

Mount Pleasant South Spur

With Jonathan Levine
 Sept. 14, 2007
 (Jan)

121-6

0.931

Site	P	Ap	Δe	e _{calc}	e _{map}	t	R
(A) Oak(er) Mtn Farm	30-90	0-00	—	—	750'	11:00??	
(B) Ch. oak on ^{new clearing} terrace	30-76	0-14	130	880			
(C) 2nd terrace; Tulip	30-65	0-25	233	983			
(D) Ch. oak #2	30-53	0-37	344	1094			
(E) Lunch terrace	30-47	0-43	400	1150			
(F) On spur crest	30-22	0-68	633	1383	1420'	12:30	
(G) Knob	30-17	0-73	680	1430		12:50	
(H) begin ^{1st} Klat thicker	30-03	0-87	810	1560			
(I) Grassy area - cross blaze	29-88	1-02	950	1700		1:20	
(J) base of steepest pitch	29-68	1-22	1136	1886			
(K) Summit 2100'	29-45 29-48	1-45 1-30	1350 1350	2100 1,038	2100'	1:55 av 2:15 W	
(J) base of steepest pitch	29-70	1-08	1121	1871		2:40	
(I) "	29-88	0-90	934	1684		2:55	
(L) Nyssa grave	29-92	0-86	893	1643			
(M) base of 2nd Klat thicker	30-01	0-77	799	1549		3:09	
(N) DEP blaze on spur	30-14	0-64	664	1114			
(F) On crest on ascent	30-16	0-62	644	1394	1420	3:30	
(O) DEP corner, upper	30-23	0-55	571	1321			
(P) DEP corner, lower	30-30	0-48	498	1248			
(Q) end of Sun Mtn Rd.	30-38	0-40	415	1165			
(R) Switchback on "	30-41	0-37	384	1134			
(S) Sun Mtn Travell. Rds.	30-65	0-13	135	885		4:00	
(T) Travell & Kolb Rds.	30-67	0-11	114	864	880	4:02	
(A) Oak(er) Mtn Farm	30-78	0-00	—	—	750	4:15	

$$R_1 = \frac{2100' - 750'}{30-90' - 29-45'} = \frac{1350'}{15''} = 0.931$$

$$R_2 = \frac{2100' - 750'}{30-78' - 29-48'} = \frac{1350'}{1.30''} = 1.038$$

Vegetation

More on (F) on next page →

121-#

(U) 730' (A) 750' Oak(es) Mtn. form

Nemlocks at grave (U) with moderate woolly adelgid sparse foliage. Healthy hatcher up at (E) in understory.

One 33" SNAG dead in old field west of (U) with broken limb on ground. Limb broke off 8" d, about 2 ft from trunk (3y? add) and limb attached to trunk at 17' up (add 25y?).

50 rings on limb + 17y + 3y = 70 y old tree at 17'?

Add many decades more to reach top of tree.

(B) 880' 1 chestnut oak (a taste of things to come at (E)).

(A) Bitternut at 910'. Scattered PB & SNAG.

(5) N-red oak abundant

(C) 983' Tulip 18" 5 1/2

(D) 1094' 2nd chestnut oak. A few TB are all that's left of boreal forest.

(E) to (F)

(F) 1383, 1394 (Phoenicia Quadrant 1400)

Open chestnut oak forests; scrubby canopy only 20 to 30'. Several N-red oak. Vase ang & vase both.

AGROSTIS? COLLECTED

Leucobryum, Cladonia.

Dry, shallow-soiled & burned over.

Jay says that it looked the same in 1968 & 1978. Euhome seedling, prob from (P) below. Amel, NEM & few Ch-oak seedlings, otherwise no tree repro.

(G) 1430' Red Spruce sapling, prob from Samuel's Point. Gaultheria procumbens, the 1st of many up the spur.

7.5 1st KLAT • Ilex martiana.

(G) to (H) 1430' to 1560'. Trees taller, prob less severely burned & water-stressed, 40 to 50'.

(Nred?) OAK down 105y in 6" of radius. Total full radius 12" in a 24" dbh tree with heart rot. #3 ✓

Aster div. MO, Solid bicolor, local Gaultheria, Krivonozia paniculatum? 8 1/2

(H) 1560' Begin 1st major KLAT thicket.

(I) 1694' OAKS 1/2 defoliated, both spp. Canopy + 50' to 40' canopy.

(E) to (F) Base of Ledger at (E), also at (U) & (D): Area of nil humus with much bare soil & oak litter. Understory shifts from (B) to (S) to (NEM) locally under the oaks. In summer spots; DP, Dmarq, EUP, OST. Scattered SNAG. 2 per charcoal. (SUGS) healthy. ASH, herb Robert, Asplenium trichomanes? (fronds) Only 1 dm long.

Siltstone collected

Quarry is 5' Siltstone + till gravel at below

(F) continued: ^{92/2} Castanea 2" x 10',
RM, abundant Gaultheria,
Kamam, PB,

(P) E white pine above. 7248'

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(R) SNAG 1134'

No basal ground cover spp.
seen all day except a few TB
at (D) (and some PB trees)
+ some MC at (K)

27.3 miles to Oak(er) Mt. Farm,
54.5 round trip.
43 minutes one way.

Future visit:

- Look at map on wall of house, not barn = 1858 Ulster Co. pub by J.H. French with Taintor Dawson & Co., Philadelphia 517 → 521 Minor Street
Bring flashlight & stepladder

(I) continued. Grassy opening between KLAT thickets. Canopy 50'

(J) Canopy 50'. 2nd Tulip seedling (seed mure have blown up from far below). PBs in upper grassy area

(K) Summit 2100'.
N red oak dom to 40'
KLAT ← dom understory
Ch Oak, RM sapl, MO, 2 PB,
Gaultheria, Vacc any,
Adm EUP, Vib acer, 10hr
few Asplen, A macro m fl.
Solid bicolor, Ilex mont
R. cynos

● (2) Photo (F) Ch-oak buried faer

(3) Joan Levine, Jay's wife, is in Barzenite all the time at 657-7000 (?).

Scattered Ilex mont in bright red fruit betw (K) & (J)

(I) 1684' Oaks 1/2 defoliated, some of brch species. 50' tall.

(L) Nyssa 1643' ⁽¹¹⁾ popln-in understory, above a dozen trees averaging 4" dbh. Ilex mont.

(M) Amel "parifolia" with small lvs. few RM. 1 ewh pine 12". Open oak stand

ASCENDING

DESCENDING

Make a copy of this sheet for the file on measurements.

121-13 9/14

Reciprocal = For each 1000 ft decrease in elevation, pressure should rise $\frac{100}{92} = 1.1$ inch on the avg. When a front or storm approaches, for each 1000 ft, pressure will rise less: $\frac{100}{100} = 1.0$ inch.

Friday 9/14/07 hike up the 2100-foot south summit of Mount Pleasant

Air pressure was falling all day because of an approaching cold front and the arrival of clouds from an extra-tropical low passing by off the coast to the south. Rain did not begin until well after midnight & barely 0.1 inch through Saturday morning.

The R₂ on Mt. Pleasant descent exceeded 1; in fact it was 1.038, a elevation ^{rise}/_{Fall} 1038 feet for each 1 inch of mercury. Average is 920 feet for 1 inch of mercury.

Yes

Is this expected? A descent as fronts and/or storms approach would tend to partly negate the pressure rise because of elevation only. Pressure would be rising because of decreased elevation, but falling because of the front or storm approach.

Average is 920 ft ^{descent} for each 1.0 inch of pressure rise.

With a front or storm approaching, ^{there} is ≈ 1000 ft ^{of descent} for each 1.0 inch of pressure rise.

Conversely, ^{on other days} with pressure rising as a high moves in, the rate of pressure rise with descent should be enhanced.

7/21/08 Mount Pleasant, South Spur

121-14

p. 121-6 continued from 9/14/07. This time with Jay Levine, son Casey Levine (age 15) and neighbors Tom Russo (furniture maker) + Mark Stetler (photographer).

Purpose: To photograph the burned Chestnut Oak stand (about a dozen taken)

Ages of oaks on crest of ridge, elev. 1400':

N-red oak. 70y in 4" of 6" radius. Growing ^{eventually} 1mm/y
#4 radially Projected age: $\frac{70}{4} = \frac{?}{6} \cdot (105y)$

Most broken trees & limbs with heart rot.

Ch-oak (?) Projected age: $\frac{70}{3} = \frac{?}{4} (93y)$
70y in 3" of radius in 8" broken (trunk?) diam.?

#1* Full cant Ch-oak broken 4ft up, 12" diam. 115y to 125y
Add ± 6y to reach 4ft height ≈ 120 to 130y

Full cant 60y in 5" diam trunk (Ch-oak?)

4" branch estimate 70y (Ch-oak?)

#5 N red oak 80y at 12" diam.

#12* 125y Ch-oak 16" dbh full cant

70y red oak (what diameter?)

Jay says forest looked much the same in 1968. Note oaks are of different ages, not all regenerating at once after the last severe burn →

Shagbark

Hickory on Jay's farm, dead & standing in 2007, now cut. 28" on the stump and about 140y. About a few hundred feet S of barn & house. #1v

Flora

Ch-oak dom.

N red oak

2 White oak

RM

Vacc. ling

Vacc. vac. (abundant in fruit maturing)

Melampyrum

Gaultheria procumbens

Leucobryum

Klat

Ch oak - a few seedlings.

E white pine - ditto

Mature pines

lower down on W slope.

✿ Last severe fire which destroyed trees must have taken place about 1880.