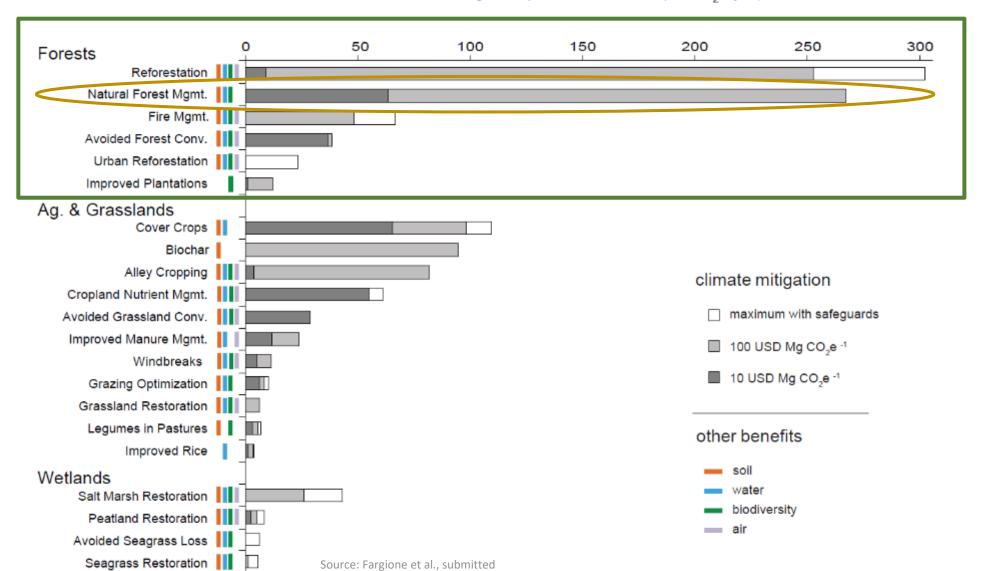


## **Natural Climate Solutions**

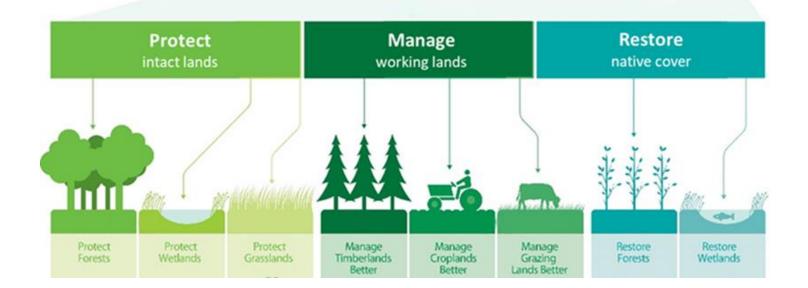


Climate mitigation potential in 2025 (MtCO<sub>2</sub>e yr<sup>-1</sup>)

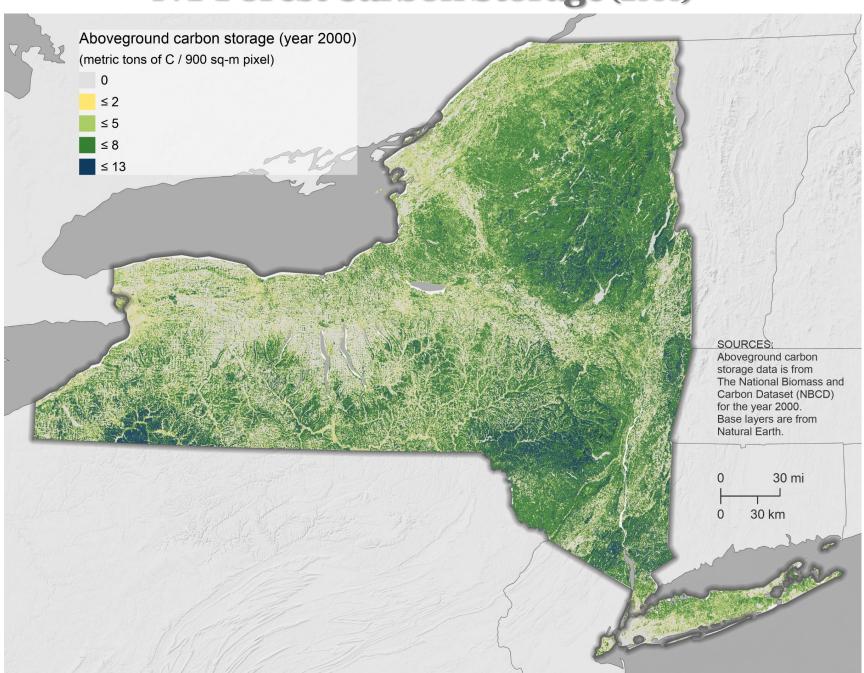


Meeting our Climate Mitigation Goals

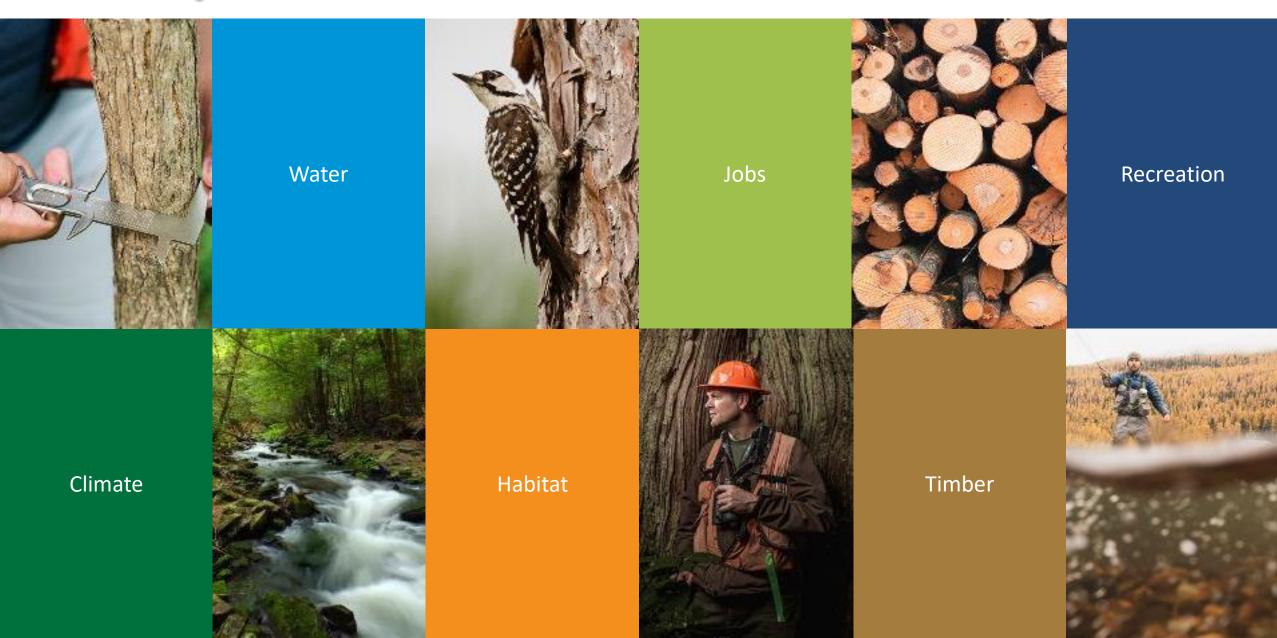




# NY Forest Carbon Storage (2000)



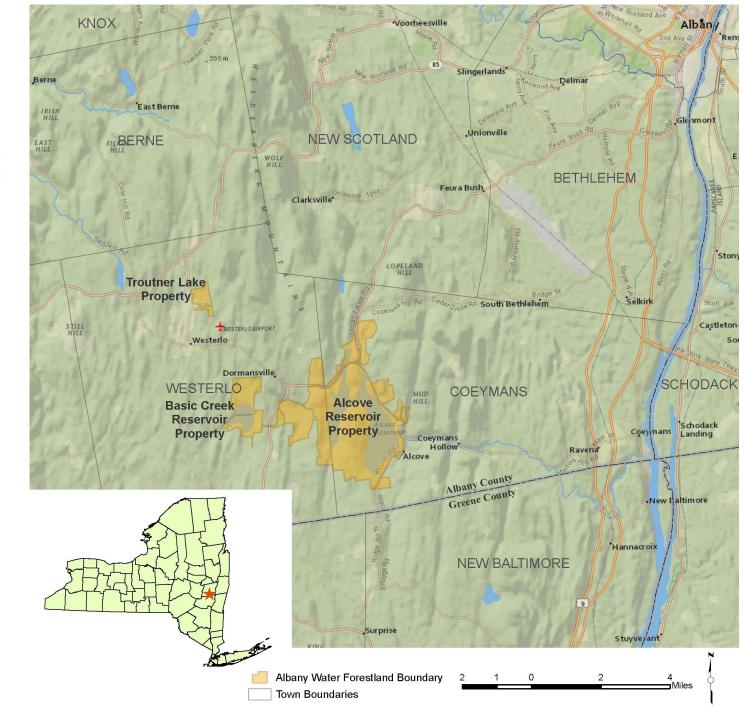
# Why Forests? Co-benefits



# **Working Woodlands** Alcove Reservoir Project completed in 2019 Photo by MHLC with Aerial Support Provided by Light Hawk

# Alcove Reservoir Working Woodlands Project

- Partnership between
  - The Nature Conservancy
  - Albany Water Department
  - Mohawk Hudson Land Conservancy
- Alcove Reservoir drinking water source for City of Albany (~120,000 residents)
- 4,500 forest land enrolled





# Working Woodlands

Opportunity to generate revenue for landowners, address climate change, and protect the forest legacy

#### **Forest certification**

- TNC provided a new forest management plan to support sustainable management
- Certification for the property under our FSC group certificate

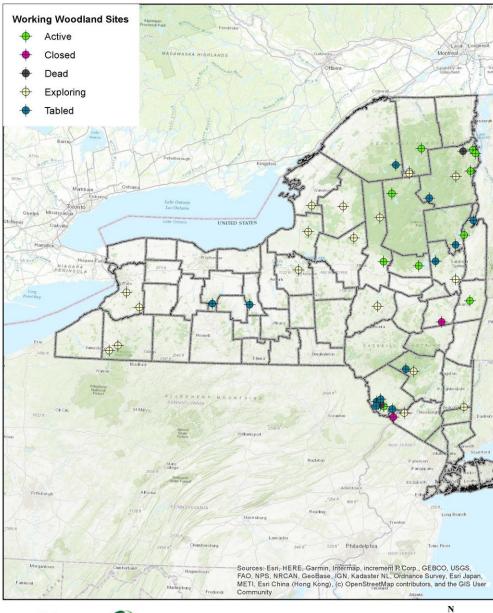
#### **Forest carbon**

- Developed a 40-year voluntary carbon offset project with ACR
- TNC is currently selling offset credits for the project
- Revenue is directed back to management of the property

#### **Forest protection**

- Worked with the Albany Water Board and MHLC to design the working forest conservation easement
- Can meet landowner needs
  AND keep the forest as forest.









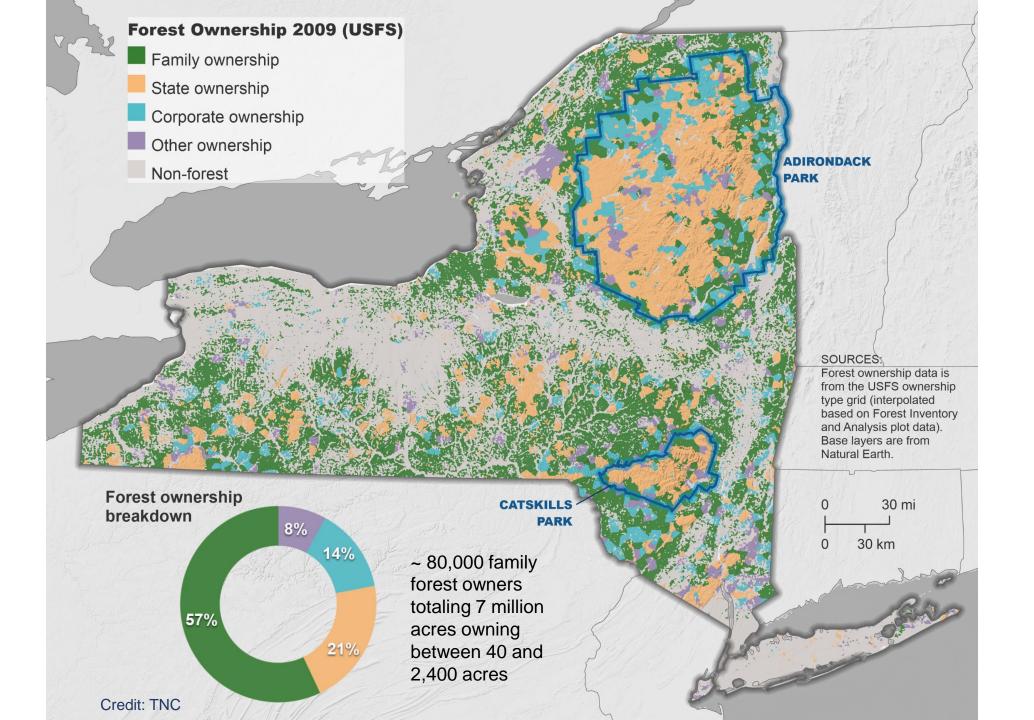


# The Family Forest Carbon Program

An Opportunity to Achieve Climate Mitigation and Other Vital Co-Benefits







# **Family Forest Carbon Program**

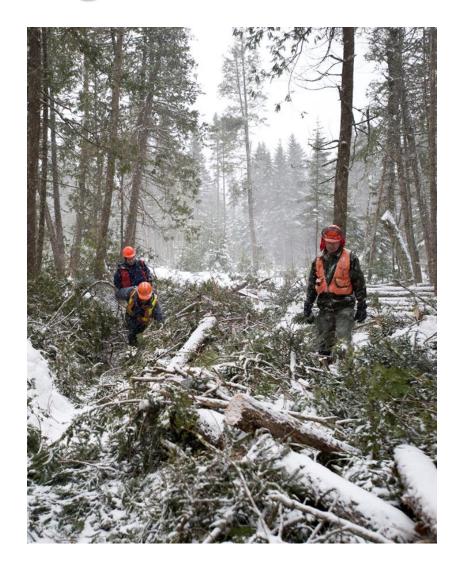
#### **Practices**

- 1. Growing Mature Forest
- 2. Enhancing the Future Forest Practice

#### **Six Draft Practices**

(New England TNC - USFS 2019 Workshop)

- 1. Retain carbon in commercial thinning
- 2. Regeneration harvest with complexity
- 3. Protection regeneration from herbivory (deer fencing or tree shelters)
- 4. Reforestation
- 5. Removal of vines
- 6. Forest reserves





# Family Forest Carbon Program - Draft Practices

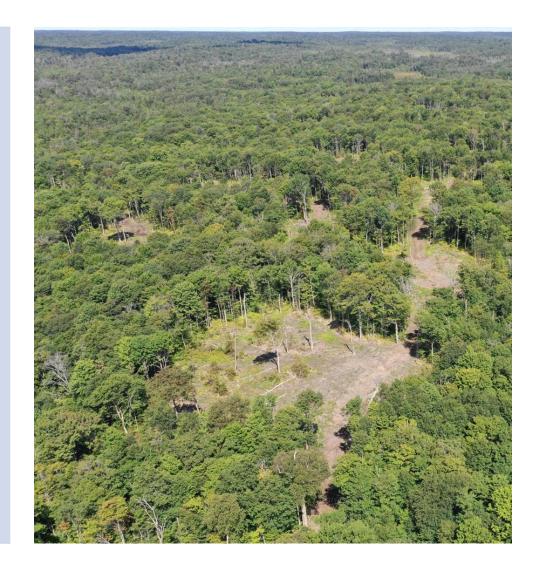
#### **Regeneration Harvest with Complexity**

#### **Eligibility**

- 40 to 2,400 acres
- 2,000 board feet/acre within the project area (stocking suitable for commercial harvest)

#### **Practice specifications**

- Develop two property-wide, 10-year forest management plans
- Harvests are allowed but restricted:
  - No thinning from above ("high-grading")
  - Harvest area not to exceed more than 20% of stand
  - Retain > 4 live trees/acre >14 inches DBH and snag and coarse woody debris



# Family Forest Carbon Program - Draft Practices

#### **Protect Regeneration from Herbivory**

Produces carbon benefit through improving regeneration in stands impacted by herbivory

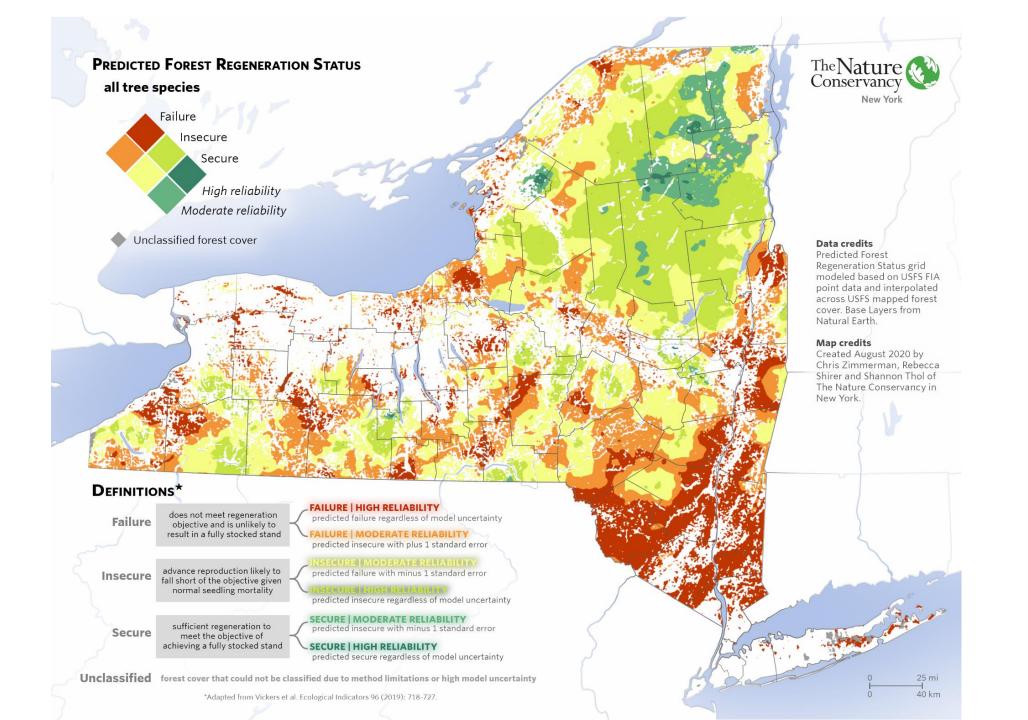
#### **Eligibility**

- 40 to 2,400 acres
- The project area has significant damage from deer
- Landowner must allow hunting on the project area

#### **Practice specifications**

- Fences or shelters must be maintained for at least
  10 years
- Performance standard
  - Year 5 >350 stems/acre of native tree species
  - Year 10 >350 stems/acre > 6 feet in height





## Family Forest Carbon Program - Draft Practices

#### Reforestation

Produces carbon benefits through the reforestation of lands that are not currently forest, but were historically

#### **Eligibility**

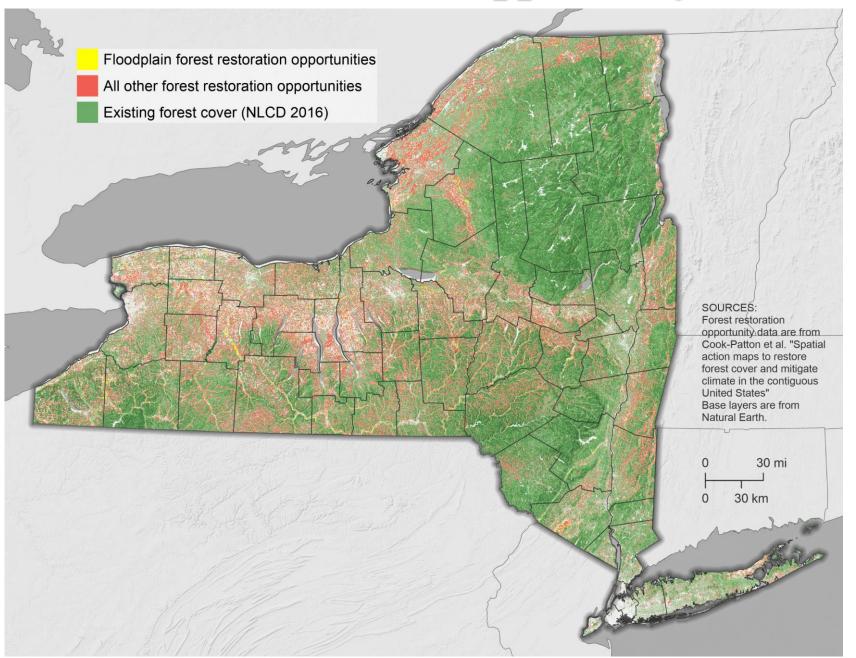
- 40 to 2,400 acres
- Non-forest (<25% tree cover)</li>

#### **Practice specifications**

- Fences or shelters must be maintained for at least
  10 years
- Performance standard
  - Year 5 >350 stems/acre of native tree species
  - Year 10 >350 stems/acre > 6 feet in height



# **NY Reforestation Opportunity**



# **NY Reforestation Opportunity**

#### Forest Restoration Opportunity by Land Cover Type

Land Cover Classes (NLCD)	Acres	(MMT CO2/yr)
Unstocked forest & shrub	29,158	0.118
Pasture – poor soils	350,642	1.1833
Other pasture	2,643,035	8.7718
Crop – poor soils	124,047	0.4005
Urban open space	494,457	1.6862
Remaining NLCD classes	11,861	0.0477
<u>Total</u>	3,653,200	12.2075

#### **Forest Restoration Opportunity by Ownership**

Ownership	Opportunity (ac)	(MMT CO2/yr)
Private	3,595,872	12.014
Private - NGO	988	0.0038
Federal	7,660	0.0242
State	22,734	0.0771
Public - Other	23,228	0.0789
Tribal	2,965	0.0095





# Thank You

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The Nature Conservancy

More info:

nature.org/nyworkingwoodlands