

Vermont Forest Stewardship Atlas

Presentation by Katharine Otto
Southern Windsor County Regional Planning Commission

May 2015

About the Regional Forest Stewardship Project

- ▶ Vermont started project in 2010 with funding from USDA Forest Service.
- ▶ SWCRPC joined the project in 2013
- ▶ SWCRPC worked with the Regional Forest Stewardship Steering Committee
- ▶ Created a report and several maps focusing on barriers our region faces in maintaining forested lands and what kinds of strategies we will need to enhance and sustain their health
- ▶ Also involved creation of an online interactive map
- ▶ For more info on the project, go to <http://swcrpc.org/forest-stewardship/>

[http://anrmaps.vermont.gov/
websites/ForestStewardship/](http://anrmaps.vermont.gov/websites/ForestStewardship/)



The screenshot shows the top header of the application with the Vermont Agency of Natural Resources logo and the text "Forest Stewardship" and "vermont.gov". The main content area is mostly blank, with a central logo for "VT ANR GIS" featuring a globe and trees. Below the logo is a small disclaimer: "This application uses licensed Geocortex Essentials technology for the Esri® ArcGIS platform. All rights reserved." At the bottom left, there is a small link: "Read maps.vermont.gov".



Forest Stewardship

Vermont Agency of Natural Resources

vermont.gov

Forest Stewardship Atlas

Quick Tools...

Basemap

The purpose of the Forest Stewardship Atlas is to provide access to geographic data related to forests. Over 50 forestry-related datasets are organized into six different themes: Productivity, Ecological Resources, Water Resources, Scenic and Recreational Resources, Human and Environmental Constraints, and Stewardship.

This site allows you to view, identify and query the datasets; print and export maps; and output summary reports for selected geographic areas and layers. Web accessible forest stewardship data will help landowners, towns and forest managers to inventory and assess forest resources in order to more effectively manage these resources.

Having better access to and understanding of landscape scale data will assist in keeping forest land intact to maintain habitat connectivity, forest health and productivity, ecosystem quality and strong forest products based economic activities.

This site was developed by the Vermont Agency of Natural Resources in collaboration with Regional Planning Commissions, with funding from the **United States Department of Agriculture Forest Service**.



0 20 40km

Still working. Loading Forest Stewardship Layers map data...

Earthstar Geographics





Forest Stewardship

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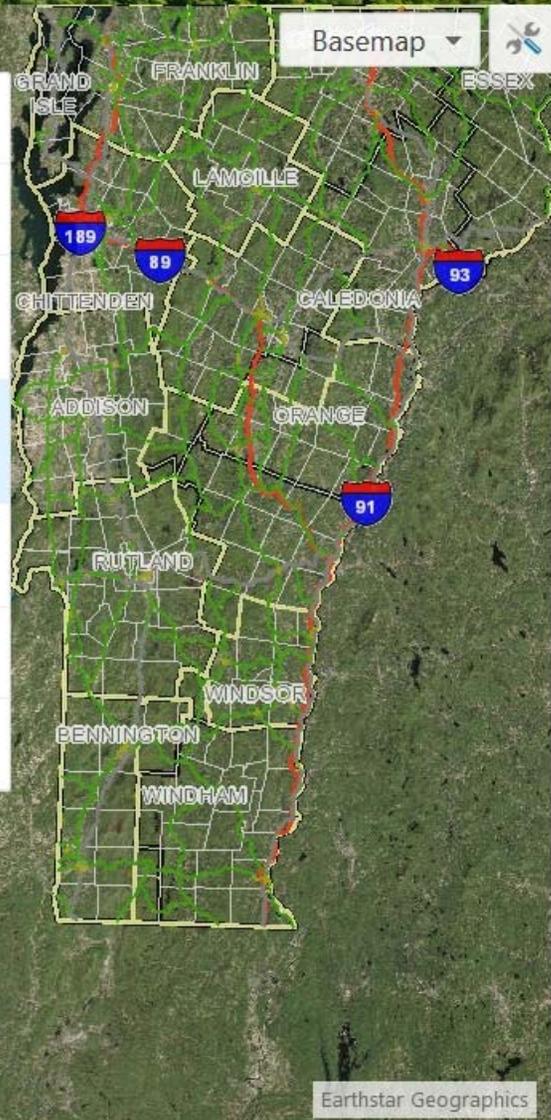
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Quick Tools...

- Get My Map Started!**
Zooms to a particular location and turns on a map theme.
- Zoom to Town**
Zoom to a specified town...
- Identify Features**
Click, tap, or draw a rectangle on the map to identify features.
- View Layer List**
Turn layers on and off, perform layer actions, and view the legend.
- Create PDF Map**
Create a PDF map to save to your computer, or print.
- Return to Statewide Map**
Return to the initial map position and zoom level.
- Toggle Toolbar**
Open/Close the toolbar



Basemap



Earthstar Geographics



Basics



Forest Stewardship

Vermont Agency of Natural Resources

vermont.gov

Map Legend

Quick Tools...

Basemap

Forest Stewardship Layers

Major Roads

- Interstate
- US Highway
- State Highway
- Class 1 Town Road

Minor Roads

- Town Class 1,2,3
- Town Class 4
- Forest Highway
- Private Road
- Legal Trail

Waterbody

Stream

RPC Boundary

County Boundary

Show Layer List



The map displays the Ludlow area with various layers overlaid. A red circle highlights the 'Layer Themes' section of the Basemap menu, which includes 'Give Me Everything!', 'Productivity', 'Ecological Resources', 'Water Resources', 'Scenic and Recreational Resour...', 'Human and Environmental Const...', 'Stewardship', and 'Basemap'. The map also shows a scale bar (0 to 1 km) and a status bar at the bottom indicating 'Still loading Forest Stewardship Layers map data...'.

Choose what to show

VERMONT Forest Stewardship Vermont Agency of Natural Resources vermont.gov

Map Layers

Stewardship

Forest Stewardship Layers

Stewardship

Conserved Lands

- Percent of Land Area Conserved (By ...)
- Percent of Town Acres in UVA
- UVA Average Parcel Acres by Town
- Medium to Medium-High UCF Index
- Priority Urban Forest Enhancement
- Forest Stewardship Potential

Basemap Layers

- Buildings (E911)
- Major Roads
- Minor Roads

Show Legend

WEST WINDSOR WINDSOR WEATHERSFIELD

0 0.5 1km

Earthstar Geographics, CNES/Airbus DS

“Layers” allow you to choose what to show
“Legend” gives info about the color scheme.

VERMONT Forest Stewardship Vermont Agency of Natural Resources vermont.gov

Map Legend Quick Tools... Stewardship

- Forest Stewardship Layers
 - Vermont Land Trust
- Other Agencies/Organizations
 - Federal
 - State
 - Municipal
 - Other Non-Profit/ Private Orgs
- Medium to Medium-High UCF Index
 - No Community Elements
 - Developing
 - Managing
 - Not Reporting
- Major Roads
 - Interstate
 - US Highway

Show Layer List

0 0.5 1km Earthstar Geographics, CNES/Airbus DS

“Legend” gives info about the color scheme.

VERMONT Forest Stewardship
Vermont Agency of Natural Resources

vermont.gov

Map Layers

Stewardship

- Forest Stewardship Layers
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 - Forest Stewardship Potential**
- Basemap Layers
 - Buildings (E911)

Show Legend

Quick Tools...

Stewardship

WOODSTOCK HARTLAND

READING WEST WINDSOR WINDSOR

CAVENDISH WEATHERSFIELD

106 44 91 44A 131

0 1.5 3km

Earthstar Geographics, CNES/Airbus DS

Zoom out until the "Layer" text goes black



Forest Stewardship

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Map Layers

Quick Tools...

Stewardship

Stewardship

Forest Stewardship Layers

Stewardship

Conserved Lands

Vermont Land Trust

Other Agencies/Organizations

Percent of Land Area Conserved (By ...)

Percent of Town Acres in UVA

UVA Average Parcel Acres by Town

Medium to Medium-High UCF Index

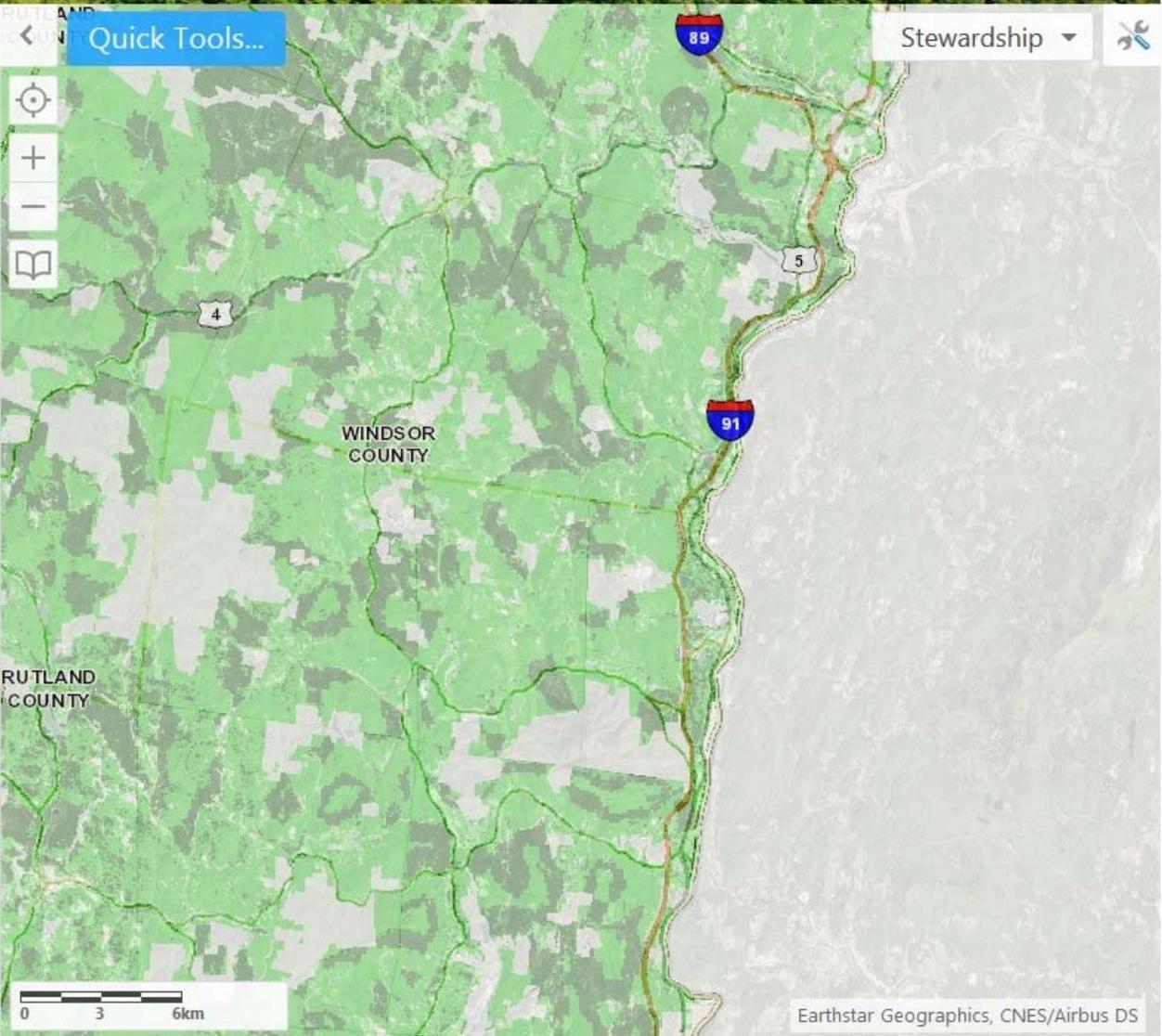
Priority Urban Forest Enhancement

Forest Stewardship Potential

Basemap Layers

Buildings (E911)

Show Legend



Earthstar Geographics, CNES/Airbus DS

Zoom out until the "Layer" text goes black

Tools Measurement

Home Initial View Identify Identify by Rectangle Print Pan Zoom In Zoom Out Initial View Previous Extent Bookmarks

Basic Tools Navigation

Start a Map! Forest Stewardship Report State Forest Plan Metadata Forest Stewardship Desk Guide

Reports

Map Legend

Forest Stewardship Layers

- Forest Stewardship Potential
 - 3 - High Potential
 - 2
 - 1 - Low Potential
- Major Roads
 - Interstate
 - US Highway
 - State Highway

Show Layer List

Quick Tools...

Stewardship

WINDSOR COUNTY

RUTLAND COUNTY

0 3 6km

Earthstar Geographics, CNES/Airbus DS

Toolbar - several tools
Find info about how the data was created

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Tools Measurement

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Show Layer List

WINDSOR COUNTY

RUTLAND COUNTY

0 3 6km

Earthstar Geographics, CNES/Airbus DS

Create your own map - tell it where you want the interactive map to focus and what to show...

Tools

Measurement

Home Initial View Identify Identify by Rectangle Print

Basic Tools

Start a Map **Forest Stewardship Report** State Forest Plan Metadata

Reports

Map Legend

Forest Stewardship Layers

- Major Roads
 - Interstate
 - US Highway
 - State Highway
 - Class 1 Town Road
- RPC Boundary
- County Boundary

World Imagery

Show Layer List

Pan Zoom In Zoom Out Initial View Previous Extent Bookmarks

Navigation

Forest Stewardship Report. ✕

This tool is used to calculate the area and values for five particular forest resource inputs. These inputs include:

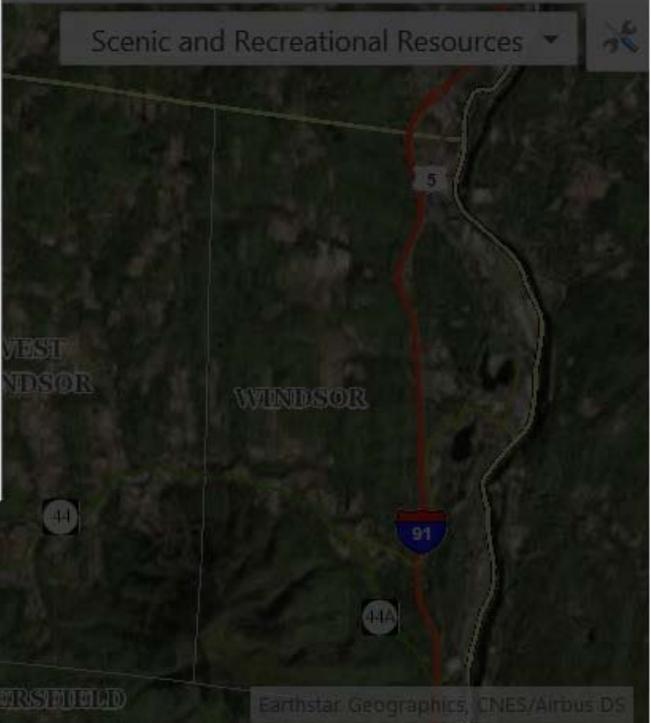
1. Forest Productivity
2. Habitat Blocks > 20 acres
3. Conserved Lands
4. UVA Parcels
5. Forest Cover Types

For information regarding these datasets, please see the Forest Stewardship Metadata:

[Forest Stewardship Metadata](#)

To continue, click "Next"

Scenic and Recreational Resources



CAVENDISH WEATHERSFIELD

0 1.5 3km

Earthstar, Geographics, CNES/Airbus DS

Get a quick summary of acreages in your town, watershed, or specific area...

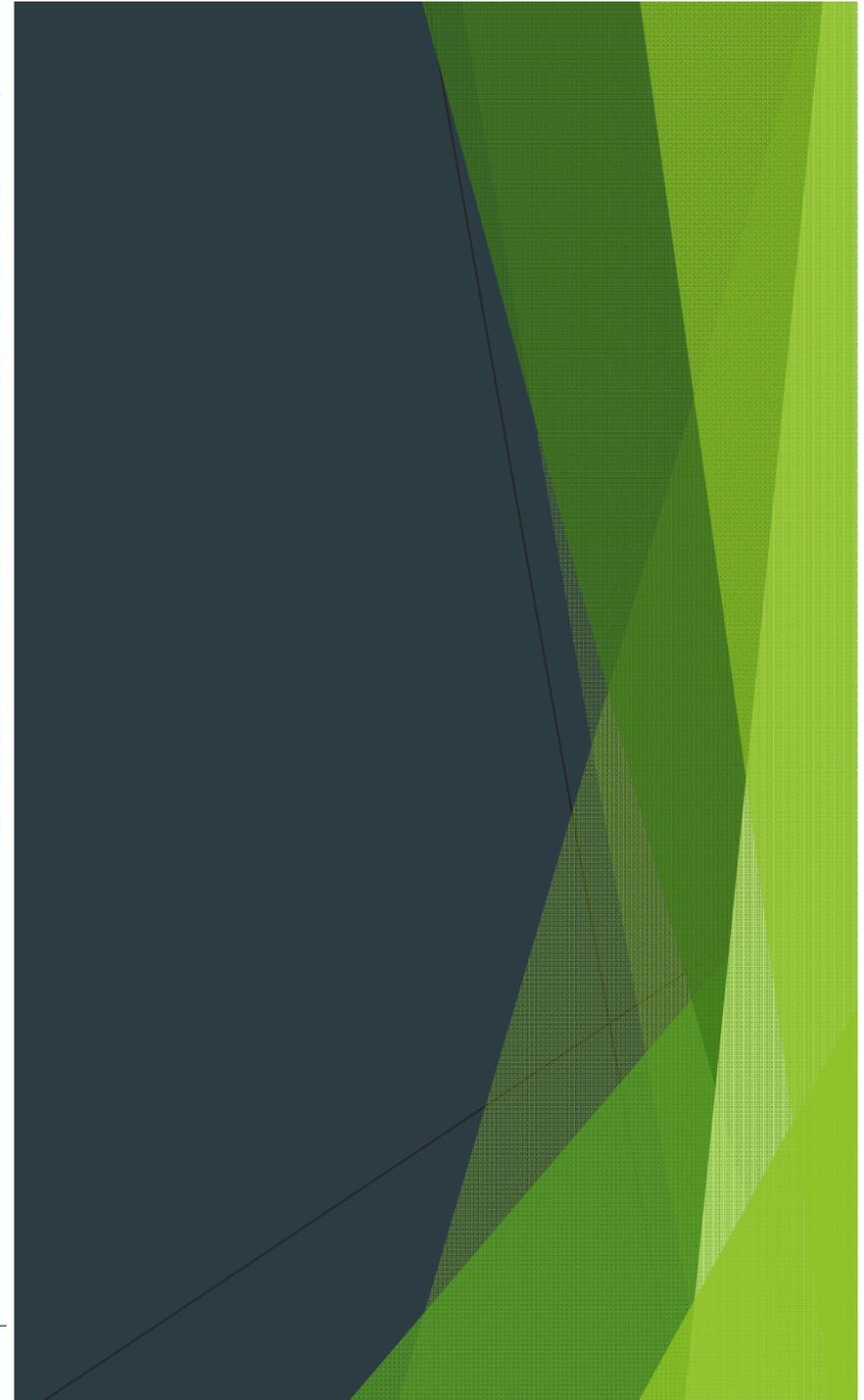


Forest Resources Report

Custom Boundary 1934 acres



<u>LAYER</u>	<u>VALUE</u>	<u>ACRES</u>
Conserved Land		1083.3
Habitat Blocks >20acres		1613.9
Forest Productivity	2 - Less Productive	93.1
Forest Productivity	3 - Moderately Productive	460.2
Forest Productivity	4 - More Productive	739.7
Forest Productivity	5 - Most Productive	639.8
Forest Cover	hardwood	504
Forest Cover	mixed	358
Forest Cover	other	11.5
Forest Cover	spruce-fir	554.8





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Tools Measurement

Distance Area Feet (ft) Acres (ac) Erase Clear All Add as Drawing

Measure Tools

Map Legend

Forest Stewardship Layers

- Bobcat Wetland (Preliminary)
- Bobcat Crossing (Preliminary)

Amphibian and Reptile (Preliminary)

- confirmed
- potential
- Bear Collision
- Bear Wetland Feeding
- Bear Nuisance
- Bear Mast
- Bear Crossing
- Moose Collision

Show Layer List

Quick Tools... Ecological Resources

Current: 152.76 ft, Total: 2803.56 ft

READING

North Branch Black River

0 0.2 0.4km

Click or tap to draw a measurement line. Double-click/tap to finish.

DigitalGlobe, GeoEye, Microsoft, CGI, USDA FSA, CNES/Ai...

Measure distance or area

Tools Measurement

Home Initial View Identify Identify by Rectangle Print

Basic Tools

Pan Zoom In Zoom Out Initial View Previous Extent Bookmarks

Navigation

Start a Map! Forest Stewardship Report State Forest Plan Metadata Forest Stewardship Desk Guide

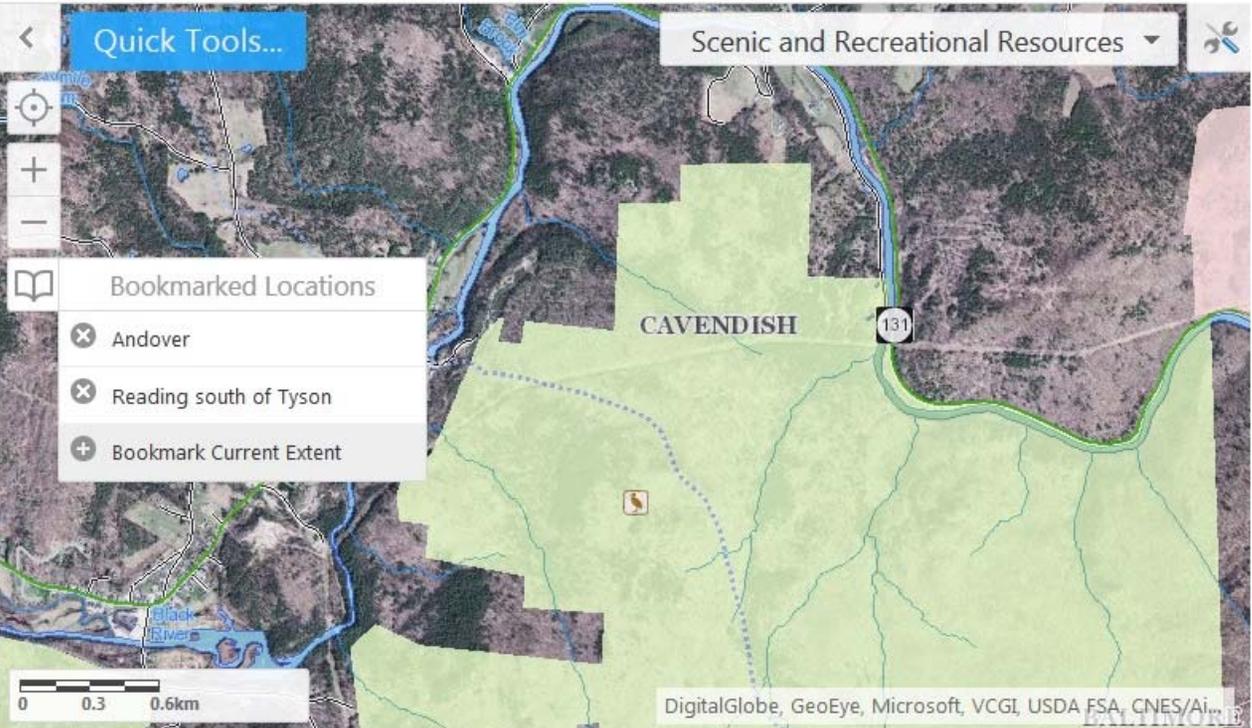
Reports

Map Legend

- Trailhead
- Wildlife Management Area
- Major Trails
 - Long Trail
 - Catamount Trail
 - VAST Trail
 - Local Recreation Path
 - Other Trail
- Conserved Lands with Public Access

Show Layer List

Quick Tools... Scenic and Recreational Resources



Bookmarked Locations

- Andover
- Reading south of Tyson
- Bookmark Current Extent

CAVENDISH

Black River

0 0.3 0.6km

DigitalGlobe, GeoEye, Microsoft, VCGI, USDA FSA, CNES/Airbus

Bookmark a particular location



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Identify Results (11)

High Resolution 30cm Imagery, 2685

Recsite: HAWKS MOUNTAIN WMA
HAWKS MOUNTAIN WMA
Wildlife Management Area

For more information click:
[Forest Stewardship Metadata](#)

Trail
VAST
Rte. 5A Corr. - map edge to road inters.

For more information click:
[Forest Stewardship Metadata](#)

Stream:
Reach Code: 01080106000418
Stream Order: 2

Stream:
Reach Code: 01080106008989
Stream Order: 1

Stream:
Reach Code: 01080106000418
Stream Order: 1

Displaying 1 - 11 (Total: 11)

Page 1 of 1



Quick Tools...

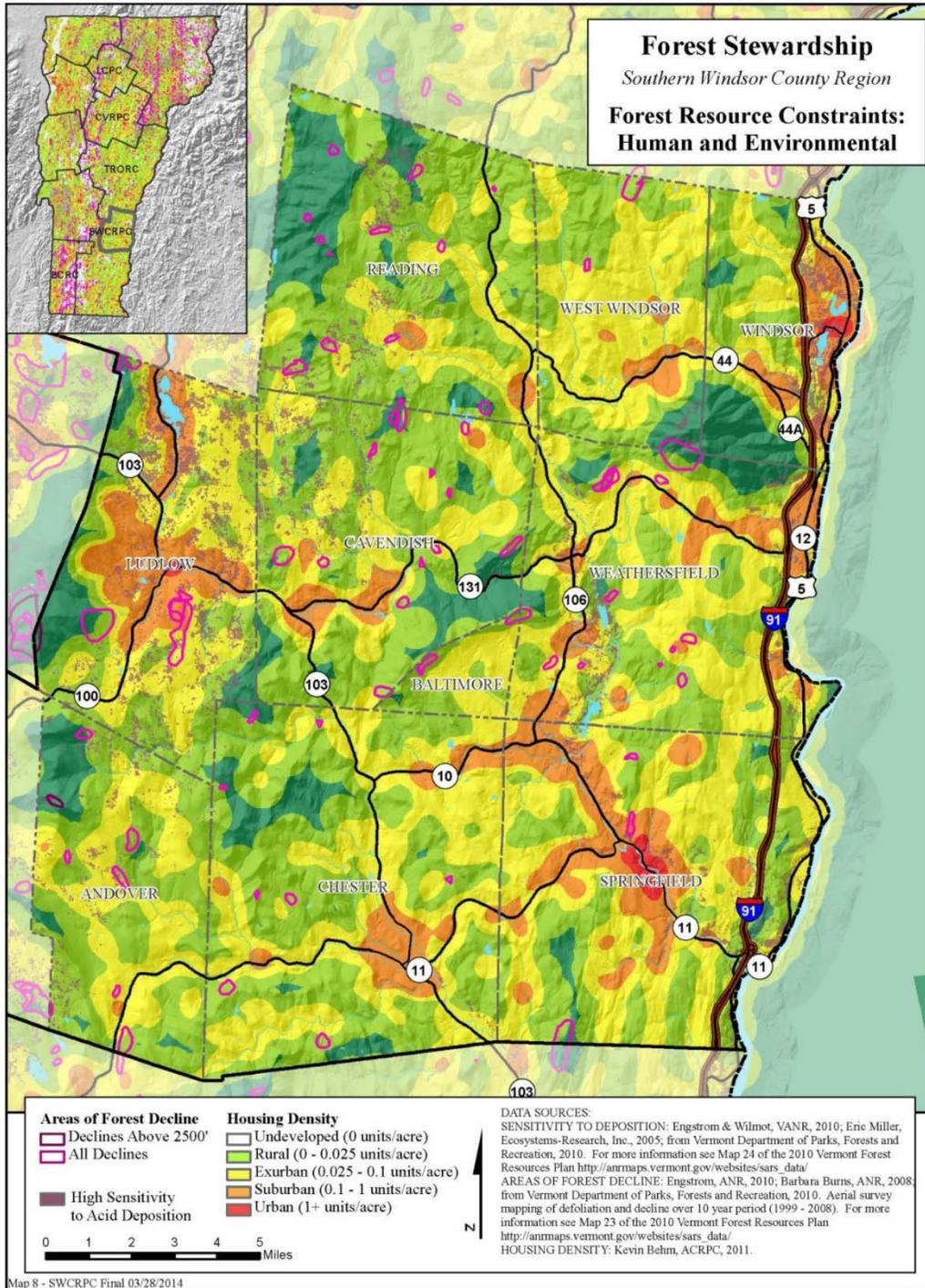
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Scenic and Recreational Resources

BALTIMORE

DigitalGlobe, GeoEye, Microsoft, VCGI, USDA FSA, CNES/Ai...

Identify what you are looking at



Check out the report
for other printed maps



Side of Ascutney Mountain from West Peak Glider Launch. August 2013

Questions?

Mapping related questions - Katharine Otto kotto@swcrpc.org

Other project questions - Dan Potter dpotter@swcrpc.org