



## Summary Sheet

### *Shawano County, Wisconsin Flood Insurance Rate Map (FIRM)*

#### **Project Summary**

The Shawano County, Wisconsin FIRM update incorporates the following data and engineering models and results:

- Basemap data provided by:
  - Imagery:
    - Wisconsin Regional Orthoimagery Consortium (WROC): Digital Orthophotography, 18-inch resolution 2020
  - Topography data:
    - Inland riverine: 2015 Digital Elevation Model (DEM) from Wisconsin Department of Natural Resources
- Study area statistics:
  - 548 miles of new model backed Zone A riverine streams, 79.1 miles of redelineated Zone AE streams
  - 138 FIRM panels updated (included 1 index panel)
  - Communities impacted: Birnamwood, Bonduel, Bowler, Cecil, Eland, Gresham, Mattoon, City of Shawano, Shawano County, Tigerton, Wittenberg, Ho-Chunk Nation of Wisconsin, Menominee Indian Tribe of Wisconsin, and Stockbridge-Munsee Community Band of Mohican Indians
- Riverine Engineering data based on:
  - For all studies, peak flow rates were established using HEC-HMS v4.2 hydrologic computer modeling and calibrated to local flood events at stream gages.
  - All Hydraulic models were developed with the HEC-RAS v5.0.3 software using steady state 1D modeling.
- Results:
  - New model backed Special Flood Hazard Area (SFHA) Zone A
  - New redelineated detailed (Zone AE) SFHA for
    - Duchess Creek
    - East Unnamed Tributary to Shawano Lake
    - Embarrass River

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- Loon Creek (including Washington Lake, Loon Lake, and Lulu Lake)
- Middle Branch Embarrass River
- North Branch Embarrass River
- Oconto River
- Pensaukee River
- Red River
- Rose Brook
- Shawano Creek
- Shawano Lake
- Shioc River
- South Branch Embarrass River
- South Branch Pigeon River and South Branch Pigeon River Tributary
- Tributary to Duchess Creek
- Tributary to South Branch Pigeon River Tributary
- West Unnamed Tributary to Shawano Lake
- Wolf River

The *Preliminary* Flood Insurance Study (FIS) report, 137 *Preliminary* FIRM panels, one index panel, and the *Preliminary* Summary of Map Actions (SOMA) document are available for public review. Copies of these documents were sent by email to community officials on January 10, 2022. Digital files can be downloaded at: [www.fema.gov/preliminaryfloodhazarddata](http://www.fema.gov/preliminaryfloodhazarddata)

BFEs and/or SFHA changes resulting from new detailed study are noted above; notice of a 90-day appeals period will be issued subject to scheduling. Comments and appeals should be submitted to Emily Szajna, Project Manager, at the following email address:

Emily Szajna  
External Services Division  
Dam Safety and Floodplain Section  
Wisconsin Dept. of Natural Resources  
[Emily.Szajna@wisconsin.gov](mailto:Emily.Szajna@wisconsin.gov)  
Cell Phone: 608-422-0365

Appeals should be supported by scientific and factual information which address methods, assumptions or data related to new features of analysis. Upon the start of the official 90-day appeals period, any interested party may submit an appeal which challenges new or revised flood zone designations, boundaries and BFEs posted by the Preliminary DFIRM panels and FIS Report. Appellants who contend that the BFEs, base flood depths, or other flood hazard information is incorrect because better methodologies could have been used, better assumptions could have been made, or better data could have been used, must provide alternative analyses that incorporate such



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methodologies, assumptions, or data and that quantify their effect on the BFEs, base flood depths or other flood hazard information. Unless appeals are based on indisputable mathematical or measurement errors or the effects of natural physical changes that have occurred in the floodplain, they must be accompanied by all data that FEMA needs to revise the Preliminary DFIRM and FIS.