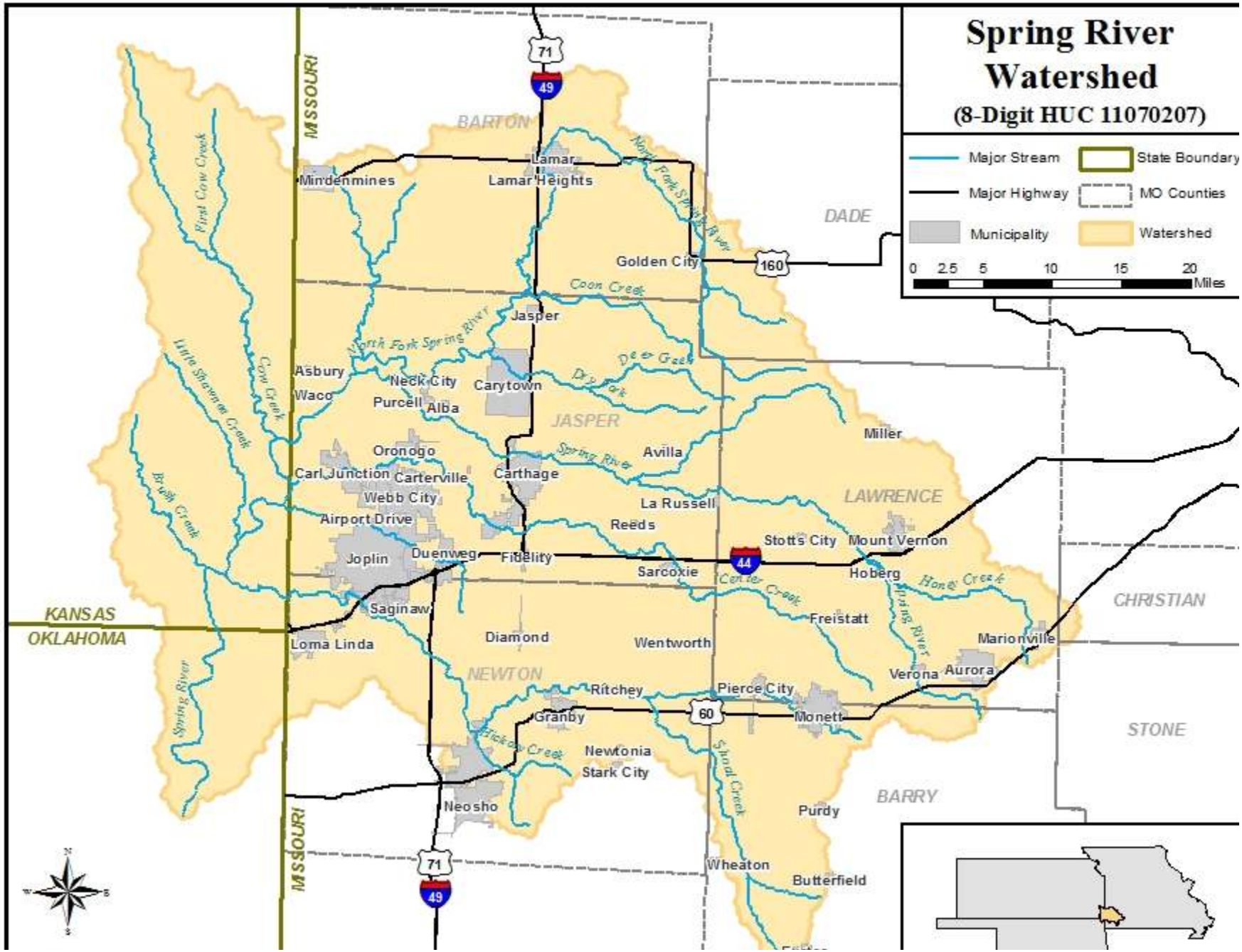
Map ID: m5640
For proper interpretation, see Explanation of Analysis for this map at our web site. Search for "USDA SOTL" to locate our map index.

Data Source: Natural Resources Conservation Service

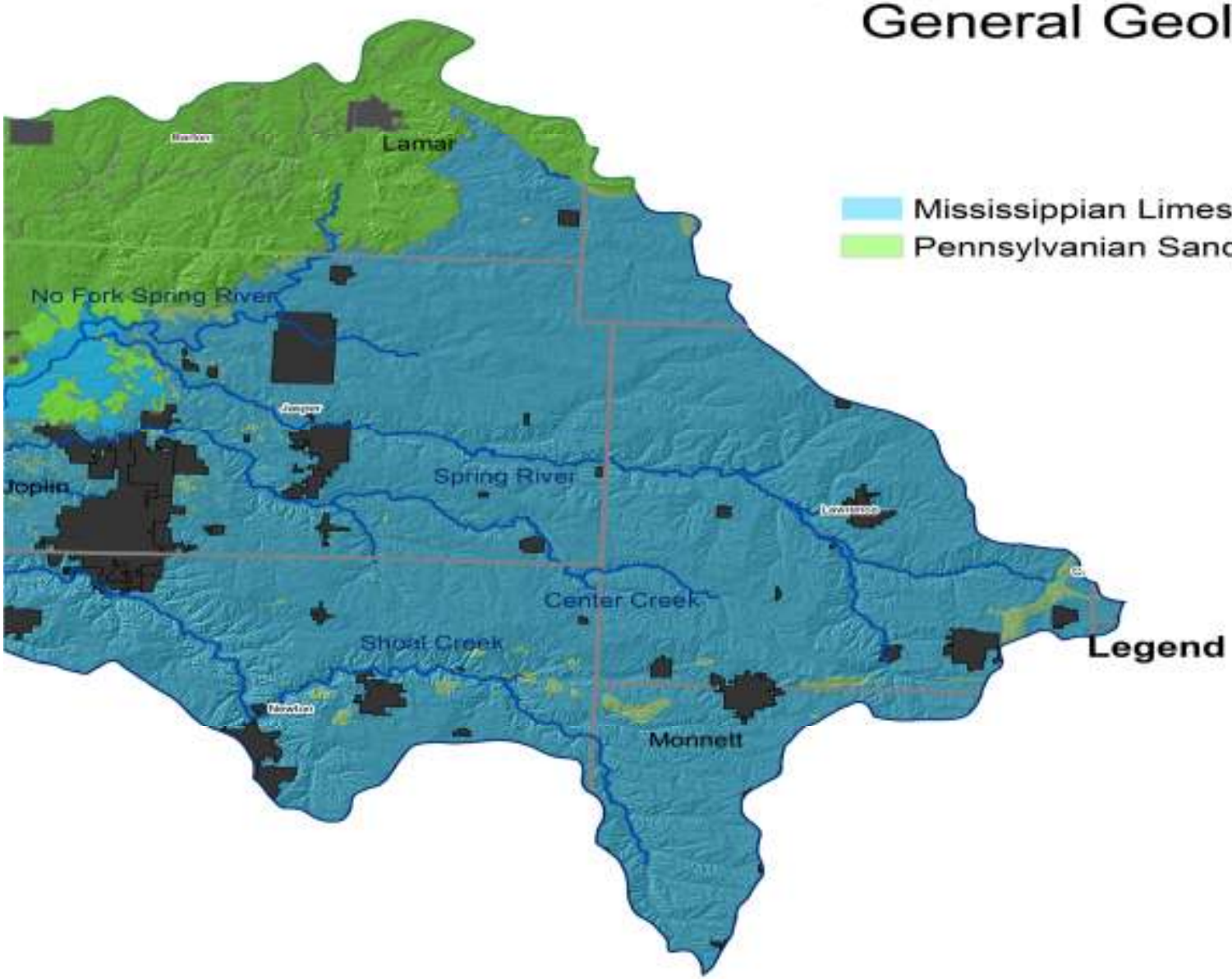
Major Land Resource Areas (MLRAs)

Spring River Watershed



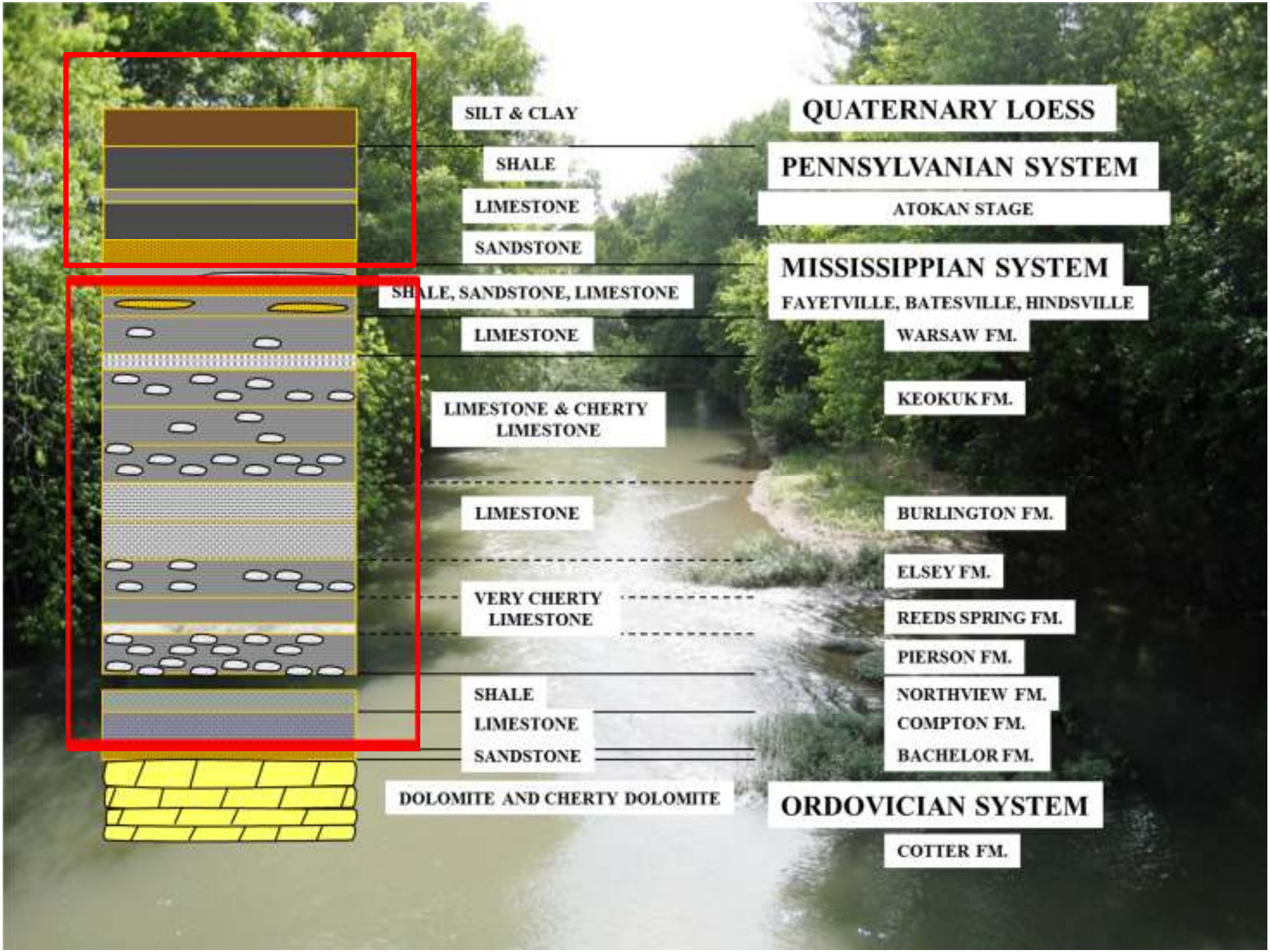

Spring River Watershed
(8-Digit HUC 11070207)
Major Stream
State Boundary
Major Highway
MO Counties
Municipality
Watershed
0 2.5 5 10 15 20 Miles
MISSOURI
BARTON
DADE
JASPER
LAWRENCE
NEWTON
CHRISTIAN
STONE
BARRY
KANSAS
OKLAHOMA
Mindenmines
Lamar
Lamar Heights
Golden City
Jasper
Asbury
Waco
Neck City
Purcell
Alba
Carytown
Oronogo
Carl Junction
Carterville
Webb City
Carthage
Airport Drive
Joplin
Duenweg
Fidelity
Saginaw
Loma Linda
Diamond
Avilla
La Russell
Reeds
Sarcoxie
Stotts City
Mount Vernon
Miller
Hoberg
Freistatt
Marionville
Verona
Aurora
Wentworth
Ritchey
Granby
Newtonia
Stark City
Neosho
Pierce City
Monett
Purdy
Wheaton
Butterfield
Coon Creek
North Fork Spring River
Deer Creek
Dry Fork
Spring River
Center Creek
Honey Creek
Shoal Creek
Hickory Creek
First Cow Creek
Little Shoal Creek
Cow Creek
Brush Creek
71
49
160
44
60

Spring River Watershed
General Geology



Mississippian Limestones
Pennsylvanian Sandstone/Shale

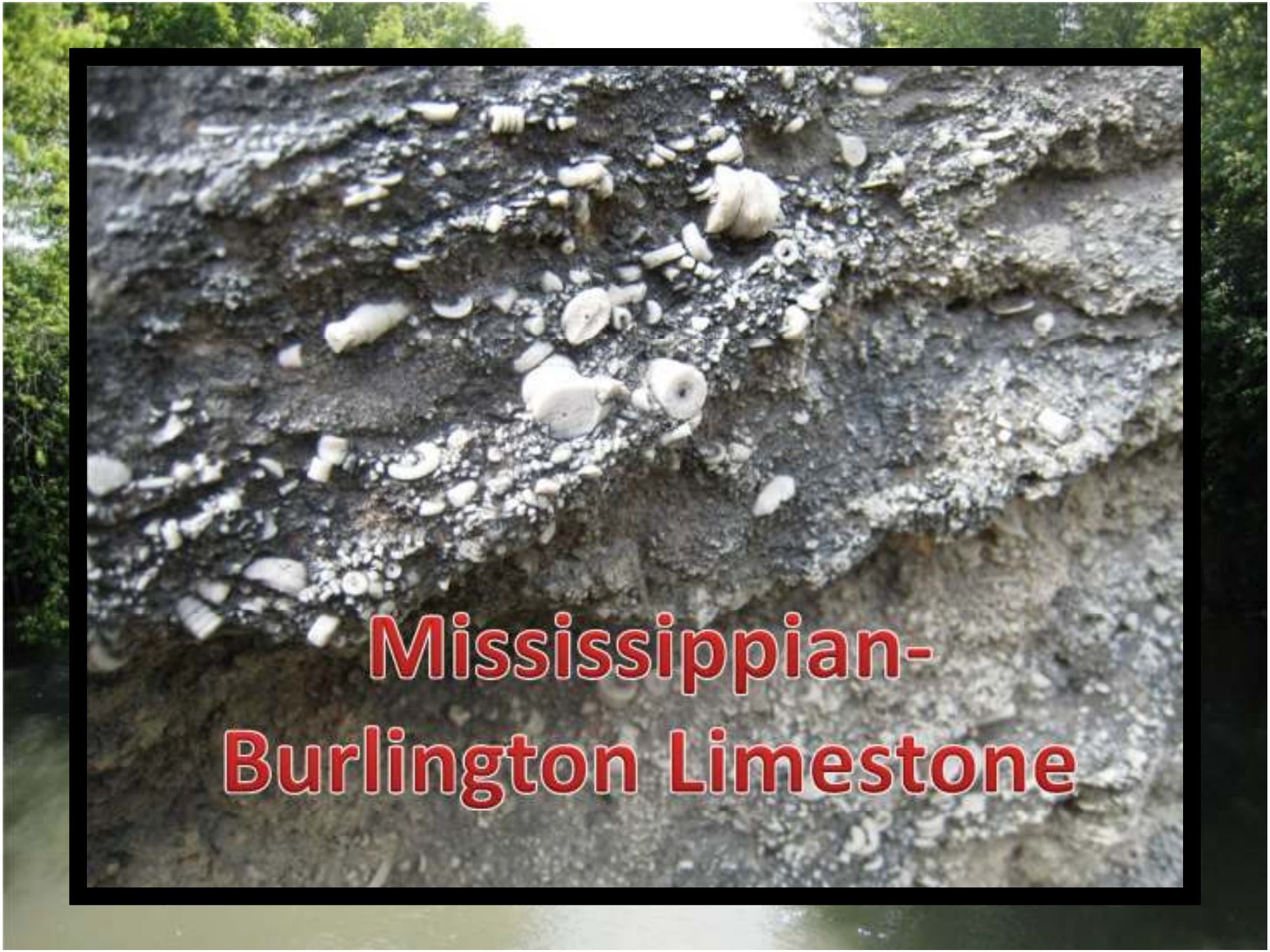
Legend


SILT & CLAY
QUATERNARY LOESS
SHALE
PENNSYLVANIAN SYSTEM
LIMESTONE
ATOKAN STAGE
SANDSTONE
MISSISSIPPIAN SYSTEM
SHALE, SANDSTONE, LIMESTONE
FAYETVILLE, BATESVILLE, HINDSVILLE
LIMESTONE
WARSAW FM.
LIMESTONE & CHERTY LIMESTONE
KEOKUK FM.
LIMESTONE
BURLINGTON FM.
ELSEY FM.
VERY CHERTY LIMESTONE
REEDS SPRING FM.
PIERSON FM.
SHALE
NORTHVIEW FM.
LIMESTONE
COMPTON FM.
SANDSTONE
BACHELOR FM.
DOLOMITE AND CHERTY DOLOMITE
ORDOVICIAN SYSTEM
COTTER FM.

Pennsylvanian Shale

Mississippian-

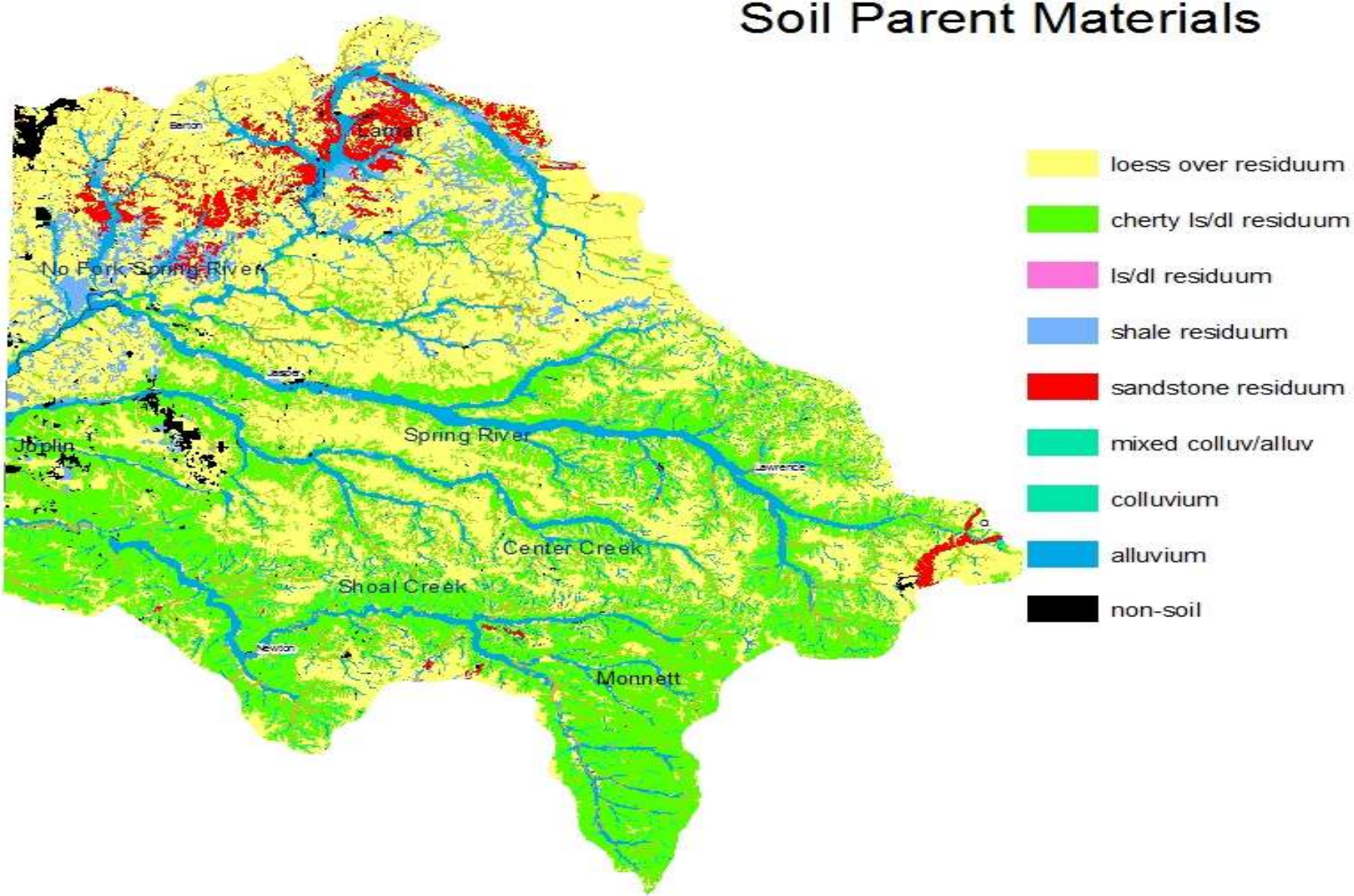
Keokuk Limestone


Mississippian-
Burlington Limestone

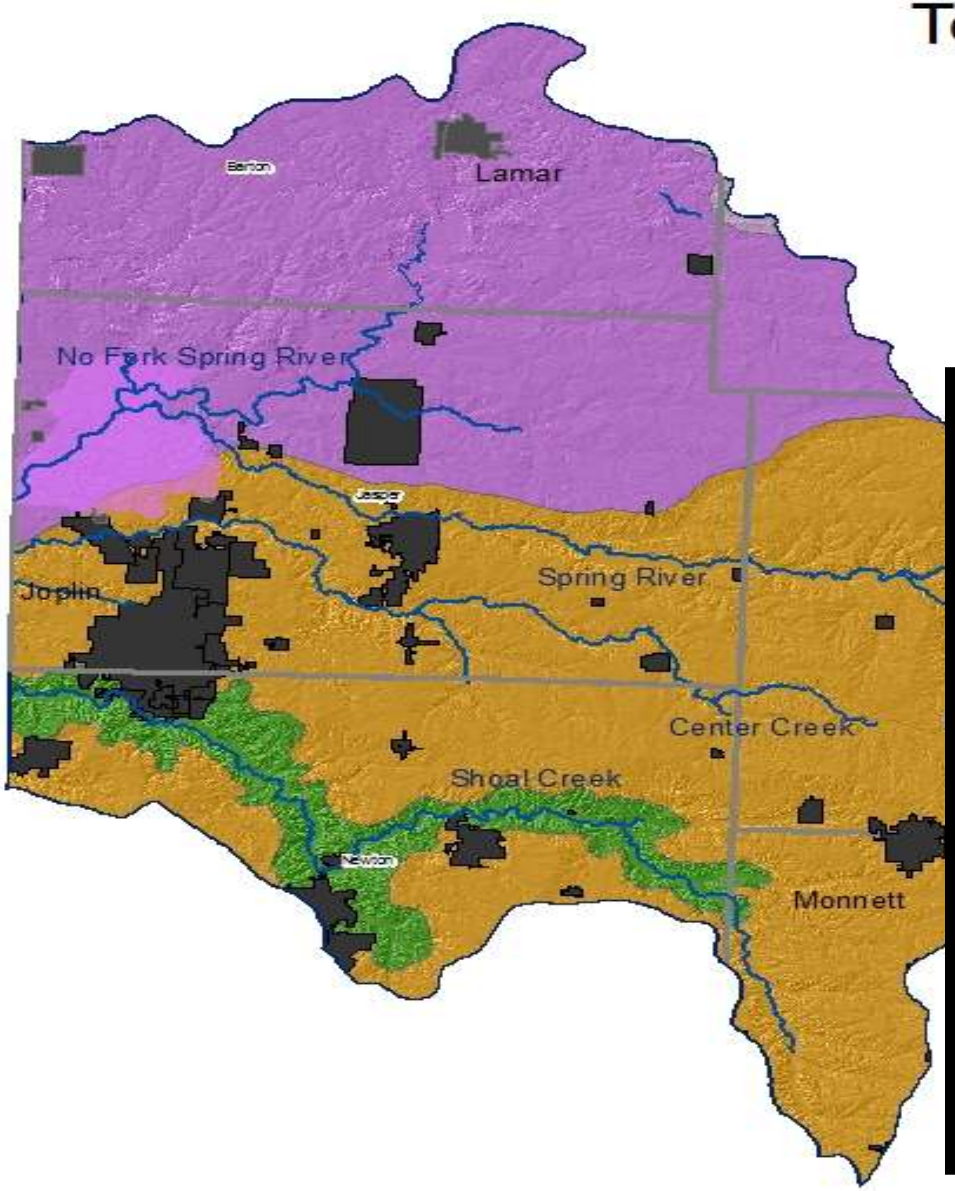
Mississippian-Northview Shale

Worm rock

Spring River Watershed
Soil Parent Materials



Spring River Watershed Topographic Landscapes



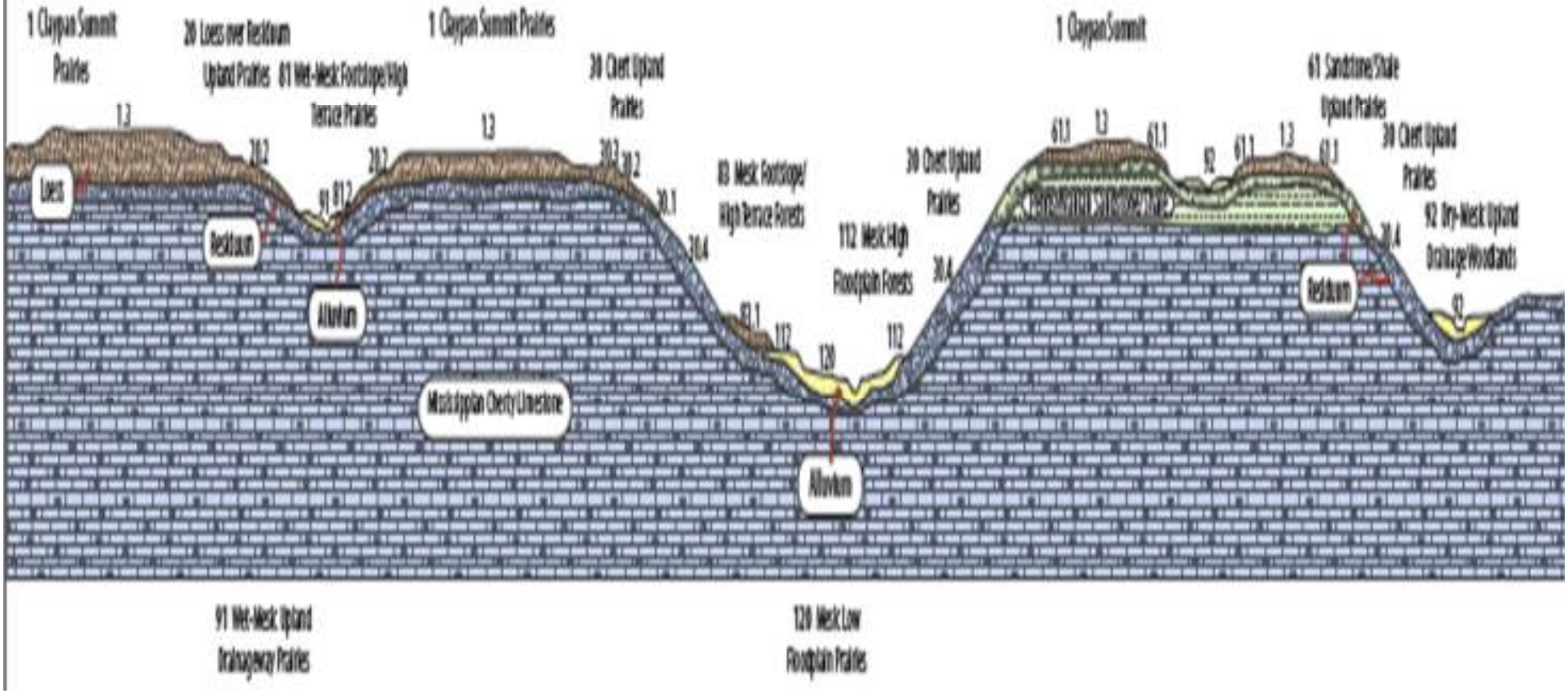
OZ Oak Savanna/Woodland Low Hills

OZ Prairie Plains

OZ Prairie/Savanna Dissected Plains

CROSS-SECTION REPRESENTING TYPICAL ELT SEQUENCE OF THE

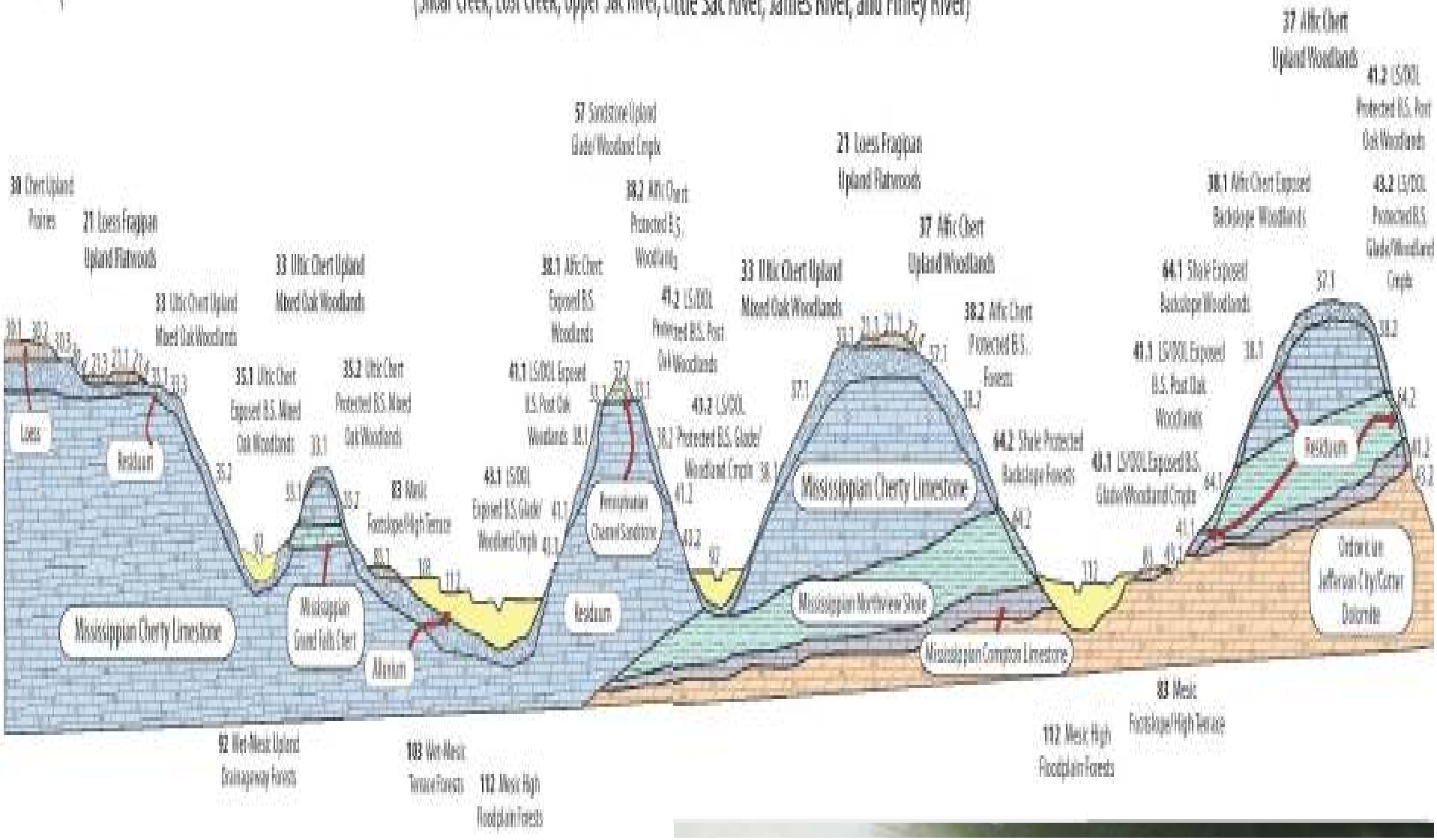
LOCKWOOD SMOOTH PRAIRIE PLAIN



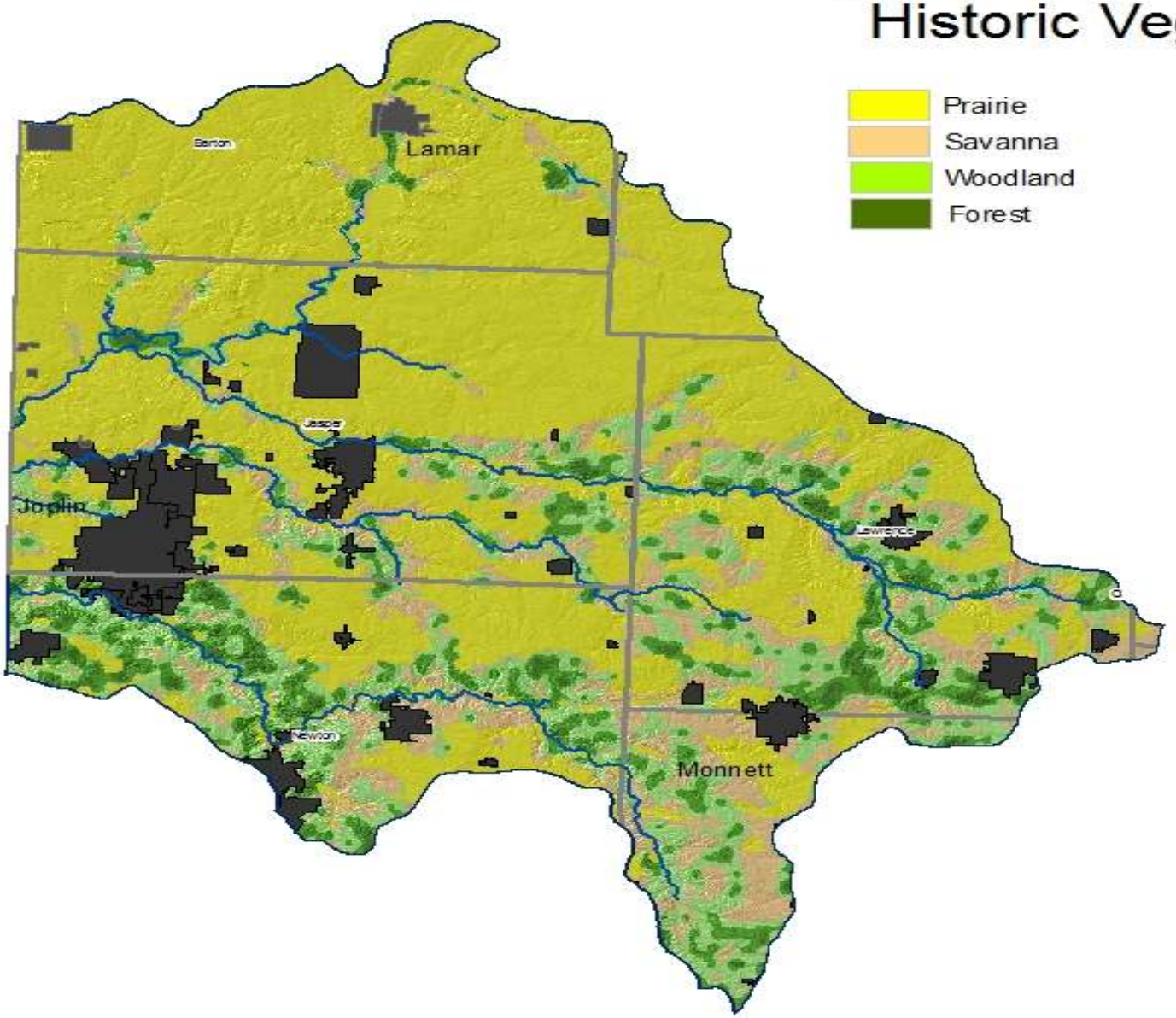
CROSS-SECTION REPRESENTING A TYPICAL ELT SEQUENCE OF THE

SPRINGFIELD PLAIN SAVANNA/WOODLAND LOW HILLS

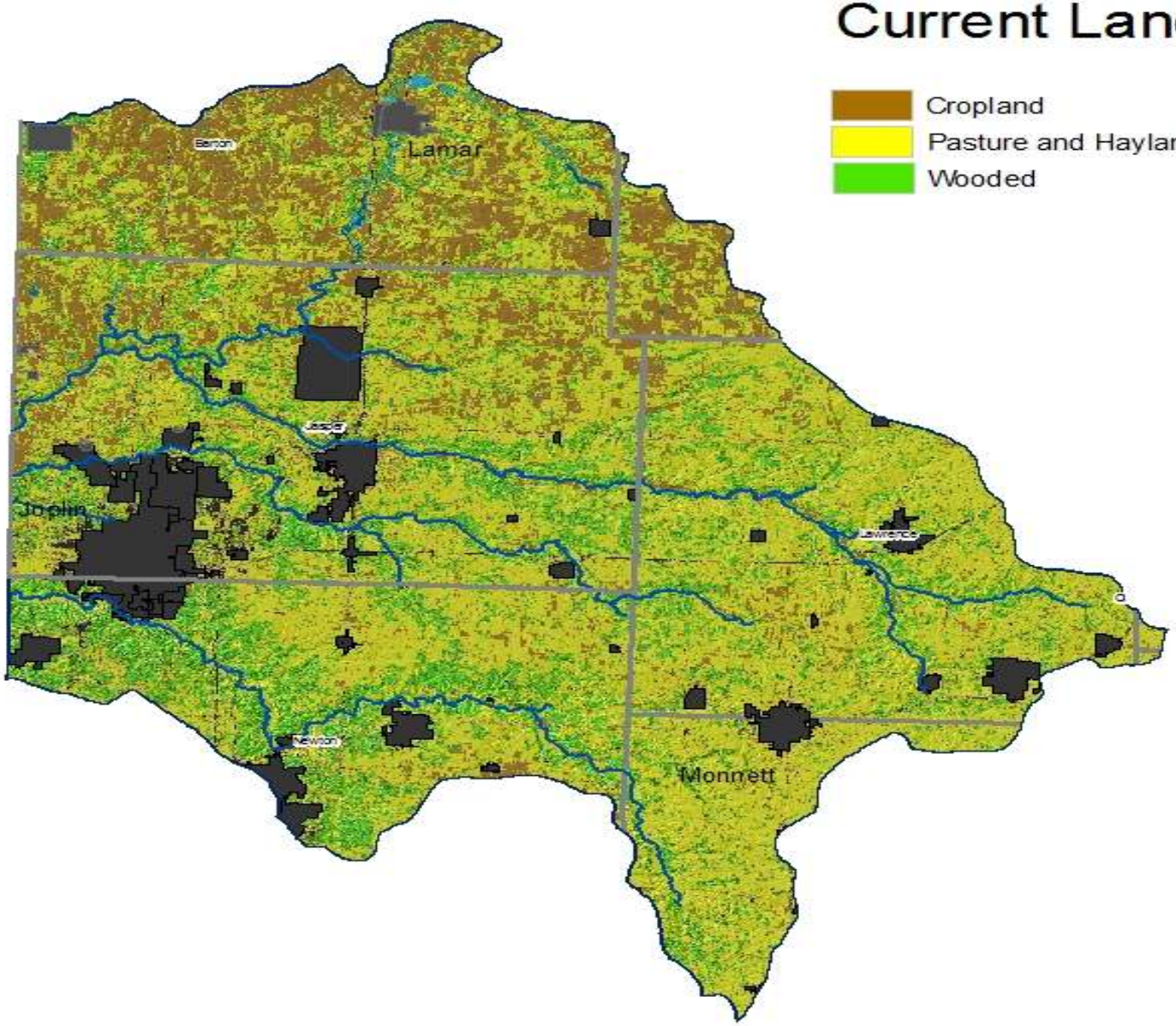
(Shoal Creek, Lost Creek, Upper Sac River, Little Sac River, James River, and Finley River)

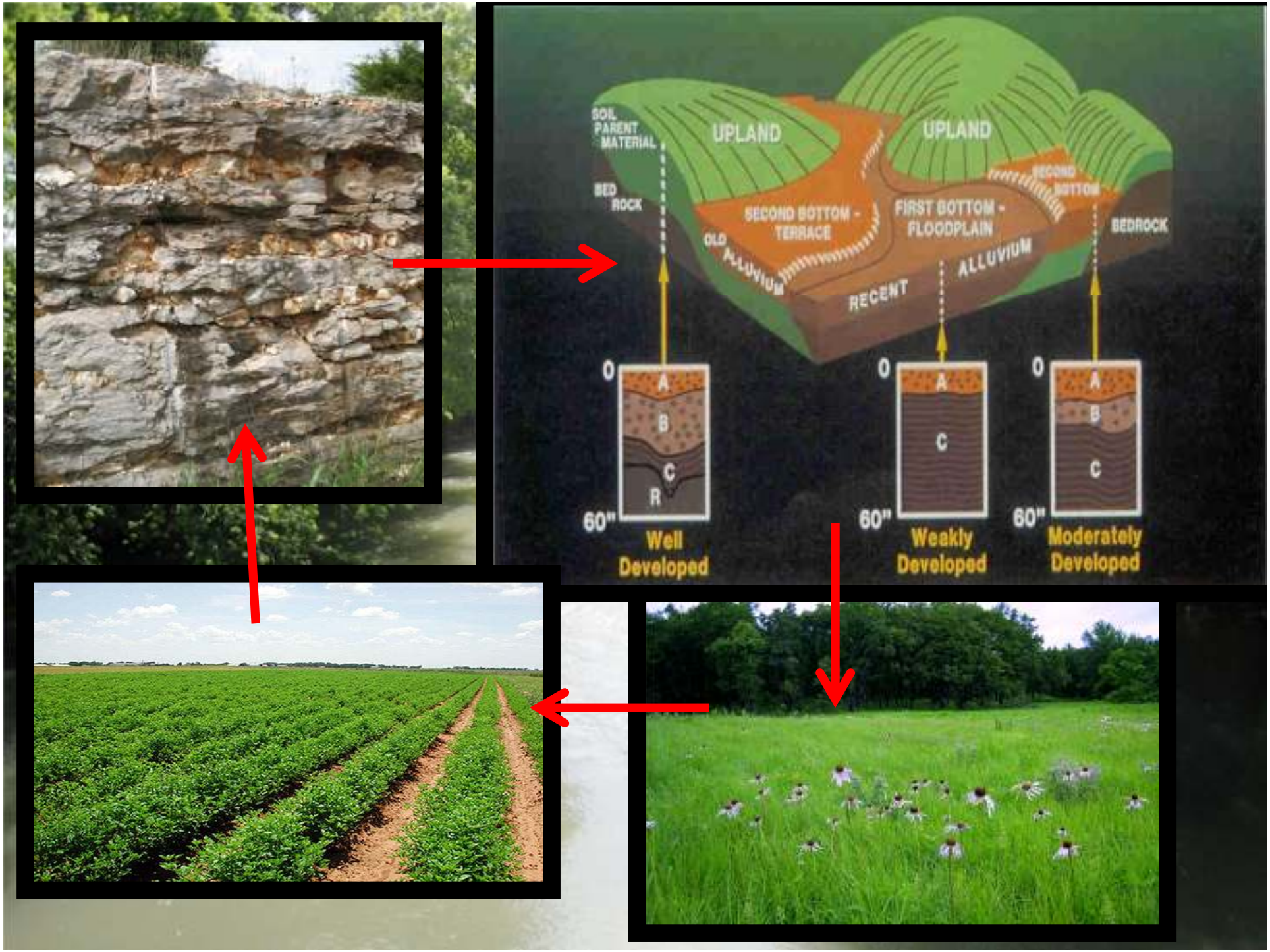


Spring River Watershed Historic Vegetation



Spring River Watershed
Current Land Cover




SOIL
PARENT
MATERIAL
BED
ROCK
UPLAND
UPLAND
SECOND BOTTOM -
TERRACE
FIRST BOTTOM -
FLOODPLAIN
SECOND
BOTTOM
BEDROCK
OLD ALLUVIUM
RECENT
ALLUVIUM
0
A
B
C
R
60"
Well
Developed
0
A
C
60"
Weakly
Developed
0
A
B
C
60"
Moderately
Developed

Questions?

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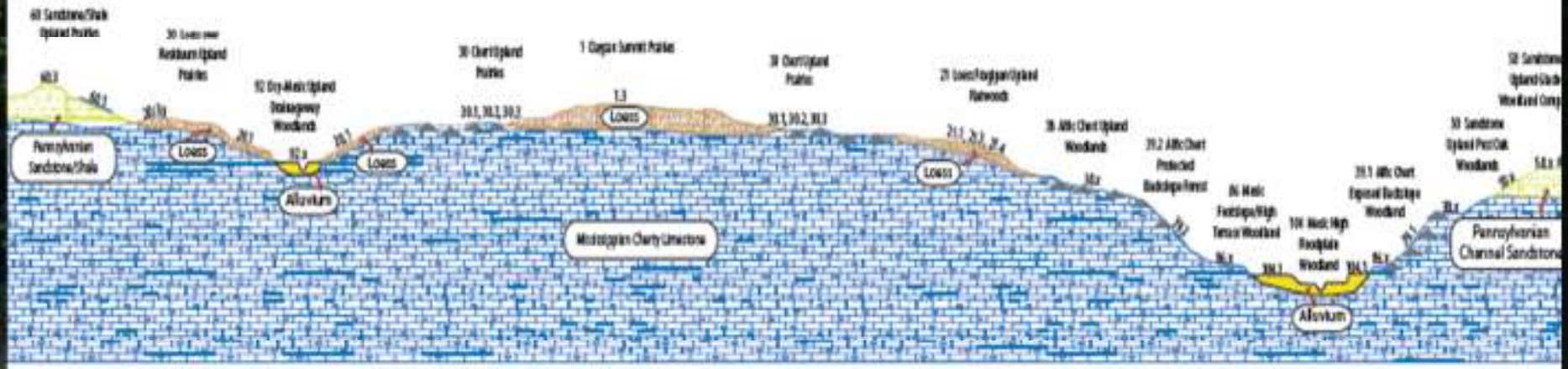
8 essential soil properties that have significant influence on vegetation:

1) **Landform**
2) **Parent Materials**
3) **Root Restriction**
4) **Base Saturation**
5) **Drainage**
6) **Texture**
7) **Flooding**
8) **Ponding**

SPRING RIVER AND SPRINGFIELD PRAIRIE/SAVANNA DISSECTED PLAIN