

American Forests

The Forest Innovation Platform

SFI Annual Conference

May 6, 2026

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Forest Climate Science

American Forests

The Challenge

- Wildfire, insects, disease, and climate change increasingly **threaten forests**.
- SFI certified organizations need to **identify and address climate change risks** to forests and forest operations based on the best scientific information. (Objective 9)
- There is **no standard format or process** for undertaking this kind of assessment.
- The best scientific information is often inaccessible, distributed across dozens of sources, overly technical, and **not actionable**.



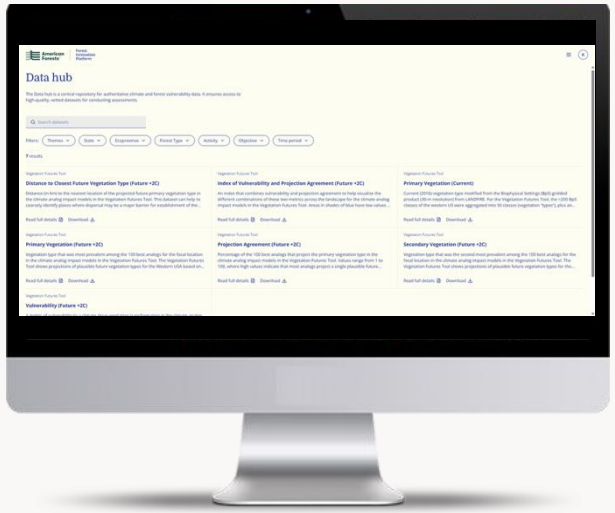


An Innovative Solution

- A free and open-source platform, built by and for the forestry community, that **compiles 40+ of the best scientific resources** and datasets in one place.
- Support for a **diverse set of users**: foresters, land managers, and researchers concerned with climate change impacts on forests under all ownerships (private, Tribal, and public).
- **Guidance to bridge the gap** between existing forest management planning and future climate threats.
- Backed by a **Network** of experts AND users that support its use, maintain its scientific veracity, ensure its ongoing relevance and foster further innovation.

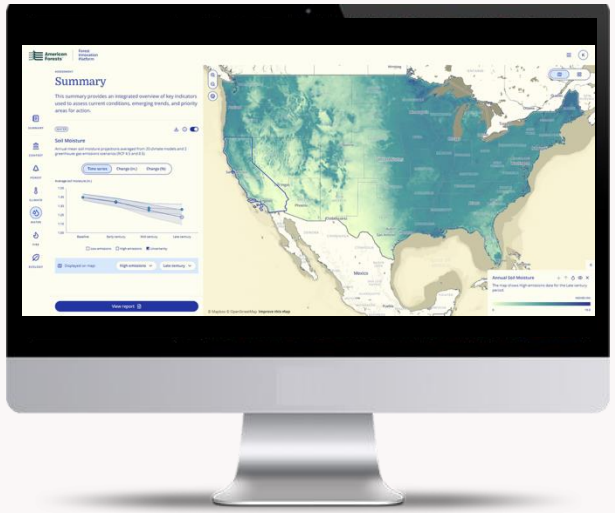
American Forests

The Forest Innovation Platform (FIP)



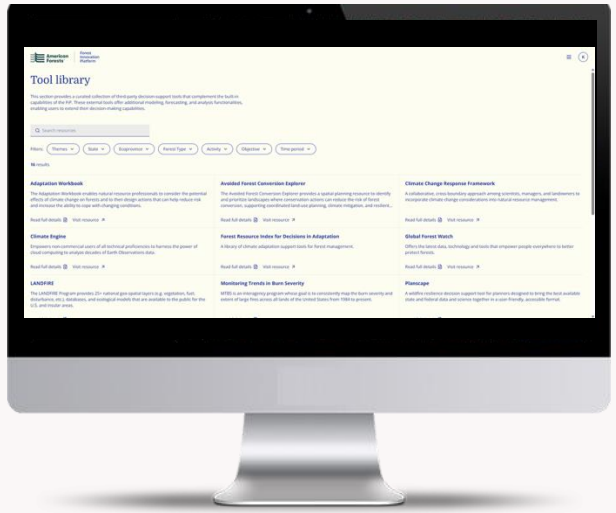
Data Hub

Additional downloadable US national and regional data to support assessments and planning.
V1: Data included in FIP tools + additional critical climate data + regional (i.e. not national) data.



Assessment Tool(s)

Suite of tools to support forest assessment and planning decisions in the US.
V1: Forest Vulnerability Assessment Tool.



Resource Library

Searchable database of related tools and resources with potential for interoperability with FIP tools.
V1: Searchable tools and resources with descriptions and links.

Supported by:

FOREST SERVICE US DEPARTMENT OF AGRICULTURE

DORIS DUKE FOUNDATION

vizzuality.

SUSTAINABLE FORESTRY INITIATIVE

vibrant planet

The Climate Toolbox

SFI CLIMATE SMART FORESTRY INITIATIVE

SUSTAINABLE FORESTRY INITIATIVE

SFI CLIMATE SMART FORESTRY FRAMEWORK

Objective: Distill research and knowledges into highly communicable principles with recommendations for practices, cases, and tools to implement them. Elevate current and experimental on-the-ground interventions, emerging research, and traditional knowledges.



Forest inventory and ecological conditions

Vulnerability assessment

Greenhouse gas inventory and accounting

Cultural and social context

Adaptation planning
(e.g., future adapted species)

Conservation strategies
(e.g., maintaining old growth, structural complexity)

Reduce disturbance risk and impacts
(e.g., wildfire)

Forestry operations
(e.g., larger culverts, fossil fuel use)

Silvicultural techniques
(e.g., retention harvest, increasing complexity)

Slash & residuals management

Metrics & Monitoring

ASSESS → ADDRESS → EVALUATE

Crawford County, Michigan

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ASSESSMENT

Summary

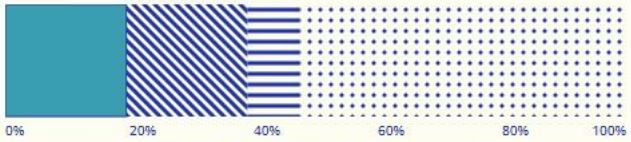
This summary provides an integrated overview of key indicators used to assess current conditions, emerging trends, and priority areas for action.

SUMMARY
CONTEXT
FOREST
CLIMATE
WATER
FIRE
ECOLOGY

FOREST

Forest Types of the United States

Proportion of forest types in the area, based on Forest Type code defined by the USDA Forest Service.



Jack pine Aspen Eastern white pine Others

Jack pine	19.5%
Aspen	19.5%
Eastern white pine	8.5%
Red pine	7.5%
White oak / red oak / hickory	6.5%
Northern white-cedar	6.1%
Other pine / hardwood	5.5%
Sugar maple / beech / yellow birch	4.2%
Eastern white pine / northern red oak / white ash	3.3%
Balsam fir	2.7%

View less

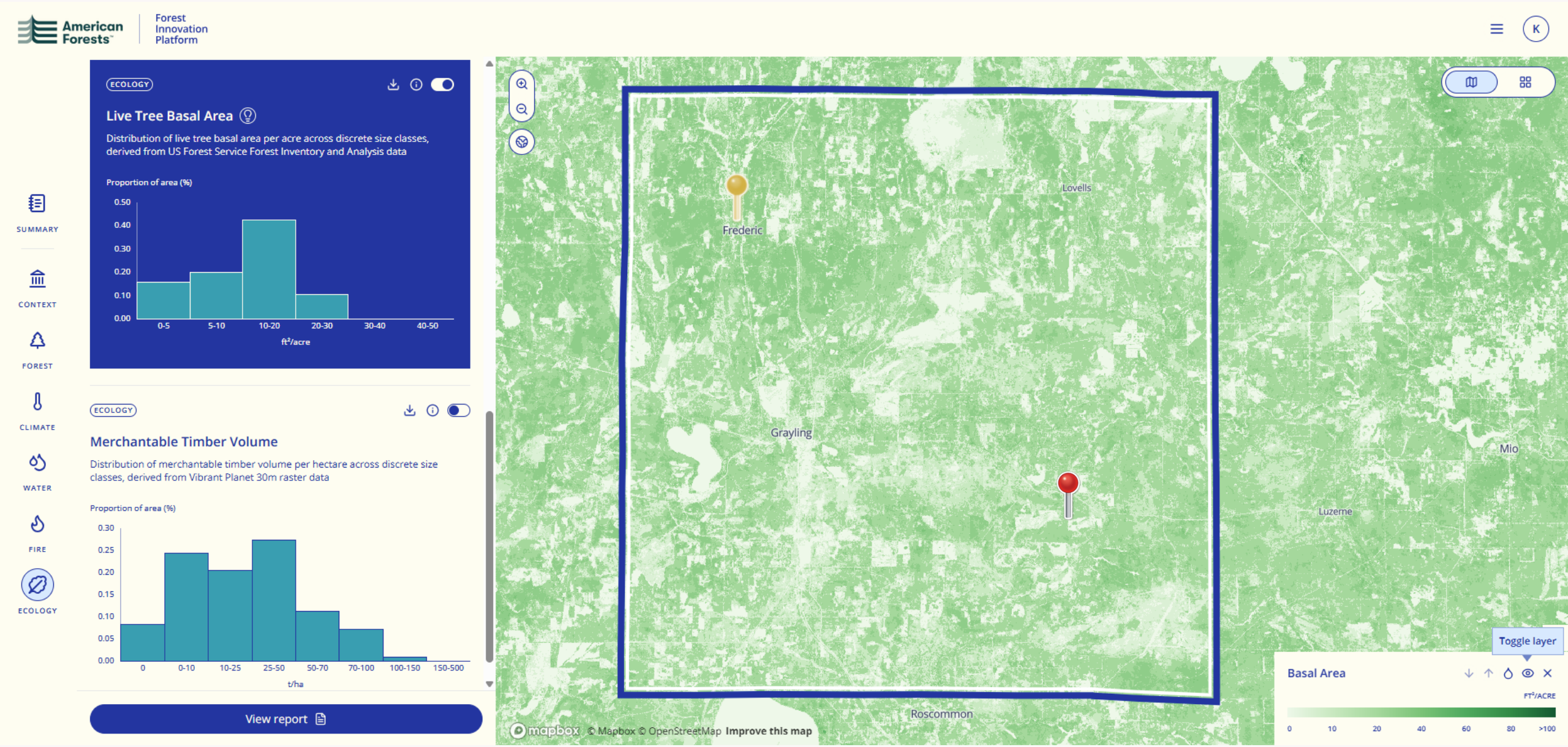
View report



Crawford County, Michigan

Matrix of state and private lands

Huron National Forest



Crawford County, Michigan

Matrix of state and private lands

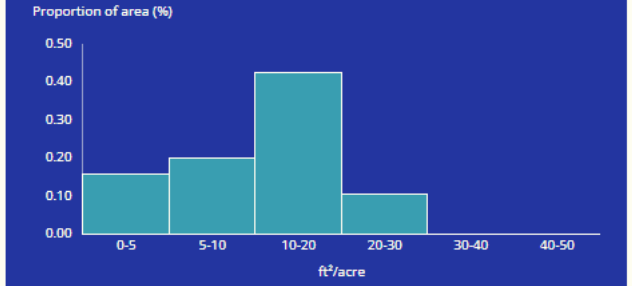
Huron National Forest

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Live Tree Basal Area

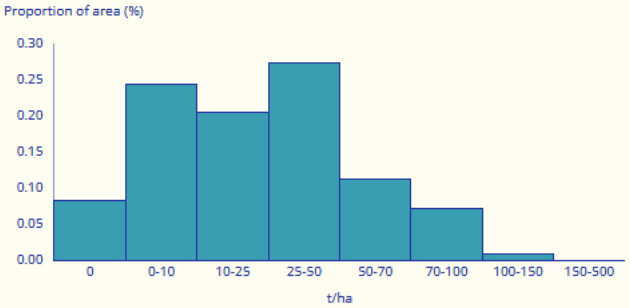
Distribution of live tree basal area per acre across discrete size classes, derived from US Forest Service Forest Inventory and Analysis data



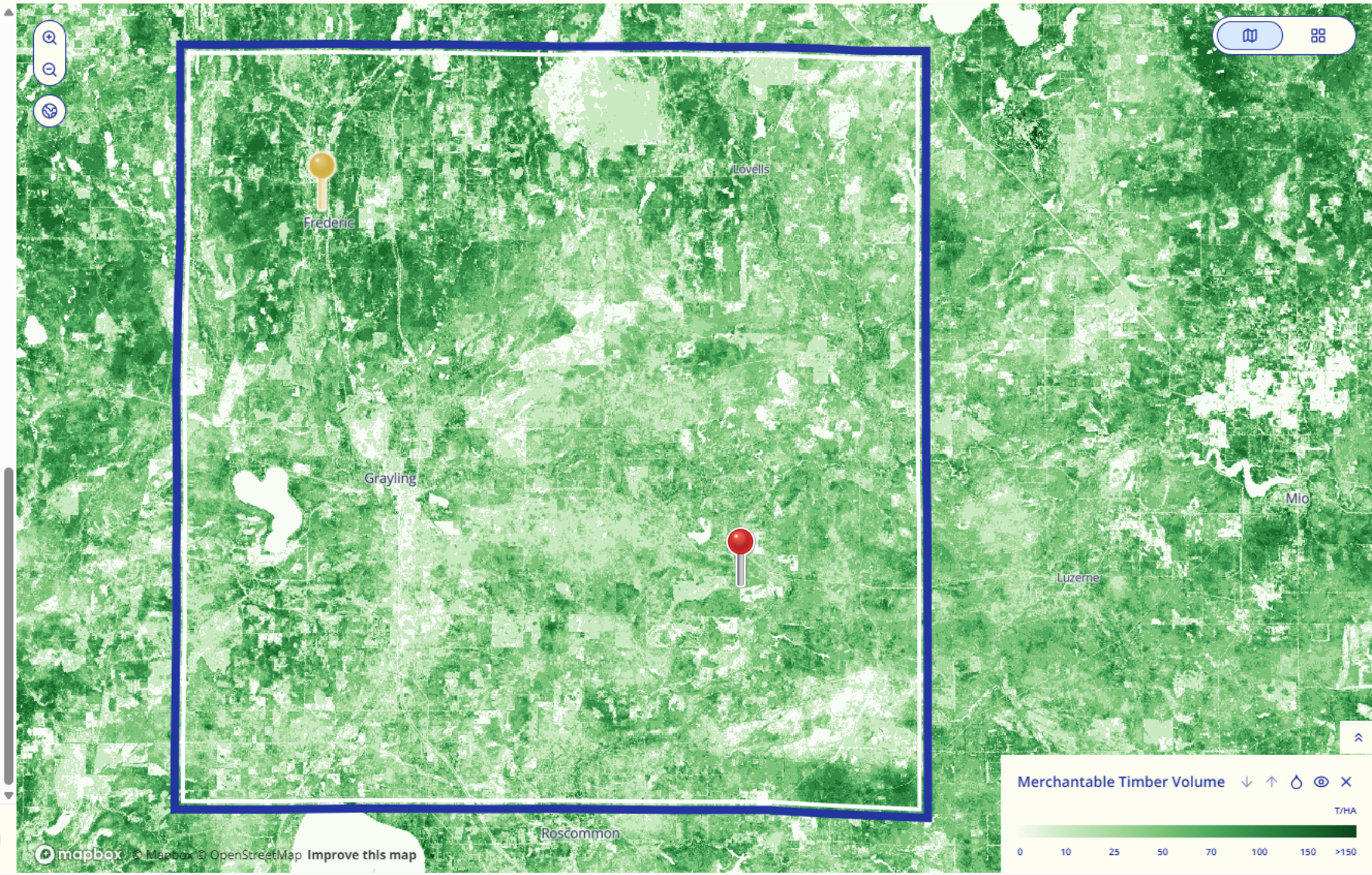
ECOLOGY

Merchantable Timber Volume

Distribution of merchantable timber volume per hectare across discrete size classes, derived from Vibrant Planet 30m raster data



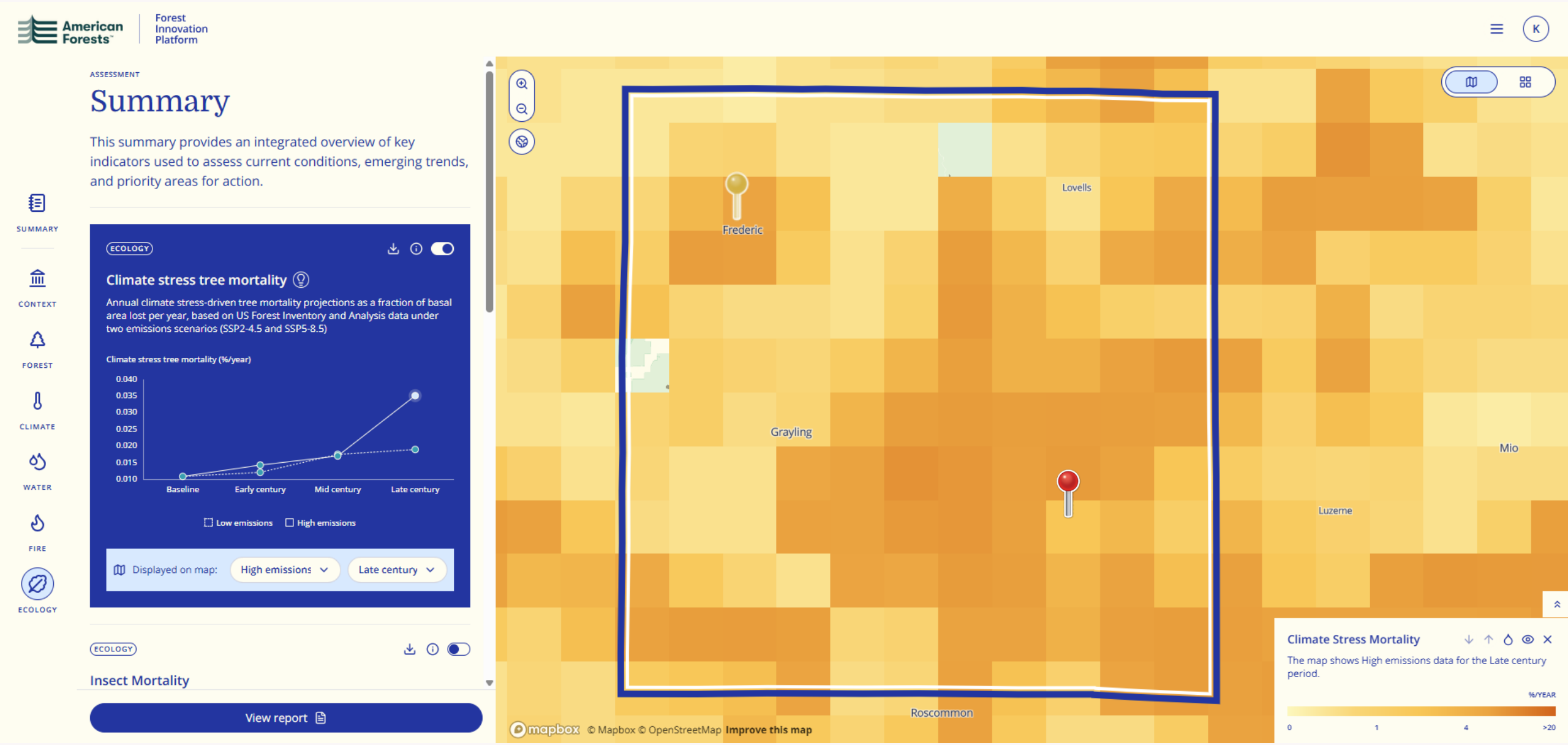
View report



Crawford County, Michigan

Matrix of state and private lands

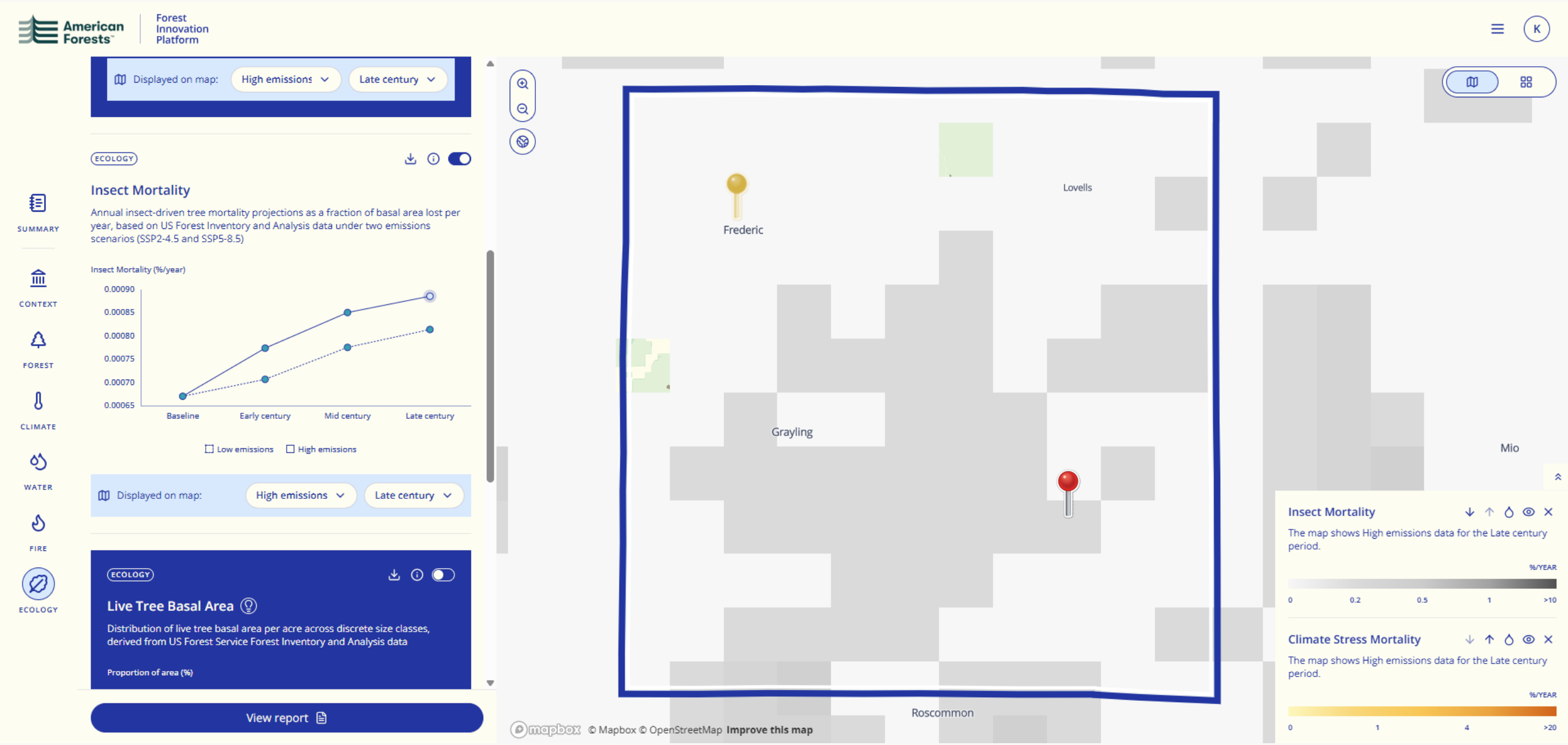
Huron National Forest



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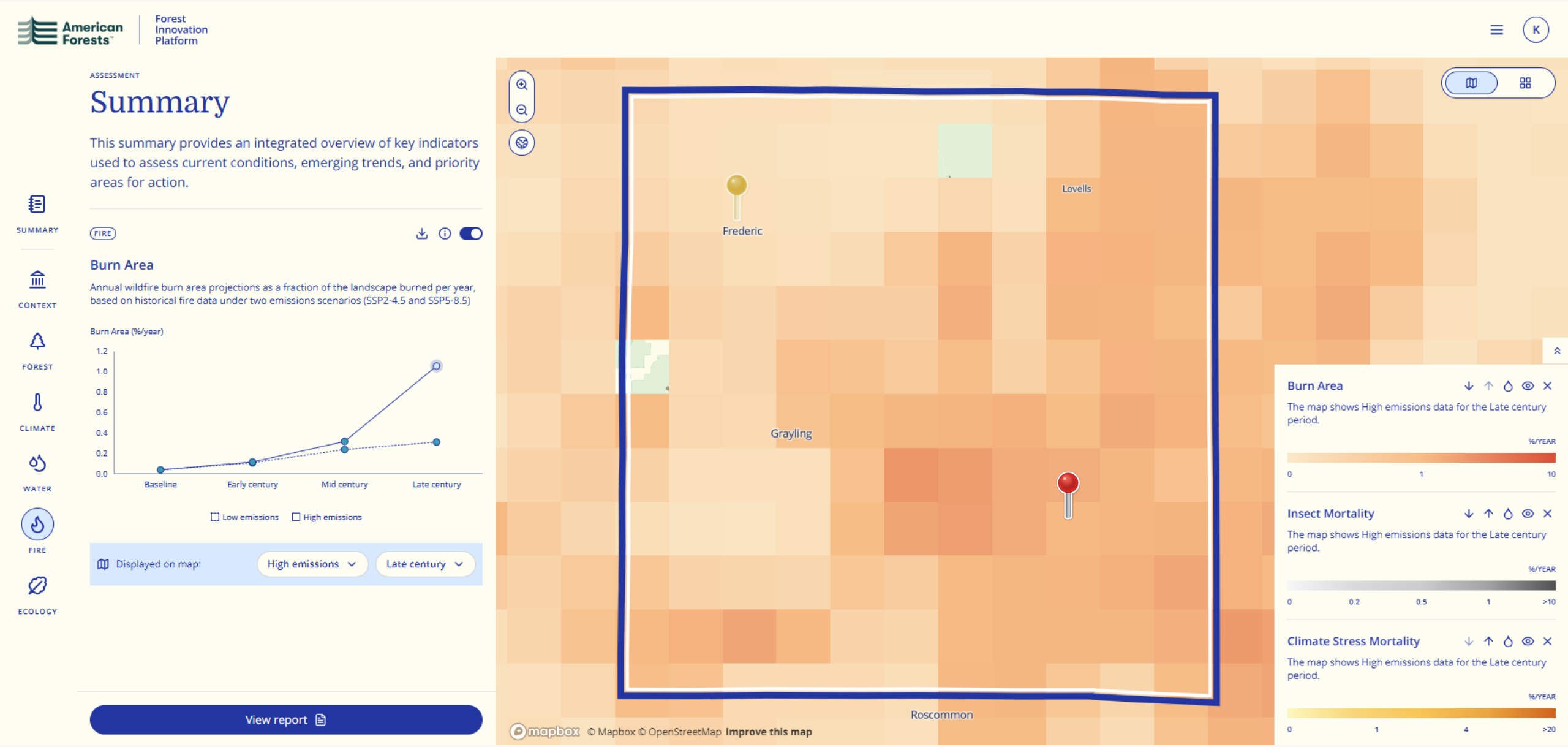
Huron National Forest



Crawford County, Michigan

Matrix of state and private lands

Huron National Forest



Crawford County, Michigan

Edit

Reorder ⇅ | Add section +

Introduction

Report name

Forest vulnerability assessment report

Assessment name

Crawford County, Michigan

Area of interest

Crawford County (Michigan)

Add description +

Assessment overview

This report presents the findings of the comprehensive climate vulnerability assessment conducted for the region. The assessment evaluates climate trends, hydrologic changes, ecological impacts, and wildfire risks to provide actionable insights for climate adaptation planning.

Indicator metadata

Include detailed indicator metadata in the annex of the report.

Sections

Collapse all

Section name

Context

Narrative (Optional)

Crawford County is located in northern Michigan. It contains Huron National Forest in the southwest corner of the county, an air base near Grayling, and a matrix of state and private forestland around Frederic. This county is mostly covered by jack pine and aspen, with a mix of northern hardwoods. Forests generally have a low basal area (majority 10-20 sq ft/acre), and merchantable timber

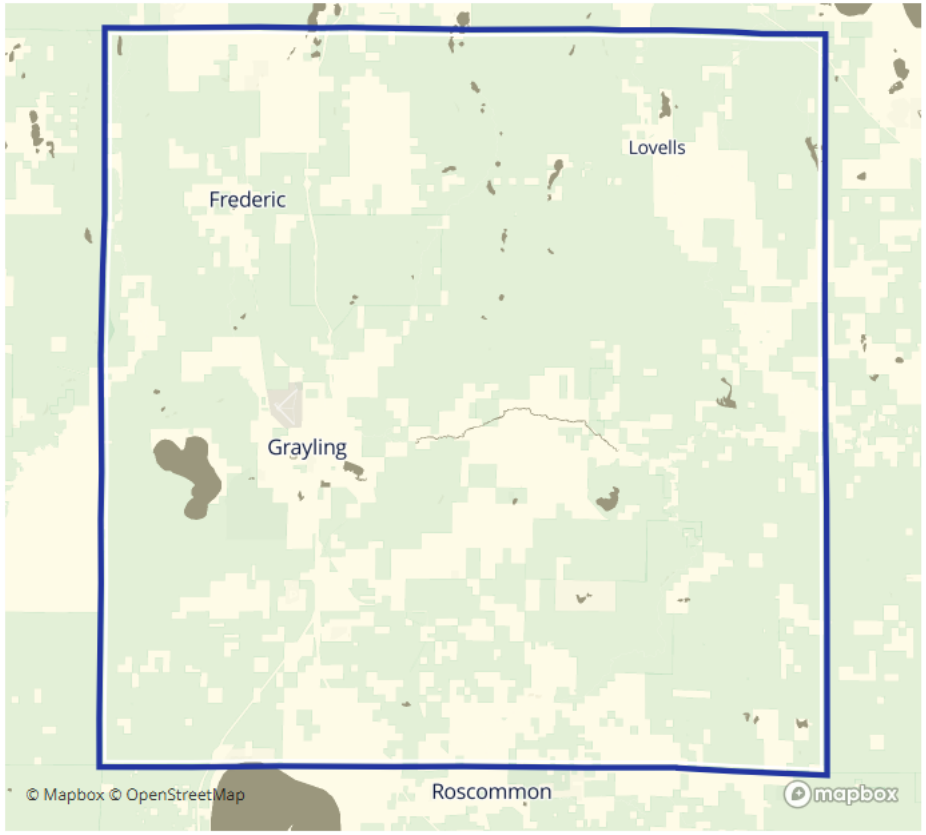
Preview

Download | Save

Forest vulnerability assessment report

Crawford County, Michigan

Area of interest



Get involved: be a user tester

Your feedback is incredibly valuable!

- Testing window open to all, May 7-24, 2026.
- Testing will take 60-90 minutes and is done at your own pace.
- Scan QR code to access testing materials.

SCAN ME

Questions? Email Kendall DeLyser Roney: kdelyser@americanforests.org

