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Threatened and Endangered Animal Species

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Michigan's Listed Animal Species

- 104 listed animal species in MI
 - Federal species = 23
 - State species = 81
- Special Concern = 194
- Listed animals are protected from "take"
- Other laws and species



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What right-of-way areas are most likely to have listed animals?



- Creeks and rivers
- Forested wetlands
- Emergent wetlands
- Coastal Great Lakes
- Oak savannas

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T&E animals – why are they important?

- Can affect the cost, design or schedule of MDOT jobs
 - Cost – surveys may be contracted out or alternative materials required
 - Design – changes to design to avoid, minimize, or mitigate impacts
 - Time – regulatory agency coordination, consultation, permitting, and survey



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Which species are most likely to affect MDOT projects?

Three taxa represent 95% of issues with design and scheduling

- Indiana and Northern Long-Eared Bat
- Eastern Massasauga Rattlesnake
- Freshwater Mussels



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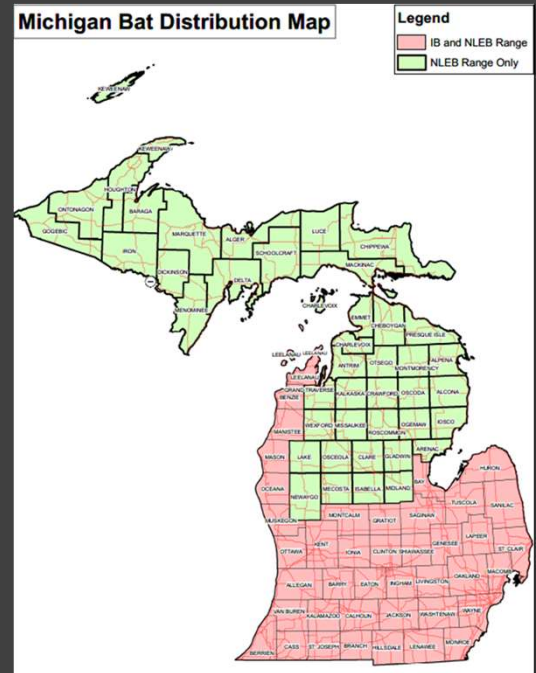
T&E animals – Most common questions

- **[Bats]** Will there be tree removals?
 - Winter cutting (Oct 1 – Mar 31)?
 - Acreage?
- **[EMR]** Will there disturbance within these regulated areas?
 - Clearing/tree removals?
 - Culvert replacements?
 - Mulch blanket/slope restoration required?
- **[Mussels]** Will there be work below the OHWM?

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Indiana and Northern Long-Eared Bat

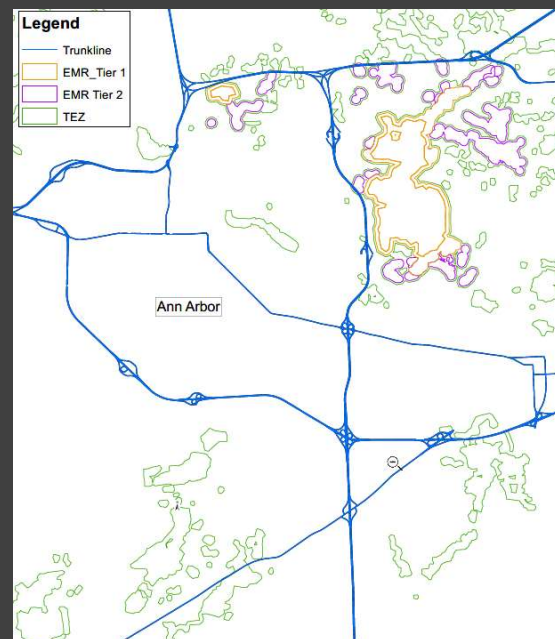
- Winter removals (Oct 1 – Mar 31) may be required
- Bats and bridges – inspections may be required (May 15 –Aug 15)
- Can require contracting, which may add another 10 weeks (at least)
- Consultation (30 days)



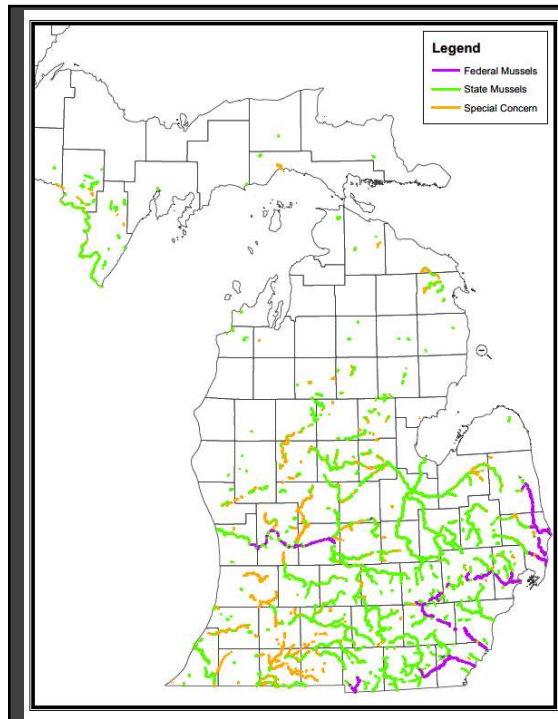
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Eastern Massasauga Rattlesnake

- Occurs throughout Lower Peninsula
- Requires more design info
- BMP driven species
 - Winter tree removals
 - Seasonal ditching or culvert restrictions
 - No traditional mulch blanket
 - Silt fence as barrier
 - Contractor notification
- Consultation



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Freshwater Mussels

- Occur mainly in the LP
- Generally require survey and relocation (Jun 1 – Oct 15)
- May require contracting, which can add 10 weeks
- A one-year lead time for state listed species and two-year lead time for federally listed species is recommended

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Surveys

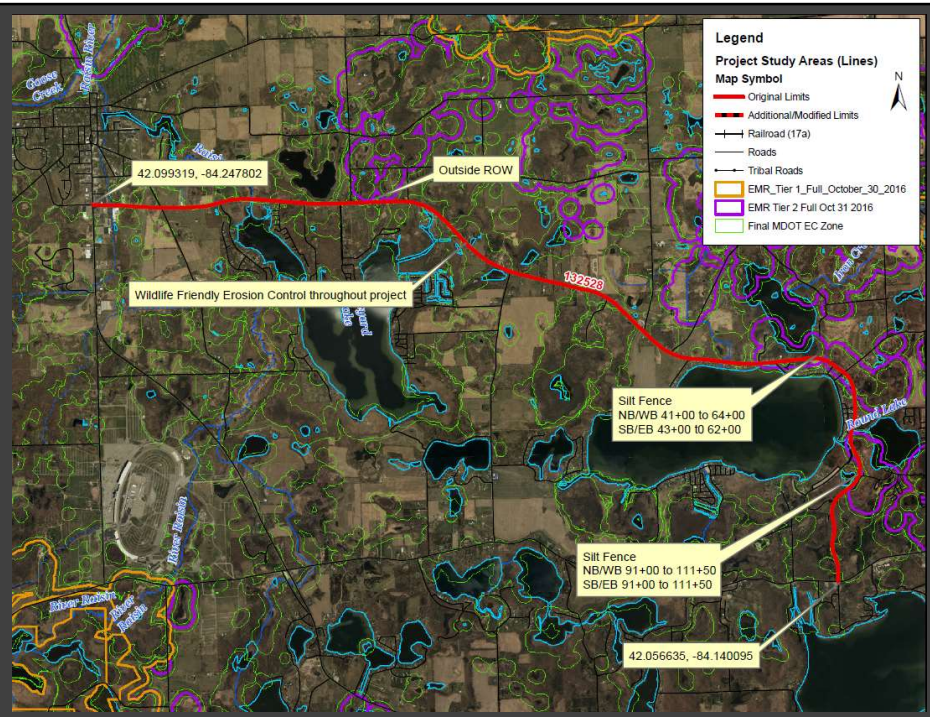
- Must account for design and constructability
- Each group has a protocol that dictates methods
- Positive surveys may result in delays due to permits, consultation, or additional surveys. For federal species the process can take 2 years.



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Project Example JN 132528

- Wildlife friendly erosion control
- Silt fence to exclude EMR
- EMR FUSP included in project package



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Questions?

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