

Trempealeau County Emergency Management

Beau Tibbitts

TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Trempealeau River Flood Analysis 2026

Beau Tibbitts
Trempealeau County
Emergency Management

TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

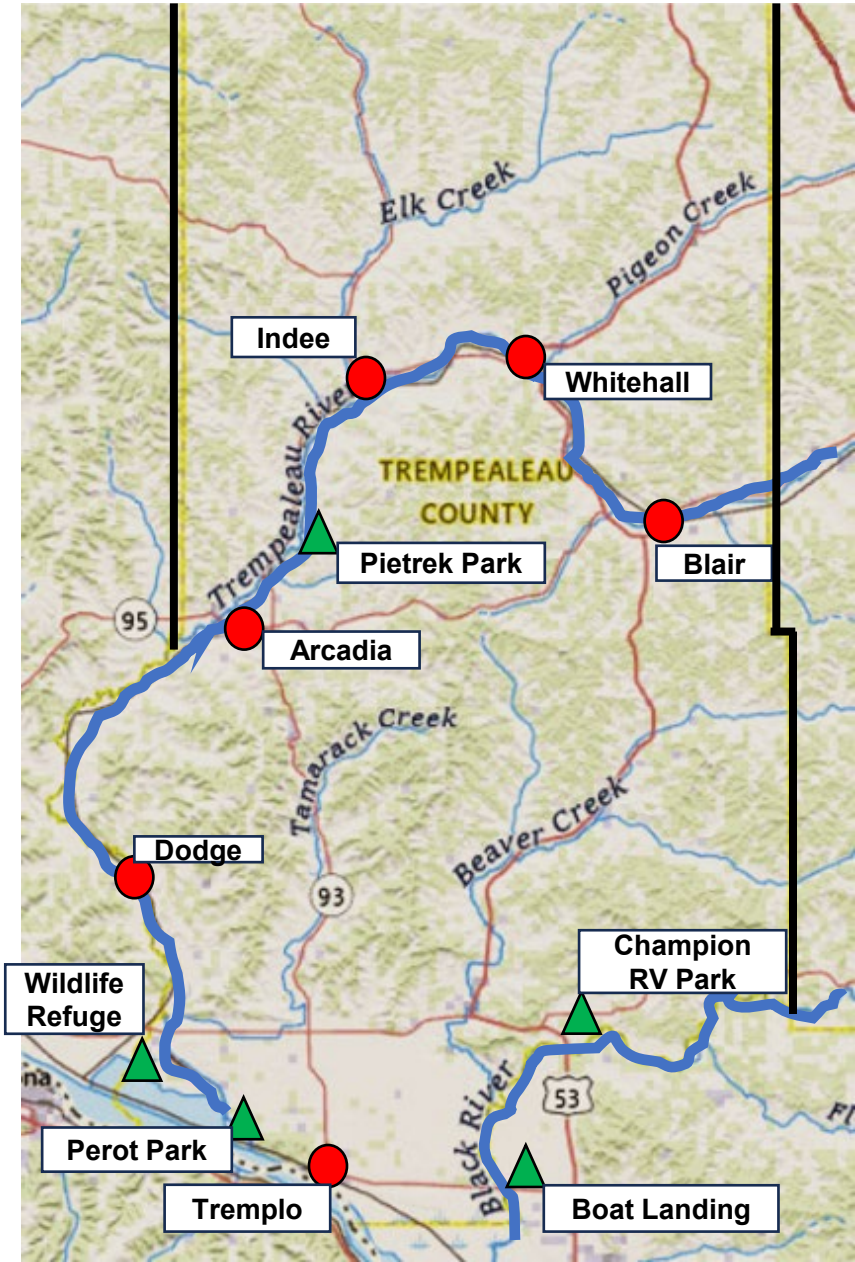
Outline

- River Overview
- Flood History
- Risk Assessment/Impacts

TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Rivers

- Trempealeau River
  - 50 mile within county
  - Areas of Concern
    - Blair (1,289) & Riverside Park
    - Whitehall (1,588) & Colonel Larson Park
    - Independence (1,495) & Four Seasons Park
    - Pietrek Park (100 camp sites)
    - Arcadia (3,857) & Schultz Park
    - Dodge (394 township population)
    - Wildlife Refuge
    - Perot State Park
- Black River
  - 20 Miles shoreline
  - Areas of concern
    - Champion Riverside Resort
    - Hwy 35 Boat Landing
- Mississippi River
  - 9 Miles of shoreline
  - Trempealeau (1,893)
  - Lock and Dam #6



TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Hazard Mitigation Plan

Map 3.6 Trempealeau County

FEMA 100-Year Flood Boundary

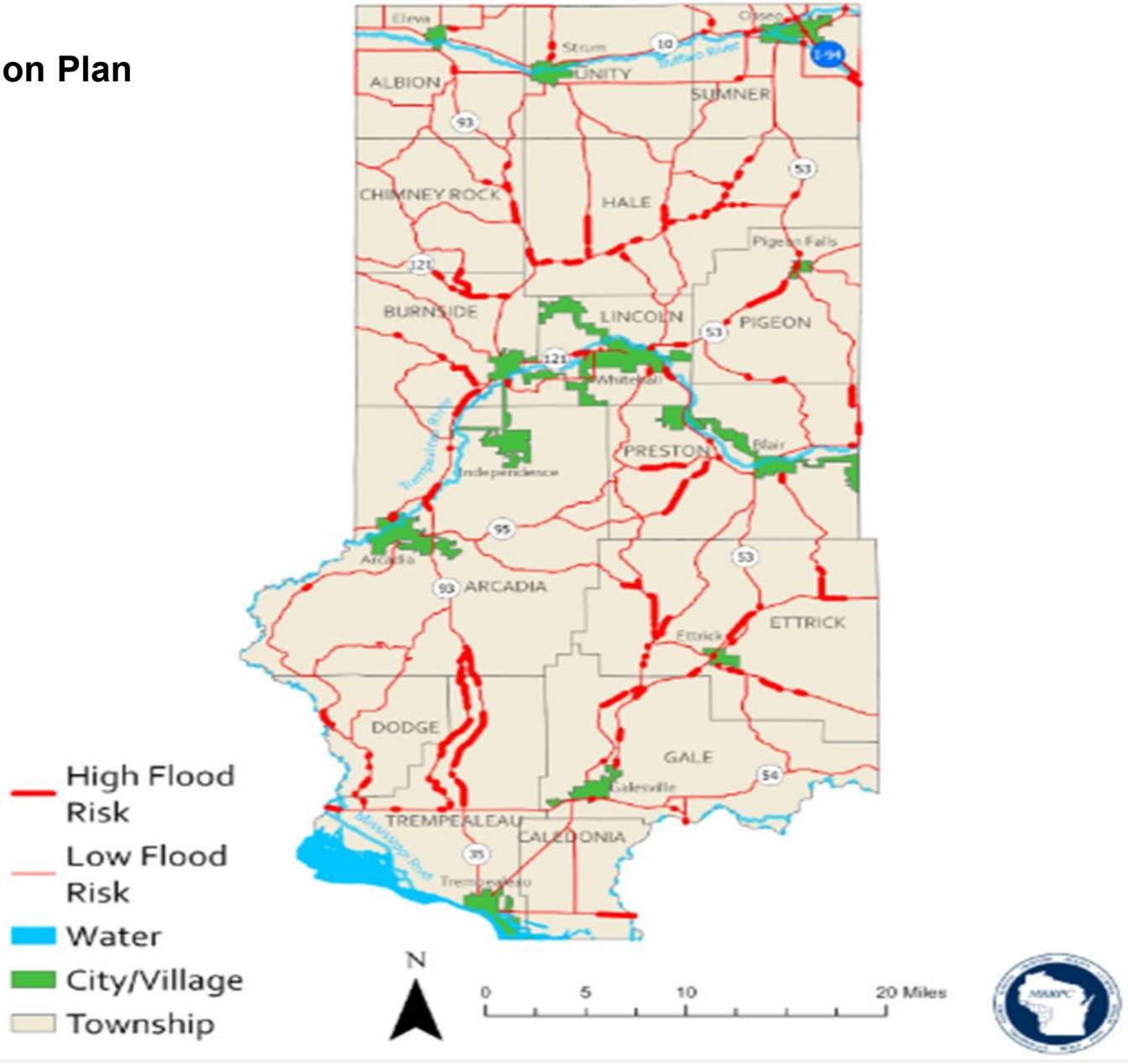


TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Hazard Mitigation Plan

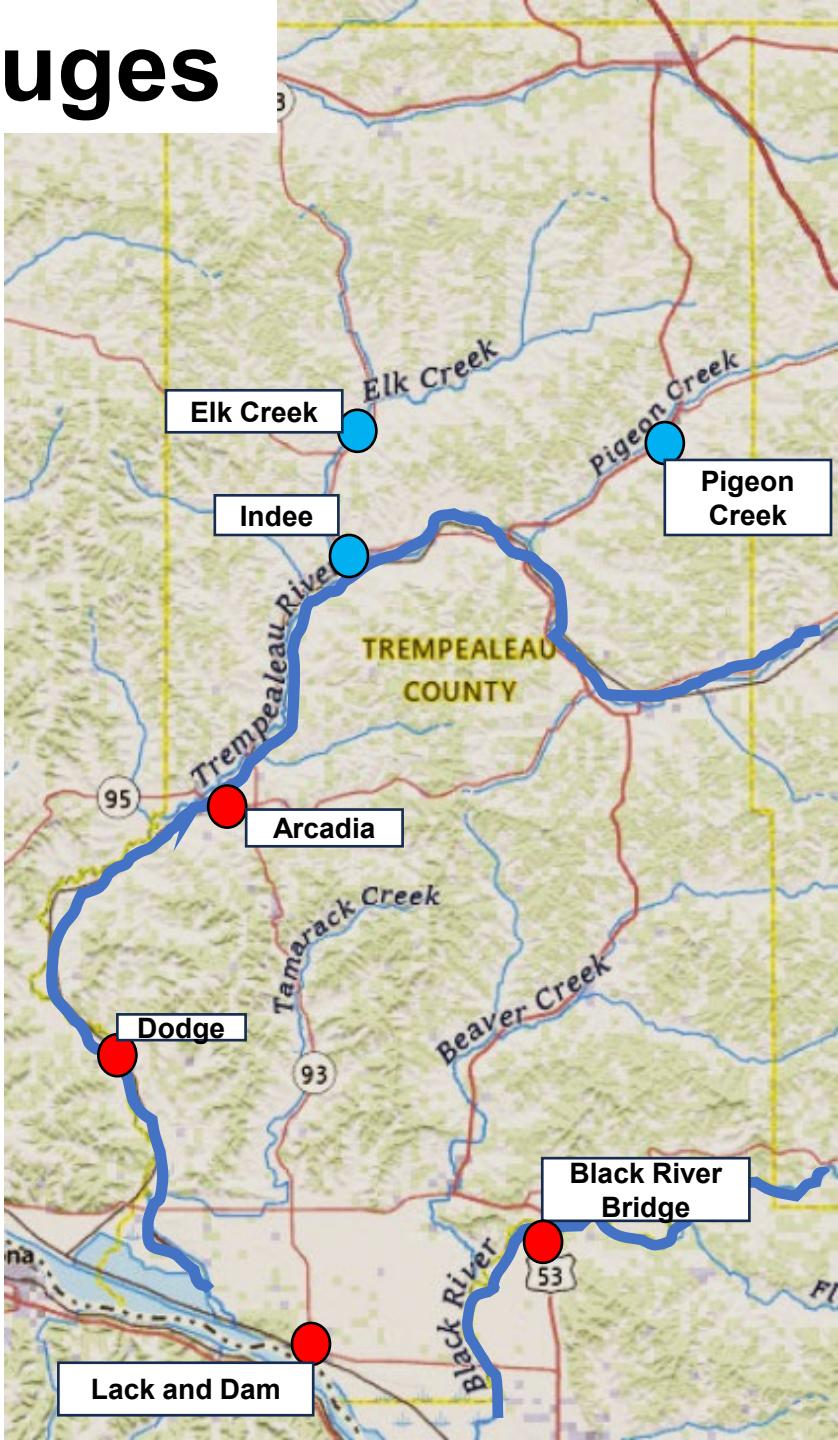
Map 3.7 Trempealeau County Arterials

With High Flood Risk



River Gauges

- Elk Creek @ State Road 121
  - https://water.noaa.gov/gauges/EKCW3
- Pigeon Creek near Pigeon Falls
  - https://water.noaa.gov/gauges/PIGW3
- Trempealeau River:
  - Independence
    - https://water.noaa.gov/gauges/IDPW3
  - Arcadia
    - https://water.noaa.gov/gauges/ARCW3
  - Dodge
- Black River @ HWY 53 Bridge
  - https://water.noaa.gov/gauges/DDGW3
- Mississippi River @ Lock and Dam #6



TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Precipitation Patterns

- Rainfall: Heaviest 4-5 inches per month APR-SEP
- Snowfall: heaviest 7-9 inch per month DEC-MAR

Month	Precipitation (inches)	Avg Maximum Temperature (F)	Avg Minimum Temperature (F)	Avg Average Temperature (F)	Snowfall (inches)
January	1.12	25.4	8.5	16.9	7.40
February	1.14	30.2	12.1	21.1	10.10
March	1.84	42.6	24.2	33.4	5.80
April	3.68	57.2	36.7	46.9	1.70
May	4.44	69.4	48.3	58.8	0.10
June	4.31	78.3	58.5	68.4	0.00
July	4.63	81.9	62.8	72.4	0.00
August	4.09	79.7	60.7	70.2	0.00
September	3.78	72.4	52.6	62.5	0.00
October	2.59	59.1	40.4	49.7	0.00
November	1.76	43.2	27.9	35.6	2.30
December	1.33	30.3	15.7	23.0	8.80

TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Flood Recent History

- 22-23 SEP 2010 Flood
  - 5-6 Inches in 24 hours
  - Towns of Arcadia and Dodge
- 20 JUL 2017 Flood:
  - 4-13 Inches in 24 hours
  - Cities and villages of Arcadia, Blair, Galesville, Ettrick
- 2019 Flood
  - Spring Snow melt (up to 4 feet) and Deep Frost
  - Towns of Caledonia, Dodge, and Trempealeau
- 18-21 Aug 2025: Minor Flood Stage for Arcadia and Dodge

TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Risk Assessment

	Frequency			Population Impact			Property Impact		
Type of Hazard	5 Yrs	6-10 Yrs	11-15 Yrs	High	Medium	Low	High	Medium	Low
Floods	1	2	1						
Winter Storms	1	1							
Tornados	5	3	1						

Impacts/Risks

- Interruption to Government and Operations
- Black Out/Brown Out (Grid Down)
- Mass Casualty
- Displaced persons
- Evacuees
- Missing Persons
- Travel impacts

- Reduced services (Police, Fire, Health)
- Food and Water Contamination/Shortages
- Looting and other criminal acts
- Reduced Supply Chain
- Building and facility damage and destruction

TREMPEALEAU COUNTY
EMERGENCY MANAGEMENT

Questions

Guidance

Little Tamarack Area
Town of Trempealeau







Grover Ln

Little Tamarack Rd

Little Tamarack Creek

Little Tamarack Rd

Little Tamarack Rd





