

Wisconsin Flood Resilience Scorecard – Monroe County

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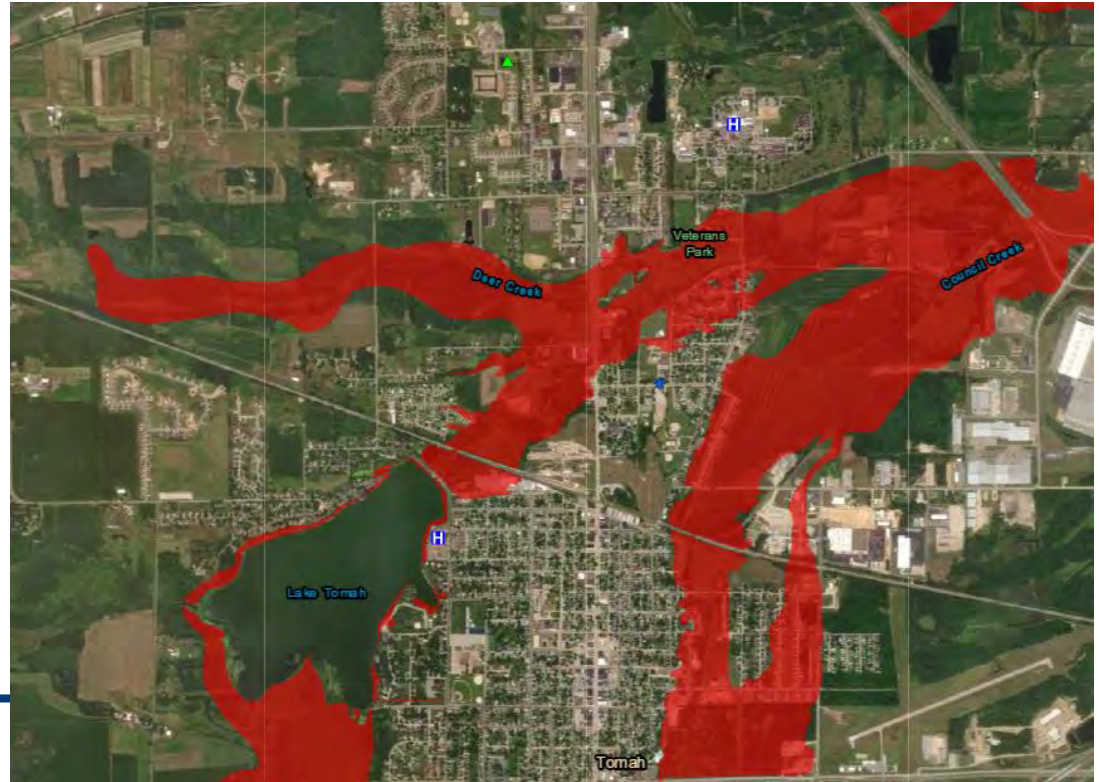
Wisconsin Department of Health Services

Public Health and Flooding

Infrastructure Risks in Wisconsin²

- 1 in 5 road miles
- 1 in 5 critical facilities
- 1 in 10 residential properties

Wisconsin Risk Assessment Flood Tool (RAFT)

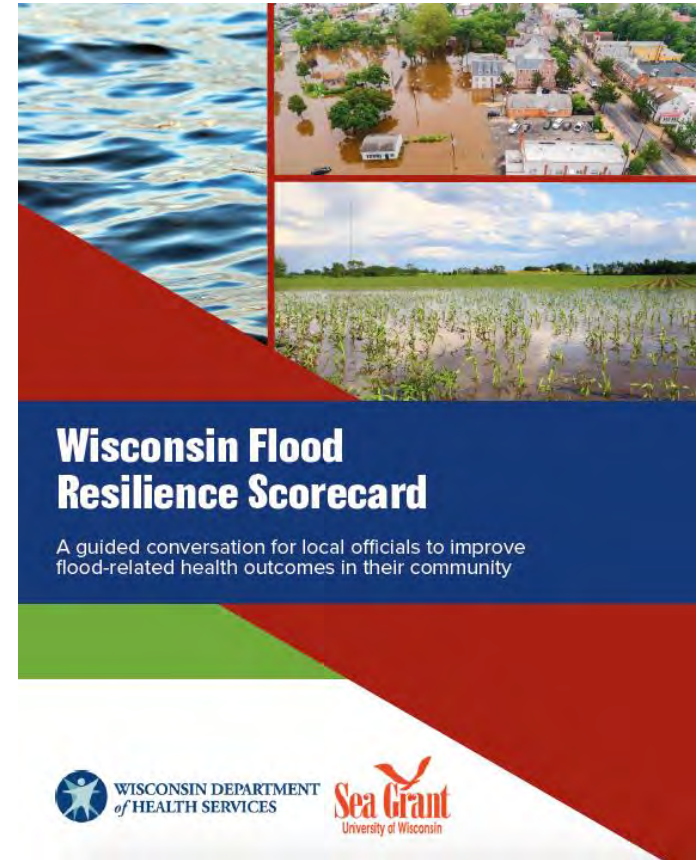


² First Street Foundation, 2021

What is the Flood Resilience Scorecard?

Three Modules:

- 1) **Environmental**
- 2) **Institutional**
- 3) **Social**



Module 1: Environmental



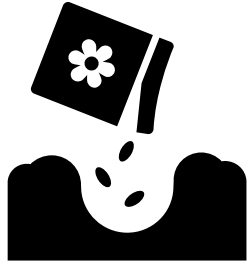
**Precipitation
Patterns**



**Slope and
Elevation**



**Land Use and
Future
Development**

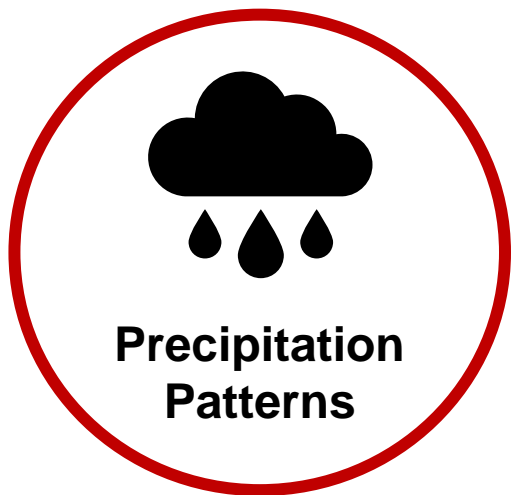


Soils



**Agricultural
Practices**

Module 1: Environmental



Historic Precipitation Change	20%
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Source: Wisconsin Initiative on Climate Change Impacts

Projected 2" Frequency Change	3.60
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Source: Wisconsin Initiative on Climate Change Impacts

Module 1: Environmental

Percentage in Floodplain	6.38%
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Source: Federal Emergency Management Agency, National Flood Hazard Layer

Percentage Steep Slopes	42.49%
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Source: Natural Resources Conservation Service Geospatial Data Gateway



Module 1: Environmental



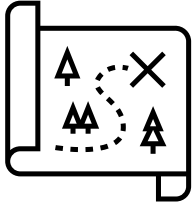
Percentage Impervious Surface	34.93%
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Source: Wisconsin Department of Natural Resources

Percent Population Change 2010-2040	38.66%
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Source: Wisconsin Department of Administration

Module 2: Institutional



**Resource
Inventory and
Mapping**



**Plan Quality and
Coordination**



**Staff and
Technological
Capacity**



Tools



**Implementation
and
Enforcement**

Module 2: Institutional



Number of NFIP Policies in Force	135
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Source: National Flood Insurance Program Analytics Reports and Data

Total NFIP Coverage	\$20,076,100
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Source: National Flood Insurance Program Analytics Reports and Data

NFIP Claims Since 2000	52
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Source: National Flood Insurance Program Analytics Reports and Data

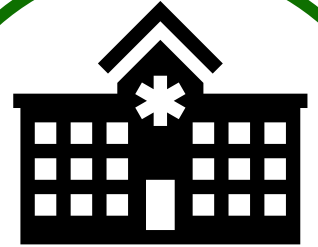
Module 3: Social



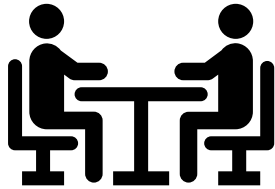
**Sociodemographic
Characteristics**



**Transportation
and Housing**



Health Indicators



**Community
Partnerships**



**Education and
Outreach**

Module 3: Social



Socioeconomic Vulnerability Score	0.284
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The index ranges from 0 (least vulnerable) to 1 (most vulnerable).

Source: Center for Disease Control Social Vulnerability Index.

Household Vulnerability Score	0.702
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Minority Vulnerability Score	0.470
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Housing/Transport Vulnerability Score	0.638
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Monroe County Scoring

Module 1: Environmental

Precipitation Patterns: 50%

Slope & Elevation: 53%

Land Use & Future Development: 58%

Soils: 64%

Agricultural Practices: 58%

Module 2: Institutional

Resource Inventory & Mapping: 55%

Plan Quality & Coordination: 61%

Staff and Technological Capacity: 74%

Tools: 56%

Implementation & Enforcement: 70%

Module 3: Social

Sociodemographic Characteristics: 50%

Transportation & Housing: 39%

Health Indicators: 68%

Community Partnerships: 54%

Education & Outreach: 68%

Recommendations

Participate in the Community Rating System

Does your community participate in the NFIP? _____

Yes

How many NFIP policies are in force in your community? _____

54

What is the average annual cost of flood insurance in your community? _____

\$613.13

What is the average annual insurance cost savings for your residents if your community participated in the CRS to receive discount of:

Percent Discount	Individual Premium Savings	Total Resident Premium Savings
5%	\$30.66	\$1,655
10%	\$61.31	\$3,311
15%	\$91.97	\$4,966
20%	\$122.63	\$6,621

Recommendations

- Review freeboard requirements in your floodplain ordinance



Recommendations

- **Require detailed flood data for smaller developments**

“For subdivisions and/or developments greater than fifty (50) lots or five (5) acres, whichever is less, base flood elevation data shall be provided for subdivision and all other proposed development, including manufactured home parks and subdivisions.”

- *Monroe County Code of Ordinances Section 7-85(d)*

Recommendations

- Audit your codes and ordinances to be more friendly to green infrastructure



Recommendations

- Host a table top exercise to test your preparedness and response capabilities



Recommendations

- Assess transportation ingress and egress of 1% and 0.2% annual chance flood event



Questions?

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