Family Forest Carbon Program

Presented By: Chris Zimmerman



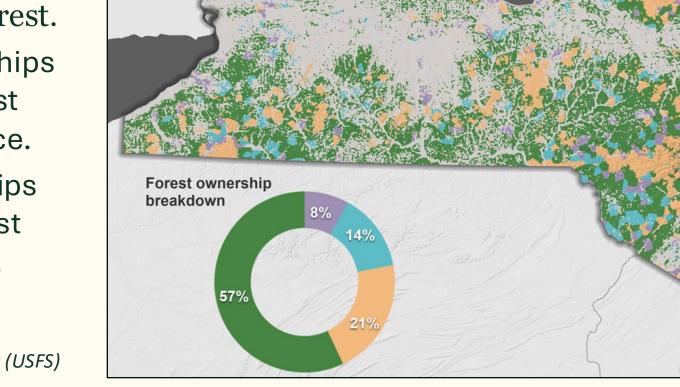
Program Led By:





New York State Family Forest Landowners

- 197,000 family forest ownerships totaling 9.3 million acres of forest.
- 16% of the ownerships have received forest management advice.
- 9% of the ownerships have a written forest management plan.



Forest Ownership 2009 (USFS)

Family ownership

State ownership

Other ownership

Non-forest

Corporate ownership



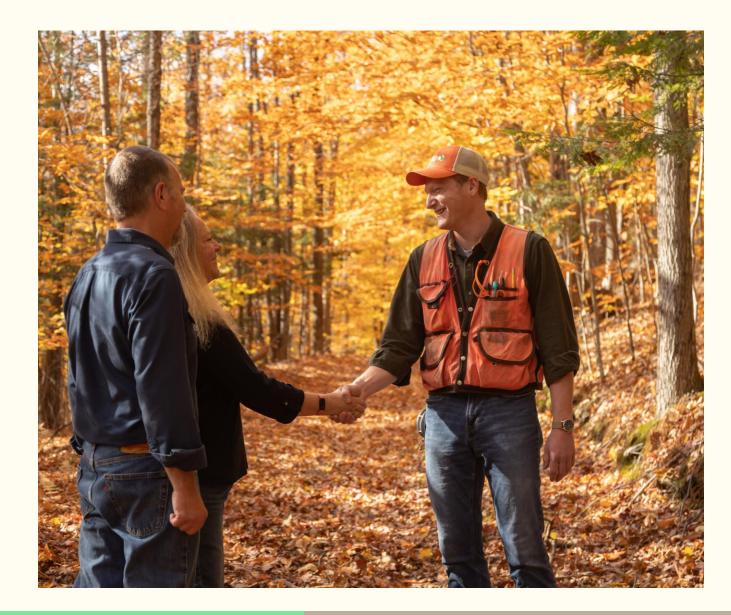
Forest ownership data is from the USFS ownership type grid (interpolated based on Forest Inventory and Analysis plot data). Base layers are from Natural Earth.

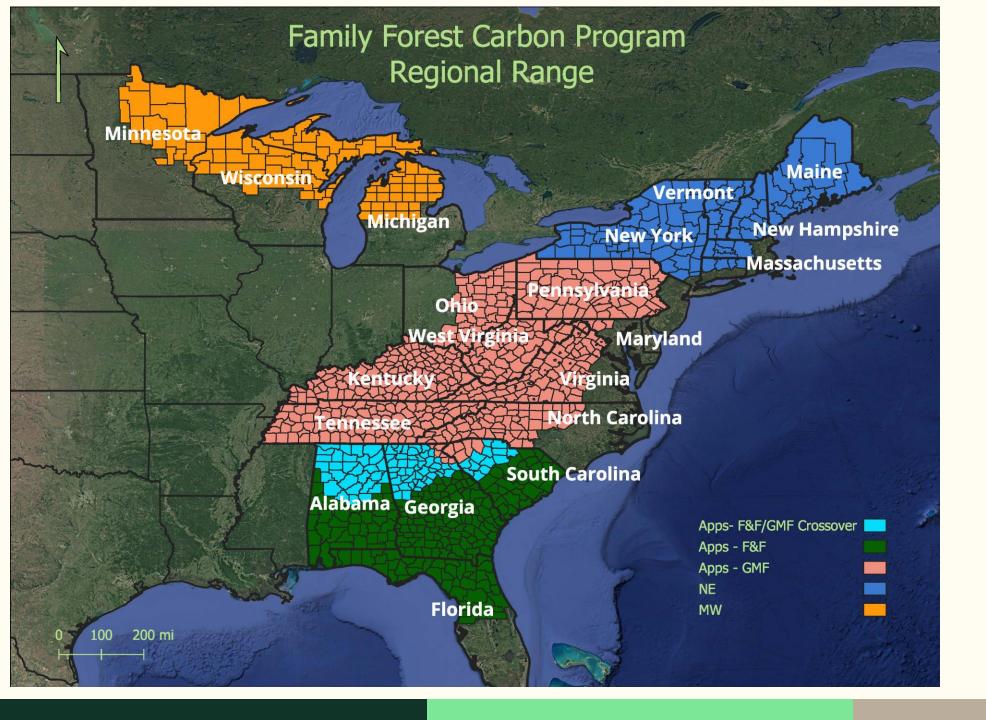




What is the Family Forest Carbon Program?

- Developed by the <u>American</u> <u>Forest Foundation</u> and <u>The</u> <u>Nature Conservancy</u>.
- The Family Forest Carbon Program brings together family forest owners to improve forest health, address climate change and support communities.







Eligible Counties

The Family Forest Carbon Program is currently available in 20 states.

Healthy Forests for our Future:

A Management Guide to Increase Carbon Storage in Northeast Forests





Ten Climate-Informed Forest Management Practices



Purpose

Enable landowners and foresters to make climate informed decisions

Contents 10 forestry practices to:

- Increase carbon stored in the forest within 20 years
- Improve forest health and resilience

Protect forests

1. Avoid forest loss

Grow new trees and forests

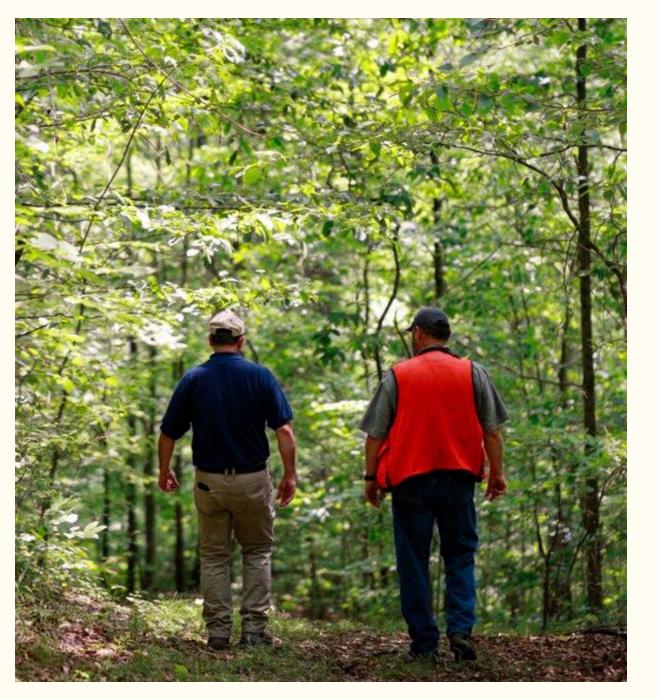
- 2. Green developed areas
- 3. Reforest
- 4. Plant trees to increase forest stocking

Reduce stressors

- 5. Remove invasive vegetation
- 6. Protect seedlings and saplings from deer browse

Manage forests

- 7. Establish forest reserves
- 8. Increase time between harvests
- 9. Create gaps to promote regeneration
- 10. Retain more carbon in a thinning





Enhance Your Woodland

- Designed for landowners who want to actively manage forest.
- Enhance Your Woodland (EYW) provides landowners with annual payments, forestry expertise, and potentially timber revenue from future harvests.
- EYW is currently enrolling landowners with 30+ acres of forests.

Enhance Your Woodland

Eligibility and Landowner Benefits









30 Forested Acres (Minimum)



60 sqft/ac 8" QMD 2,000 MBF



Naturally Occurring Maple-Beech-Birch Forest Type





Payment: \$200/ac. \$10/ac./yr.

Sustainable Harvesting is Allowed



Yearly Personal Use Allowance



Free Forest Management Plan (Updated Every 10 Years)

EYW Practice Specifications and Wildlife Benefits

- Must hire a qualified 3rd party forester to oversee harvest.
- May not remove more than 15% of the total basal area within the enrolled area.
- May not reduce the quadratic mean diameter beyond 10%.

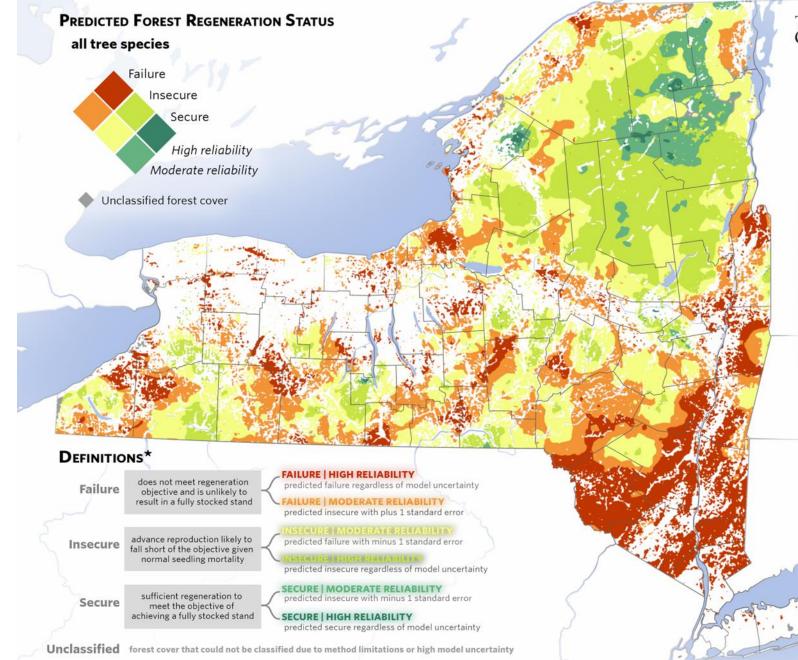




Thinning, single tree selection, group selection, and small patch cuts.

- Promotes forest regeneration
- Increases structural complexity
 - Provides habitat for wildlife
 - Promotes resilience.





*Adapted from Vickers et al. Ecological Indicators 96 (2019): 718-727.

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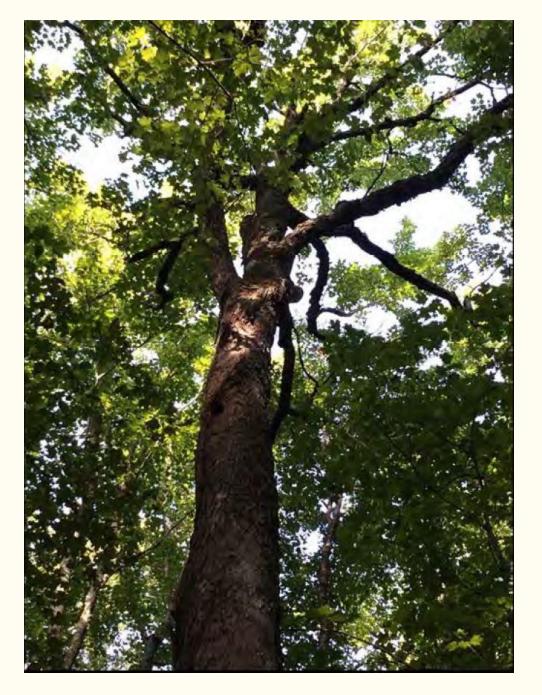
The Nature Conservancy New York

Data credits

Predicted Forest Regeneration Status grid modeled based on USFS FIA point data and interpolated across USFS mapped forest cover. Base Layers from Natural Earth.

Map credits

Created August 2020 by Chris Zimmerman, Rebecca Shirer and Shannon Thol of The Nature Conservancy in New York.





Growing Older Forests

- Deferred timber harvest for 20 years (extended rotation).
- Allows for some firewood harvesting.

GOF provides landowners with annual payments, forestry expertise and potential increased timber value.

GOF is currently enrolling landowners with 30+ acres of forests

Growing Older Forests

Eligibility and Landowner Benefits





GOF Practice Specifications and Wildlife Benefits

Family Forest Carbon Program

- Extended rotation for 20 years.
- Promotes the growth of large trees and increases the amount of carbon stored.
- Benefits wildlife by growing large-diameter trees, snags, and large downed logs.





Personal Use Allowance



5 cords for the first 200 acres



No diameter limit on naturally fallen or dead trees



Standing live trees being harvested for personal use must be below 12 inches in diameter



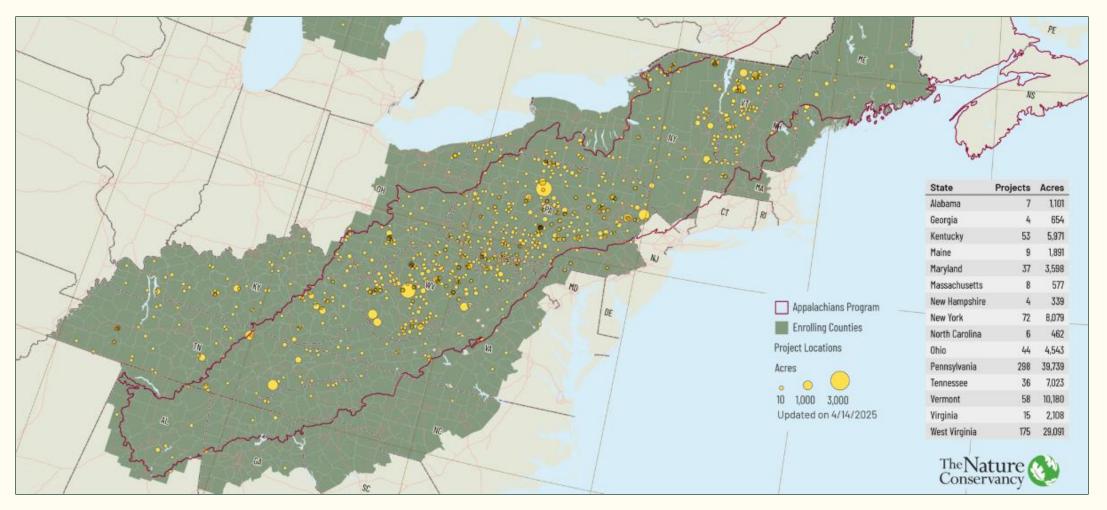
Allowance can be used to sell firewood

Personal Allowance					
Project Area Size (Acres)	30-199	200-299	300-399	400-499	500+
Max Cords Per Year	5	10	15	20	25

FFCP Enrollment



- Over 1,000 landowners enrolled, totaling ~ 140,000 acres.
- In NY, 88 landowners enrolled, totaling ~ 12,000 forested acres.

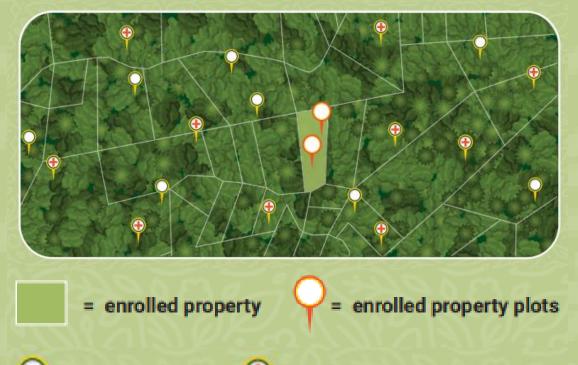


Dynamic Baseline - Calculating Carbon Benefit

1. Establish a dynamic baseline of highly similar forested properties outside the enrolled property.

DETERMINING A MATCH

Properties are matched based on a minimum of 14 variables,



= available plots

= matched plots used to form the baseline 2. Compare the carbon sequestered on enrolled properties (improved forest management) to the baseline of unenrolled properties.

3. Calculate carbon benefit at landscape scale.



Thank you!

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Get started at familyforestcarbon.org

Program Led By:

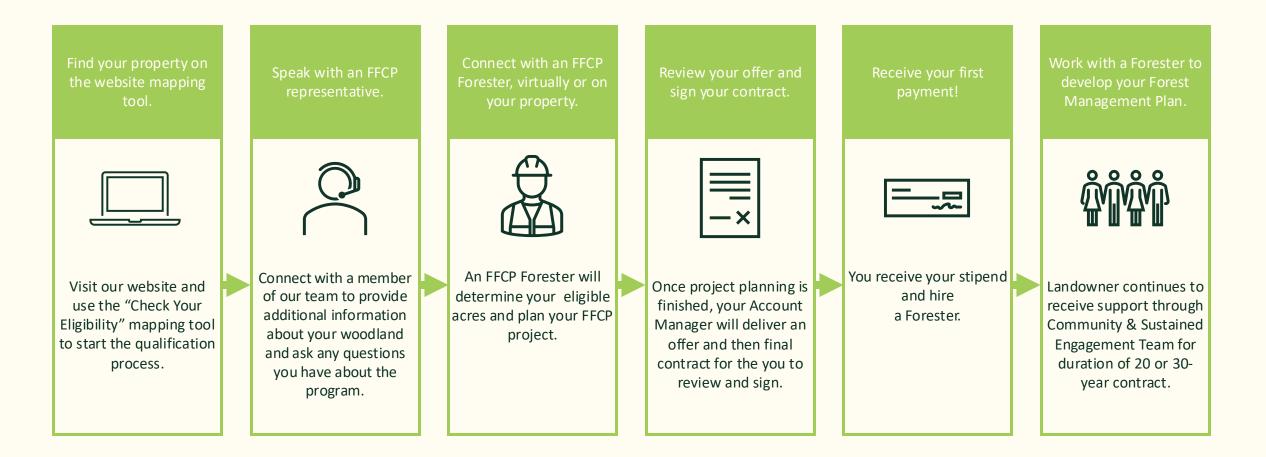




Family Forest Carbon Program



Get started at **familyforestcarbon.org**





FFCP Integration with Prior Commitments

FFCP works well with many easements and other forestry programs.

Easements must not contain language that restricts harvesting, and the ability to harvest provides a pathway for landowners to enroll in programs that require harvesting.

Our staff will review any existing commitments and ensure compatibility.

Utility and gas line rights-of-ways typically pose no concern once they are established.

FFCP Extra Small Landowner Opportunity



Enhance Your Woodland and Growing Older Forests Practices

Northeast:

- Maine, New Hampshire, Vermont, New York, Massachusetts
- Enroll as few as 15 acres into the program and maintain all the same benefits.

