

Using Forest Conservation & Management to Combat Climate Change

MA Land Conservation Conference Webinar

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NEFF's Mission

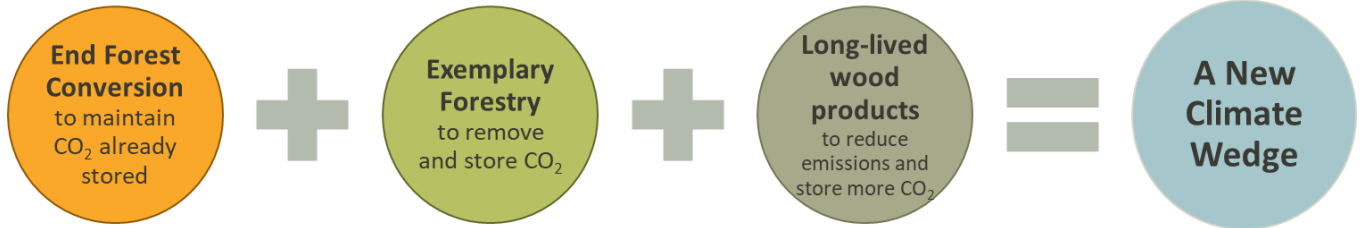
Through the application of our core expertise in conserving forestland and advancing Exemplary Forestry, New England Forestry Foundation (NEFF) helps the people of New England to sustain their way of life, protect forest wildlife habitat and ecosystem services, and mitigate and adapt to climate change.



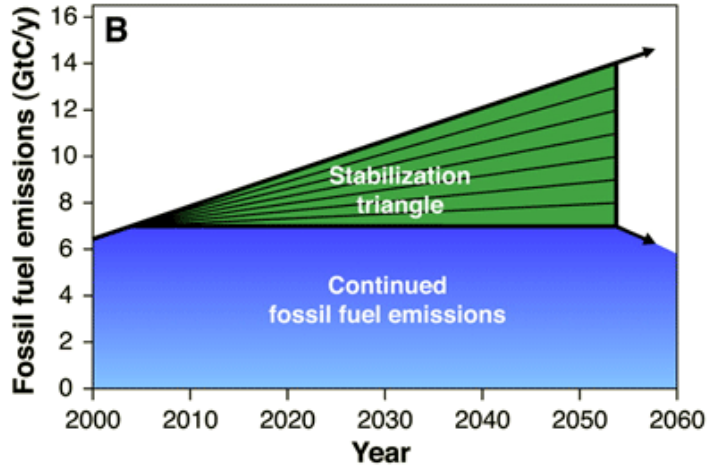




NEFF's Approach



Pacala & Socolow 2004







Part 1: End Forest Conversion

Whether for agriculture in the Amazon or for homes near Amherst deforestation releases carbon already stored and eliminates future potential to store more





Part 1: End Forest Conversion

- ✓ ¼ of New England forests have been conserved (8.6M acres)
- ✓ ~40% conserved by non-profit land trusts
- ✓ NEFF lands in MA:
 - 58 community forests
 - 8,154 acres





Part 2: Manage Forests Better

Address climate change through improved forest management on existing forest lands

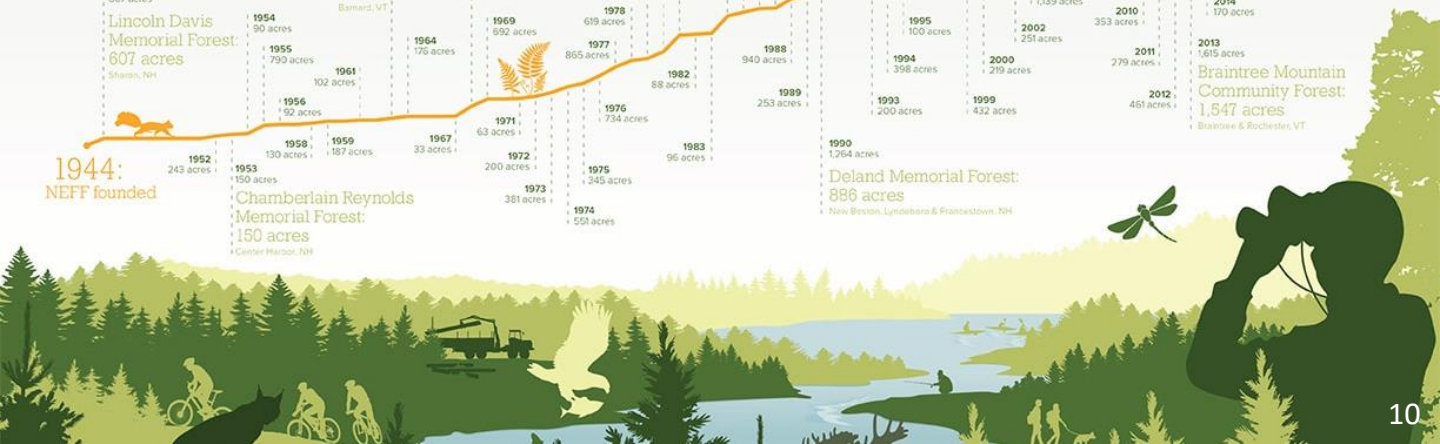
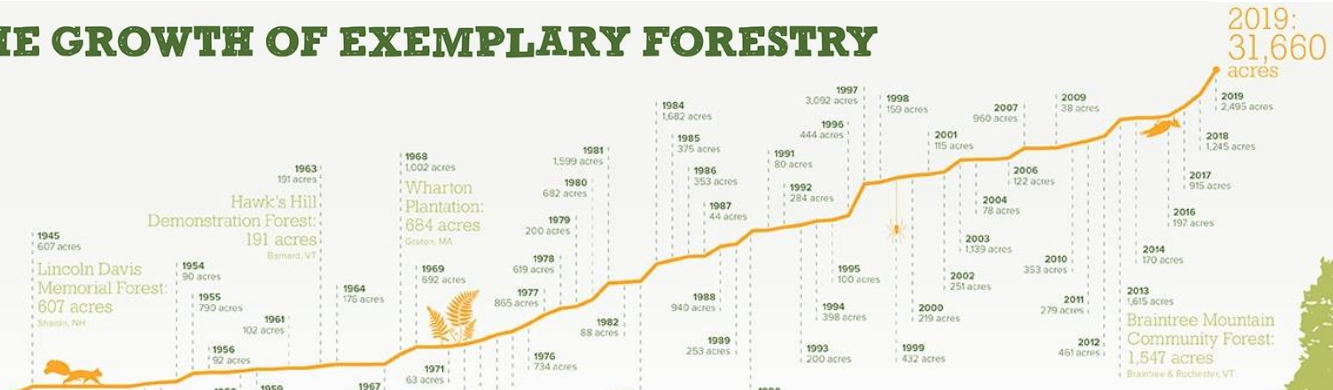
- ✓ Maintain or increase stocking
- ✓ Increase productivity





Part 2: Manage Forests Better

THE GROWTH OF EXEMPLARY FORESTRY



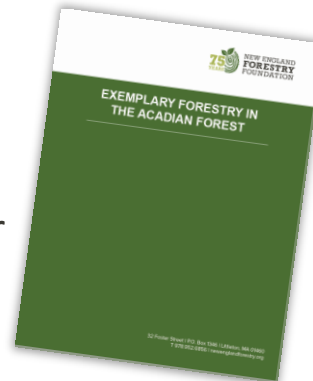


Exemplary Forestry

✓ Three co-equal goals:



- ✓ Operating at landscape scale
- ✓ Specific, measurable metrics
- ✓ Forest mgmt that is positive for full suite of forest values



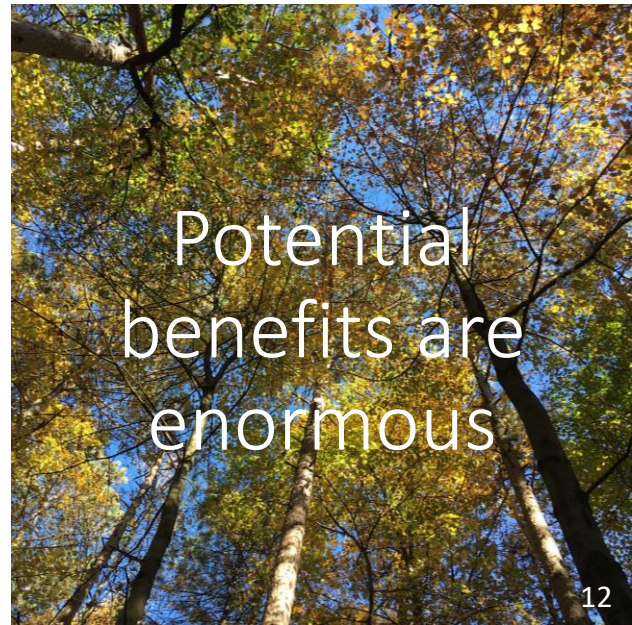
Up Next...
Exemplary Forestry Standards for the North Central Hardwoods Region



Part 2: Manage Forests Better

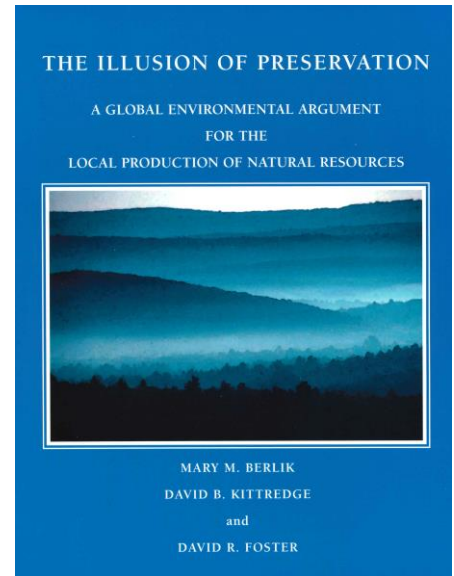
Achieving exemplary forestry outcomes in New England would store 1.9 Gt of CO₂ in new living wood.

If achieved over 20 years this would be equivalent to removing all vehicles in New England from the roads for the same time period or longer.





- ✓ Substitute for more carbon-intensive materials (plastic, steel, concrete)
- ✓ Long-term carbon storage in the products themselves



Growing what we need
where we live



✓ Lower Emissions

✓ Sequestration in the Building

✓ Different Pattern of Development

End Forest Conversion to maintain CO₂ already stored



Exemplary Forestry to remove and store CO₂



Long-lived wood products to reduce emissions and store more CO₂



A New Climate Wedge

FOREST-TO-CITIES CLIMATE CHALLENGE

Connecting with forest owners, mass timber manufacturers, architects, builders, and housing experts to reduce the climate crisis and create a more sustainable and livable New England.

GROW

Exemplary Forestry helps landowners grow more and better-quality wood while preserving forest health.

CO₂ is stored in the harvested wood

BUILD

Local wood is used to make massive engineered timber products like cross-laminated timber (CLT) at facilities staffed by New Englanders. CLT provides a more sustainable alternative to steel and concrete, whose production processes churn out greenhouse gases. It is also strong enough to replace these materials in taller buildings.

CLT

Composition: small pieces of wood glued together in perpendicular layers to create large panels

Characteristics: lightweight, fire resistant, strong, and safe.

Usage: steel and concrete substitute for wall, floor and ceiling construction.

LIVE

CLT is a naturally beautiful material, and when left exposed, its warm colors are particularly striking in grey urban areas. Around the world, schools, apartment complexes and visitor venues are using exposed CLT to create welcoming, aesthetically striking shared spaces.

FOREST-TO-CITIES CLIMATE CHALLENGE PILOT

We support using New England's forests and building with wood to fight climate change. Please count on us to be part of a community of interest—from our forests to our cities—that is committed to maximizing the climate benefits of forests and wood construction. We pledge to support sustainable mass timber as a climate solution because it is a win for the forest, a win for the rural economy, a win for urban quality of life, and a win for the planet's health.

Signature _____ Date _____
 Name _____ Title _____
 Organization/Affiliation _____ Company Website _____
 Address _____ Phone _____
 Email _____

Please provide a brief statement about why you are joining the Forest-to-Cities Climate Challenge.

Do you grant NEFF permission to share this statement (with attribution) on social media or printed materials? (please check one) Yes No

Maybe, contact me first: Yes No

The New England Forestry Foundation's Forest-to-Cities Climate Challenge offers all New Englanders a chance to work together to make our regional economy and way of life sustainable in a time of climate change by ensuring that we Build It With Wood. The Challenge seeks individuals, organizations, businesses and public governmental entities all along the value chain from our beautiful rural woodlands to our existing New England cities to pledge their support for the revolution in tall wood building construction supported by sustainably produced forest products from our region. Together we can protect and restore our forests, enhance rural and urban community lives, and halt climate change.

We want your input!
 Please use the back of this form to share your thoughts and suggestions, or email them to Jennifer Shaban at jshaban@newenglandforestry.org

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- ✓ Traditional land conservation
- ✓ Landowner outreach & education
- ✓ Active forest management
- ✓ Programs to encourage use of local wood