

### **REVISTING: FOREST HEALTH & INTEGRITY**

An Update for the Senate Natural Resources and Energy Committee

Michael Snyder, Commissioner

15 April 2021



## How are we doing in our work to support the integrity of Vermont's forests?

- What we've done
- Where do we go

### Recommendations in support of Forest Health and Integrity In response to Act 61 of 2015

VERMONT
DEPARTMENT OF
FORESTS, PARKS
AND RECREATION

AGENCY OF NATURAL RESOURCES

**March 2016** 







SUBMITTED TO:

THE SENATE AND HOUSE COMMITTEES ON NATURAL RESOURCES AND ENERGY

ND

THE HOUSE COMMITTEE ON FISH, WILDLIFE, AND WATER RESOURCES

### THE FORESTS OF VERMONT

### **State of Vermont's Forests:**

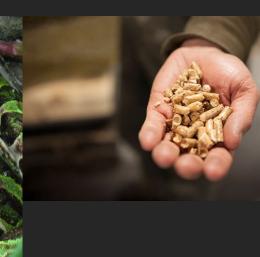
- 4th most forested state
- 4.5 million acres
- 74% forest cover



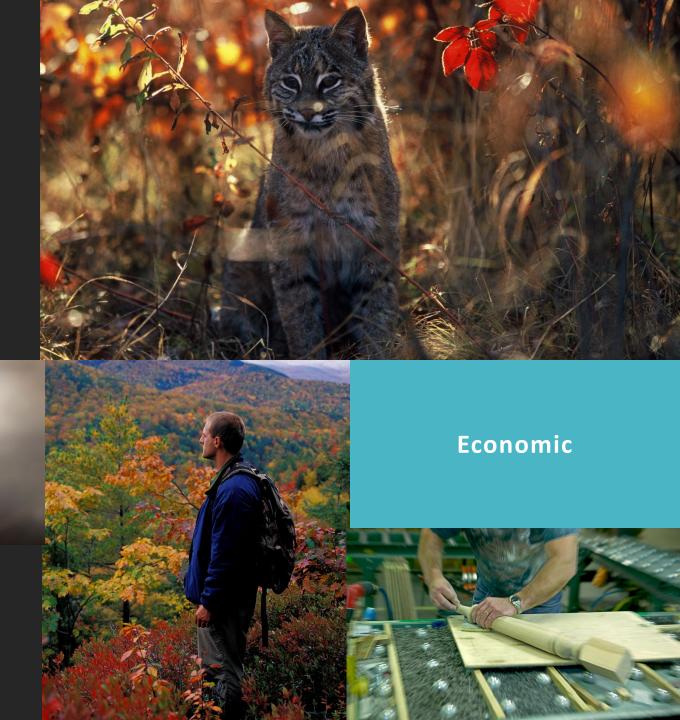


# VERMONT IS FOREST STRONG

**Ecological** 



Cultural



### THE FORESTS OF VERMONT

#### **Current rate of forest land conversion:**

- .5% average annual loss of forestland
- 11,189 acres of net forestland converted annually

### Estimated 2050 forecast based on current trends:

- 324,481+/- acres converted
- 67% +/- forest cover







### ACT 118 of 2014

AN ACT RELATING TO FOREST INTEGRITY

### **Accomplishments:**

- Right to Conduct Forestry
- Logger Safety and Workers Compensation
- Forester licensing
- Timber Trespass as a crime
- Municipal Planning
- Sales and Use Tax exemptions

We've done a lot.



Markets and Workforce Challenges

# LET'S KEEP VERMONT FOREST STRONG







Conversion to Non-Forest Use

Poor Regeneration and Over Browsing



Invasive Plants,
Pests &
Pathogens



### STRATEGIES FOR THE FUTURE

### All are still particularly important

- Support Sustainable Forestry and the Vermont Forest Economy
- Increase Landowner Incentives to Keep Forests
   Forested
- Invest in Strategic Forestland Conservation
- Outreach and Education on Forest Values and Benefits





Sustainable
Forestry and the
Vermont Forest
Economy

- Support & Improve Training for Loggers
- Protect and improve infrastructure that supports the local wood industry
- Expand modern wood heating in Vermont
- Expand markets for Vermont wood products
- Recognize and promote the value of forests in outdoor recreation and tourism



Increase
Landowner
Incentives to Keep
Forests Forest

- Support Use-Value Appraisal (UVA or "Current Use")
- Modernize Vermont's property tax system
- Reduce tax burdens during intergenerational land transfer
- Monetize ecosystem services





Invest in Strategic Forestland Conservation

- Create a robust funding source for forestland conservation
- Establish a common goal and clear conservation priorities
- Enhance Forestland Conservation Tools and Programs





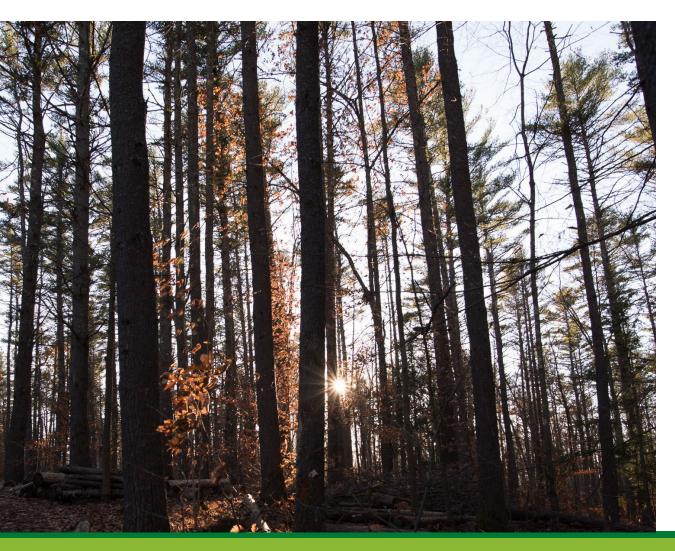
Support Outreach and Education on Forest Values and Benefits

- Support landowner assistance and education
- Provide technical assistance to towns, regional commissions and watershed groups
- Promote livable downtowns
- Engage schoolchildren



### CLIMATE CHANGE AND FOREST HEALTH

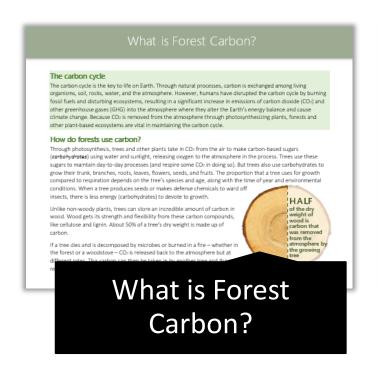
The plan does not recognize strategies to adapt to a changing climate and health threats



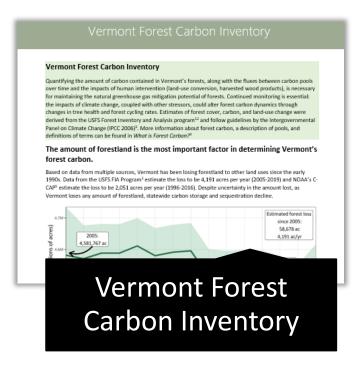
- Forest can mitigate climate change
- Forests are impacted by climate change



# NEW RESOURCES ON FOREST CARBON FOR A RANGE OF USES AND AUDIENCES





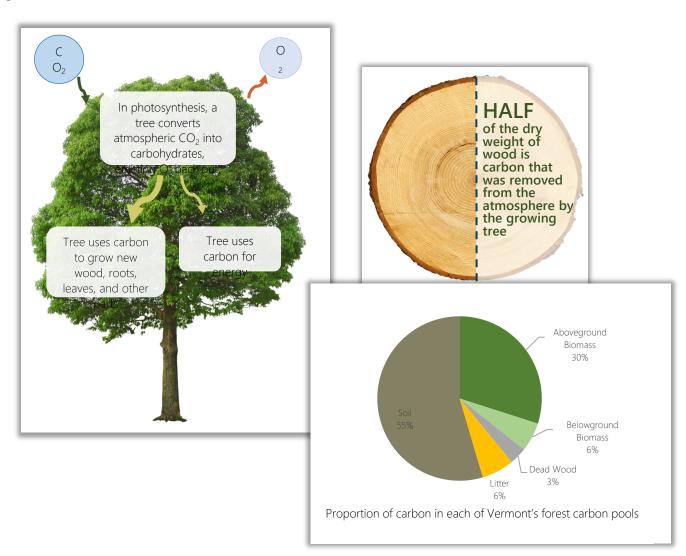


### WHAT IS FOREST CARBON?

An informational guide to learn about the forest carbon cycle and key terminology. Contains graphical diagrams to help convey key messages.

#### Includes:

- Definitions for terms like carbon sequestration, storage, and flux.
- Description of the five forest carbon pools
- Methods scientists use to estimate and measure forest carbon.
- Forest carbon variation by forest type, age, and condition.



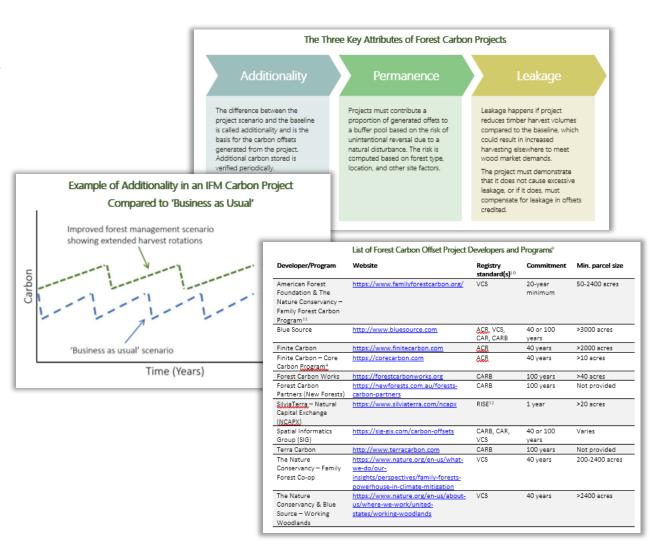


### FOREST CARBON MARKETS FOR VERMONT LANDOWNERS

Guide to understanding forest carbon offsets and markets for Vermont forestland owners.

#### Includes:

- How carbon offsets are quantified and commoditized.
- The difference between carbon markets and registries.
- Compatibility of carbon markets with other forestland policies and programs, like VT's current use program.
- The development process for carbon offset projects
- A list of current programs available to VT landowners.





### VERMONT FOREST CARBON INVENTORY

Uses the most recent data provided by the USDA Forest Service's Forest Inventory and Analysis program. Each graph is accompanied by interpretive information to help the reader understand and navigate the data.

#### Includes:

- Statewide annual estimates of forest loss.
- Carbon gains and losses from land-use change
- Rates of carbon storage accrual in the 5 forest carbon pools.
- Carbon flux across the forest sector, including harvested wood products.
- Per acre average carbon storage and flux by carbon pool.

