

# Barkaboom Mtn. from W to E 441-19

With Alan Viat & Ralph Ryndak

May 30, 2009

Site	P	$\Delta p$	$\Delta e$	e calc	e map	time	R	
(A) Arena: Pepectan Res.	29-90	—	—	<span style="border: 1px solid purple; border-radius: 50%; padding: 2px;"><math>R_1 = 0.921</math></span>	1300'		$R_1 = \frac{3100' - 2280'}{2880' - 2991'} = \frac{820'}{0.89'} = 0.921$	
(C) Barkaboom Rd.	28-80	0.00	0		2280'	10:15 AM		
(D) till "barrow" pit	28-76	0.04	37	2317				
(E) 1st terrace	28-70	0.10	92	2372				
(F) Oak dominant	28-48	0.32	295	2575				
(G) Flat on narrow "nose"	28-25	0.55	507	2787				
(H) SORBUS-MM ledge	28-16	0.64	589	2869	<span style="border: 1px solid purple; border-radius: 50%; padding: 2px;">ep #81</span>	11:21		
(I) NW Summit	28-07	0.73	672	2952	3000'	11:35 lunch		
(J) 1st col	28-13	0.67	617	2897	2920'	12:45		
(K) Middle Summit	28-02	0.78	718	2998	3040'	1:15		
(L) JUG-MILIAM flat	28-07	0.73	672	2952	—			
(M) 2nd col	28-12	0.68	626	2906	2960'	1:45		
(N) 1st <u>WV</u>	28-02	0.78	718	2998	—	2:00		
(O) 2nd <u>WV</u>	27-99	0.81	746	3026	—	2:20 to 2:35		
(P) largest <u>WV</u> shrubs	27-97	0.83	764	3044	—	2:20		
(Q) SE Summit	27-91	$\frac{0.89}{0.58}$	820	<span style="border: 1px solid purple; border-radius: 50%; padding: 2px;"><math>R_2 = 1.00</math></span>	3100'	3:00 + 3:44		$R_2 = \frac{3100' - 2520'}{2849' - 2991'} = \frac{580'}{0.58'} = 1.00$
(R) blaze	27-98	0.51	510	3030	—	3:10 to 3:22		
(RR) small fen, N shoulder	27-96	0.53	530	3050	—			
(S) JUG terrace	—	—	—	—	—			
(T) Top high ledge	28-16	0.33	330	2850	—			
(U) Bottom high ledge: steep	28-22	0.27	270	2790	—			
(V) ASH + OST	28-40	0.09	90	2610	—			
(W) on old road	28-48	0.01	10	2530	—			
(B) Cross Mtn Road	28-49	0.00	—	2520	2520'	4:45 PM		
(B) Cross Mtn Road, 9:35 AM	28-54	—	—	—	2520'	9:35 AM		
(X) Balsam Poplar	29-20	-0.29	290	2230	—			

# Tree Ages p.441-20

1° or 20°? 441-20

Tree #25

- (F) 28" oak = 125y full cant on a trunk break at eye level. (Approx. year of break not noted)
- (I) 18" BC growing 2 to 3mm/y radially over a small portion of trunk. This is equivalent to 10 to 12 rings / inch.  
 $9'' \text{ radius} \times \frac{10 \text{ rings}}{\text{inch}} = 90 \text{ y.}$   
 $9'' \text{ radius} \times 12 / \text{inch} = 108 \text{ y}$

● (I to J) SUB broken stump 19" dbh = 125y. Near full cant. Tree #36

● (J to K) PB 20" dbh with radial growth 1.5 to 2mm/y. Use 1.75mm  
 Estimated age:  $10'' \text{ radius} = 254 \text{ mm}$   
 $14 \text{ rings / inch} = 145 \text{ y.}$

● 23" BC at 2mm/y on arbor sapwood only.  $11.5'' \text{ radius} = 292 \text{ mm}$   
 est. 146y.

● (K) BC 14" tree growing on arbor sapwood only.  
 Radius = 7" = 178mm = est. 178y

● (L) 30" BC below (L). 1mm/y from fallen 8" branch, broken off 20(?) up.  
 $4'' \text{ radius} = 102 \text{ mm} =$   
 + 30y to reach 20' = 132y

● (N) YB broken 20" trunk. 130y full cant. Tree #10

↓ branch rather recorded, but no graph plot

The lack of numerous large dbh trees should not detract from 1°. DBR, MOR, B'kill Range create all 1° tall have trees maturing at 12" to 20". See field notes.

There are bigger trees on Barkab...  
 BC: 32" (F), 32" (G), 24" (C), 23" (J)  
 SUB: 22" (L), 24" (I), 30" (L)  
 YB: 20" (N), (J to K) 20", maybe some 24" or more, but not in any abundance.

Look at BTL tree sizes in 1987, p.441!

● 18" BC (B to C). 70y = 4" arbor Tree radius. Full age estimate: #15 inner 5" radius + 4" radius cant = 88y projected + 70y = 158y

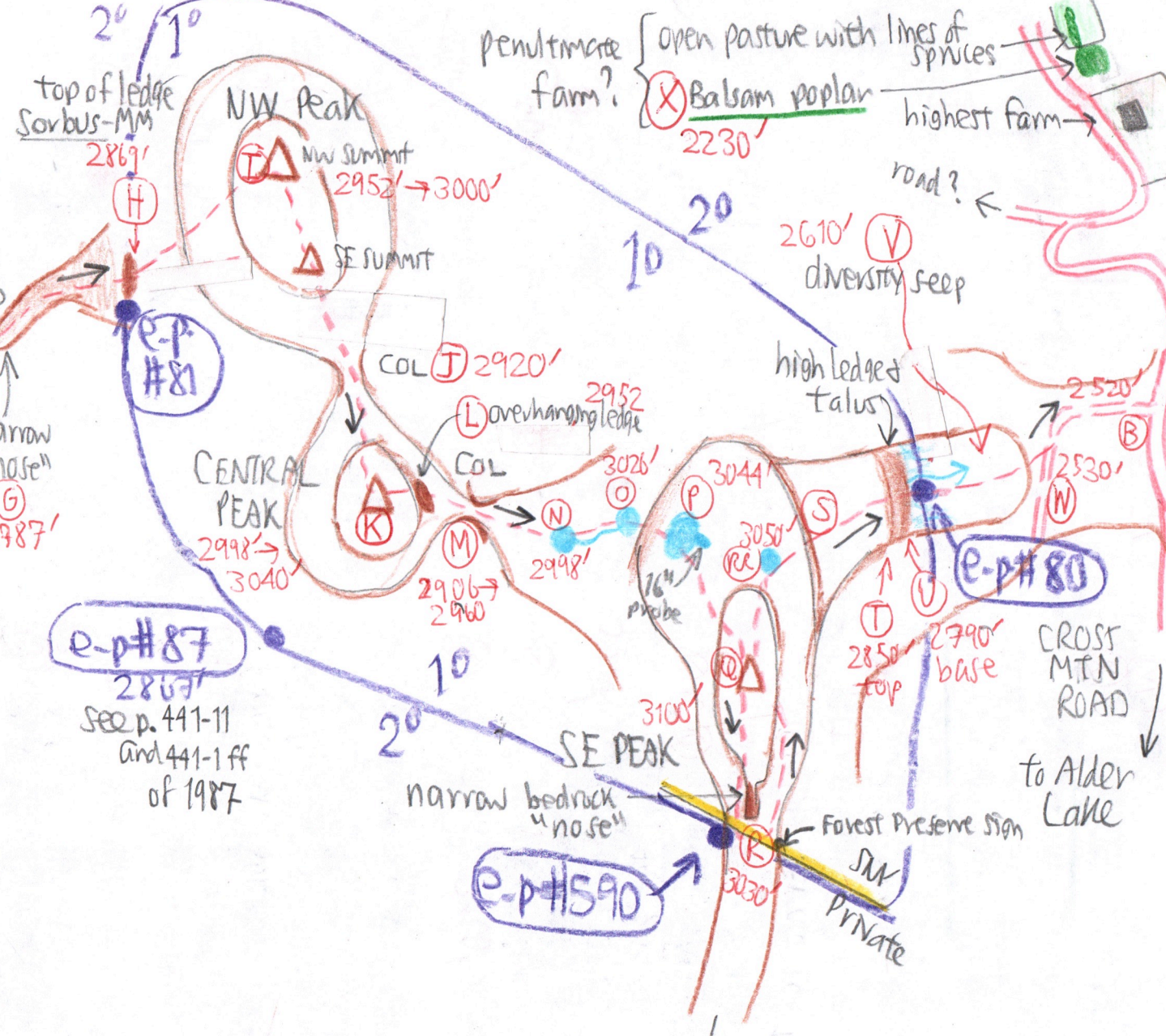
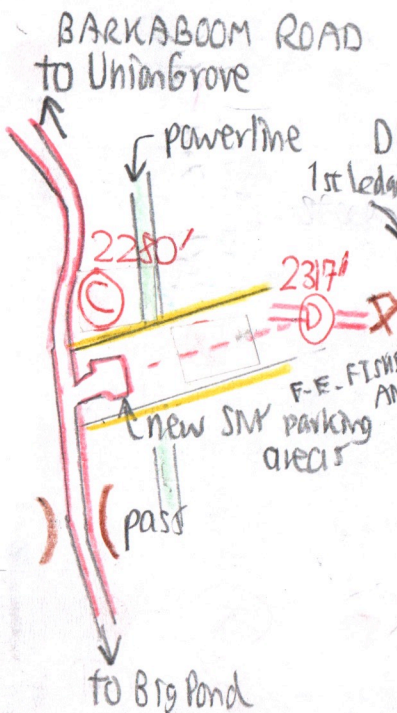
Mean age from <sup>9</sup> estimated cants:

- 90 y
- 125
- 125
- 130
- 132
- 145
- 146
- 158
- 178 y
- 
- Σ 1229

137y This would suggest the mean year for estab of these trees is 2009 - 137 = 1872.

Because of the variation in age, no one event, eg. a storm, initiated these trees.

441-2



e-p#87  
2867'  
See p. 441-11  
and 441-1 ff  
of 1987

e-p#1590

e-p#80

Mill Brook (brook) is on ledge for quite a distance at base of Cross Mtn Rd

- (A) Arena SMT 29-88
- (C) Barkaboom Rd + SMT 28-82

See pp

(C) BAS + CB just E of new SNY  
2280' parking area. 2280'

2317 (D) old road leading to a borrow  
pit. Barbed wire fence below  
along N boundary of SNY.

(E) DP-dominated terrace.  
2372' Orange disks on trees for a  
hunter's trail? Vib acer  
Canopy 50% to 75% leafed at.  
SUG mortal, more severe above.

(F) ● DAK dom to 30', Ilex mont.  
2575' on gentle slope at top of steep  
pitch. 32" BC.

(G) \$Cammyl. begins; abundant  
2787' on all 3 peaks & between them.  
BC dom. ASH. Another 32" BC.

(H) 4" SORBS on ledge top. MM  
2869' \$Cammyl abun. above.

(I) 3000' NW Peak. Canopy 60'.  
● BC dom to 18". Several SUB + YB +  
B copes. MO, VA, RA, OK, ERY,  
AA, \$Cammyl abun.

DP + D. smunda clayf. patches  
with RM. Also CINN.  
SE summit of NW Peak is atop  
an abrupt nearly vertical ledge,  
and of small area.

12:18  
PM

(I) to (J) mature  
SUGS with about 50%  
mortality from 2 years of  
Forest Tent Caterpillars. Young  
SUGS OK.

(J) 1 OAK past col 2920'

(J) to (K) Larger older YBs  
+ MM + Hamam. on ledge.

(K) 3040' BC dom to 55' x 14" ±. YB, RM, B.  
\$Cammyl abun + RA, CB, VA, ERY. MIDDLE SUMMIT

(L) 22" SUB at overhanging ledge.  
2952' Milium floor. 2/3 mortality in mature SUB.

(N) 2998' 1st CINN UVUL. V V. 3 1/2 to 4" to till  
SPNACNUM

(O) 3026' 2nd UV. Brook connects the two UV  
Nemo. 10" probe max. UVUL-CINN-  
SPNAB, AA, LL, ...

(O) to (P) 2nd lunch stop.

(P) Largest UV. Nemo abun. 1 Rhodo  
3044' with galls. VCASS, some heavily  
browse. SORBUS. CINN, V V, UVUL,  
YB, RM, COPTLS. Most probes 6' to 12"  
except 1-16" in a small area along a  
SE inlet. SPNACNUM

(Q) BC dom. 3100' EAST SUMMIT

(R) Forest tent caterpillars actively defoliating  
a few trees just S of blaze. Stump  
3030' bucked logs - 1980s perhaps?  
See p. 441-12 ??

(R) to (S) on return. Max BC 24". ● (R) 3050' small CINN  
fen.  
Scat SUB. \$Cammyl abun.

(S) SUB terrace to 12" only.  
10' high (T) SUBS to 24" near top of high ledge  
2850' & talus. Diverse spp below: AFF  
D. Goldiana, Mattuccia, V V, Hydroj, LAP, VC,  
DIE, Milium, ALL, IMP, EUP, CAULO, CIRCSEA  
QUAD??, TIAR, MITELLA, PA, GAL, OSMO  
CX SCAB, TRISTE, EUP Σ 22 spp. 2990'

(V) ASH + OST, ILEX MONT. 2610'

(W) OAK along old road 2530'