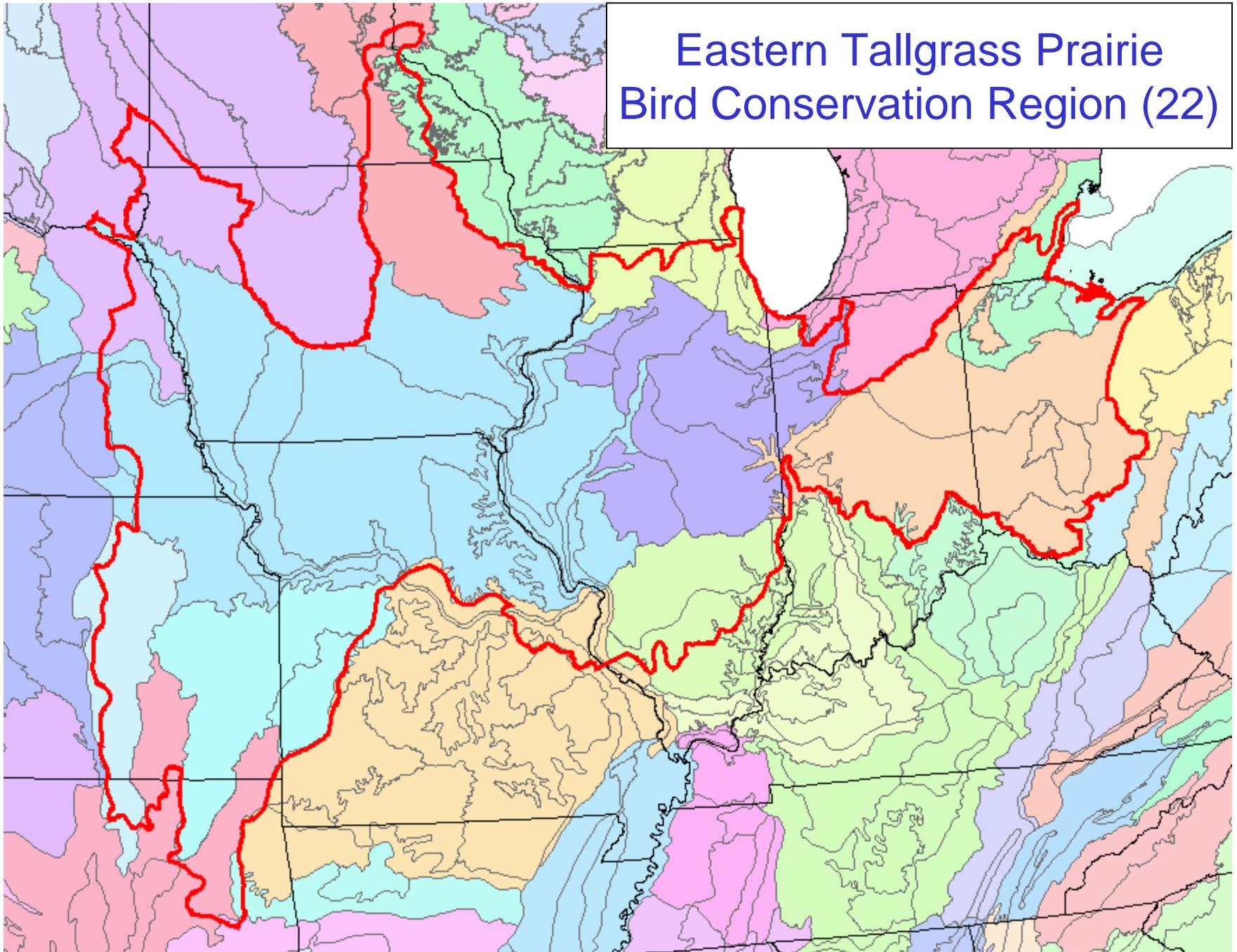




GIS Data Development in Aid of Planning for the Eastern Tallgrass Prairie BCR

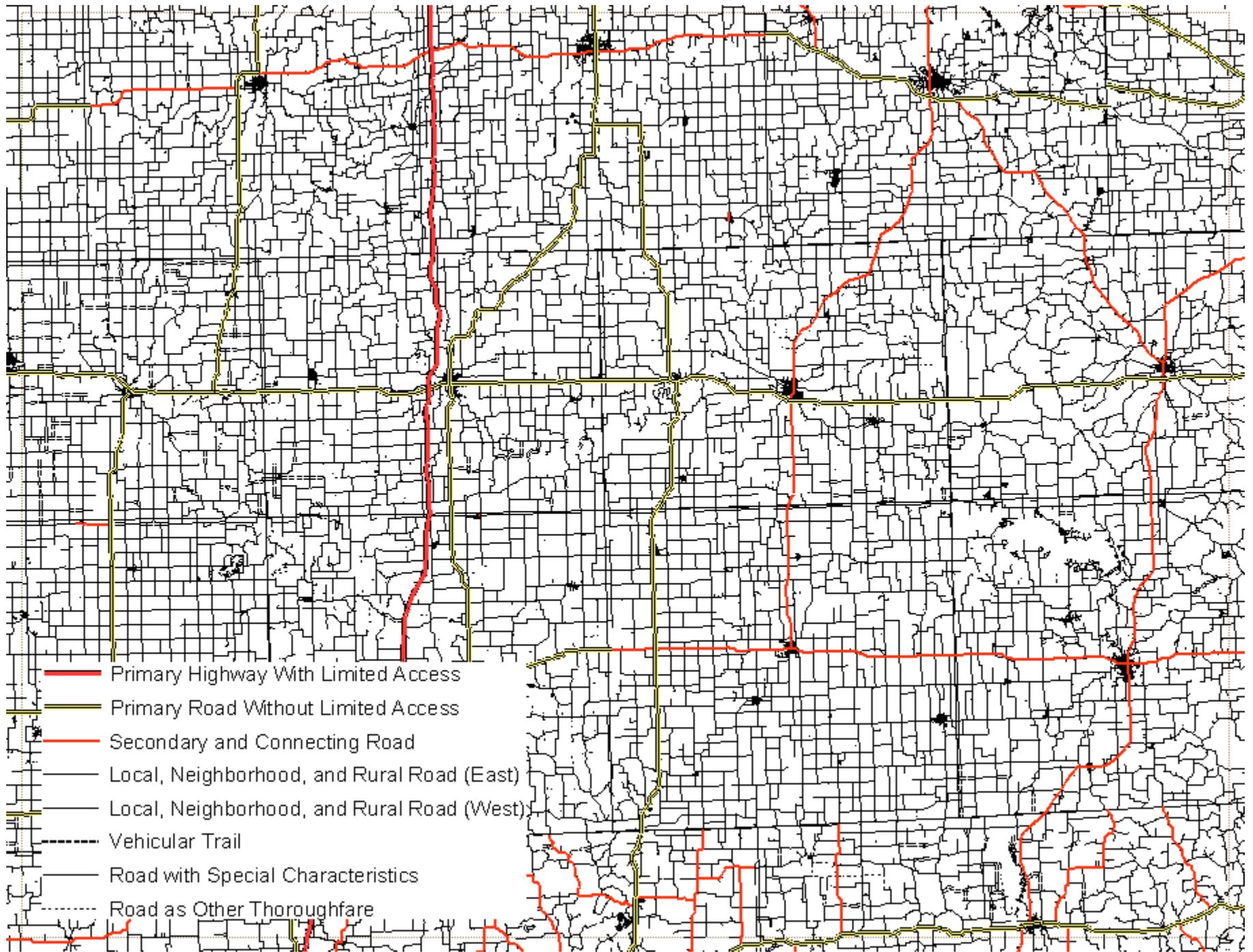
Contact: David Diamond; Diane True
www.cerc.usgs.gov/morap

Eastern Tallgrass Prairie
Bird Conservation Region (22)



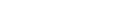
Background

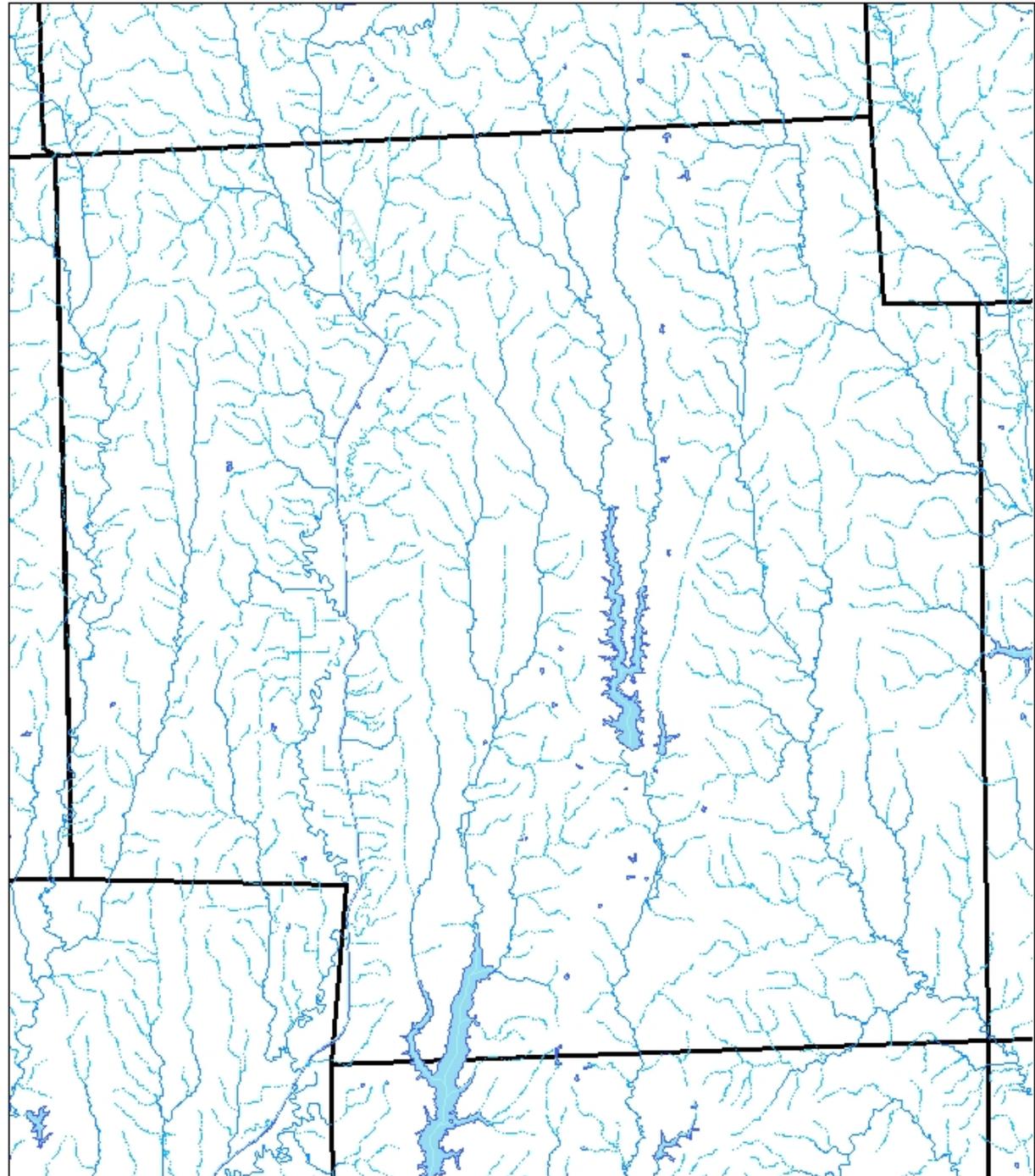
- Initial contract executed September, 2003
 - Create functional, seamless GIS for BCR 22 (parts of 12 states) with appropriate, seamless data layers
 - Digitize and/or consolidate existing information, including information generated by regional meetings
 - Create ‘current landscapes’ of conservation opportunity based on current land cover for coarse-resolution evaluations



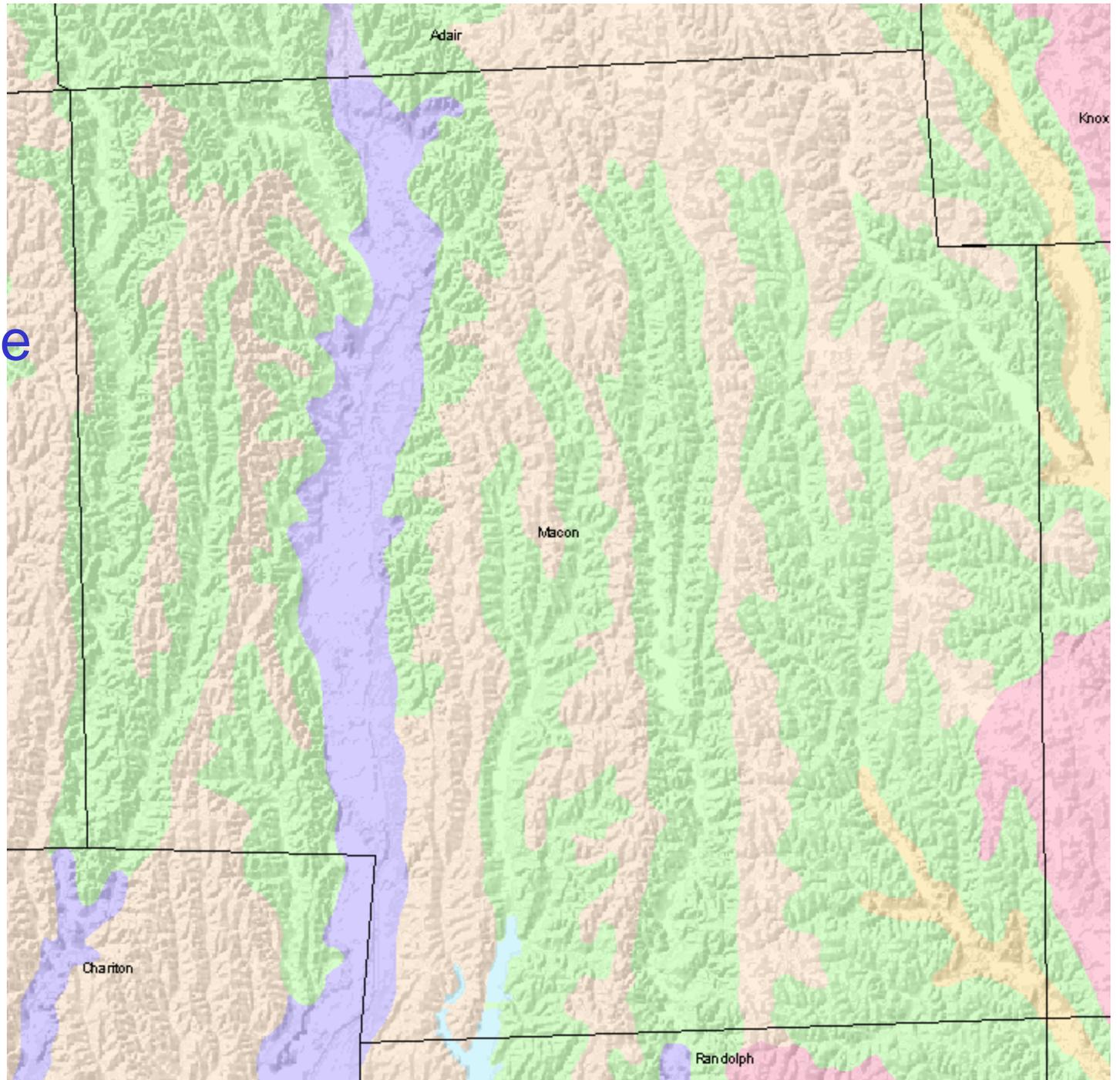
Macon County, Missouri

National Hydrology Dataset

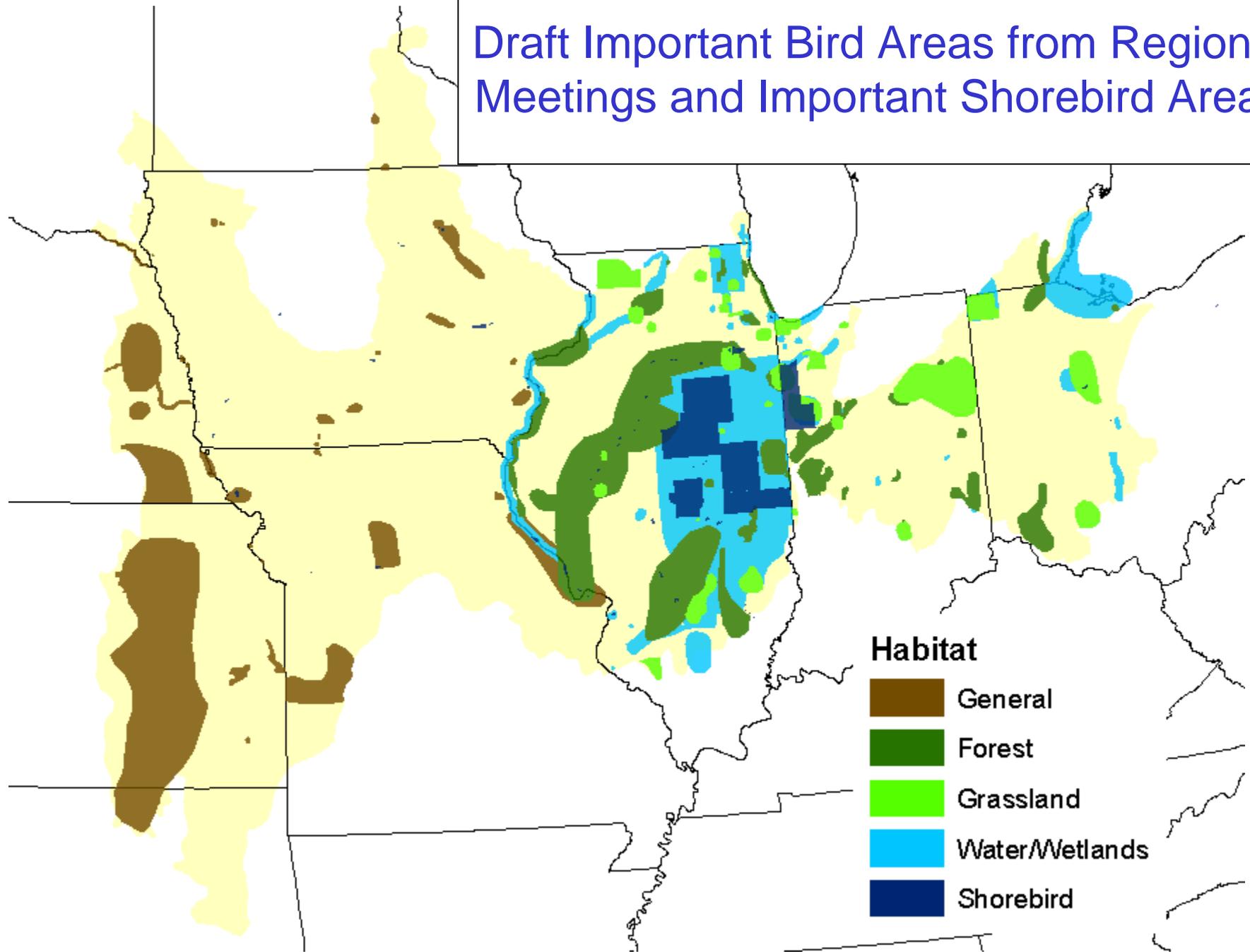
-  Lakes
-  Pipeline
-  Connector
-  Artificial Path
-  Canal/Ditch
-  Intermittent Streams
-  Perennial Streams
-  Points
-  Counties



STATSGO
Soils
Geodatabase



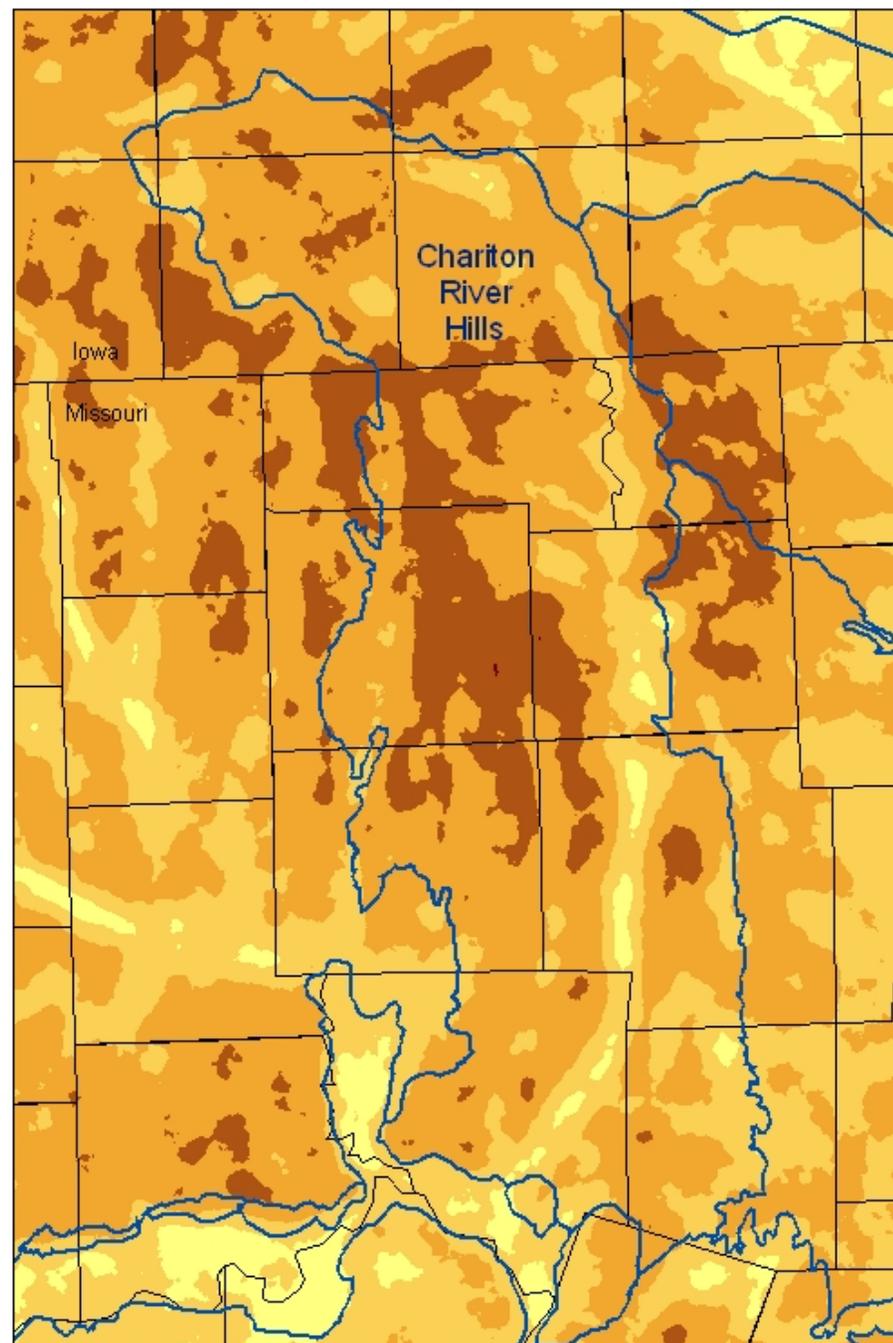
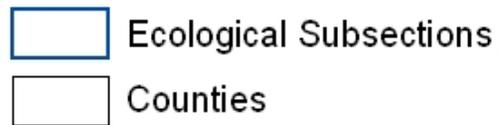
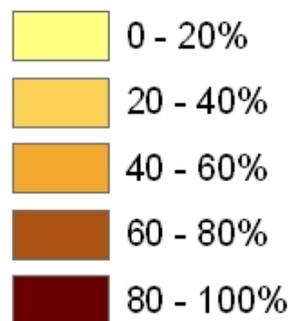
Draft Important Bird Areas from Regional Meetings and Important Shorebird Areas



Analysis of the Modern Landscape

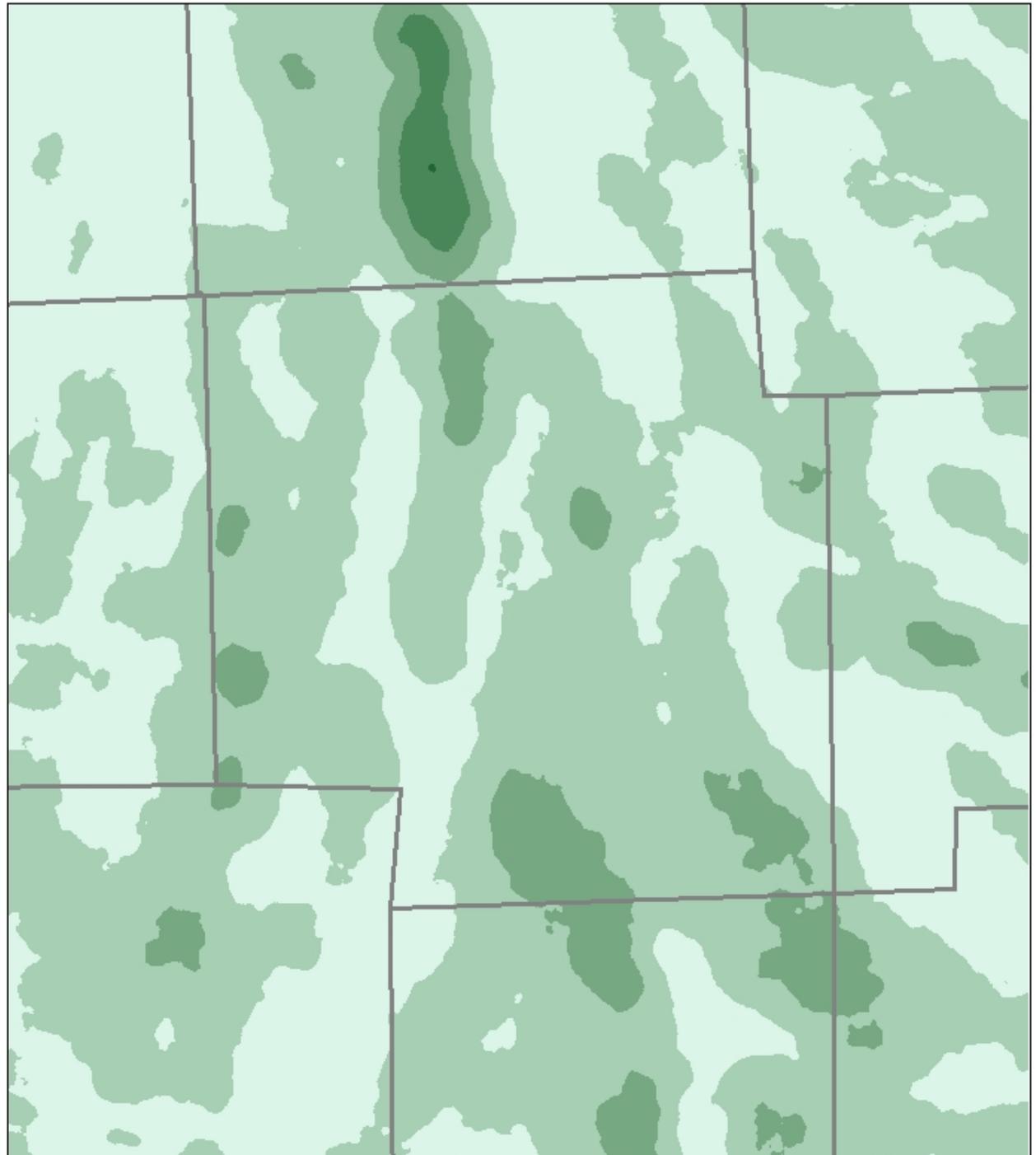
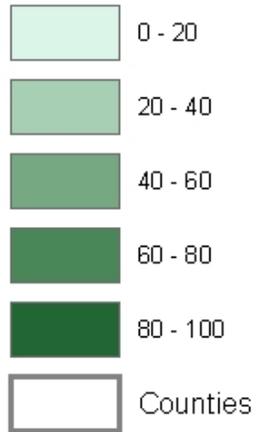
- Summarize the land cover within a circular neighborhood with a radius of 3 km
- Select thresholds to identify different types of landscapes (flexible analyses) for example:
 - >50% grassland, <30% crop, ; <10% urban
 - >70% forest, <10% urban
 - >20% grassland, >20% forest, <30% crop, <10% urban
- Selection thresholds can be manipulated as desired

Percent Grassland



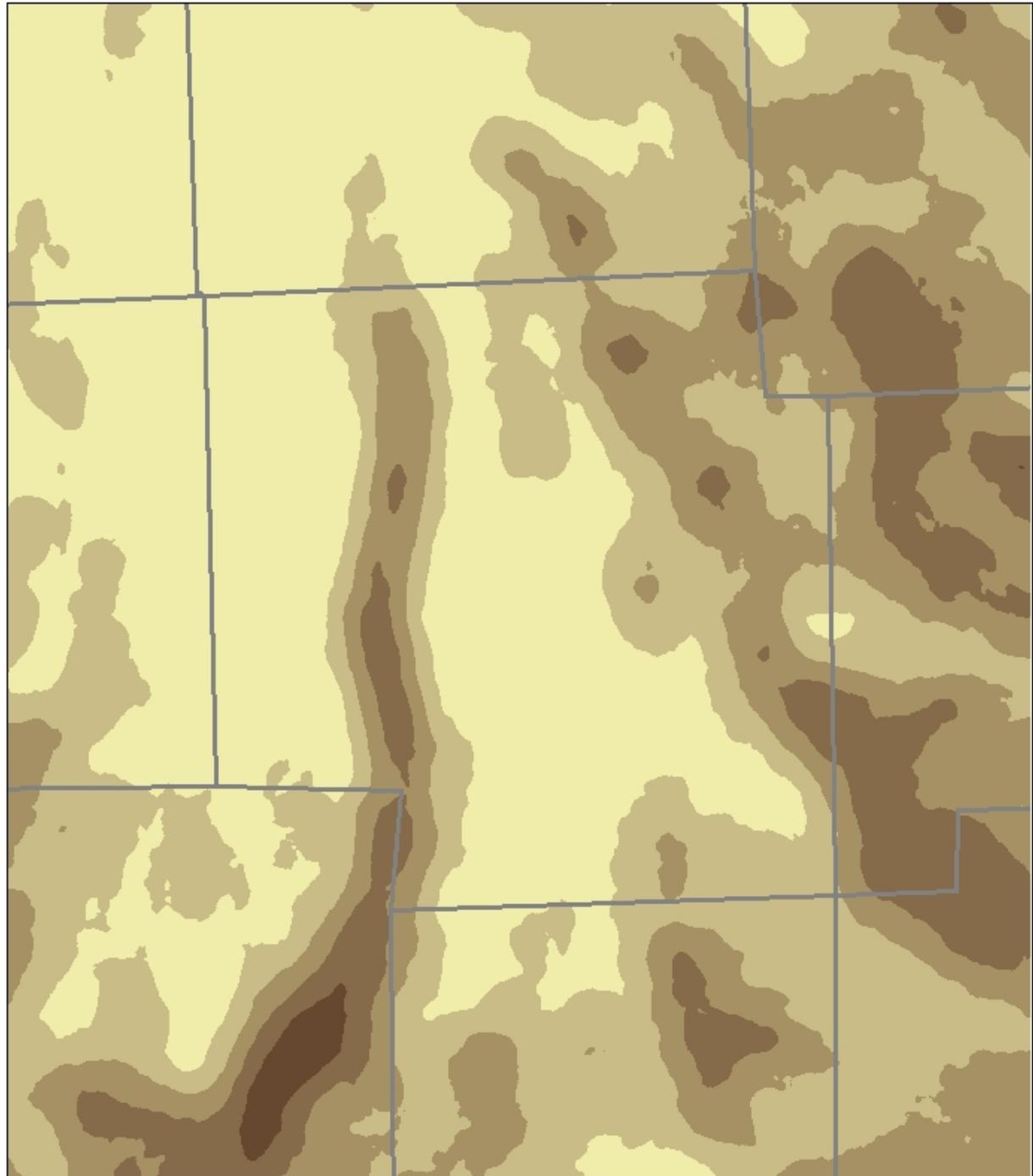
Macon County, Missouri

Percent Forest



Macon County, Missouri

Percent Agricultural

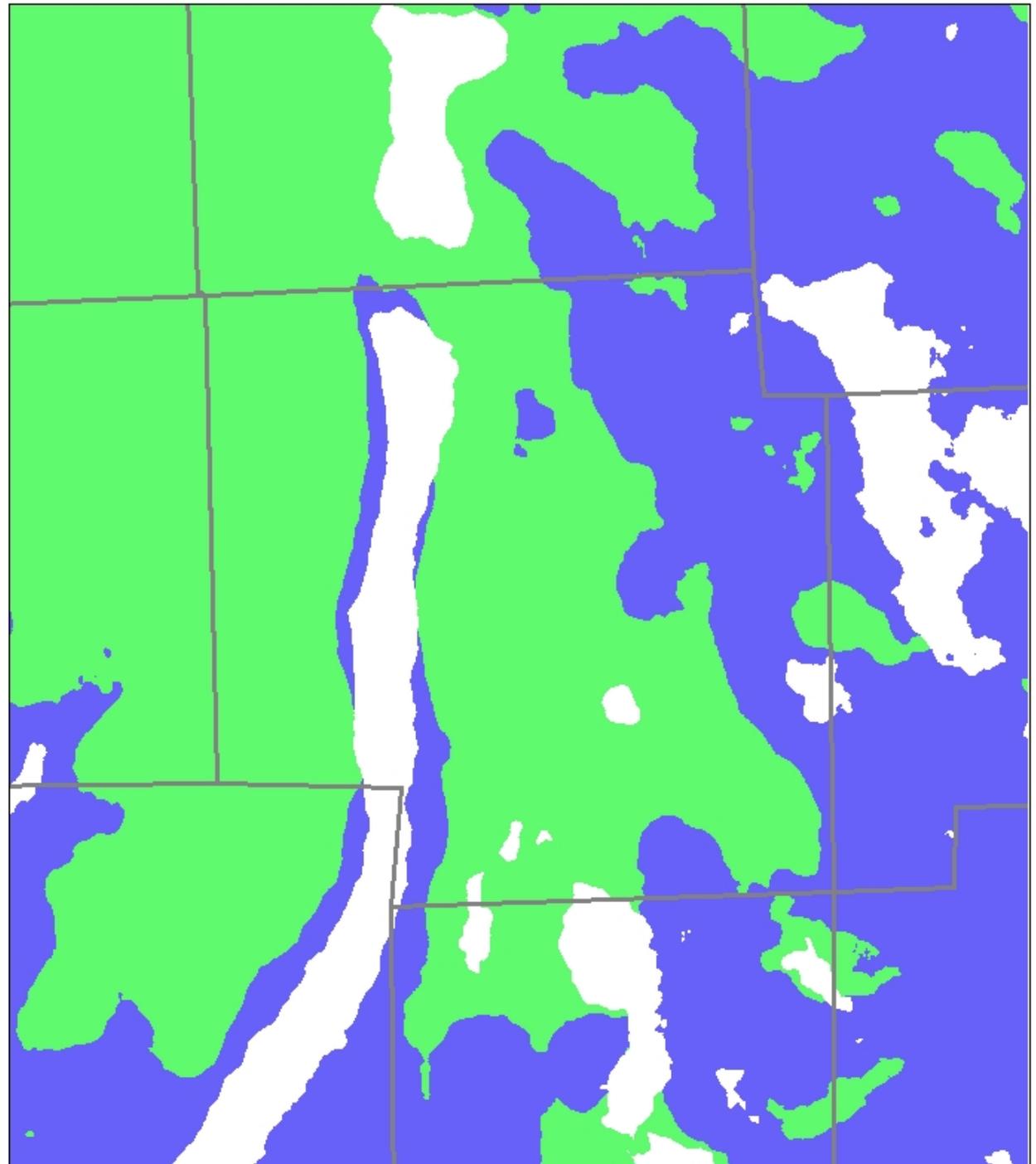


Macon County, Missouri

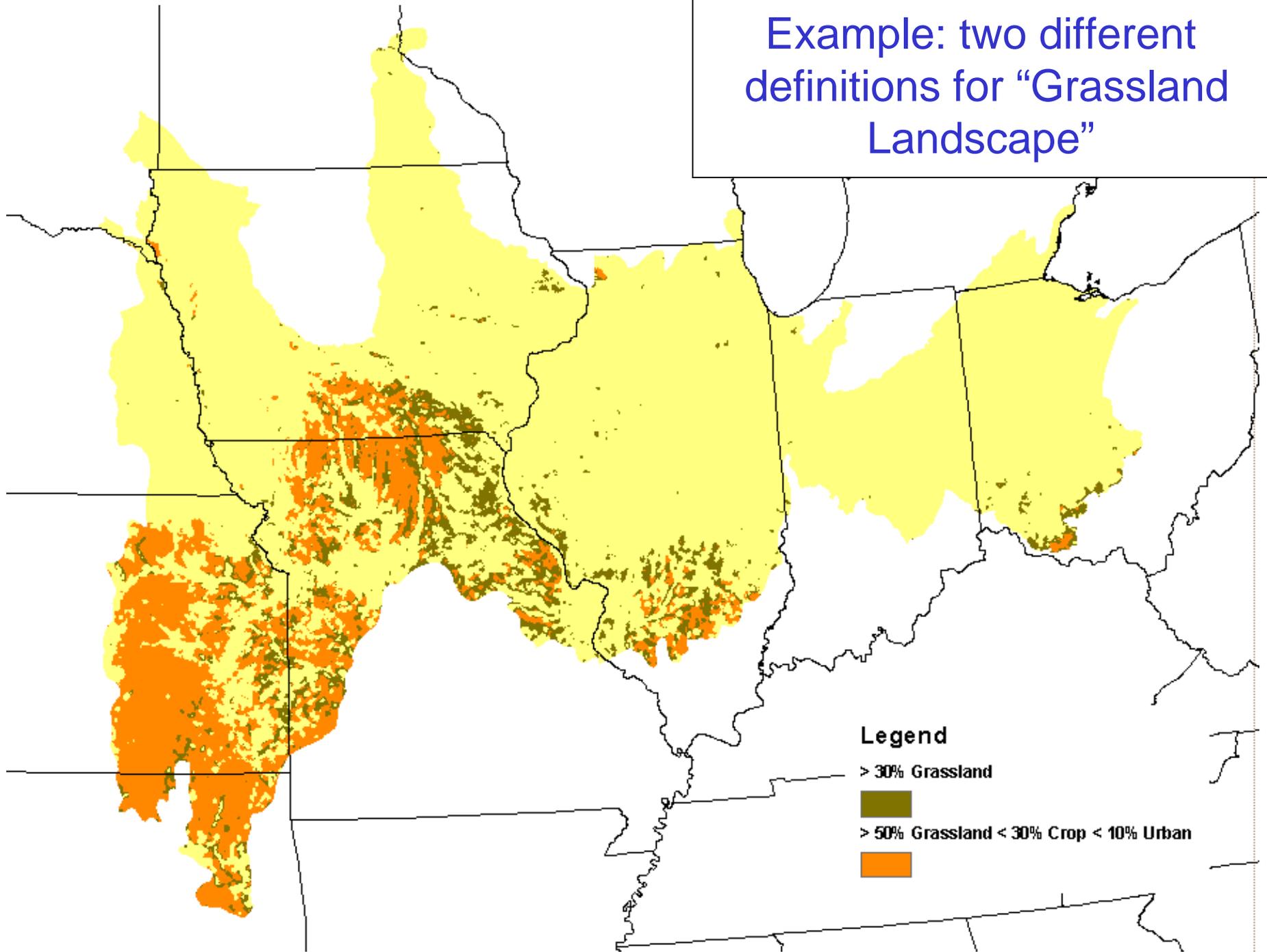
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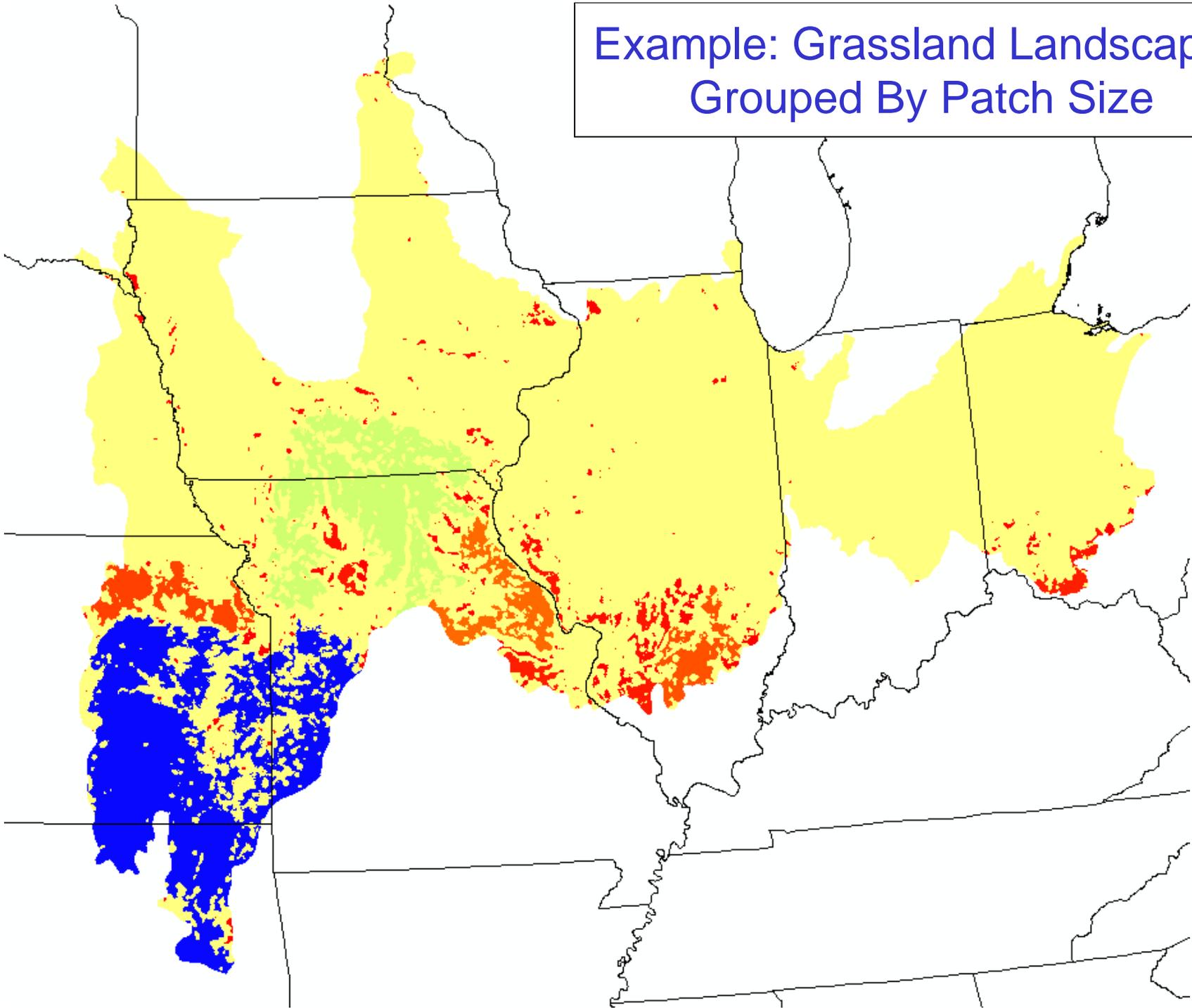
Grass>30 Crop<30



Example: two different definitions for "Grassland Landscape"



Example: Grassland Landscapes
Grouped By Patch Size



New Contract Pending

- Create landform model to refine the general land cover data layer and focus management/restoration activities