Thriving Communities, Healthy Forests: Community Development and the New Forest Economy

Northern Forest Center

Mike Wilson
March 24, 2017
Figure 2.10 Northeastern Timberland Ownership, 1995

1995 Forest Land Ownership
In the States of Maine, New Hampshire, Vermont & New York

Date Compiled: October 30, 2004
Projection - UTM, NAD83, Zone 19

Legend:
- Red: Paper / Lumber Company
- Green: Institutional / REIT
- Yellow: ENGO
- Gray: Public
- Light Gray: NIPF / Other

Source: James W. Sewall Co.
Figure 2.11 Northeastern Timberland Ownership, 2007

2007
Forest Land Ownerships
In the States of Maine, New Hampshire, Vermont & New York

Data Complete June, 2007
Projection - UTM, NAD27, Zone 19

- Red: Paper / Lumber Company
- Green: Institutional / REIT
- Yellow: NGO
- Gray: Public
- Light Green: NIPF / Other

Copyright 2007
James W. Sewall Company
Old Town, Maine
Figure 2.11 Northeastern Timberland Ownership, 2007

2007
Forest Land Ownership
In the States of Maine, New Hampshire, Vermont & New York

Data Current: June 2007
Projection - UTM, NAD27, Zone 19

Legend:
- Red: Paper / Lumber Company
- Green: Institutional / REIT
- Yellow: NGO
- Blue: Public
- Gray: Non-profit / Other

Copyright 2007
James W. Sewall Company
Old Town, Maine
Mill Closures 1988-2015
Poverty Rate
2009-2013
Data Source: Census American Community Survey
National Percentage of Population Below Poverty level: 15.4%

Northern Forest Center map based on research and analysis by the NH Center for Public Policy Studies, with assistance from the Center for Community GIS

Percentage of population below poverty level
- > 25%
- 15 - 25%
- 7 - 15%
- 0 - 7%
- No data
Household Income
2009-2013
Data Source: Census American Community Survey
National Median Household Income: $53,046

Northern Forest Center map based on research and analysis by the NH Center for Public Policy Studies, with assistance from the Center for Community GIS

<table>
<thead>
<tr>
<th>Income Ranges</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>$11,667 - $36,336</td>
<td>Red</td>
</tr>
<tr>
<td>$36,336 - $53,046</td>
<td>Yellow</td>
</tr>
<tr>
<td>$53,046 - $85,675</td>
<td>Green</td>
</tr>
<tr>
<td>$85,675 - $110,345</td>
<td>Green</td>
</tr>
<tr>
<td>Insufficient Data</td>
<td>Blank</td>
</tr>
</tbody>
</table>
Educational Attainment
2009-2013
Data Source: Census American Community Survey
National Percentage over 25 with BA or higher: 28.8%

Northern Forest Center map based on research and analysis by the NH Center for Public Policy Studies, with assistance from the Center for Community GIS

Percentage of population over 25 with BA or higher
- Red: 0 - 15%
- Yellow: 15 - 25%
- Green: 25 - 50%
- Dark Green: 50 - 100%
- White: Insufficient Data
Population Trends
1980-2010

Northern Forest Center map based on research and analysis by the NH Center for Public Policy Studies, with assistance from the Center for Community GIS
Percent Change in persons 18 years and under, 2003-2013

US change in portion 0-18 years old = -1.9%
The Center's mission is to create economic opportunity and community vitality from healthy working forests in Maine, New Hampshire, Vermont and New York.
Modern Wood Heat
Support local, forest-related businesses

--78% of money spent on fossil fuel heat leaves the region
--100% of money spent on wood pellets stays here
Help keep forests as forests
--Critical need for low-grade wood markets
Reduce Greenhouse Gas Emissions

Emission level accounting for distribution loss and associated methane release for natural gas (2%) and propane (0.2%).

<table>
<thead>
<tr>
<th></th>
<th>Grams of Greenhouse Gas per Kilowatt Hour (gCO2e/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Pellets</td>
<td>135</td>
</tr>
<tr>
<td>Propane</td>
<td>304</td>
</tr>
<tr>
<td>Heating Oil</td>
<td>357</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>403</td>
</tr>
</tbody>
</table>

- Wood Pellets: 135 gCO2e/kWh
- Propane: 304 gCO2e/kWh
- Heating Oil: 357 gCO2e/kWh
- Natural Gas: 403 gCO2e/kWh

- Wood Pellets: 267 gCO2e/kWh
- Propane: 290 gCO2e/kWh
- Heating Oil: 357 gCO2e/kWh
- Natural Gas: 403 gCO2e/kWh
Real Time Results
Based on Tons of Pellets Delivered Since February 2012

$1,594,557
Savings on Fuel
Amount saved by homeowners who switched to wood pellets.
See the Math

8,837
Net Carbon Dioxide Reduction
Tons net carbon dioxide avoided by not burning oil.
See the Math

$4,811,210
Total Impact Value to Local Economy
Total impact of dollars continuing to circulate in local economy.
See the Math
Wood Products Innovation

- Lean Manufacturing
- Mass Customization
- Organizational Development
- Skilled Workforce Development
### Technical & Financial Assistance

<table>
<thead>
<tr>
<th>Maine Businesses</th>
<th>No.</th>
<th>Product/Service Details</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cousineau Wood Products</td>
<td>Anson</td>
<td>handle, gunstock manufacturer</td>
<td>85</td>
</tr>
<tr>
<td>Invironments</td>
<td>Hermon</td>
<td>millwork and store fixtures</td>
<td>11</td>
</tr>
<tr>
<td>Katahdin Forest Products</td>
<td>Oakfield</td>
<td>cedar log homes</td>
<td>84</td>
</tr>
<tr>
<td>KBS Builders, Inc.</td>
<td>South Paris</td>
<td>modular homes</td>
<td>150</td>
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<tr>
<td>Lovett Woodworks</td>
<td>Wilton</td>
<td>Furniture and benches</td>
<td>8</td>
</tr>
<tr>
<td>Maine Bucket Company</td>
<td>Lewiston</td>
<td>bucket manufacturer</td>
<td>38</td>
</tr>
<tr>
<td>Maine Wood Concepts</td>
<td>New Vineyard</td>
<td>variety of woodturning products</td>
<td>100</td>
</tr>
</tbody>
</table>
Destination Tourism

- Business & Workforce Development
- Cooperative Marketing
- Network & Policy Support
Rural Destination Areas

- Concentrated natural, cultural and recreational amenities; Hospitality services; Vibrant downtowns
- Attract visitors as first step to attracting new residents and entrepreneurs
- Visitors spending supports local businesses and quality of life amenities for local people
Community Forests

- Community ownership
- Community participation in management
- Community benefits tied to community priorities
- Permanent Protection
Community Revitalization

Recruit young families, entrepreneurs, people excited to live in the Northern Forest

- Create the conditions
- Target marketing and recruitment
Community Conditions

- Broadband
- Education & Health Infrastructure
- Quality Housing
- Recreational Opportunities
- Cultural Amenities
- Village Center
Thriving Communities, Healthy Forests:

www.northernforest.org