

2040 Metropolitan Transportation Plan

Red Flag Environmental Analysis

-Plan updated in 2012

-Red Flag not yet required, we tried to be proactive by doing it on a system level

Purpose

- ▶ Accounts for many variables that may affect projects
 - ▶ May include such things as NRHP properties, endangered species and waterways
- ▶ In our case, used as a “first cut” tool
 - ▶ Potential issues identified but in-depth analysis not performed
 - ▶ Issues with a larger potential effect noted as such in document, quickly identifying how LPAs might prioritize analysis resources

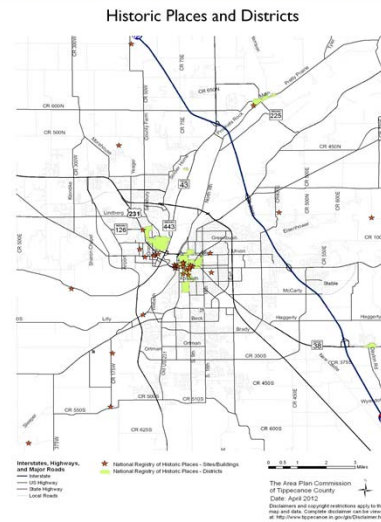
Tippecanoe County Endangered Species

Species	Status	Habitat	Habitat Specific
MAMMALS			
Spotted Owl (<i>Nyctalex borealis</i>)	Endangered	Statewide CRITICAL HABITAT: Big Wyandotte Cave (Crawford County), Ray's Cave (Greene County)	Hibernacula = Caves and mines. Moisture and foraging habitat = small stream corridors with well developed riparian woods, upland forests
BIRDS			
Red-tailed Hawk (<i>Haliaeetus leucocephalus</i>)	Threatened	Statewide	
REPTILES			
Spotted Salamander (<i>Ambystoma s. catesbeianum</i>)	Candidate	Allen, Carroll, Elkhart, Kosciusko, Lagrange, LaPorte, Marshall, Noble, Porter, Pulaski, St. Joseph, Steuben, Tippecanoe	
MUSSELS			
Spottail Pearly Mussel (<i>Pectinobasus ohyssus</i>)	Candidate	Carroll, Cass, Clark, Floyd, Fulton, Pulaski, Spencer, Tippecanoe, Vanderburgh, Warrick, White	Sci. Ohio, Tippecanoe, and Wabash Rivers
Clubshell (<i>Pleurobema clava</i>)	Endangered	Carroll, Dubois, Fulton, Kosciusko, Marshall, Pulaski, Tippecanoe, White	Rivers
Twotail (<i>Cyprinema stegaria</i>)	Endangered	Carroll, Davess, Lawrence, Martin, Pike, Tippecanoe, Wabash, White	Rivers

For example, more projects (5) possibly affecting Burnetts Creek and Wildcat Creek than any other water bodies

What We Examined

- ▶ **Social Impacts**
 - ▶ Underserved groups
 - ▶ Tribal Areas
 - ▶ Historical Sites/Districts
- ▶ **Environmental Impacts**
 - ▶ Parks and Open Spaces
 - ▶ Cemeteries
 - ▶ Endangered Species
 - ▶ Floodplains
 - ▶ Water Quality
 - ▶ Hazardous Waste
 - ▶ Leaking Underground Storage Tanks

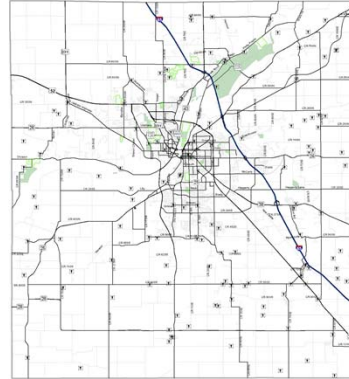


- Underserved groups is “neighborhoods, low income and traditionally underserved groups”
- No tribal areas in the county
- 15 historic districts and 33 historic sites (six sites on state register only)

Process

- ▶ Mapped all 2040 Plan projects
- ▶ Applied buffer to projects
 - ▶ 150' on all sides of limited access facilities
 - ▶ 50' on all sides of other facilities
- ▶ Impact data gathered
 - ▶ IndianaMap
 - ▶ Census
 - ▶ NRHP
 - ▶ EPA
 - ▶ others

Parks, Cemeteries and Open Spaces



-“others” include IDEM, Indiana SHPO, Nat’l Wetlands Inventory, US Fish/Wildlife Services, locally derived data

Findings

- ▶ Buffered 2040 Plan Projects intersecting studied factors identified
 - ▶ Factor identified as well (multiple roads, one river)
 - ▶ Areas needing possible future in-depth examination identified

Water Bodies Potentially Affected by Projects

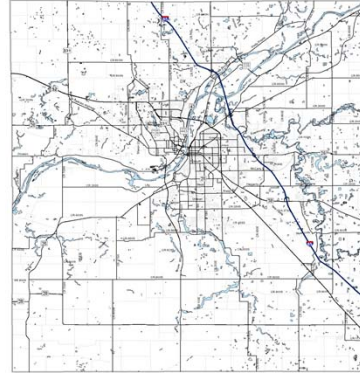
Project	Location	Project Sponsor	Improvement
Burnett Creek			
CR 73E	Soldiers Home to CR 600N	Tipton Co	Urban Conversion
I 65	SR 43 to new US 231	INDOT	Six Lane Improvement
Prophetstown Park	SR 43 to N 9th	DNR	New Road
US 231	US 52 to I 65	INDOT	New Road
US 231	I 65 to SR 43	INDOT	New Road
Hidley Lane			
Morehouse	US 52 to CR 600N	Tipton Co	Urban Conversion
US 231	US 52 to I 65	INDOT	New Road
Indian Creek			
Dixson	CR 700W to County Line	Tipton Co	Rural Improvement
William Mey	SR 26 to LIAB	Tipton Co	Urban Conversion
Morehouse	US 52 to CR 600N	Tipton Co	Urban Conversion
Lauremia Creek			
I 65	I County Line to SR 38	INDOT	Six Lane Improvement
Sugar Creek			
CR 900E	CR 300N to CR 800N	Tipton Co	Rural Improvement
Wishah River			
CR 700W	SR 25 to Dixson	Tipton Co	Rural Improvement
I 65	SR 38 to SR 43	INDOT	Six Lane Improvement
N 9th	Duncan to Swisher	Tipton Co	Rural Improvement
River Road	RR Overpass to N City Limits	West Lafayette	Corridor Study
Wes Creek			
CR 600S	Wes School Rd to US 52	Tipton Co	Urban Conversion
S 9th	CR 430S to CR 510S	Tipton Co	Four Lane Improvement
Wildcat Creek			
CR 900E	SR 26 to SR 38	Tipton Co	Rural Improvement
E County Line Rd	HH to SR 26	Tipton Co	Rural Improvement
I 65	SR 38 to SR 43	INDOT	Six Lane Improvement
SR 24	CR 550E to CR 900E	INDOT	Four Lane Improvement
SR 24	SF of Wishah Creek	INDOT	Replace Bridge

- Features intersecting only buffers were included as well as features intersecting both buffers and actual project (means slightly wider spread)
- Each factor produced a list of projects potentially affecting it (floodplains, opens spaces, etc) like one shown here

Conclusion

- ▶ While admittedly general in nature, the analysis found nothing that immediately precluded adoption of the 2040 Metropolitan Transportation Plan
- ▶ It serves as a starting point for consideration of potential project level impacts after adoption

Tippecanoe County Wetlands



Interstates, Highways,
and Major Roads
— Interstate
— US Highway
— State Highway
— Local Road

NWI wetlands (2011)

The Area Plan Commission
of Tippecanoe County
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