



Reserve Forestland Standards and Rollout

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Background

- Act 146 created a new enrollment subcategory in the Managed Forestland category of Use Value Appraisal (UVA) called Reserve Forestland.
 - The act required development of a report defining the program standards. This report was issued on December 30, 2022.
 - Enrollments in the subcategory began July 1, 2023.
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Testimony

- Purpose of Reserve Forestland
- Eligibility
- Process for development of standards
- Plan and Management Standards
- Rollout



Forests with a critical mass of old forest characteristics can provide important contributions to:

- Native biodiversity
- Wildlife habitat
- Hydrologic regulation
- Carbon storage
- Forest resilience
- Localized cooling and climate buffering

Characteristics include:

- Large old trees
- Spatial variability in tree density and size
- Abundant downed deadwood
- Multiple canopy layers
- Large standing dead trees
- Regeneration
- Unique plant communities (understory plants, mosses, lichens)

Managed to attain old forest values and functions

These contributions are not exclusive to old forest but the nature of some contributions may be unique to old forest and thus valuable.

Younger Forest



Older Forest



Eligibility

Baseline eligibility:

25 total enrolled forestland acres

20 acres are forested productive soils (Site Class I, II, or III) may be eligible for enrollment of Reserve Forestland. Of these parcels, the following eligibility thresholds apply:

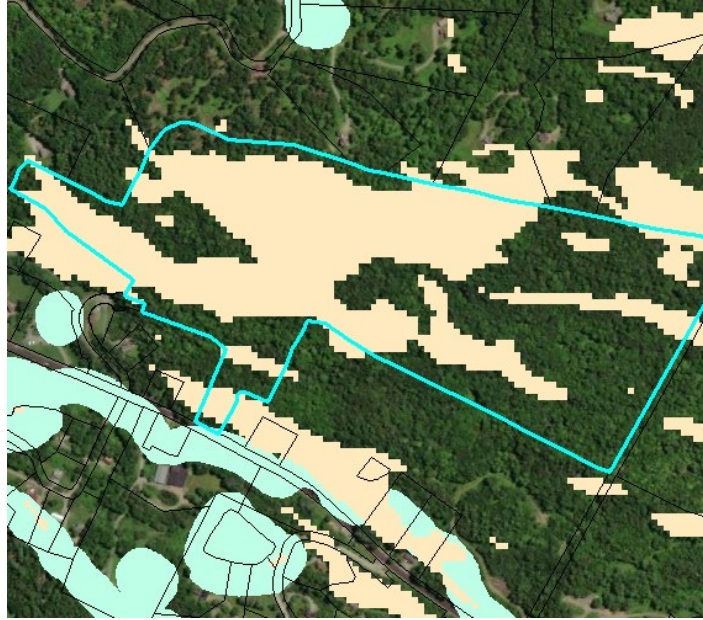
PARCELS WITH \geq 100 ENROLLED ACRES: 30% or more of the parcel's enrolled acres need to be composed of significant and sensitive conditions, per program standards.

PARCELS WITH $<$ 100 ENROLLED ACRES: 50% or more of the parcel's enrolled acres need to be composed of significant and sensitive conditions, per program standards.

Significant and Sensitive Conditions:

- Ecologically Significant Treatment Areas (ESTAs)
- Steep slopes \geq 35%
- Site IV lands, and
- Special places and sensitive sites.

Examples < 100 acres



Eligible example:

85 enrolled acres (all forest)
53 acres significant sensitive
conditions (all steep slope)

62% significant sensitive conditions.

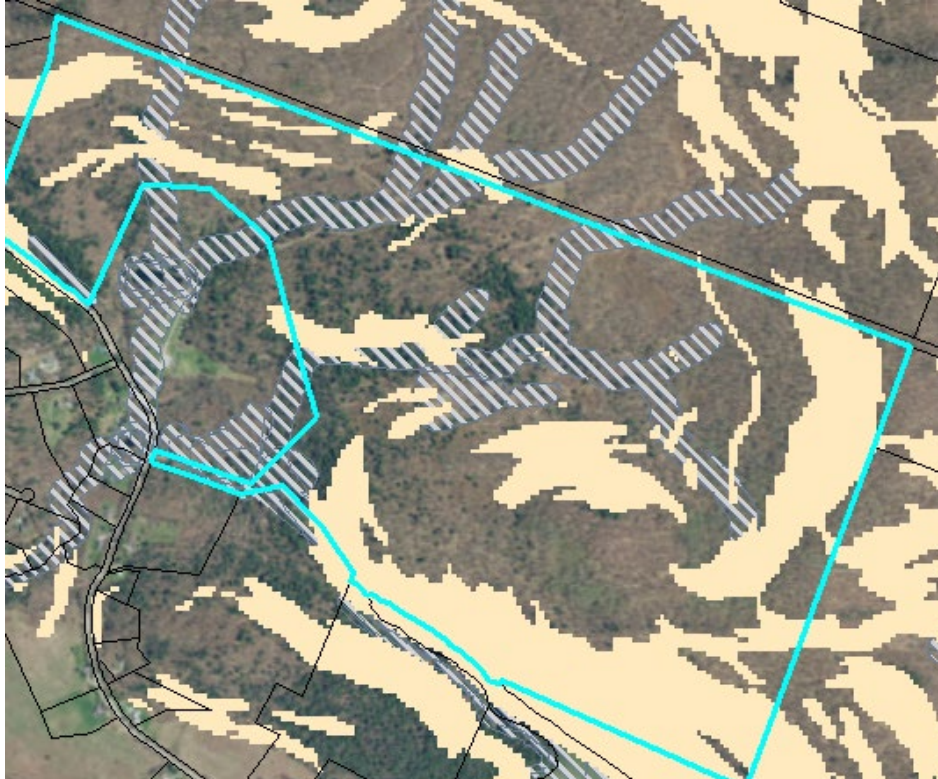


Ineligible example:

71 enrolled acres (forest + ag)
24 acres significant sensitive
conditions (steep slope + riparian)

33% significant sensitive conditions

**Examples
> 100
acres**



Eligible example:

365 enrolled acres (all forest)
162 acres significant sensitive
conditions (riparian + steep slope)

44% significant sensitive conditions.
Eligible > 30%

Ineligible example:

174 enrolled acres (forest + open)
18 acres significant sensitive
conditions (riparian)

10% significant sensitive conditions.
Ineligible < 30%



Key elements of the process:

- 2021 Reserve Forestland Report
- Internal working group
- Private Lands Advisory Committee
- Reserve Forestland website and associated announcement.
- November 4, 2022, input meeting
- November 30, 2022, input meeting
- Current Use Advisory Board
- Property Valuation and Review
- One on one conversations



Standards Development Process

Plan Standards

These standards define what must be included in a forest management plan to satisfy Use Value Appraisal Requirements.

Existing Requirements

- Existing standards used to describe Productive Forestland also apply to Reserve Forestland. *Examples include requirements to inventory the forest, 10-year plan updates, description of forest stands and a schedule of proposed management and more.*

Adapted Stand Description Elements

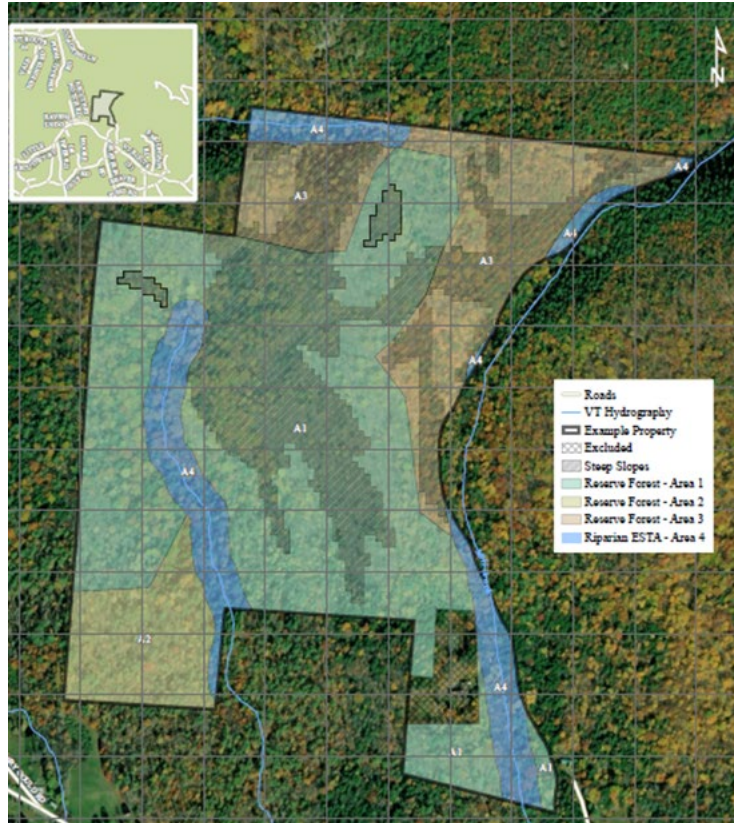
- Specificity and new descriptive requirements were added for Reserve Forestland to improve the relevance of plan data for evaluation of opportunities and barriers to attainment of old forest characteristics and associated values and functions.
 - *Added specificity: regeneration, invasive plants, diameter distribution.*
 - *New Requirements: natural community type, deer browse, coarse woody material and others.*

Prescriptions

- The forest management prescribed, whether passive or active, must result in the accrual and protection of old forest characteristics.

Map Standards

Existing standards and additional requirements for acreage charts apply



Sample Acreage Chart for Enrollment of Reserve Forestland					
Area	Description	Mapped Acres	Prorated Acres	Mapped Significant Sensitive	Prorated Significant Sensitive
1	Reserve Forestland Stand 1 (inclusive of Steep Slope) – Northern Hardwoods	79	83.1	25.6	*27
2	Reserve Forestland Stand 2 (inclusive of Steep Slope) – White Pine-Northern Hardwoods	11.4	12	0	*0
3	Reserve Forestland Stand 3 (inclusive of Steep Slope) – Hemlock-Northern Hardwoods	30	31.5	15.2	*16
4	Riparian Area	17.6	18.5	17.6	18.5
Total Forestland		137.9	145.2		
Total Agricultural Land			0		
Total Enrolled Land		137.9	145.2		
Total Significant & Sensitive + Steep Slope Overlay				58.4	61.5
Excluded Acres			4		-
Grand List Acres			149.2		

**Steep Slope Contribution
(Prorate Factor = 1.05)*

Sample Reserve Forestland Eligibility Chart		
Reserve Forestland Chart	Acres	Percent
Total Enrolled Land (Forestland + Agricultural Land)	145.2	
Total Significant & Sensitive	61.5	
% of Total Enrolled Comprised by Significant and Sensitive		42.4%

Management Standards

Reserve Forestland must be managed with a primary purpose of accrual and protection of old forest functions, values, and associated characteristics.

Restoration

- Water quality practices
- Invasive plants

Required acceleration of old forest characteristics

- Plantations and monocultures

Limits on salvage of fallen trees and collection of sap

Management may include active or passive management, inclusive of the range of silvicultural strategies when consistent with all other standards.



Transitioning Enrollment



When Land Isn't Eligible for Reserve Forestland:

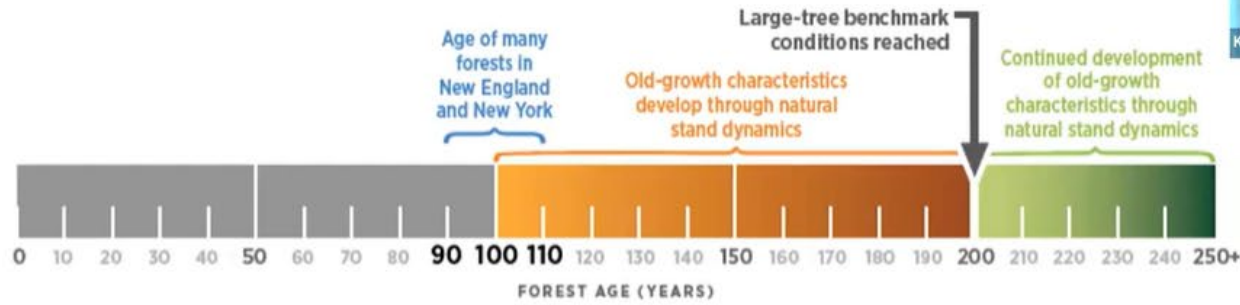
Management of land in the Productive Forestland category is compatible with management for old forest characteristics.

Implementation Process

Implementation Step	January	February	March	April	May	June	July
Application Process							
Eligibility Resources							
Outreach Materials							
Forester Trainings							
Landowner Workshops							
Stewardship Outreach							
Category Launch							

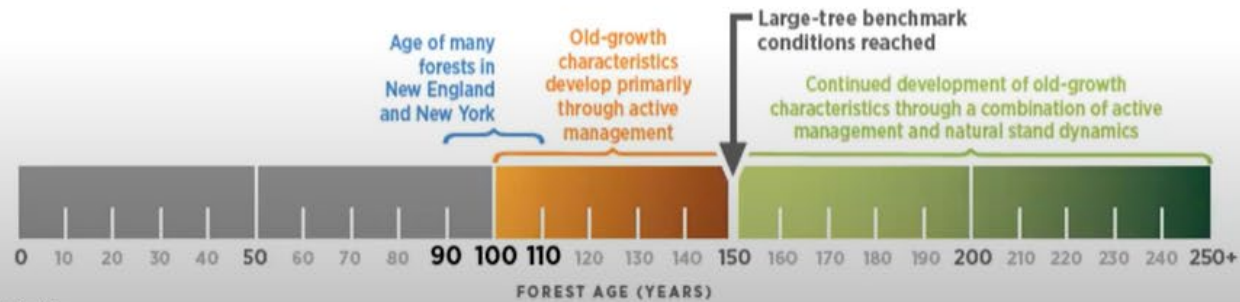


Passive Pathway to Old Forests



Adapted from Hagan and Whitman (2004)

Active Pathway to Old Forests



D'Amato, A., & Catanzaro, P. (2022) Restoring Old-Growth Characteristics to New England's and New York's Forests. The University of Vermont and UMass Amherst.



Keith Thompson

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Current Interest

ESTIMATED ELIGIBILITY

	Acres	Parcels
UVA Enrolled	532,602	2,403
Potentially Eligible: Not Enrolled	158,581	1,717
Total	691,183	4,120

ENROLLMENTS IN PROGRESS

	Acres	Parcels
UVA Enrolled	350	6
Eligible -Not Yet Enrolled	630	6
Total	980	12

Next Steps

- Integrate Reserve Standards into broader UVA manual (in progress).
- Monitor Reserve Forestland adoption during 2024 update cycle and track enrollments.
- Contribute to additional reports required by Act 146:
 - UVA valuation report due December 2024
 - Assessment of Reserve Forestland enrollment due 2026
- Continue to leverage UVA to advance the critical economic, ecological, and cultural benefits that private forestland provides to Vermont.

