

6  
22  
19

# Rider Hollow Hemlock Grove Straddling Fairbairn + O'dell Farms

204-26

File also in HDM file

with Sally, Miller + Griffin Fairbairn; Rune, Simon + Gunnar Stegemoller.

Sepp. 204-24 + 25 for possible logging dates uphill on O'dell Farm.

Tree #1. Girdled, then broken 4 ft up + fallen into the hillside. Full diameter 21", full radius 10.5". Ring count outer wood, bark to heart rot missing wood. 125 years in 6" of radius.

$$\frac{6''}{10.5''} = \frac{125y}{?y} = \boxed{219 \text{ years}}$$

Probably younger if early growth rate were faster.

Add about 8 years for each 4 feet.

Tree #2. Stump maybe 25 y old. 1' high. 16" diameter.  $\boxed{100 \text{ years}}$

Tree #3. Stump 4 ft high, 26" diameter, 13" radius full. 85 years in 7" of radius, the remainder most overgrown

$$\frac{7''}{13''} = \frac{85y}{?y} \quad \boxed{158 \text{ years}}$$

Tree #4. Core removed from 35" dbh hemlock on Fairbairn Farm. The other 3 hemlocks were on O'dell Farm. Core

$$\frac{10''}{17.5'' \text{ radius}} = \frac{107y}{?y} \quad \text{median growth rate}$$

Initial fast growth rate at 6 rings/inch.

Add  $6y \times 7.5''$  to the 107 years:  $\boxed{152 \text{ years}}$

$\boxed{187 \text{ years}}$

Recent slow growth rate at 18 rings/inch

Add  $18y \times 7.5''$  to the 107 years:  $\boxed{242 \text{ years}}$

← most likely

Tree #5. Not cored. Further S along old road toward Fairbairn farmhouse - 37.2" dbh.

Black birches of  $\pm 13''$  dbh are estimated to be about 120 years old, suggesting a logging about 1899. Probably later. Only 2 black birches with known age & diameter on the black birch graph.  $\therefore$  not an accurate estimate. More black birch data needed. Look up silviculture book references.

Tanners were in Rider Hollow most likely in the 1850s & 1860s (Margaretville & Cornville). Therefore hemlocks > 150y today would have been too small to be marketable during the tanning era.

Grove has always been forested, never partied, although there were multiple loggings likely.

Hemlock grove is all-aged, re. of all different ages.

1850s & 1860s Tanners  
ca. 1900 establishing the black birch  
ca. 1985 extant stumps

A number of hemlocks were girdled but not harvested on O'dell lands. Oak stumps higher up on O'dell lands MK estimate 30y old on 11/4/17 (pp. 204-24 & 25). Small BB sapling thickets in canopy gaps.

Ground Cover:

S INTERMEDIA  
DP  
ONIZO  
OX  
MEDEOLA

LICO ANNOT  
+ OBS,  
NO LL.

In seep:

LAP  
1 small patch  
ADIANTHUM

