



Forest Ecosystem Monitoring Cooperative


A regional hub of forest ecosystem data, monitoring, and collaboration

The Cooperative: The Forest Ecosystem Monitoring Cooperative serves as a hub for regional forest monitoring and research efforts, bringing together hundreds of practitioners from a range of disciplines and institutions. The FEMC provides data access and analysis, information and synthesis, and opportunities for coordination and collaboration.


How it Works: The FEMC's small staff supports a much larger network of collaborators across governmental, academic, research and non-profit organizations. FEMC staff work with collaborators to provide:


Coordination and facilitation	Coordinating monitoring and research activities across organizations, disciplines and state boundaries
Data services	Retrieval, archive, management, sharing, analysis and synthesis of data
Long-term ecosystem monitoring	Conduct, support and coordinate long-term monitoring


Services Provided to Partners:

 **Coordinating efforts of external partners** from diverse institutions across the region with state and federal agency forest ecosystem monitoring activities;

 **Ensuring the longevity and utility of historical forest health data** through data archiving and management;

 **Data discovery and integration** with online portals and dashboards for regional forest ecosystem monitoring data;

 **Synthesizing and integrating forest health data with other aspects of ecosystem condition** such as water quality and hydrology, forest productivity and management, wildlife diversity, air quality and climate;

 **Enabling sharing and learning** through an annual conference and site- and topic-specific working groups.

Sampling of Projects: FEMC conducts regional and state-specific monitoring and data projects, driven by stakeholders in the Cooperative, including:

Forest Health Atlas



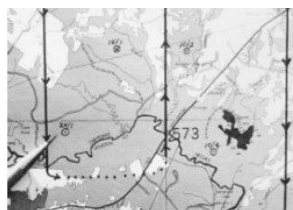
A compilation, analysis, and presentation of aerial survey and field datasets related to forest health in an easy-to-use web tool. www.uvm.edu/femc/forest-health-atlas

Fragmentation Network



A centralized location for articles, reports, datasets, maps and other publications relating to fragmentation in northeastern forests. www.uvm.edu/femc/fragnet

New York disturbance data retrieval and archive



Digitization, archive, and integration of historical paper and aerial detection survey maps with current disturbance data.

Forest Health Monitoring Network, Vermont



Establishment, inventory and assessment of a new network of long-term forest health plots using more comprehensive measurements

Additional information:

FEMC Data Portal: <https://www.uvm.edu/femc/data/archive>

FEMC's Mission: <https://www.uvm.edu/femc/about>



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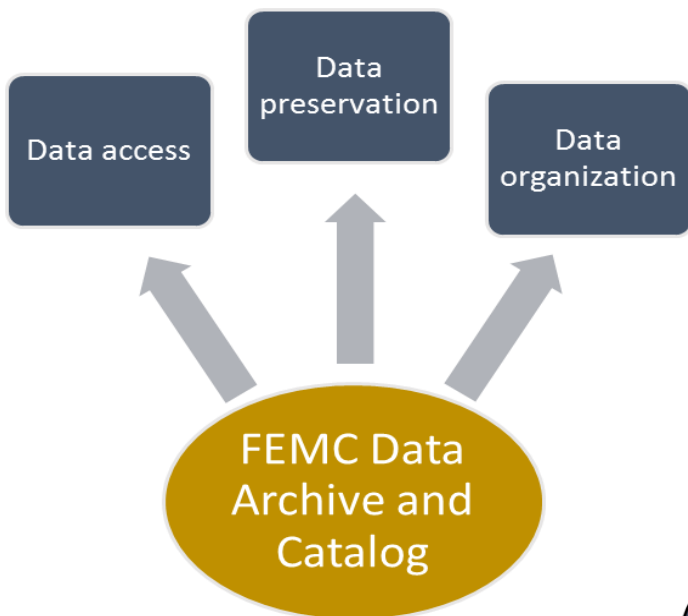


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FEMC archive system provides searchable, linked information for hundreds of research and monitoring datasets.

- Enables users to browse, search, and integrate across disparate data sets.
- Information about projects, datasets, and associated publications are visible in the Internet through search engines such as Google and federation to DataONE.
- User-centric management portal hosted at the University of Vermont provides a secure archive for data and metadata with access constraints and backup policies that gives data managers complete control.



Technical details

- Creative Commons licensing scheme allows users to determine level of access
- Ecological Metadata Language allows for searching via Internet and DataONE
- Integrated Taxonomic Information System provides consistency in species nomenclature
- Servers are located across three data centers

