

# A Comprehensive Wildlife Strategy for Missouri

The background of the slide is a monochromatic blue-tinted photograph. It depicts a landscape where water has inundated the area, leaving several trees standing as islands in the water. The trees are dark against the lighter blue water, and their reflections are visible on the surface. The overall mood is serene and somewhat somber due to the color palette and the subject of flooding.

This “conservation blueprint” .....  
has the potential to transform  
wildlife conservation efforts  
for all wildlife from opportunistic  
to strategic, piecemeal to holistic,  
and crisis-driven to proactive.

-- From *“Guiding Principles for States to Consider in Developing Comprehensive Wildlife Conservation Plans and Wildlife Conservation Strategies”*

WDPM (Sept. 27, 2002)

“**Make the Plan-Strategy an effective, long-lasting blueprint for conservation agency, and broad public-private partnerships, to develop and implement the Plan-Strategy.** so a broad array of organizations, including other government agencies and NGOs, can help realize the vision.”

# State Wildlife Grants

- “Priority for use of these funds should be placed on those species with the greatest conservation need and taking into consideration the relative level of funding available for the conservation of those species.”



Each state fish and wildlife agency is charged with completing a conservation strategy for that state's wildlife, not just for the agency.

.....**for that state's wildlife,**  
not just for the agency.

.....for that state's wildlife,  
**not just for the agency.**

# Identifying Conservation Opportunity Areas is an integral step in building our Comprehensive Wildlife Strategy

..... conservation opportunity is different for different initiatives, organizations, agencies.

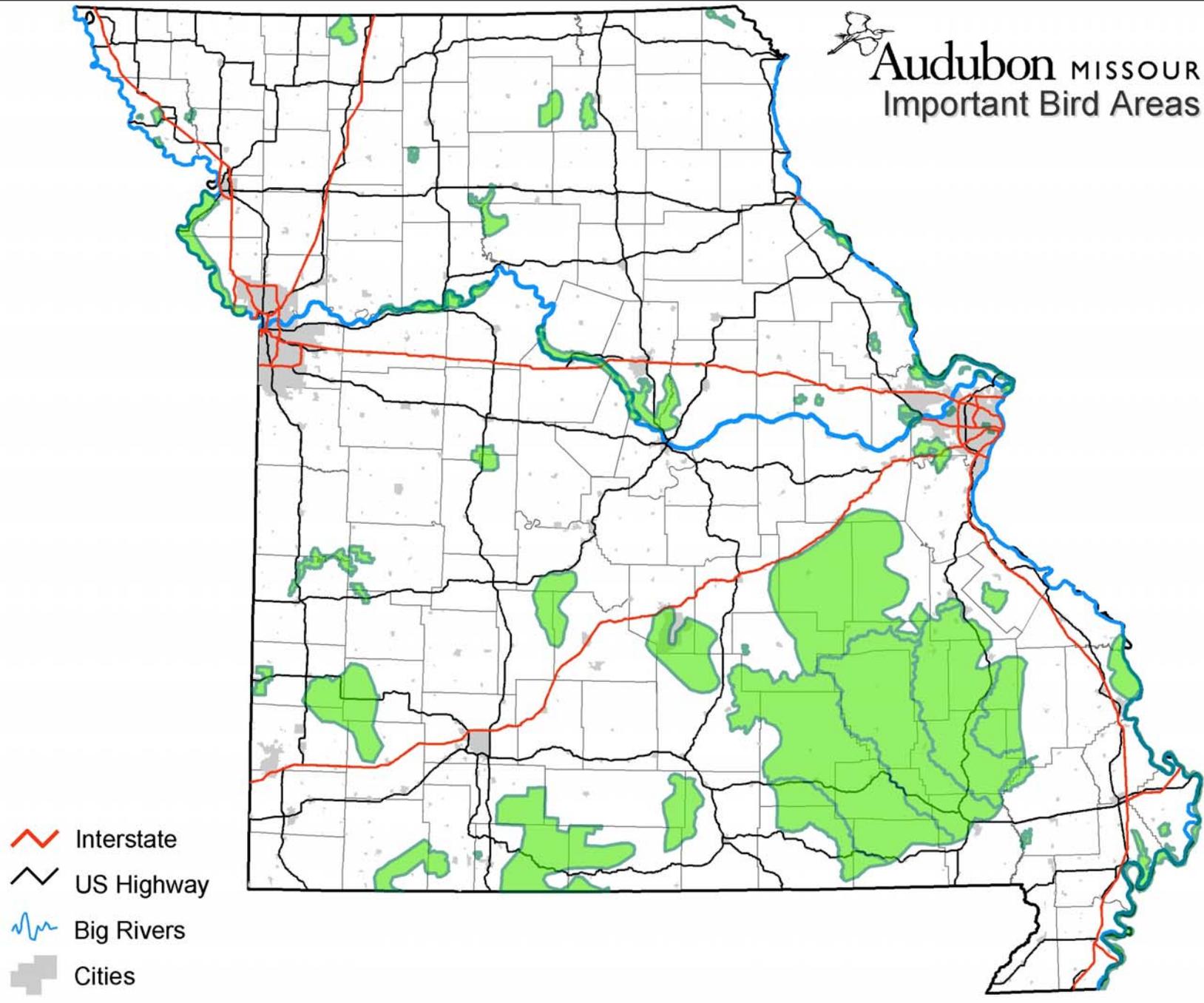
“A spatially explicit plan is necessary for plan integration.”

-- Sara Vickerman (Oregon)



# Audubon MISSOURI

## Important Bird Areas

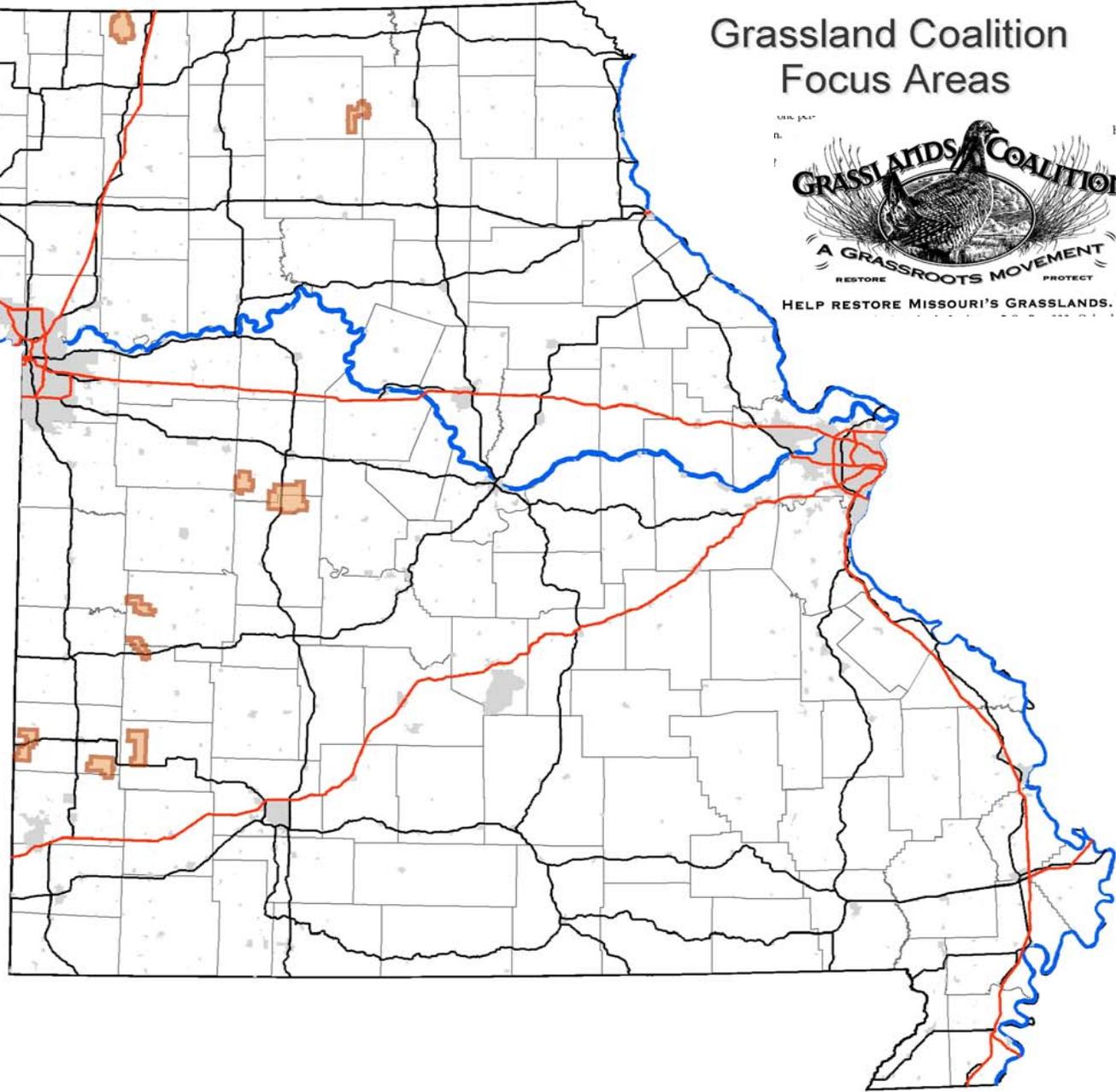


-  Interstate
-  US Highway
-  Big Rivers
-  Cities

# Grassland Coalition Focus Areas



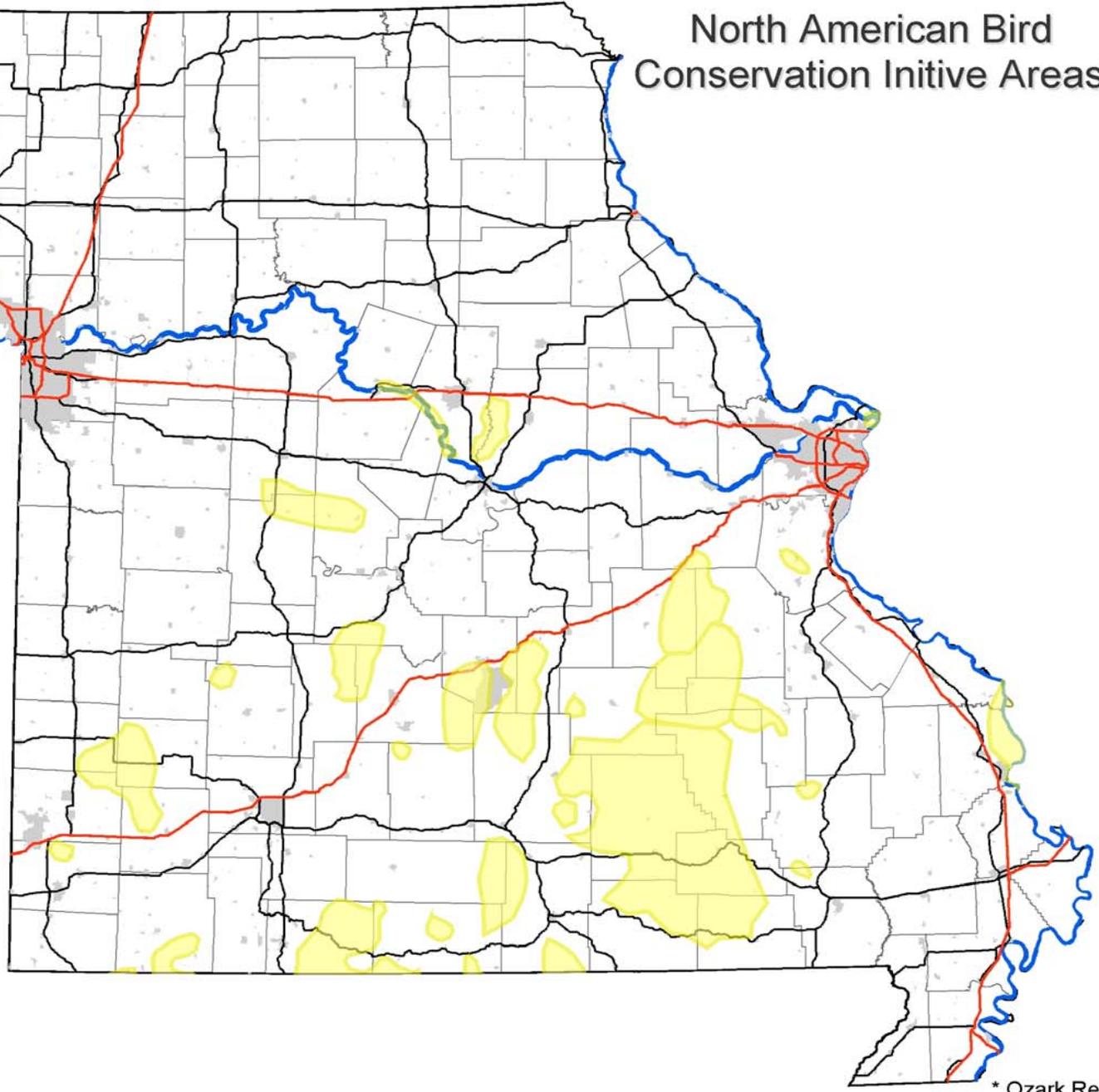
- Interstate
- US Highway
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- Cities



# North American Bird Conservation Initiative Areas\*



-  Interstate
-  US Highway
-  Big Rivers
-  Cities

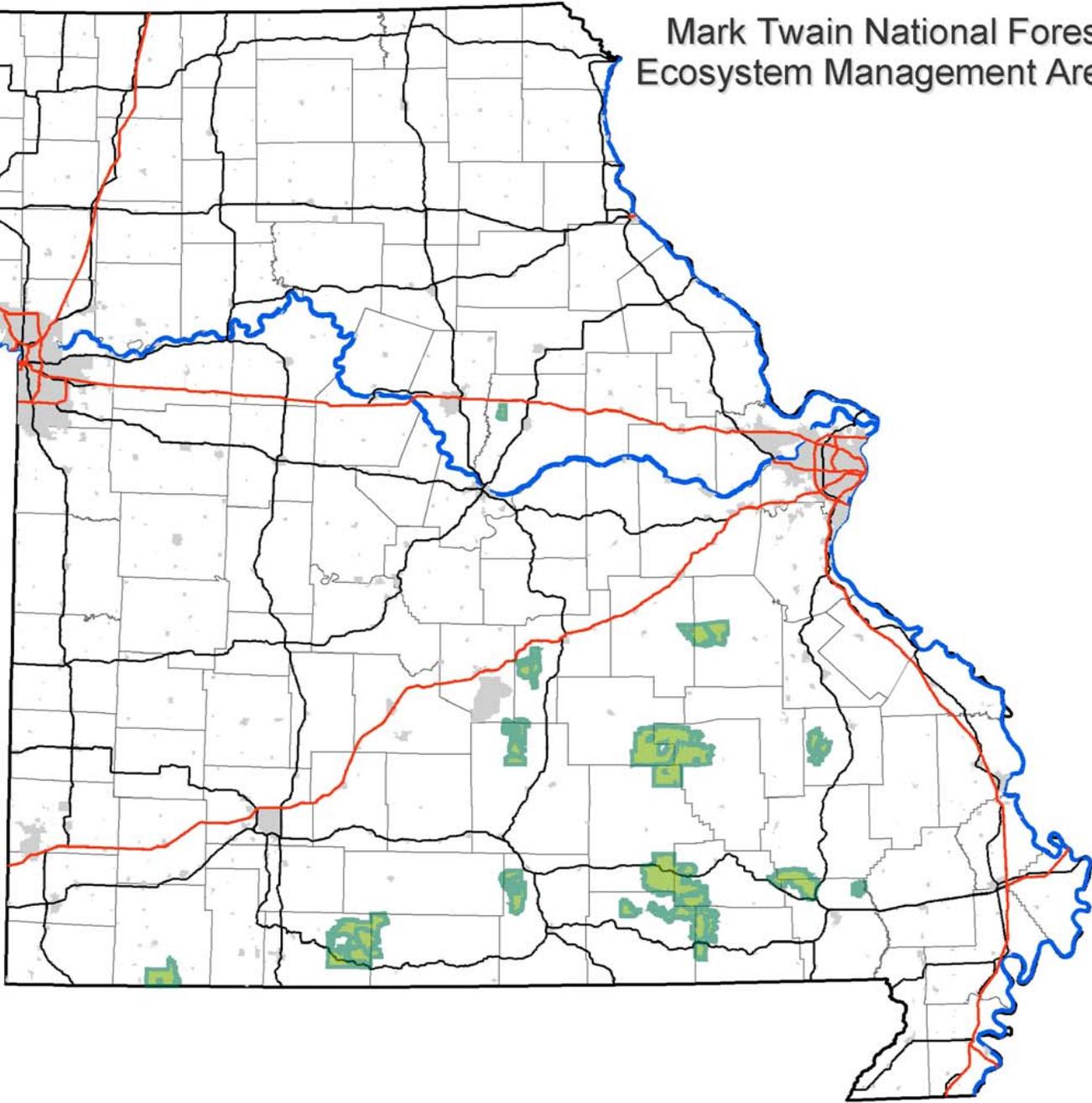


\* Ozark Region Only

# Mark Twain National Forest Ecosystem Management Areas



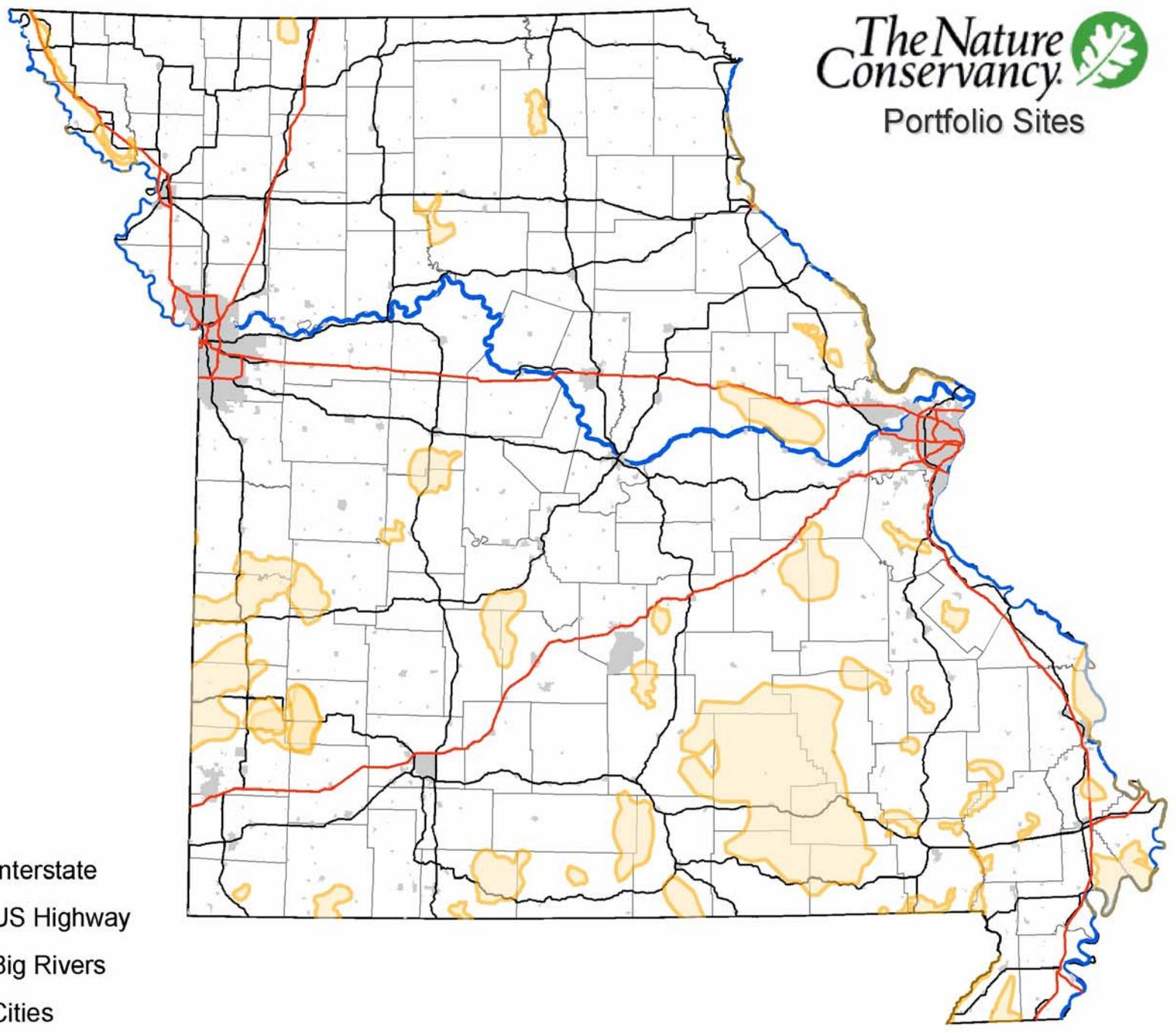
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The Nature Conservancy.   
Portfolio Sites



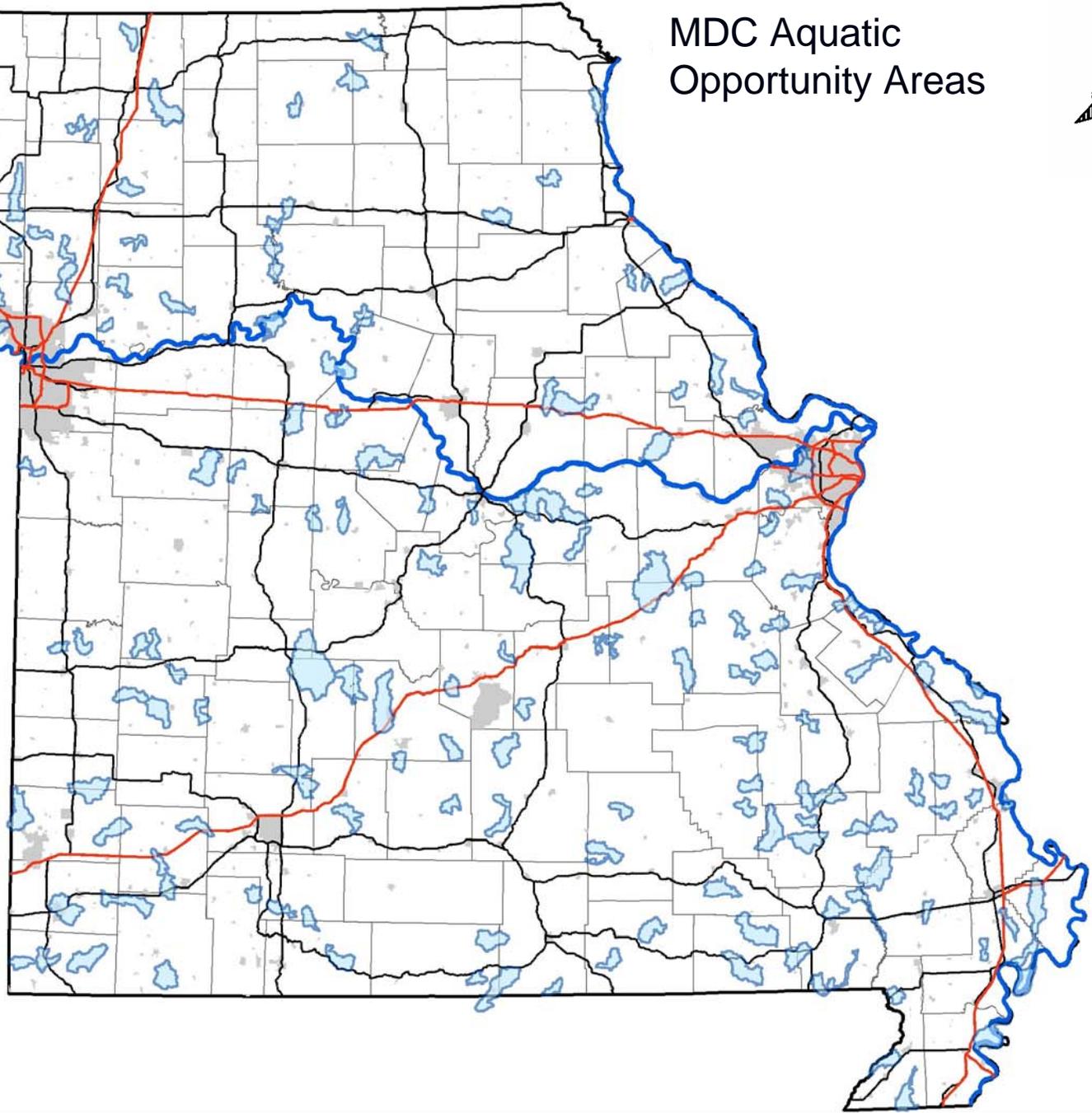
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# MDC Aquatic Opportunity Areas

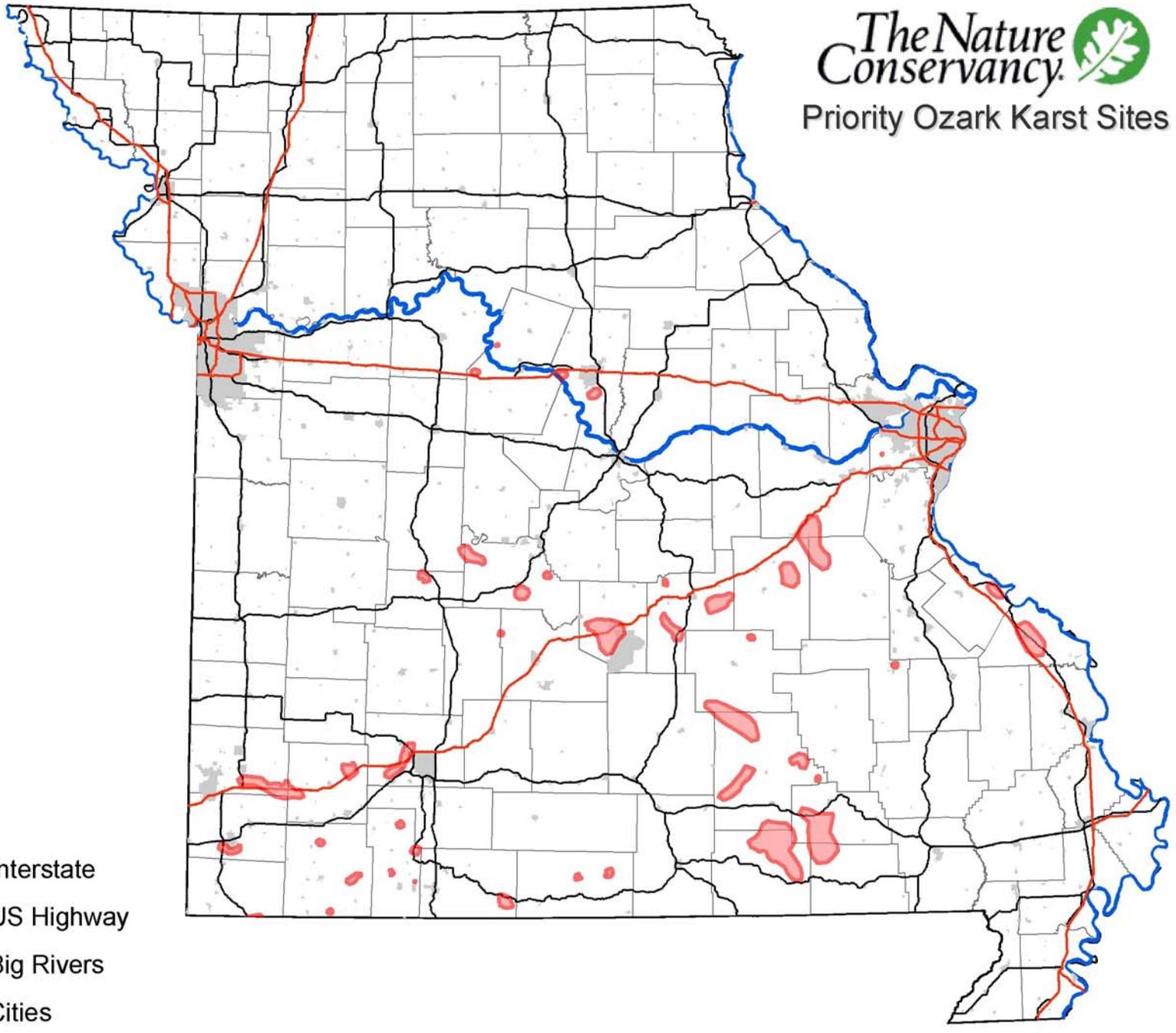


-  Interstate
-  US Highway
-  Big Rivers
-  Cities





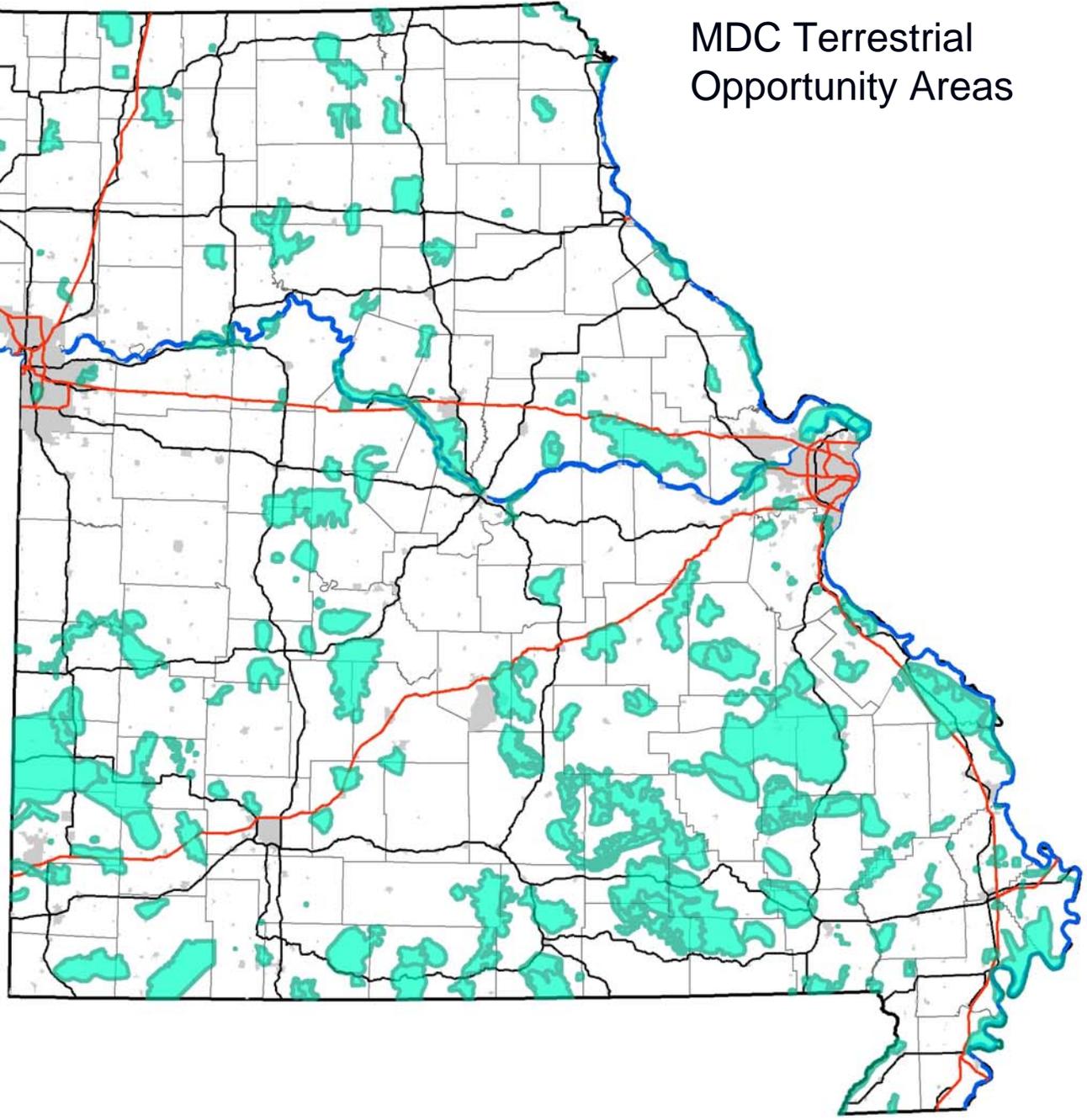
-  Interstate
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# MDC Terrestrial Opportunity Areas

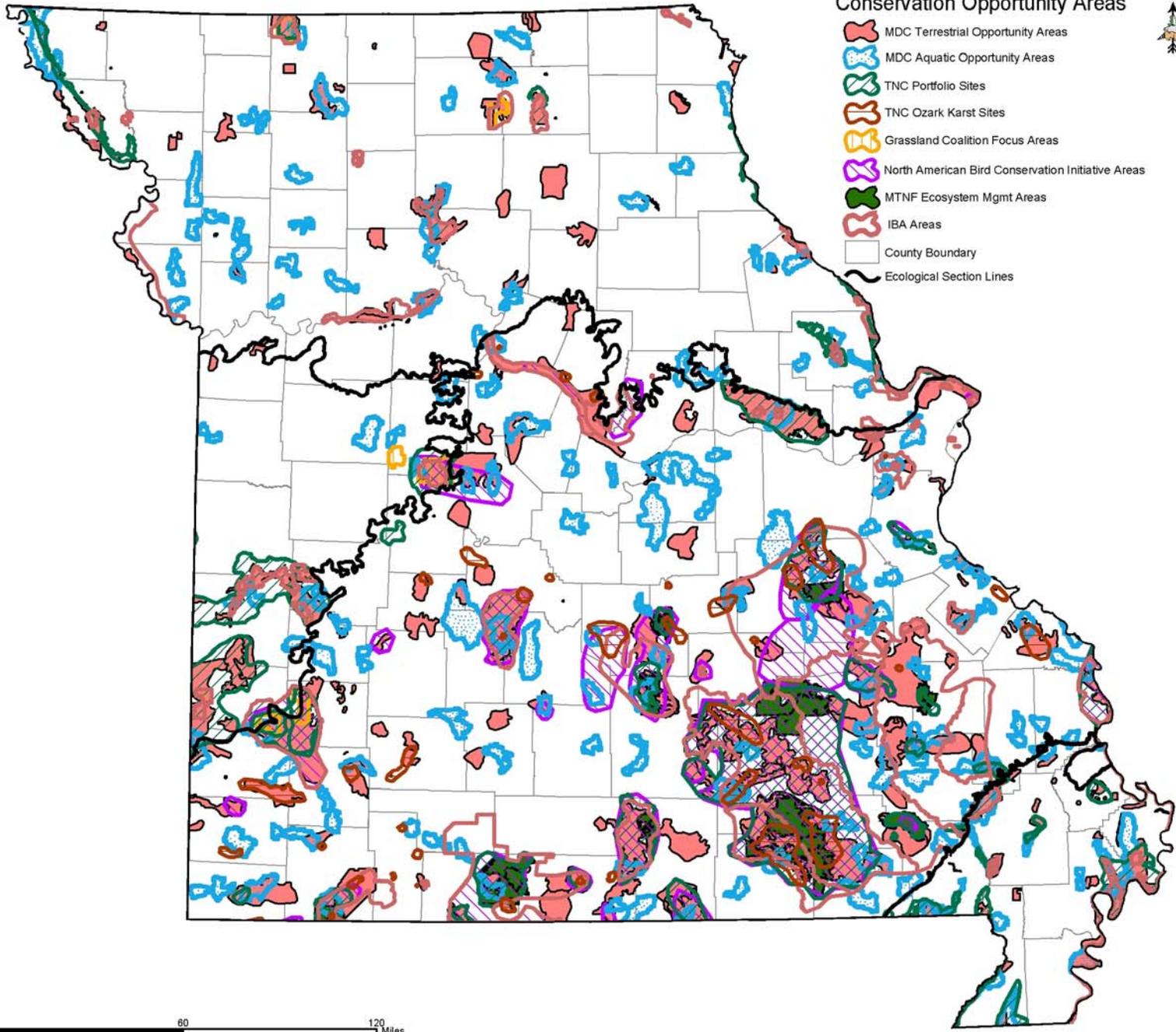


-  Interstate
-  US Highway
-  Big Rivers
-  Cities

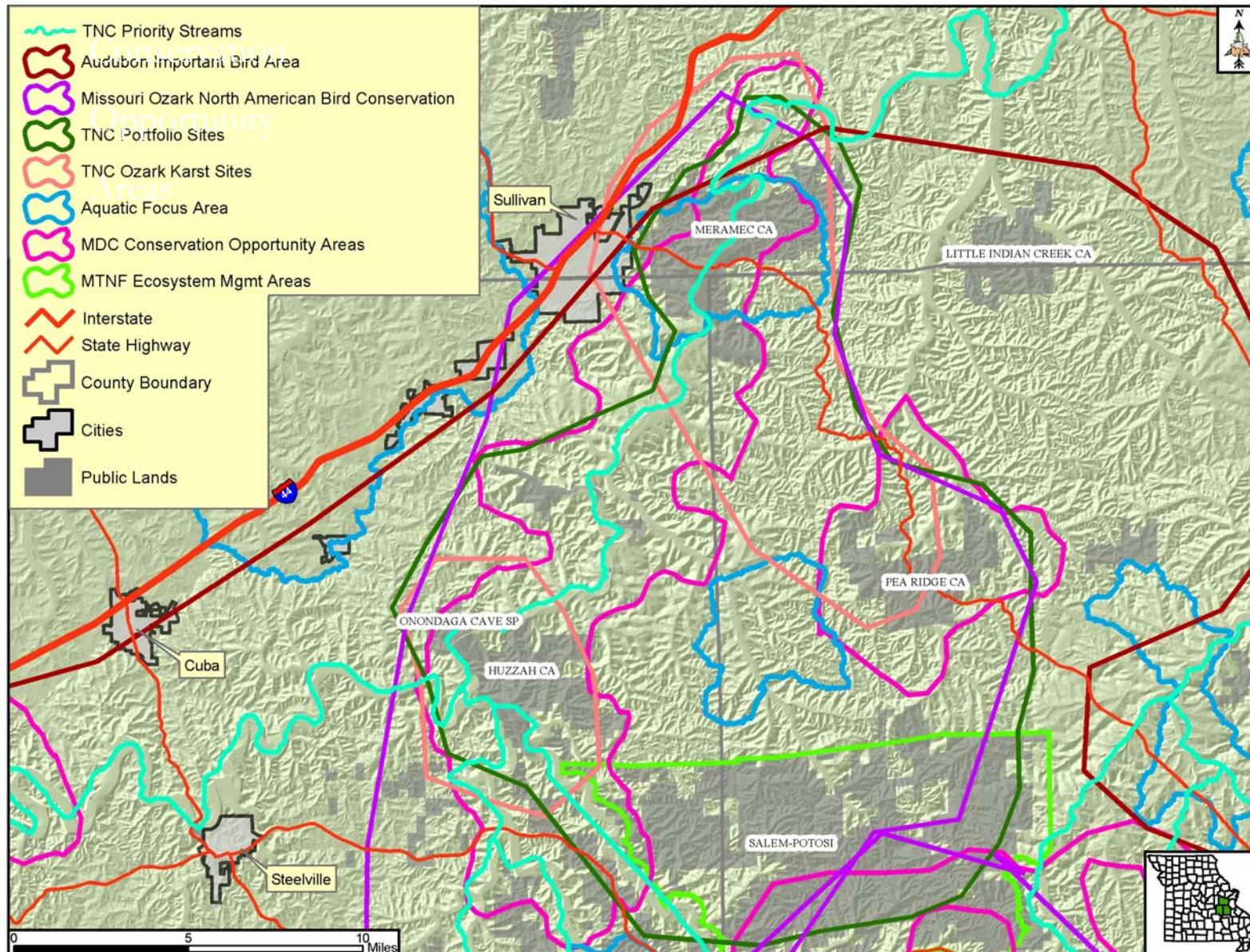




Where are the best places in Missouri to build comprehensive conservation?



# Meramec Hills COA







## Target: Landscapes That Sustain Populations Of Priority Species At Prescribed Levels



### PRIORITY SPECIES

Swainson's Warbler  
Cerulean Warbler  
Swallow-tailed Kite  
Prothonotary Warbler  
Northern Parula  
Hooded Warbler  
Kentucky Warbler  
Yellow-billed Cuckoo  
Wood Thrush  
Louisiana Waterthrush  
Acadian Flycatcher  
Eastern Wood-pewee  
Yellow-throated Vireo  
Yellow-throated Warbler  
Blue-gray Gnatcatcher  
Summer Tanager  
Red-eyed Vireo  
American Redstart  
Broad-winged Hawk  
Pileated Woodpecker  
Cooper's Hawk  
White-breasted Nuthatch

Forest patches should be of sufficient size to support source populations.

Patch Size Model:  $A = (N * D) + B$

A = Area of forest required to support a source population

N = Desired number of breeding pairs

D = Density of breeding birds (pairs / area)

B = Area of a 1-km wide non-hostile buffer around the core (N\*D)

# Target: Landscapes That Sustain Populations Of Priority Species At Prescribed Levels

## Ecological Suites



### Swainson's Warbler

- Prothonotary Warbler
- Northern Parula
- Hooded Warbler
- Wood Thrush
- Acadian Flycatcher
- Blue-gray Gnatcatcher
- Red-eyed Vireo
- American Redstart



### Cerulean Warbler

- Kentucky Warbler
- Summer Tanager
- Yellow-billed Cuckoo
- Louisiana Waterthrush
- Eastern Wood-Pewee
- Yellow-throated Vireo
- Yellow-throated Warbler
- Great Crested Flycatcher
- Scarlet Tanager
- White-breasted Nuthatch



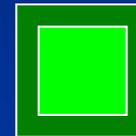
### Swallow-tailed Kite

- Red-shouldered Hawk
- Broad-winged Hawk
- Pileated Woodpecker
- Cooper's Hawk

## Source Population Habitat Requirements

Forest Blocks  $\geq$  10,000ac

500 Pairs



Forest Blocks  $\geq$  20,000ac

500 Pairs



Forest Blocks  $\geq$  100,000ac

~80 Pairs

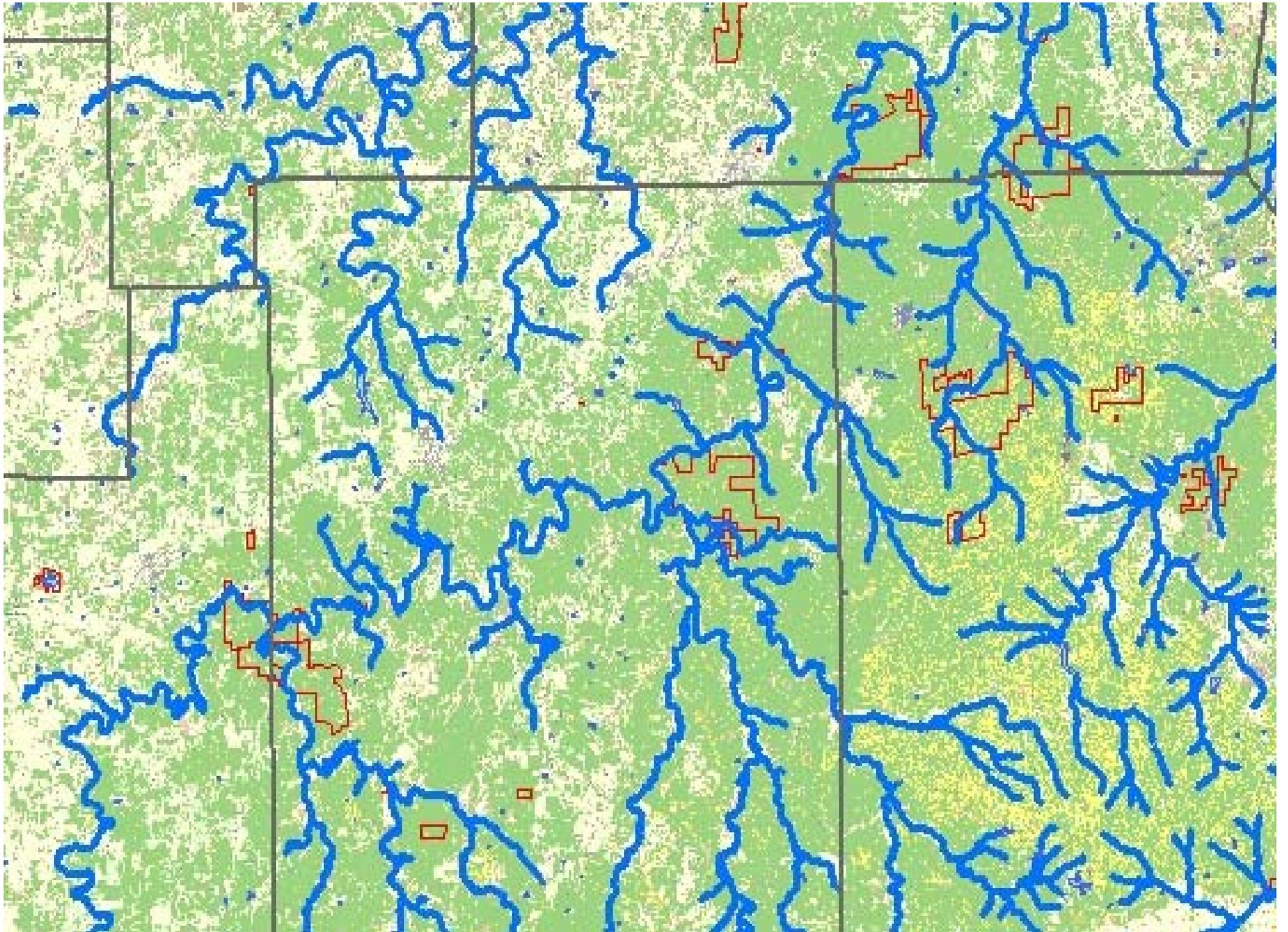


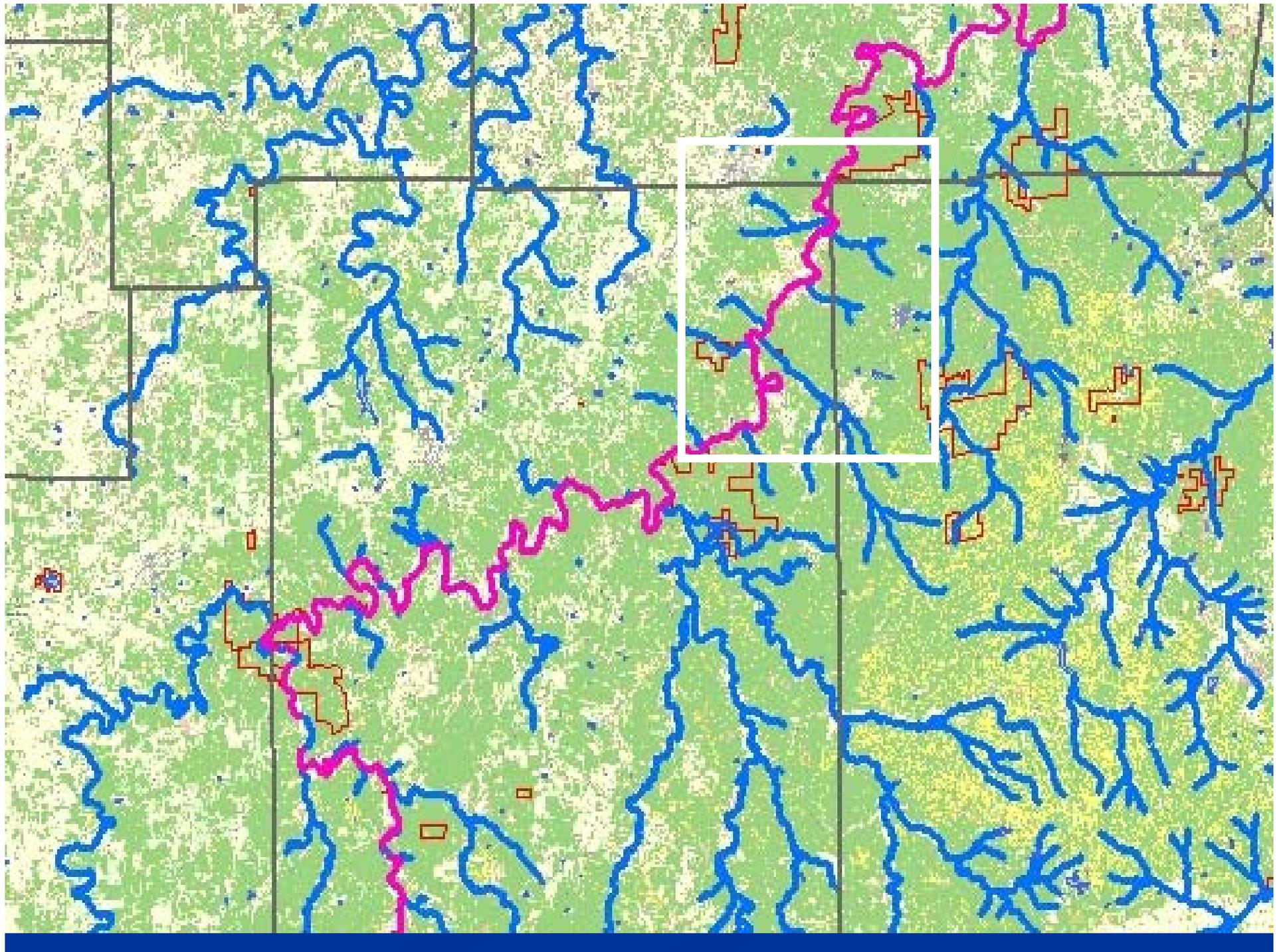








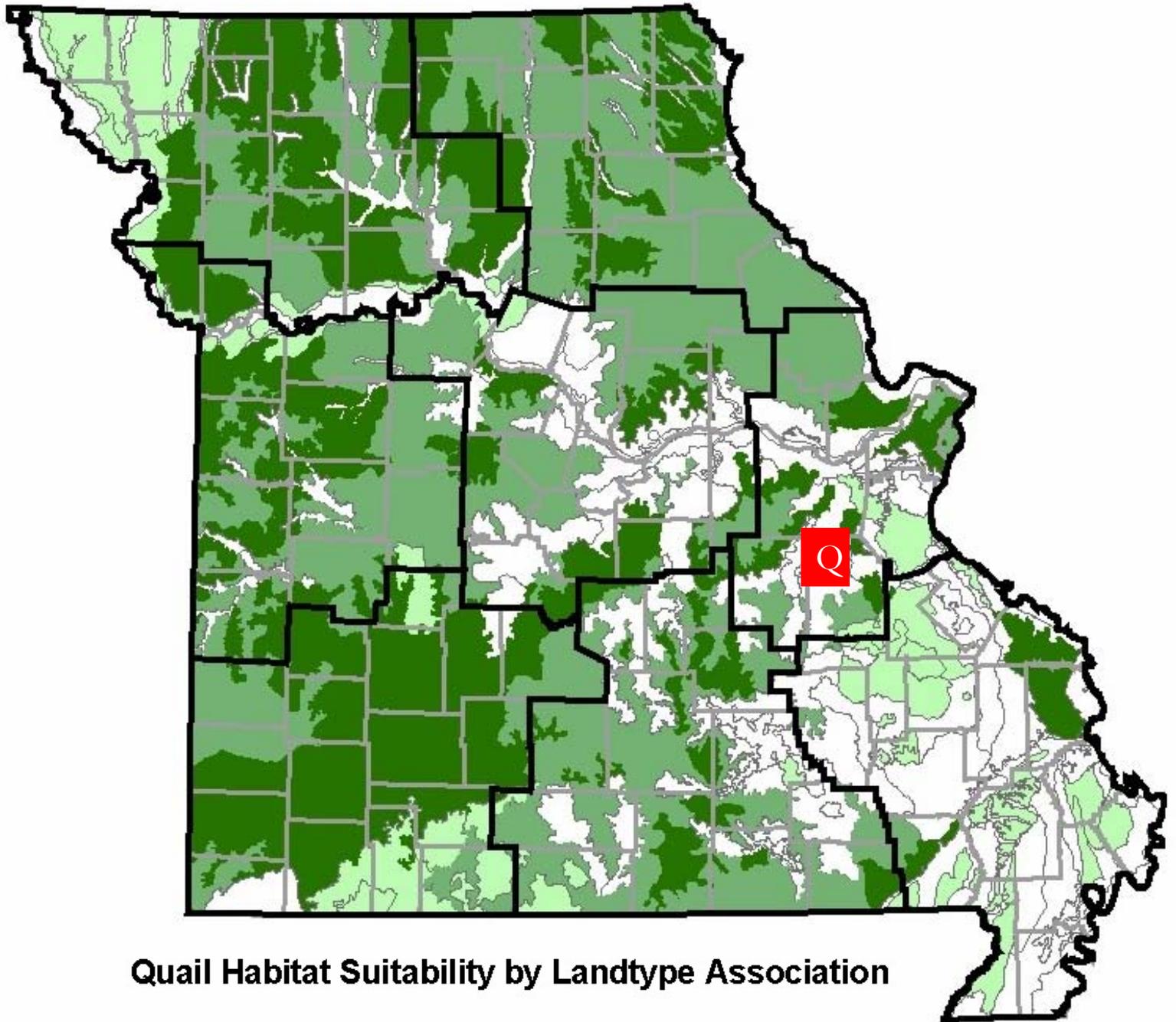








- Unsuitable
- Low
- Medium
- High



**Quail Habitat Suitability by Landtype Association**