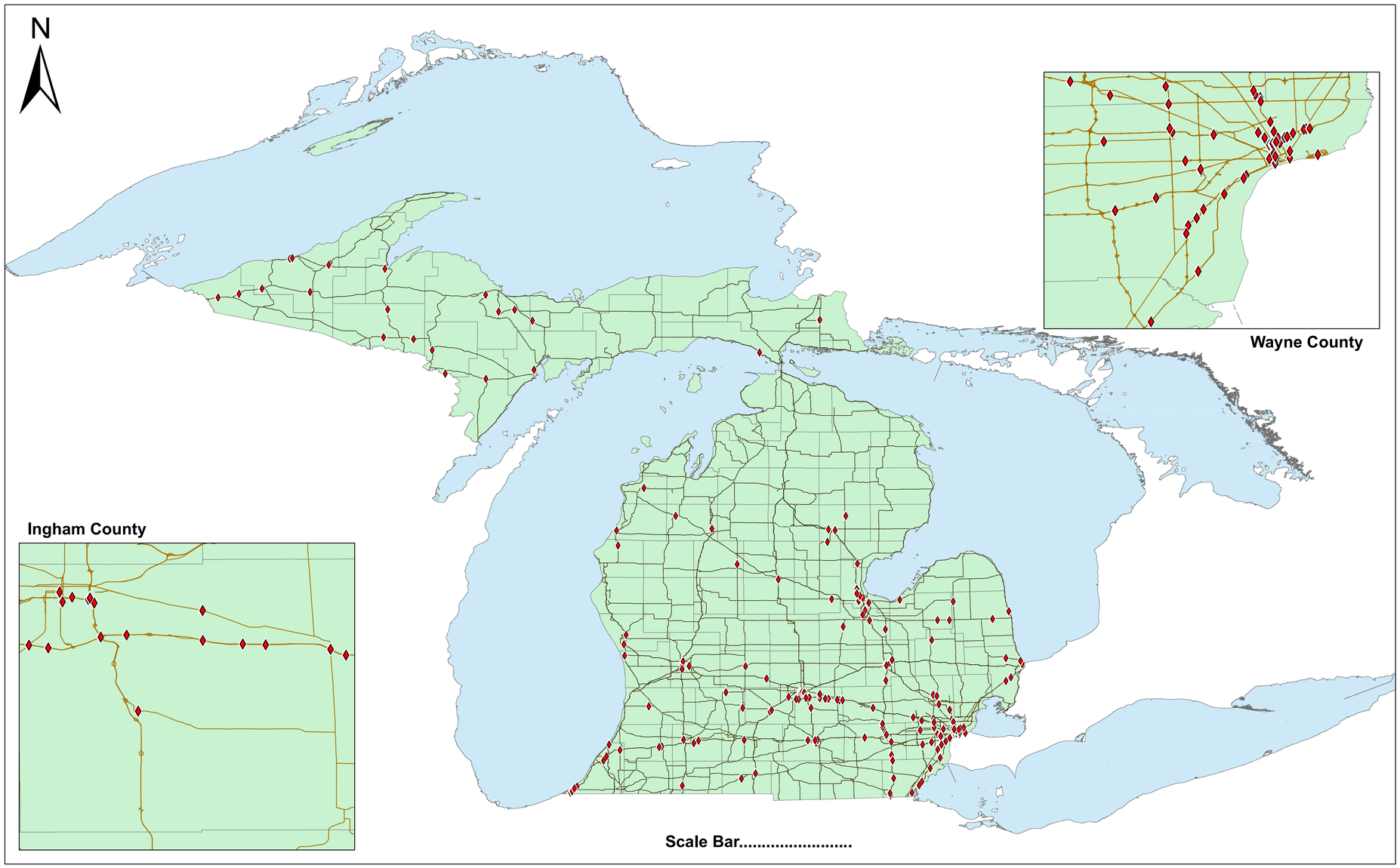
Bridges Over Troubled Waters

Structurally Deficient Bridges in Michigan



RATING - CONDITION	DESCRIPTION
4 -POOR	Advanced corrosion, deterioration, cracking or chipping. Also significant erosion of concrete bridge piers.
3 - SERIOUS	Corrosion, deterioration, cracking and chipping, or erosion of concrete bridge piers have seriously affected deck, superstructure, or substructure. Local failures are possible.
2 - CRITICAL	Advanced deterioration of deck, superstructure, or substructure. May have cracks in steel or concrete, or erosion may have removed substructure support. It may be necessary to close the bridge until corrective action is taken.
1 - "IMMINENT" FAILURE	Major deterioration or corrosion in deck, superstructure, or substructure, or obvious vertical or horizontal movement affecting structure stability Bridge is closed to traffic but corrective action may put back in light service.
0 - FAILED	Out of service - beyond corrective action.

"Structurally Deficient": A highway bridge is classified as structurally deficient if the deck, superstructure, substructure, or culvert is rated in "poor" condition (0 to 4 on the NBI rating scale). A bridge can also be classified as structurally deficient if its load carrying capacity is significantly below current design standards or if a waterway below frequently overtops the bridge during floods.

(Michigan.gov/MDOT

Map created by Amy Gilley

Deficiency data from the 2017 National Bridge Inventory Program (NBI) conducted by the U.S. Department of Transportation, Federal Highway Administration (https://www.fhwa.dot.gov/bridge/nbi/ascii2017.cfm)

2017 Highway Bridge Report from Michigan Department of Transportation (https://www.michigan.gov/mdot/0,4616,7-151-9618_47418---,00.html)

June 11, 2018