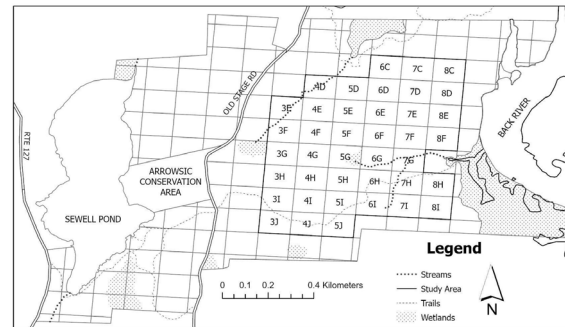
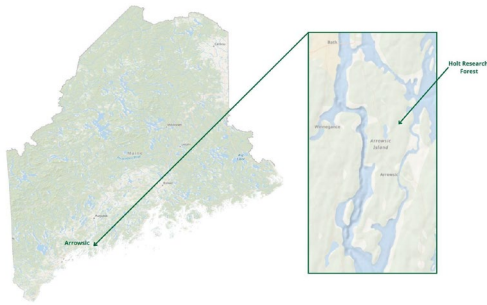


HOLT RESEARCH FOREST

Forest Stewards Guild • Arrowsic, Maine • Thursday, September 17, 2026

Maine Timber Research and Environmental Education (TREE) Foundation

Join Maine TREE to learn about long-term forest monitoring, ecological forestry, and workforce development at Holt Research Forest, a managed, long-term ecological monitoring site on the coast of Maine. Maine TREE is a 501(c)(3) nonprofit founded in 1989 to educate and advocate for the sustainable use of the forest and the ecological, economic, and social health of Maine's forest community.

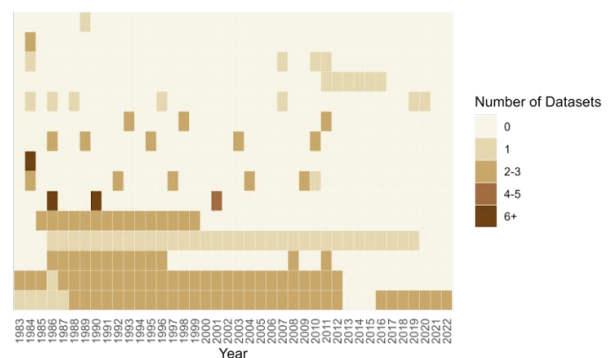
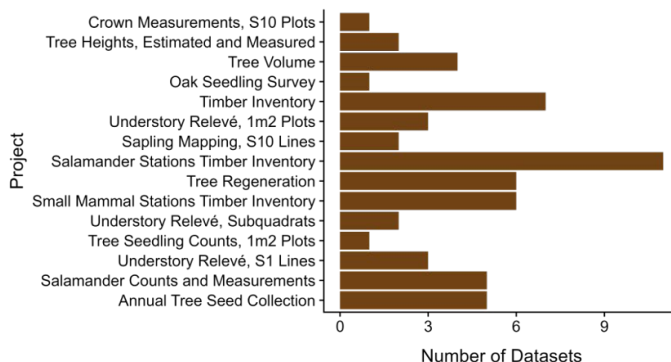


Holt Research Forest at a Glance

- 350-acre red oak-white pine research forest located on the coast of Maine.
- Established in 1983 by the Holt Woodlands Research Foundation and the University of Maine; acquired by Maine TREE in 2014.
- Group-selection harvests were conducted in 1987 and 2020.
- Technicians and researchers have continuously updated more than 60 datasets, available online at uvm.edu/femc/holt.



Scan for Holt Research Forest datasets



Overview of HRF datasets showing the number of datasets collected for each project and their temporal coverage.

Ecological Forestry and Long-Term Monitoring

- 40+ years of multi-taxon data, including continuous monitoring of vegetation, birds, small mammals, and salamanders, with 30,000+ individual trees measured on a 25 × 25 m grid.
- The most recent timber harvest in 2020 was completed with the support of Guild Founding Member Barrie Brusila.
- New technologies and methods are helping continue long-term monitoring and expand research and educational initiatives.

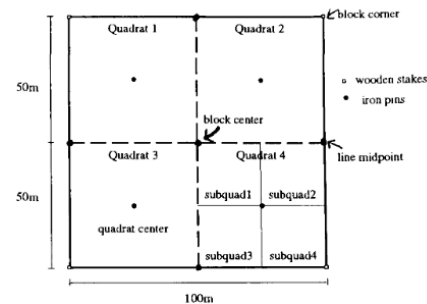


Management goals

- Maximize production of high-quality timber
- Enhance wildlife diversity and abundance
- Maintain the forest's aesthetic qualities

Research objectives

- Monitor long-term changes in plant and wildlife populations
- Document effects of forest management on these populations



The central 40-ha (about 100-acre) study grid is divided into 1-ha blocks, 0.25-ha quadrats, and 0.0625-ha subquadrats.

Harvest History

1987–1988

The grid was divided into managed and control halves. Ten 1-ha blocks on the managed side were randomly selected and harvested, removing 44% of basal area, including many large, poorly formed trees.

2020–2021

The eastern side harvest removed approximately 30–40% of standing volume. Activities in the study grid were mostly uniform, with untreated controls and patch-style openings retained to create additional research opportunities.

Stewardship for All

- The summer research technician program has been revitalized and expanded to interns and fellows, providing early-career research opportunities.
- 100+ Holt Research Forest technicians have spent summers collecting data since 1983.
- Technicians, interns, and fellows can explore their own interests and lead applied research using Holt Research Forest data, facilities, and the broader Maine TREE community.



Applied research and education at Holt Research Forest

Other presentation topics may include stress and distress, environmental education, and more.