

(222-13) Eagle Mtn. Transects Revisited 9/17/06

$R_1 = 0.926$

Site	p	Δp	Δe	e Calc	e Map	Time	R
GG AM stops	29.77						
A Seager Trailhead	29.51	0.06	—	—	1970'	9:06 AM	$\frac{3600' - 1970'}{29.51 - 29.75} = \frac{1630'}{1.76''} = 0.926$
B lean-to (Shan. Cr.)	29.00	0.51	472	2442	2450'	10:29 *	
C Long level + dip. 1°	28.70	0.81	750	2720			
D 1st of 4 rills	28.34	1.17	1083	3053	3040'	10:55	
E Jc. in Eagle - Big I. co	28.23	1.28	1185	3155	3140'	11:02	
F veg.	28.18	1.33	1232	3202			
G FIR	28.15	1.36	1259	3229			
H SUB seep #1338	28.13	1.38	1278	3248		11:20	
I Ledge top	28.10	1.41	1306	3276			
J Camptylotera	27.98	1.53	1417	3387			
K Fir	27.95	1.56	1445	3415			
L Fir repro.	27.93	1.58	1463	3433			
M big DP glade	27.91	1.60	1482	3452			
N 3500' sign	27.82	1.69	1565	3535			
O Eagle Summit, pm	27.75	1.76	1630	3600	3600'	11:42	$\frac{1630'}{29.36 - 27.91} = \frac{1630'}{1.65''} = 0.988$
" " , lv.	27.71	1.65	$R_2 = 0.988$	3600		1:45	
P #157 Transect	27.90	1.46	1442	3412			$\frac{1630'}{29.36 - 27.91} = \frac{1630'}{1.65''} = 0.988$
E #158 Transect	28.12	1.24	1225	3195			
I SUB seep ledge top	28.02	1.34	1324	3294		2:22	
H SUB seep base	28.05	1.31	1298	3264	#13		
E ar. #158 Transect	28.12	1.24	1225	3195	3140'	E Jc. 2:47 to 3:33	
F In " "	28.14	1.22	1205	3175	"		
EF dips + rills	28.24	1.12	1107	3077	3040'		
C 1° e-p. long level	28.60	0.76	751	2721			
B lean-to	28.87	0.49	484	2454	2450'	4:07	
R ford	29.02	0.34	336	2306	2290'	4:30 *	
A Seager Trailhead	29.36	0.00	—	—	1970'	5:20	
FF shallow col	28.10	1.26	1245	3214			
G Camptylotera patch	27.81						
HH 3rd nil, westest	28.27						

* Shandaken Brook required wading to get across. At least 20 minutes lost on ascent, 10 on descent.

222-14

Vegetation on ascent & descent, NOT

1 On Summit. See p. 222-16 for Summit.

Between (R) & (B) Stumps > 30y old 2290 to occur up to SNY blaze. 2450'

Logged by Furlow proba 1960s.

(B) OAK + ASH to lean to 2450'

(FF) ~~Last ASH~~ Huge LAR IMP glade
Begin B-BC-YB-DP drier

(C) Long level with dip. Last ASH
Begin 1^o. 2720'

(D) 3040' 1st Camptoloptera at 1st of 4 rills.

(EP) For Transect #157, see descent (P) →

(F) 3202' 2nd Camptoloptera + \$ int.
both. SORB seedling. Dense B-BC-
RM-MO with small DP patches
NO tree repro. problems.

(G) 3229' 1st firs = 3" & 6". Only 2
live fir left in col, (E)

(H) 3248' SUB seep # 1338 or 3264'

Both \$ spp. ALLIUM, CAP browned,
SLAT in flower, EUP, TIAR, SAMB,
MYSTRIX, CAULO, CINNA, MITCH,
OSMO, RUMEX CRISPUS. More
RA below. Kill a white coming
out of ledge, but not visible through
dense veg. Canopy 50 to 60%.

(J) 3317' Camptoloptera abundant

(K) 3415' 3rd fir.

(L) 3433' Canopy 25'. Fir repro,
but BC-B-YB dom.

(M) 3452' Large DP glades;
B less common above to summit

(O) 3600' Summit. See p. 222-16

Descent

(Q)

(P) 3412' Approx. site of Transect #157.

Looks like forest on crest of MBR + DBR.

NO fir. 2 SUB today. YB dom. BC + B

40' tall. Camptoloptera. No "pancakes"

to see soils at 3200 to 3400'; few fir to create them

(R)

Between Summit + SITE of #157 are 3

Camptoloptera glades. Highest is small &

brown. Near 2nd is a 3 3/4" fir cut to

clear the trail: 18 years.

3rd glade is 10 to 20' across, then

a fir before #157.

(FF)

3214' SM with 1 flower, ^{on a} he only -

branched inflorescence just N of shallow

col. The only SM flower observed

in Eagle, Balsam Mtn (next day, 9/18/06)

and in DBR 9/26/06.

(E)

COL 3140', so different from

Hayner Balsam col only 140' lower.

Several NEM at June-, 4" to 24"

Relocation of Transect #58. The 23" NEM

in col along trail is now 27", a 4" dbh

increase in 36y. On the transect (100'

long), the 2 big NEMs at 0' and 49' are dead.

So is the 4" fir at 15'. No ^{other} fir on transect

today, dead or alive. Much denser B

now. Two small live fir at 6'.

(EE)

3077' 2 firs.

(B) + (R)

Both IMP together spp.

'Cake with < 20% stones

222-15

Eagle Mtn. 9/17/06

- Additional times, descent
- (R) 4:30
 - (S) 4:45 } ford bypass with new
 - (T) 4:55 } slowdown
 - (U) 5:03 log road
 - (V) 5:12
 - (A) 5:20



Dry Brook
Seager trailhead
register

Dry H.
log road
Flat Iron H.
landslide
>20" live B

to Flat Iron Camp
flume
bushwhack
log road
old camp

to Dry Brook headwaters
flume
wading ford 2290' (R)

furlow spur
lean to
2450' (B)

20' 10'
dipt long flat
e-p#21
Shandyen Brook

Eagle Summit
3600'
Camm
3600' (D)

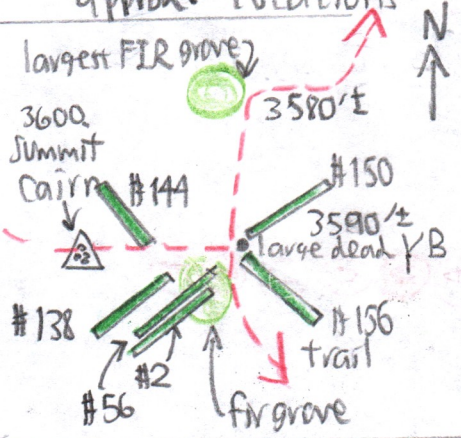
3580'
10' ledge
3535' 3500' sign
3' low ledge
3452' (M)
3433' (L)
3415' (K), 3412' (P)
3387' (J)

top 3276' or 3294'
highest ledge
3248' or 3264' (H) SUB seep# 1338
3229' (G) 3214' (FF)
3202' (F) 1st low ledge
shallow col
Knoll
descend ± 10 feet

3040' (D) hills
3077' (EE) firs
2 small live firs
JUNC 3140' (E)
COL. large hemlock
transsect #58
wetter
up
to Big Indian Mtn.

Vegetation & Fern Glades on Summit Only (222-16)

1970 & 1972 Transects approx. locations



General Conclusions.

Because the transects are so very different from each other, and ^{because} only ^{#56 and} the 2 easterly (#150 & 156) can be precisely relocated, it is very difficult to compare 1970-72 veg. with 2006 veg. One would need to AVERAGE all six transects to get a clearer picture of 1970-1972 veg, then do six more now for a best comparison.

YB is still the dominant, but there seems to be more RM & BC now.

Eagle Mtn. is a hardwood summit (YB dom, but some B, BC, RM, MO) with only scattered FIR & less SORBUS.

Most mature fir are 30' tall, with one 40'. Largest fir grove is N of summit, W of trail, at ca. 3580', and consists of saplings 12 to 20y and 3" to 8".

Local dense pockets of fir 6' to 10' high elsewhere; in other places none.

Only a few fir ^{are} blowdown, but there are many canopy gaps, dead trees & dead limbs on live trees. Mainly fir, NOT

Fir seedlings are most abund in patches in partial shade - NOT at sunny fern glades or under dense maturing fir.

RM seedlings common with the fir seedlings. Fir seedlings at fern glade edges.

Much FIR repro. forms an understory 10 to 20y under hardwoods, along with

Soils from LL, O, X, VA, CB FIR blowdown 'cakes'.

1. 8" thick root mat, 75% cobbles ±
2. 8 to 16" root mat, 40 to 75% rock
3. Mycorrhizal root spurs obvious.
4. E of trail 20" cake with more fine till in addn to boulders
5. 8" mat.

See Summer 2006 notes. Many more FIR on west shoulder.

FERNS Glades are not all-open, nor large and well-developed on Eagle Mtn. as they are on Slide, Scheffelmooset Balsam Lake Mtns, or even Balsam Mtn.

Only one Camphyl. glade when trail bends NE, N of summit, turning brown. DP is now predominant compared to 1970-1972.

RA sometimes fills gaps instead of, or in addition to, ferns.

Intermediate on NW of summit near a 22" live YB today, in shade.

Solidago macrophylla - Only several plants with only small basal lvs. No inflorescences. Browsing perhaps or an off-year for flowering?

Transects: (see p. _____).

The rock cairn is 100 faces, about 200 to 250 ft, W of trail, on the highest point.

Vegetation

Individual Transects

COL to Big Indian: (222-17)

#159 and

Summit:

#2. Not relocatable. Now more
BC & DP it seems. SORB gone.
Fir repro. now all ages.

#56. The 8" lead fir is ^{now} dead at JC.
with hard path. \$ seems less.
SM is gone.

#138. The lead dead 18" YB bent
is gone.

#144.

#150 & #156. The lead dead 16" YB
of 1972 is now a stump
with a log. YB saplings are
growing on the broken stump.
All 3 fern spp. are here!
\$ inter, \$ Cammyl & DP,
but NO NYF.

The 2 \$ spp were not differ-
entiated in 1972.

MM near to the YB stump
lead.

SE slope:

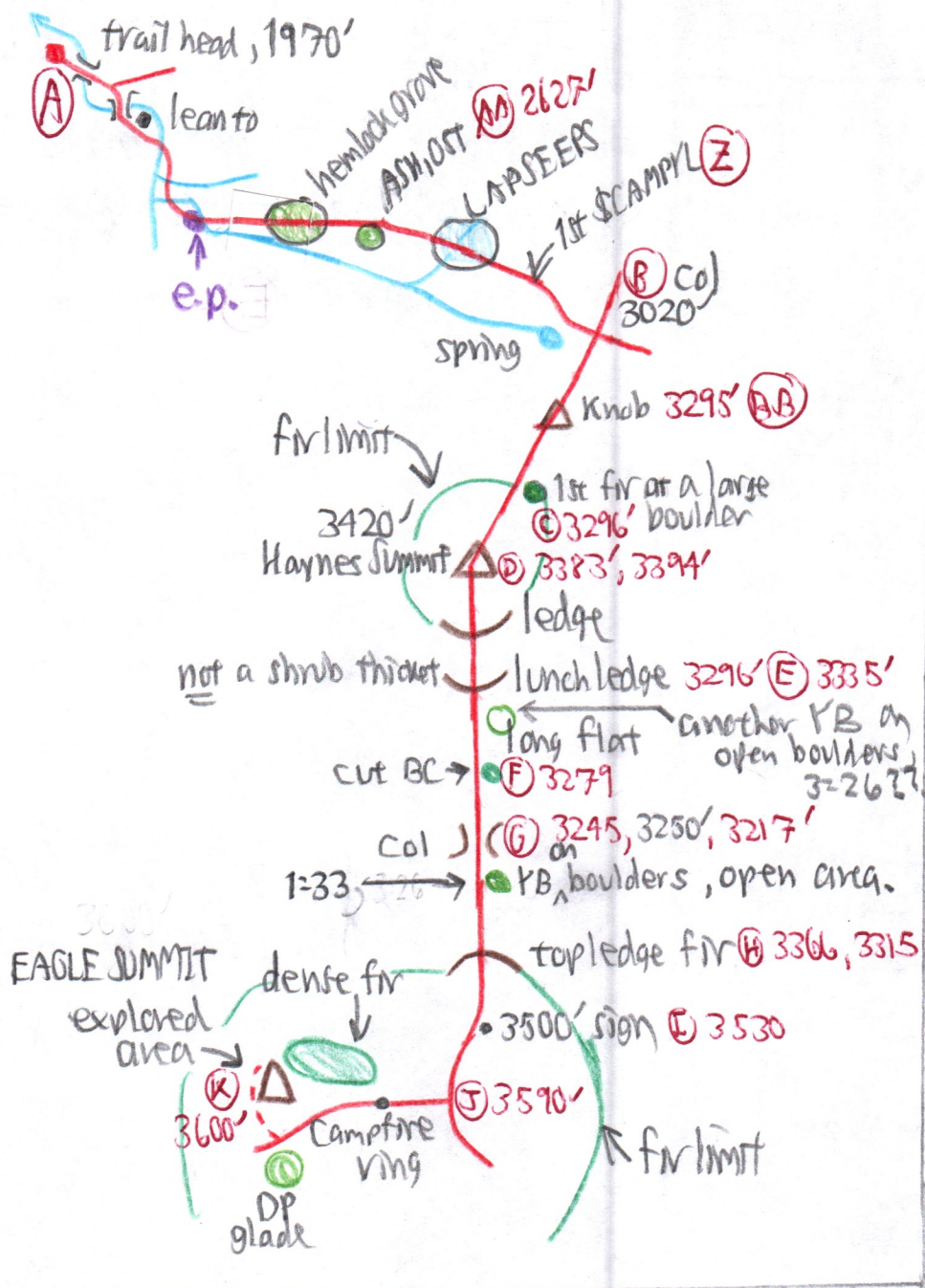
#157 at 3400' only a mmx.
relocated by barometer (see p.

222-14 (P)).

#158 at 3200' was not relocated
because barometer did not
rise enough until trail junction
was reached near #159.

#160 too far down to be relocated.

#58 - See p. 222-14 for transect
in Big Indian Col (E).



- (Z) \$CAMPYL begins just below Spring, at elev. ca. 2980 with KB-BC-B-SM. SM in ft in the Spring, too. \$INT + CAMPYL mixed, some \$CAMPYL beginning to turn purple. Full canopy.
 - (B) \$CAMPYL in col, too, with full canopy SUB, mixed with \$INT. This disproves hypothesis that \$CAMPYL begins on an ascent where the forest begins to break up with open glades
- The 2 ferns are mixed & common all the way to Eagle Summit, \$CAMPYL some beginning to turn purple.
- (E) Lunch Ledge. Bedrock at surface, but no openings except 2 small DP usual glades, one NE + one ESE. NOT a shrub thicket at all. KB dom to 25' or 30%.

- (F) The cut-to-clear BC, obs in 1995 or 1965 and estimate to have been cut ca. 1985 is still intact & evident, but moss-covered.
- (H) SOB seedlings, 1st. Is slender, waxy less-branched Thuidium abietinum?
- (I) dense fir understory, more than ever.