

# West Kill Mtn. Springs, W shoulder 6/7/04

Site	Ascent	P	Ap	Δe	e calc	emap	time	R
A	Devil's Path Trail Head	30-13	0-00	0	—	1790	8:41AM	$\frac{2390-1790'}{30.13-29.48''} = \frac{600'}{0.65''} = 0.923$
B	Stumps ca. 1970	29-78	0-35	323	2113			
C	Mink Hollow Swamp Seep #1347	29-48	0-65 0-00	600 0		2390	9:35	
D	steepens, oak litter	29-30	0-18	168	2558		<del>10:20</del>	$\frac{3420-2390'}{29.48''-28.38''} = \frac{1030'}{1.10''} = 0.936$
E	Stump	29-14	0-34	318	2708			
F	Stump	29-10	0-38	356	2746			
G	1 <sup>o</sup> entry point #1146	29-00	0-48	449	2839			
H	less steep	28-82	0-66	618	3008			
I	trail turns south	28-70	0-78	730	3120		10:10	
J	Spruce-Sphagnum patch	28-65	0-83	777	3167			
K	steep crevice ledge	28-60	0-88	824	3214			
L	trail turns east	28-44	1-04	973	3363			
M	St. Anne's Peak	28-38	1-10 0-00	1030 0	3420 —	3420	10:33	
N	down steep talus	28-56	-0-18	-159	3261		10:35	$\frac{3880'-3420'}{28.38''-27.86''} = \frac{460'}{0.52''} = 0.885$
O	COL (00)	28-62	-0-24	-212	3208	3220	10:39	
P	Vacc-opening	28-40	-0-02	-18	3402	3400	11:00	
Q	Spruce & Sphagnum	28-40	-0-02	-18	3402	3400	11:04	
R	3500' sign	28-34	0-04	35	3455		11:13	
S	SM	28-20	0-18	159	3579			
T	lower end of seep	28-14	0-24	212	3632		11:23	
U	hill crossing #1354	28-12	0-26	230	3662			
V	upper end of seep	28-06	0-32	283	3703		11:28	
W	Top steep ledge	27-97	0-41	363	3783			
X	levels	27-92	0-46	407	3827			
Y	subsummit	27-91	0-47	416	3836		11:36	
Z	West Kill Summit	27-86	0-52	460	3880	3880	11:41AM	

● Spruce-3  
groves only

to Westkill

⑥ → to Spruceston

Signboard says 4.7 miles,  
a cent 2030'

In 1975, #146 determined to  
be at 2765'. This is only  
a fire-tuning.

353-23

pinetrees

highest 2051'  
ewh pine

logged 2113' in  
recently and early 1970s.

#146

#1324

2390'

SEEP #1347

stepped  
oak litter,

Stump

Stump

20 entry point 2839'

10 trail bend level

1st Spruce-Sphagnum  
highest hemlock

3120 3067

3008

3167

3201

edge

3214

Mink  
Hollow  
Col  
Swamp  
2390'

2438

2629

ASM 2724

(see June  
2003  
notes)

breccia  
boulders

3363 high ledges

3420

SAINT  
ANNE'S  
PEAK  
3420'

3261

COL

Knob

3400

3360'

3402 Spur

3455

3450

3500 ft sign

3578

3578

3632

3662

3684

3703

3733

edge top 3783

Subsummit

3880'

to Westkill  
Falls

Summit  
Westkill  
Mtn.

3827

3836

level

3827

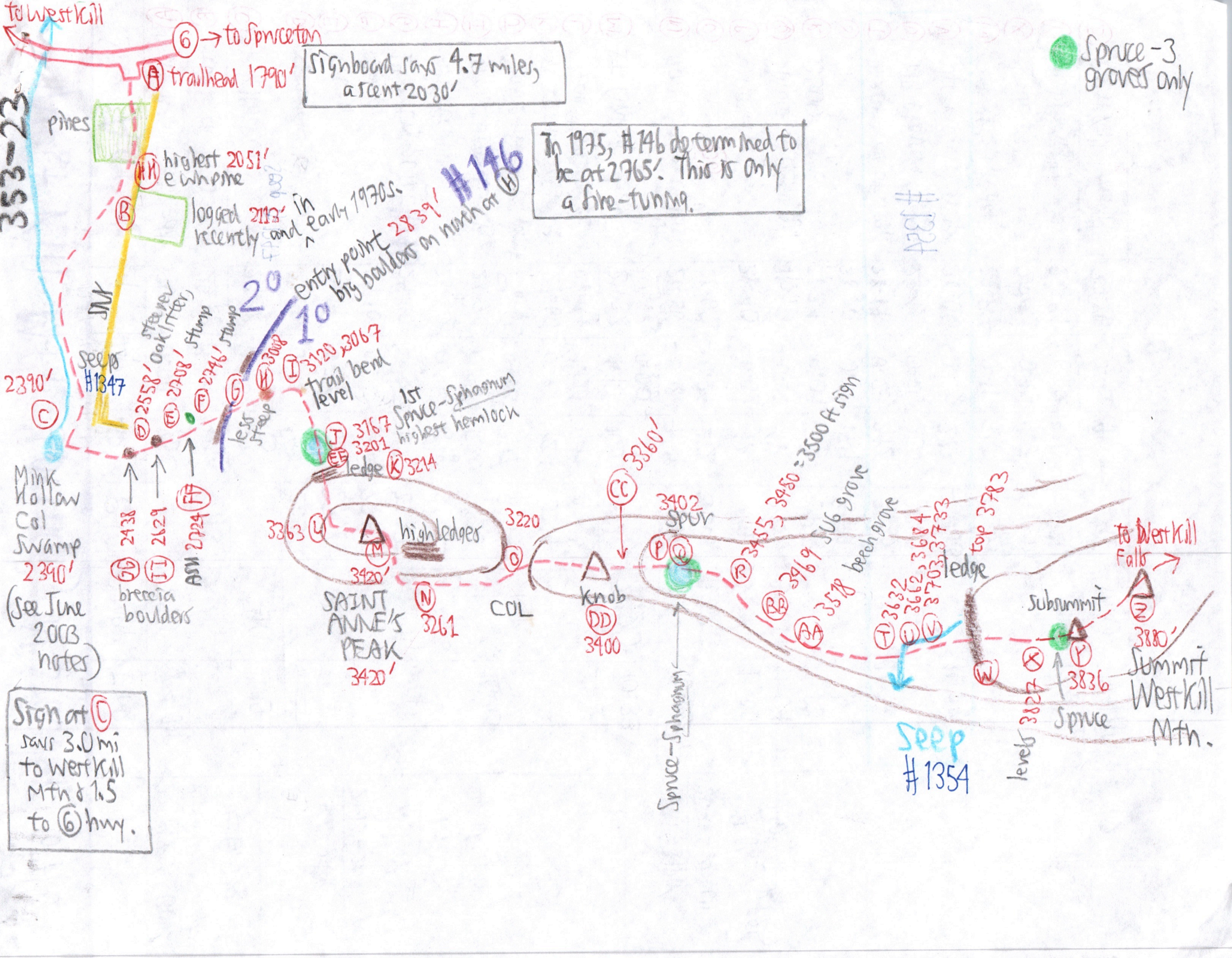
3836

level

SEEP  
#1354

Spruce-Sphagnum

Sign at ①  
says 3.0 mi  
to Westkill  
Mtn & 1.5  
to ⑥ hwy.



Site	Descent	p	Δp	Δe	e Calc	e map	time	R
⊖	West Kill Summit	27.90	0.47	460	3880	3880	12:13 lv.	
⊖	Upper end of seep	28.05	0.32	313	3733		12:30 to 12:45	
⊖	Lower end of seep	28.10	0.27	264	3684		12:55 to 1:09	
AA	beech grove	28.27	0.10	98	3518			
BB	lower sub grove	28.32	0.05	49	3469			
R	3500' sign	28.34	0.03	30	3450			
Q	Spruce-Sphagnum patch	28.38	-0.01	-10	3410	3400	1:28	
P	Vacc. opening	28.39	-0.02	-20	3400	3400	1:33	
CC	SUB col	28.46	-0.09	-88	3332	3360		
DD	Knob	28.40	-0.03	-29	3391	3400		
G	COL	28.60	-0.23	-225	3195	3220		
M	St. Anne's Peak	28.37	0.00 1.08	0 1030	0 3420	3420	2:05	
EE	highest E-hemlock	28.60	0.85	811	3201		2:23	
J	Spruce-Sphagnum patch	28.64	0.81	773	3163			
I <sup>trail</sup>	Tumswett	28.74	0.71	677	3067			
G	Entry point 1 <sup>0</sup> →2 <sup>0</sup>	29.00	0.15	429	2819		2:40	
FF	ASH	29.10	0.35	334	2724			
GG	breccia boulder II	29.20 29.40	0.25 0.05	239 48	2629 2438			
C	Mink Hollow Swamp	29.45	0.00 0.62			2390	2:55 3:17	
HH	highest e-white pine	29.90	0.27	261	2051			
A	Devil's Path Trailhead	30.07	0.00	—	—	1790	3:55 PM	
Y	Subsummit	27.91					12:20	

$$\frac{3880' - 3420'}{28.37'' - 27.90''} = \frac{460'}{0.47''} = 0.979$$

$$\frac{3420' - 2390'}{29.45'' - 28.37''} = \frac{1030'}{1.08''} = 0.954$$

$$\frac{2390' - 1790'}{30.07'' - 29.45''} = \frac{600'}{0.62''} = 0.968$$

# Seeps

353-25

Location	Elev	air temp.	water temp.	pH	dissolved oxygen at °C	Flora
Mink Hollow Swamp outlet #1347 (C)	2390'	65°F	52°F	4.9	10.04 at 10.2°C	SUG-YB-MO, CALO, ARN, IMP, LAP, TIAR, HYDRO (See 2003 list) VC,
lower end of seep, rill crosses trail #1354 (U) flaming scorch	3662' to 3684'	—	48°F	4.8	10.07 at 8.4°C	ATHELYP. See details below
Upper end of seep #1354 (V)	3703' to 3733'	60°F	44°F	4.9	11.84 at 5.5°C mg/L	

## Flora of seep (U) (V)

Corylus defoliata

CNC

VA

R lac

R triste

YB

Several SUGS to 15' x 35' at (U)

MM abun.

RS

Geum rivale at (U)!

Taraxacum!

Lap

Tiar

Viola serotina → evoluta

Pren

Thalic

Hevacleum

Angelica

Chrysosplenium

Ranunc abortifolius large

Singora

Rubus pubescens

Chelone

Aster macro

Smilacina

pa alodes?

VV

CX intu

Ery at (U)

AFF

TE at (U)

Onoclea between (U) (V) on S

Bryos coll.  
Which?

Whole seep follows a rill flowing at a moderate grade down.

Audible, not visible from trail at (V)

Seep emerges from the base of the high ledge (W) + is quite open to the sun

## Surrounding flora on well-drained soils

FIR

JORB

YB

(PB nearby)

Dicentra at (U)

Red silt on trail from red shale.

Seep at base of 20' ledge.

Black flies intense at (U) but few elsewhere.

# Spruce

Only 3 groves:

(J) Saplings to 8" (EE)

(Q) 30"

(X) below (Y) several 12" just below subsummit

(X) 16"

(EE)

# Fir

(I) 1st

(EE)

(J)

(M)

(AA) scattered

(P) dominant

(Q)

(W) dominant

(T)

(Z)

# Sorbus

(K) 1st

(M)

(P)

(AA)

(EE)

(Z)

# PB

353-26

1st between (O) + (DD)

(P)

(Z)

# VACC MYRT

(not any) at (O)

# SUG

(X) (I)

Missing at (P) + (Q) but reappears by (R) + (U) + (V) + (W) + (X) + (Y) + (Z)

(N)

# SUG

(G) 24" marks 1<sup>st</sup> entry pt. 1st large with 33" YB and 30" HEM.

(BB)

(CC) No conifers. Ground cover basal: (CB) - (OX)

# ASH

(F)

(B)

# HEM

(G) large 30" on ledge, marking 1<sup>st</sup> entry point.

(J)

(X) (EE) highest 3201'

# OAK

A few lvs in litter; tree not obs (D)

# SM *Solidago macrophylla*

(S)

(CC)

(O)

(W)

# Beech

dom at (AA)

(CC) abun.

(I) dom

# OST

(F)

# BC

(CC)

# West Kill Mtn. Summit Flora

② Fir dominant—  
3880' no spruce  
SQRB, PB, few YB  
VA, RG  
OX, TB  
CAMPYL,  
MC, CB  
black poll warbler

Canopy  
25' to 30'

air temperature 63°F  
Coptis & AA on  
subsummit

# Saint Anne's Peak Summit Flora

① SUB  
③ BC YB  
④ RM Scot. FIR  
⑤ B SQRB  
MO  
CAMPYL, DP  
SM, CB  
Cx burns on  
dry ledge on  
trail, N shoulder

Looks like Haynes  
Mtn. or Big  
Indian with  
few fir. I X  
Ravens calling.

# Other ground cover & trees

- ① Vacc myrt, Amel, \$ Campyl,  
CC in flower. YB, AMBL.  
Fir dom, 25' tall.
- ② Spruce grove. DBH 12" <sup>to 22"</sup> with one  
dead snag 30". Boreal carpet  
with CC abun in fl.  
Sphagnum patch leads to an  
outlet seep across the trail. VCASS.  
3" to 6" deep to till in peat.
- ③ Solidago macrophylla
- ④ to ⑤ Red silty till on trail  
ended at springs  
CC at J & L. R
- ⑥ Beech dominant, with Scot fir,  
YB, BC, \$ Campyl glades.

## Canopy heights.

- ① 25' Fir.
- ② 45' SUB-B-BC

③ SUB Col without  
any conifers. B, BC.

Ground cover boreal with CB, OX, Street rus, SM, LL,  
VA, MC, \$ campyl. Col at ③ looks like western

SUB-LAP seeps abun.  
④ & below ③ alt with  
HEM groves  
⑤ More YB

④ to ⑤ Alternating groves of B-BC-SUB and scrub oaks  
with spruce, fir & SORBUS

⑥ SUB-B dom. ⑦ SUB-BC with 1st firs.

Forest history. ⑧ Stump about 50' off & below trail on N indicates  
logging in early 1970s before SNY acquisition and trail construction.

- ⑨ 2nd stump, this one along trail, S side
- ⑩ 30" HEM on ledge + 24" SUB indicate 10. Stumps scarce  
33" YB at ⑪

Catskills  
without  
conifers  
incl some  
SUB & IM.