

# FOREST MANAGEMENT PLAN

## FIVE-YEAR UPDATE

for the

## CHATEAUGAY NARROWS LOT

in

Town of Ellenburg, Clinton County, New York

Buck Brook Timber Co.

482 Stowe Mountain Rd

Hillsborough, NH 03244

197 acres (189 certified eligible)

Parcel ID:

155.-2-2.200

Deed (Liber/Page): 1021/87

480-a certification number: 09-001

Original certification date: 3/29/1984

Prepared by:



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## *Introduction*

This update to the approved management plan submitted in 1984 and most recently revised in 2014 is submitted to assure continued commitment under section 480-a of the New York State Real Property Tax Law.

There has been no change of ownership, acreage, stand boundaries, or management objectives from those documented in the 2014 Forest Management Plan.

A commercial timber harvest was completed in in Stands 1, 3, and 4 in 2015, having produced 254,934 MBF of sawtimber, 300 cords of firewood, and 2,301.09 tons of chips. Results of an inventory conducted in 2019 are provided for those stands in this update. Stand descriptions for untreated stands are as described in the 2014 Forest Management Plan.

## *Post-harvest Stand Inventory & Analysis*

Updated stand descriptions are presented below for areas of the forest where silvicultural treatments have been carried out since the previous Forest Management Plan was submitted. The data presented in the following pages was obtained from a thorough inventory of the property in the summer of 2019. General conditions were assessed qualitatively in conjunction with quantitative sampling. Observational notes and sample summary statistics together provide the basis for the stand descriptions and management recommendations. All sampling was done using a systematic sample and variable radius plots. In stands with uneven-aged structures, all trees 6" in diameter at breast height (dbh) and larger were measured in each plot. In stands with even-aged structures, all main-canopy trees were measured in each plot.

The property should be reassessed in 2024 and the findings brought to bear on a reassessment of the goals and strategies proposed in this plan, leading to a formal management plan update.

## *Management Schedule*

### *2020*

- No activity

### *2021*

- No activity

### *2022*

- No activity

### *2023*

- No activity

### *2024*

- Management plan update; Boundary line maintenance

### *2025*

- No activity

### *2026*

- No activity

### *2027*

- No activity

### *2028*

- No activity

### *2029*

- Full management plan revisions; Boundary line maintenance

### *2030*

- No activity

### *2031*

- No activity

### *2032*

- No activity

### *2033*

- No activity

### *2034*

- Management plan update; Boundary line maintenance

## Stand 1

Northern hardwood 62.00 acres

### Data summary

- **Site Class:** II (determined from soil mapping and field assessment)
- **Age Class Structure:** Uneven-aged
- **Species (% stocking):** soft maple (35%), black cherry (16%), hard maple (16%), beech (11%), fir (10%), yellow birch (5%), spruce (3%), aspen (2%), hemlock (1%)
- **Volume/ac:** 0.2 MBF veneer, 2.8 MBF sawtimber, 0.9 MBF tie logs, 8.4 cds pulp
- **Size class structure (%BA):** 6-10": 39% | 11-16": 47% | 17-22": 15% | 23+": 0%

### Inventory information

- 12 points, 10 BAF,

Table 1: Measures of stocking for all live trees (total) and acceptable growing stock.

	Total	Acceptable
Basal area (sqft/ac)	102	85
QSD (in)	9	9
Stems/ac	214	176

## Diameter distributions for common species

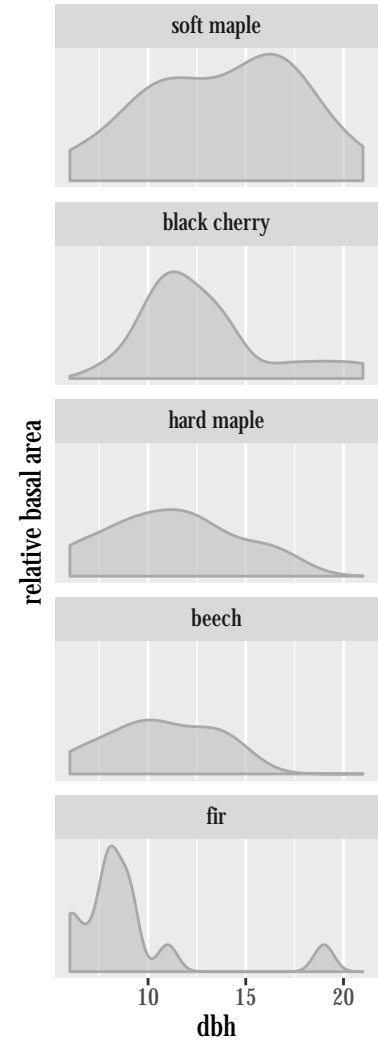


Figure 1: Distributions are approximated with kernel density estimation. Common species are those that account for at least 8 percent of the total stocking and areas under each curve represent species basal areas.

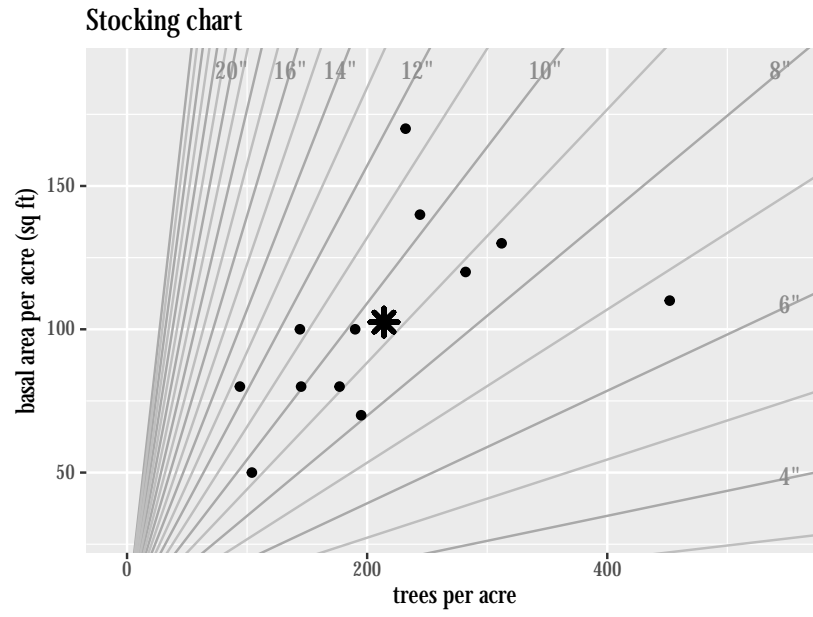


Figure 2: Points represent individual plots. Asterisk represents stand average. Radial lines are quadratic stand diameters.

### Stand 3

Northern hardwood 95.00 acres

#### Data summary

- **Site Class:** II (determined from soil mapping and field assessment)
- **Age Class Structure:** Uneven-aged
- **Species (% stocking):** hard maple (36%), soft maple (18%), fir (16%), yellow birch (12%), beech (5%), black cherry (5%), paper birch (2%), ash (2%), spruce (2%), elm (1%)
- **Volume/ac:** 0.4 MBF veneer, 2.6 MBF sawtimber, 1 MBF tie logs, 4.8 cds pulp
- **Size class structure (%BA):** 6-10": 41% | 11-16": 42% | 17-22": 17% | 23+": 0%

#### Inventory information

- 21 points, 10 BAF,

Table 2: Measures of stocking for all live trees (total) and acceptable growing stock.

	Total	Acceptable
Basal area (sqft/ac)	94	83
QSD (in)	8	8
Stems/ac	284	249

#### Diameter distributions for common species

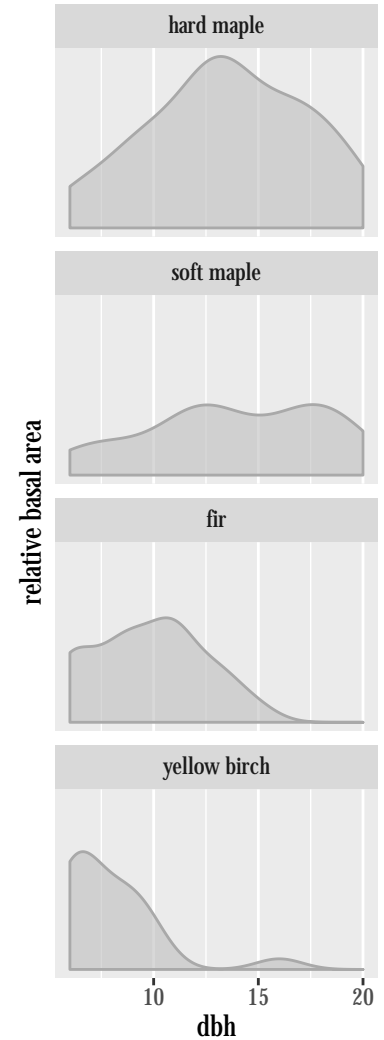


Figure 3: Distributions are approximated with kernel density estimation. Common species are those that account for at least 8 percent of the total stocking and areas under each curve represent species basal areas.

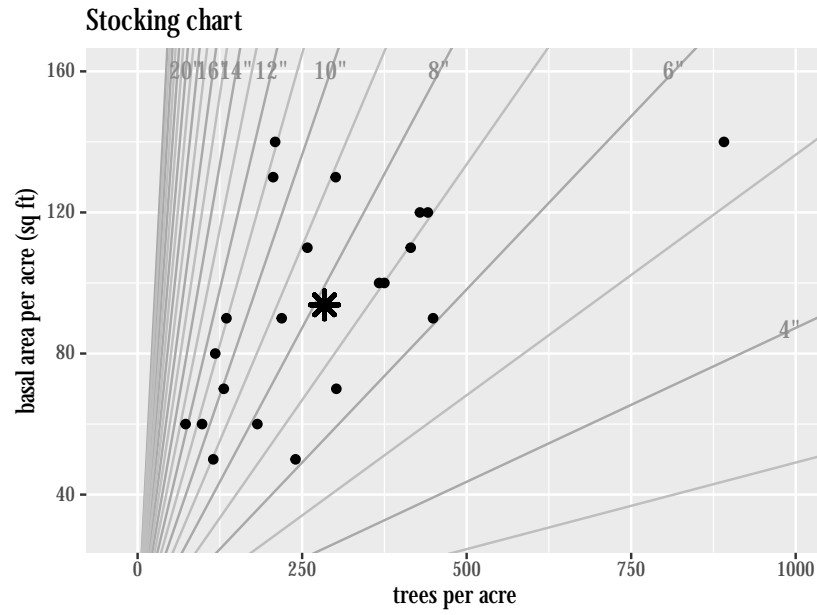


Figure 4: Points represent individual plots. Asterisk represents stand average. Radial lines are quadratic stand diameters.

## Stand 4

Spruce-fir 19.00 acres

### Data summary

- **Site Class:** II (determined from soil mapping and field assessment)
- **Age Class Structure:** Uneven-aged
- **Species (% stocking):** fir (43%), soft maple (23%), hard maple (17%), black cherry (6%), yellow birch (6%), paper birch (3%), spruce (3%)
- **Volume/ac:** 0.1 MBF veneer, 3.3 MBF sawtimber, 1.3 MBF tie logs, 4.2 cds pulp
- **Size class structure (%BA):** 6-10": 43% | 11-16": 46% | 17-22": 11% | 23+": 0%

### Inventory information

- 4 points, 10 BAF,

Table 3: Measures of stocking for all live trees (total) and acceptable growing stock.

	Total	Acceptable
Basal area (sqft/ac)	102	90
QSD (in)	8	8
Stems/ac	312	291

### Diameter distributions for common species

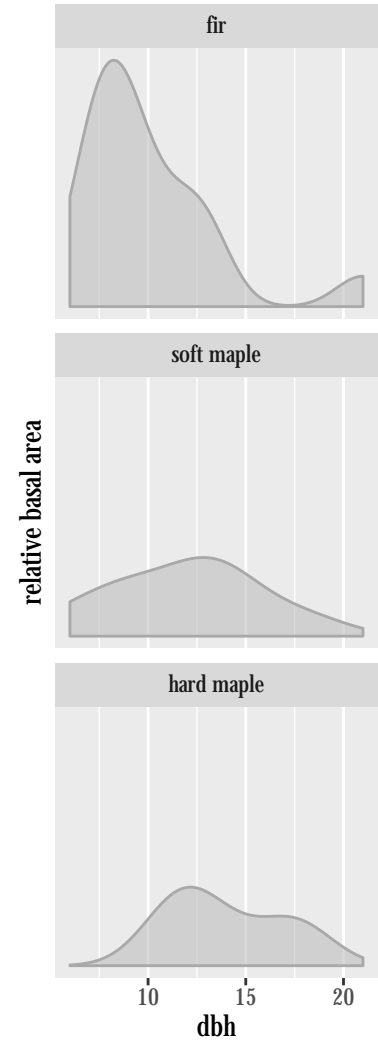


Figure 5: Distributions are approximated with kernel density estimation. Common species are those that account for at least 8 percent of the total stocking and areas under each curve represent species basal areas.

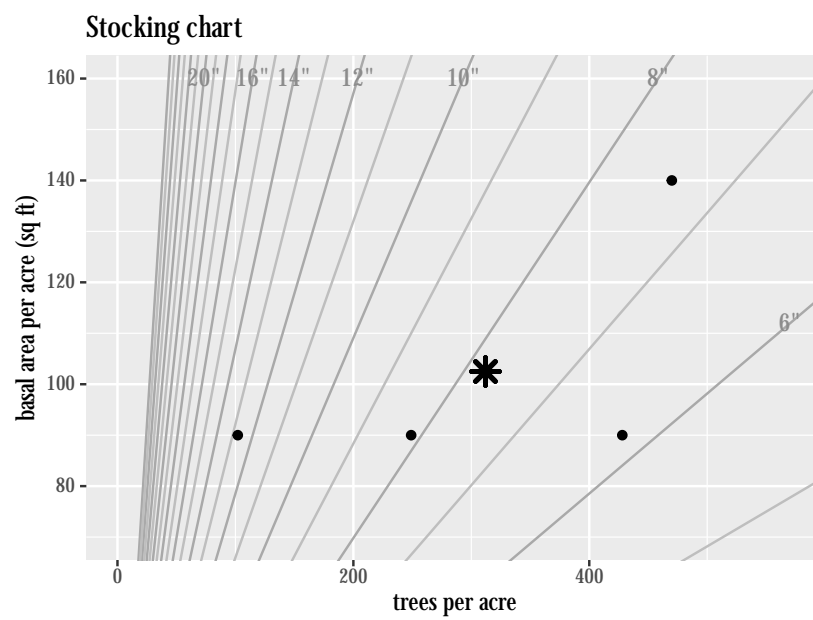


Figure 6: Points represent individual plots. Asterisk represents stand average. Radial lines are quadratic stand diameters.