

Road-Stream Crossing Survey



Purpose

- Create a publicly accessible inventory of road-stream crossings
 - Provide crossing owners information to make decisions
 - Aid crossing owners with finding partners/funding
 - Locate and inventory assets
 - Reduce costs with proactive replacement (competitive bids)

Advantages of the Survey

- Database is updated daily
- Data collected in the field by trained professionals
- Comprehensive data
- Publicly available

To view data click on following links:

[Monroe County Stream Crossing Viewer](#)



Types of Crossings Evaluated

- Bridges
- Culverts
- Fords



Report focus: perennial streams on township roads

Surveying Crossings

- Measurements:
 - Structure
 - Stream
 - In and out of crossing influence
 - Embankments/Ditches
 - Road



Above: measuring perch height

Left: measuring structure height

Calculations



- Flood Resiliency
- Site Erosion
- Sizing Requirements
- Aquatic Passability



Making the Survey Available

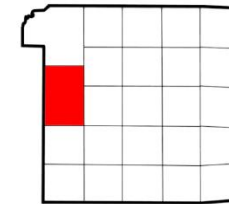
- Township Reports
 - Table of crossing with numbered rankings
 - Maps of crossings with graphs
 - Online map accessibility guide
 - Funding contact list



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Town of Sparta Stream Crossing Survey



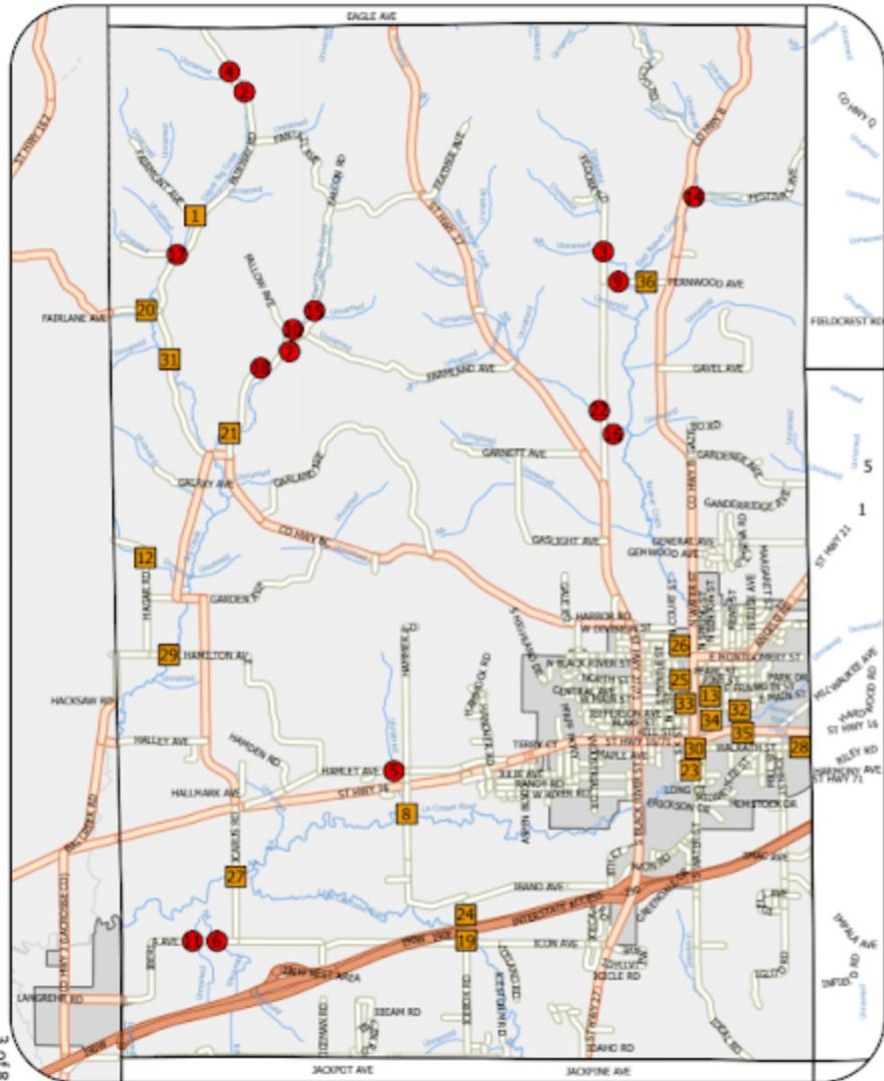
7/6/2023

D. Ellefson, D. Lueck



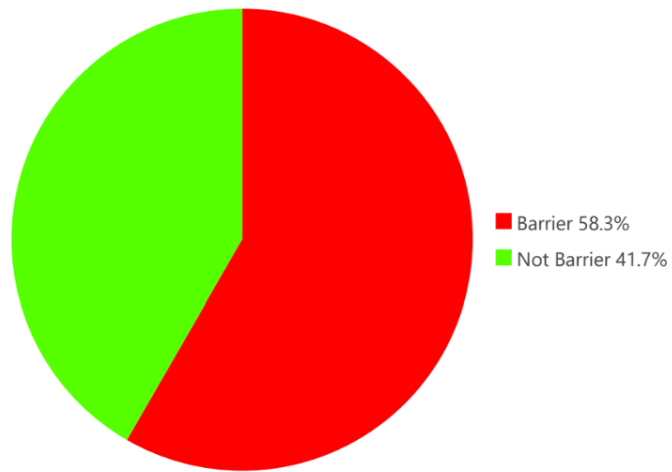
Replacement Priority Ranking at Road Stream Crossings

Town of Sparta

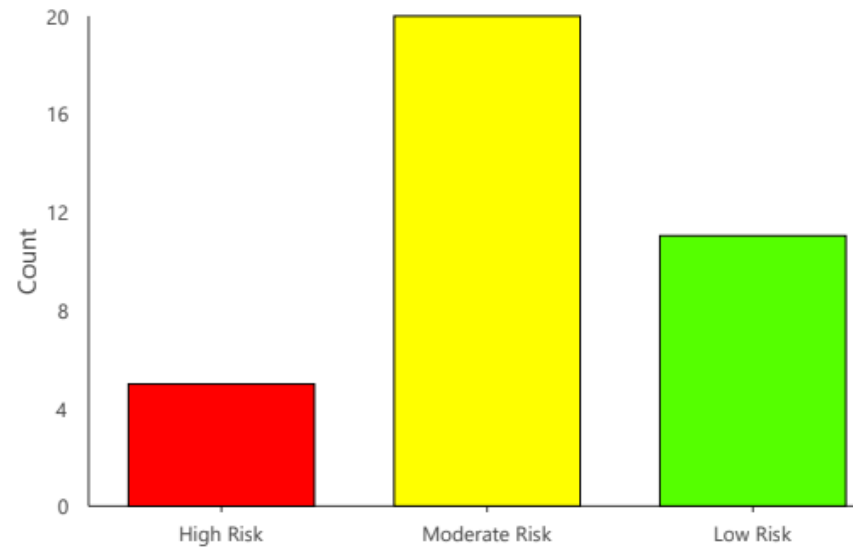


Rank	Crossing Name	Score	Recommended Action
1	Marimba	39	Replacement
2	Mainstream 2	34	Replacement
3	Mariposa Road	33	Replacement
4	Marjoram Road	32	Replacement
5	Nett Ave	30	Replacement
6	Oboe Rd near N of Oakdale Rd	30	Replacement
7	Market Rd	29	Near Replacement
8	Nemo Avenue	28	Near Replacement
9	Marigold Avenue	26	Near Replacement
10	Oboe Avenue below Oakdale	26	Near Replacement
11	Nebraska 1	24	Closely Monitor
12	Nebraska 2	24	Closely Monitor
13	Marimba 2nd Crossing	22	Closely Monitor
14	Necklace Avenue	21	Annual Assessment
15	Nett Ave 2 nd Crossing	17	Annual Assessment
16	Market Road near Neola	16	Annual Assessment
17	Mainstream 1st crossing W of CTH X	13	Annual Assessment
18	Oakdale near tree farm	12	Annual Assessment
19	Oboe RD	12	Annual Assessment
20	Mainstream near Nachez	10	Annual Assessment
21	Mallard Road	9	None
22	Nashville Ave 1 st crossing W of Mainstream Rd	9	None
23	Nebraska Ave 1st crossing W of STH 27	8	None
24	Manna Avenue	7	None
25	Oakdale Avenue off County Road PC 2	7	None
26	Oakland Rd	1	None

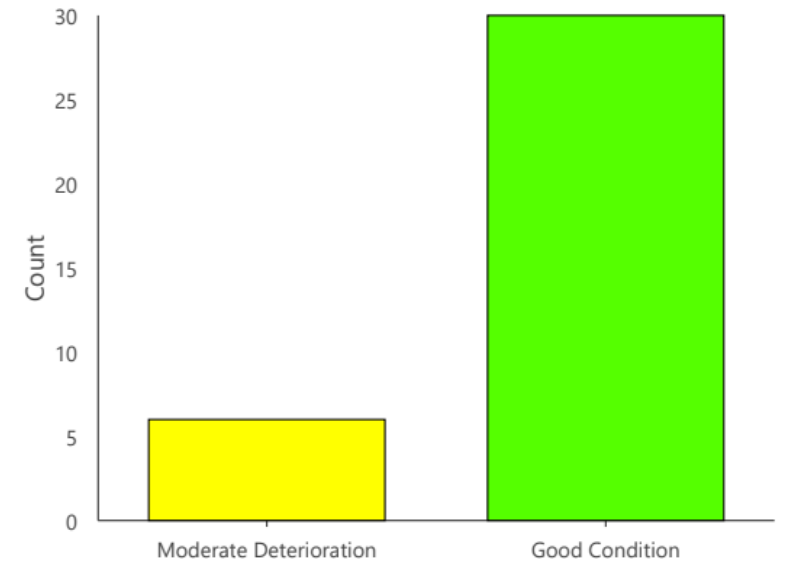
Aquatic Passability



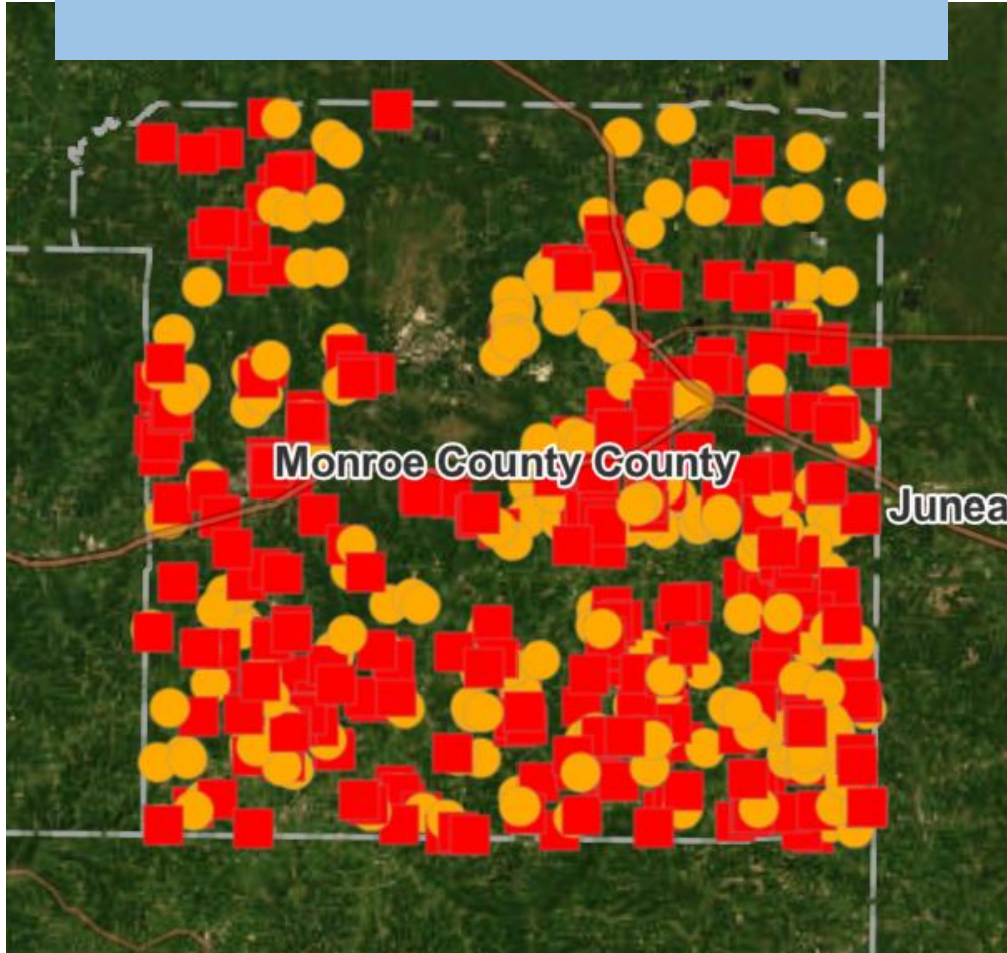
Flood Resiliency



Condition



Results



Surveyed:

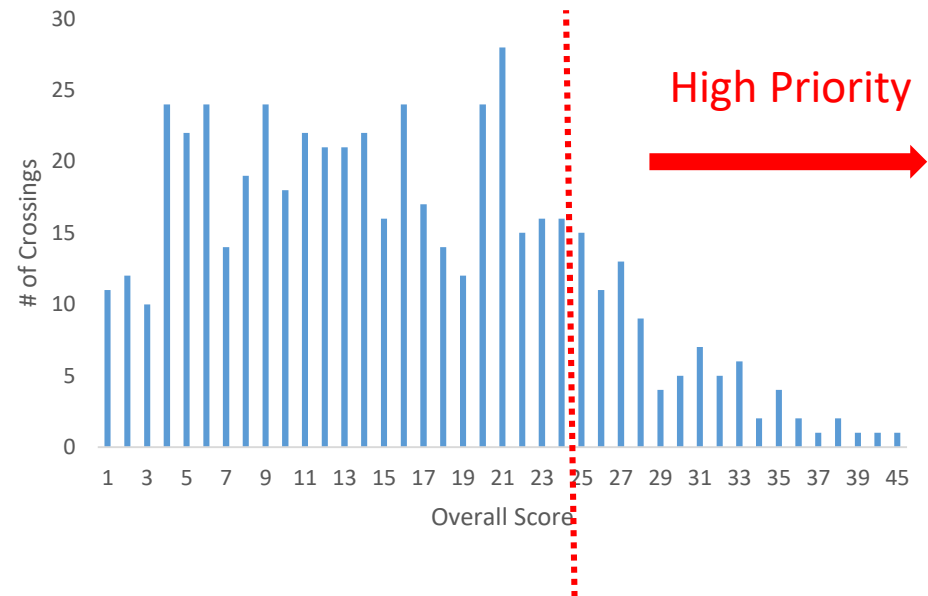
535 crossings

Erosion/Year:

131.09 tons

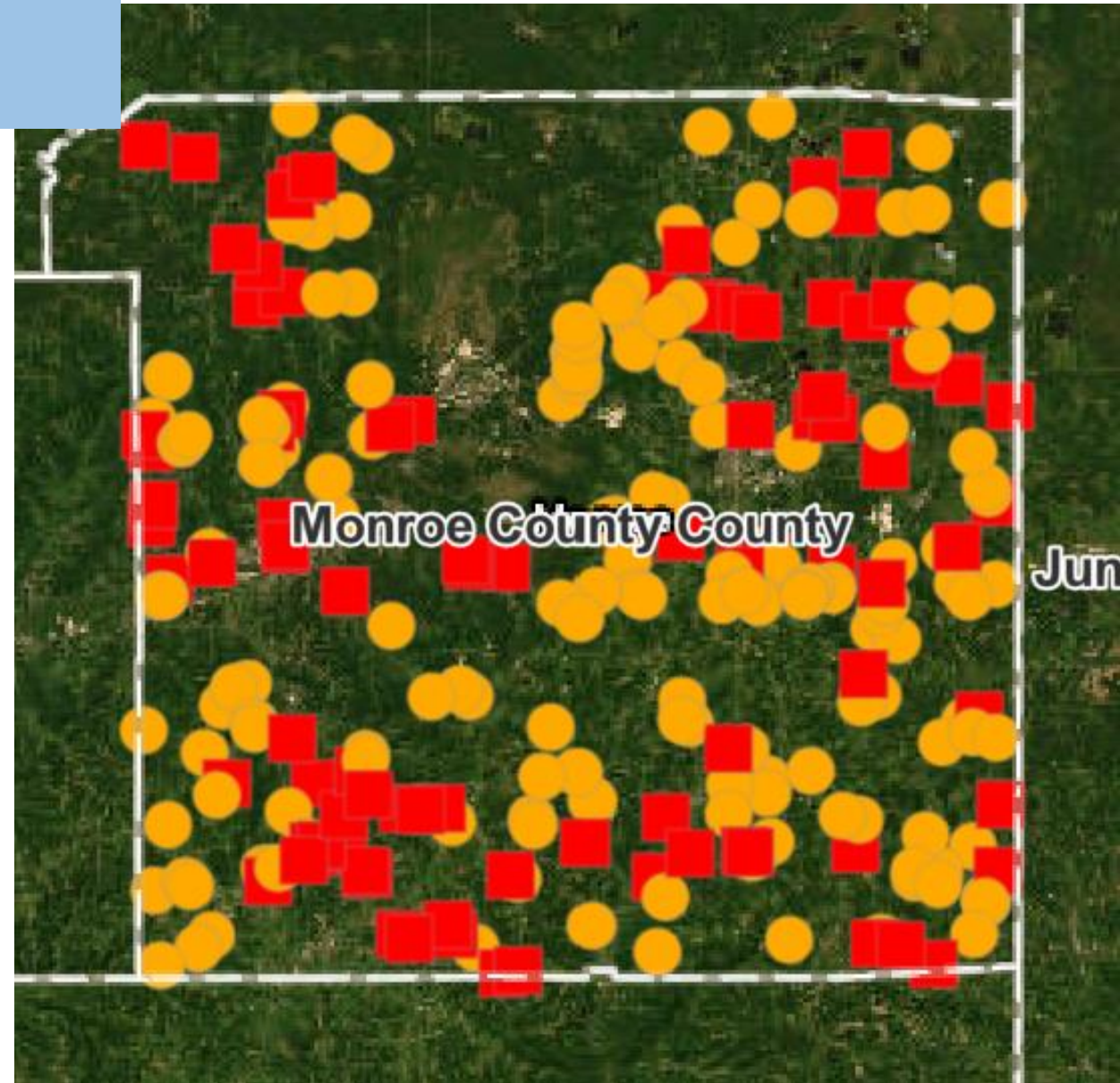
Aquatic Passability:

42.24%



Undersized Crossings

49.72%



Deliveries completed

