

# BALSAM MTN. SPRINGS & SOILS 6/18/01

BALSAM-HAYNES COL #1324; #1325 SENECCIO SPRINGS 210-21

#1324 Haynes-Balsam Col	#	#1325 Senecio Springs
3020'	Elev	about 15' above 3500' sign: Check MK calcs for accuracy
[air 54°F] 42°F [air 58°F] 48°F	Temperature spring itself downstream	44°F [air 56°F] 54°F [air 58°F]
4.8 5.1	pH high scale spring itself downstream	5.5 5.4
SUG-PB dom MO	TREES	SUG dom [FIR just above] PB, B, MO, BC
SAMB, MM, VA	SHRUBS	CHC, MM, CORNUS ALT, SAMB, RUE
IMP, LAP dom, HYDRO, CHRYSO, OSMO, VC, TIAR, RABORT, OX on edge, RS	HERBS	PCILI IMP dom, HYDRO, THALIC, OSMO, TIAR, LAP, RABORT, RHISP, CHRYSO, EUP SENECCIO in flower, SOLID RUG, SM, OX, CHELONE, MONARDA ????
MILIUM	MONOCOTS	MILIUM + OX SCABROTA <u>COLL.</u> BRACHYELYTRUM - no fir yet VIV dom, TE
SCAMPYL	FERNS	DGOLDIANA downstream, \$

MAP DETAIL, OVER →

#1326 brook downstream from #1324, along  
Maple Dale Trail upper ford [Roder Hollow Stream] elev. 2380'

pH 5.0

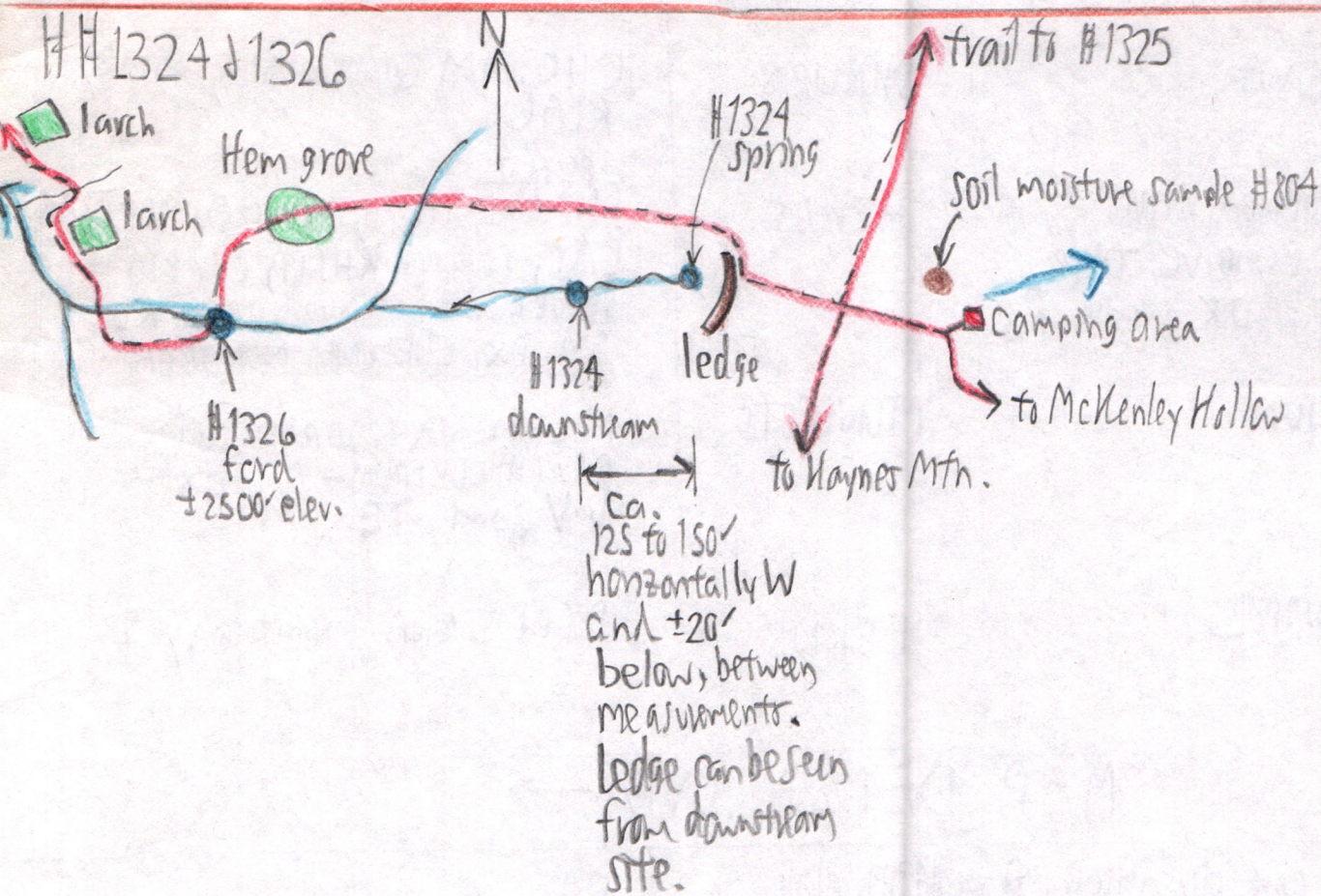
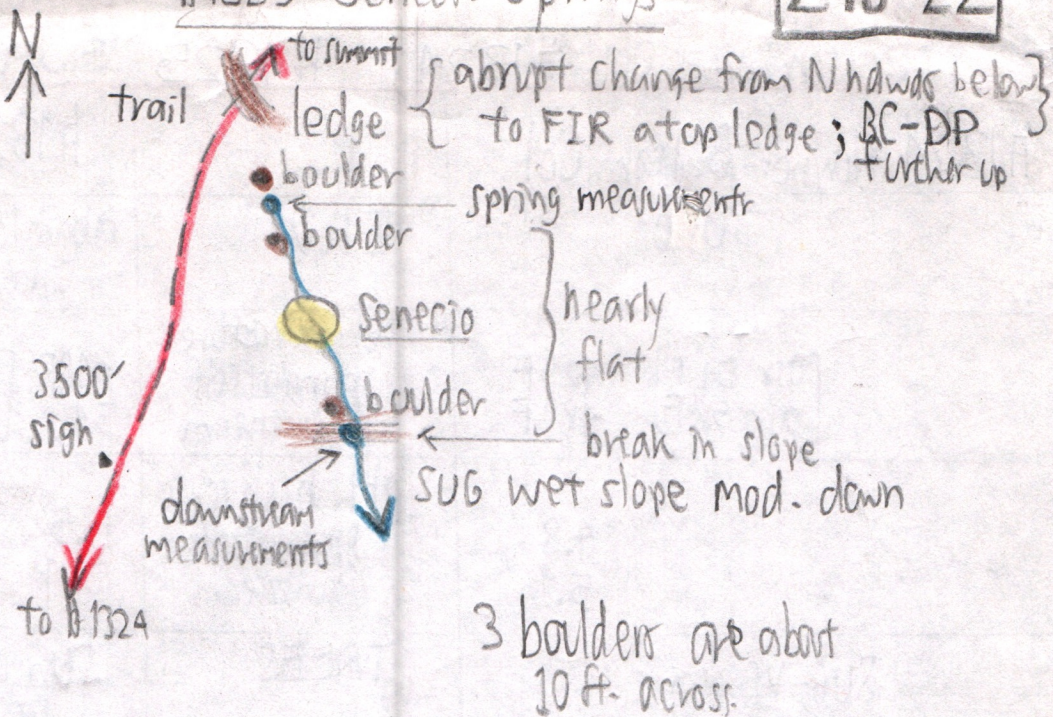
Temp. 49°F

# Timetable

Trail head	9:00	2:00
#1326	—	1:26
#1324 col	9:52	1:03Lv
#1325	10:29	11:03
Summit of Balsam Mtn (lunch break)	11:13	11:39

# #1325 Senecio Springs





210-22



# BALSAM MTN. SOIL WATER RETENTION

210-23

SAMPLES, ## 801 → 804 [tentative ##] 6/18/01

Sample # (tentative)	Location (see map over)	Twistern Color code in 2 bags	Soil weights including bags & twisterns on Wray's postage balance (to 0.1 ounce = 2.834 <sup>gm</sup> Only).		% Water loss
			Wet 6/18/01 wt.	Dry * (wt.) 6/24/01	
#801	FIR-YB on Balsam Summit, elev. 3600'	yellow 	11.4 oz. = 323 gm	8.2 oz = 232 gm	28.2%
#802	BC in DP glade elev. 3560'	blue 	11.4 oz = 323 gm	5.7 oz = 162 gm	49.8%
#803	Jeneido Springs SUB dom, wet elev. 3515'	green 	11.1 oz = 315 gm	7.1 oz = 201 gm	36.2%
#804	Col to Haynes Mtn. SUB dom, moist elev. 3000'	white 	13.3 oz = 377 gm	10.8 oz = 306 gm	18.8%

One would expect the following:

#803 wettest  
#804 ↓  
#802 ↓  
#801 driest

but this is the actual ranking:

#802 wettest  
#803 ↓  
#801 ↓  
#804 driest

express as:  $\frac{\text{Water weight}}{\text{Water weight} + \text{dry soil weight}}$

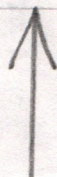
e.g. #801:  $\frac{323 - 232}{323} = \frac{91}{323} = 28.2\%$

The higher the % the more water the soil held. The lower %, the drier was the soil.

Try again next year about a week after the last soaking rain & take A.M. and gravel out!!

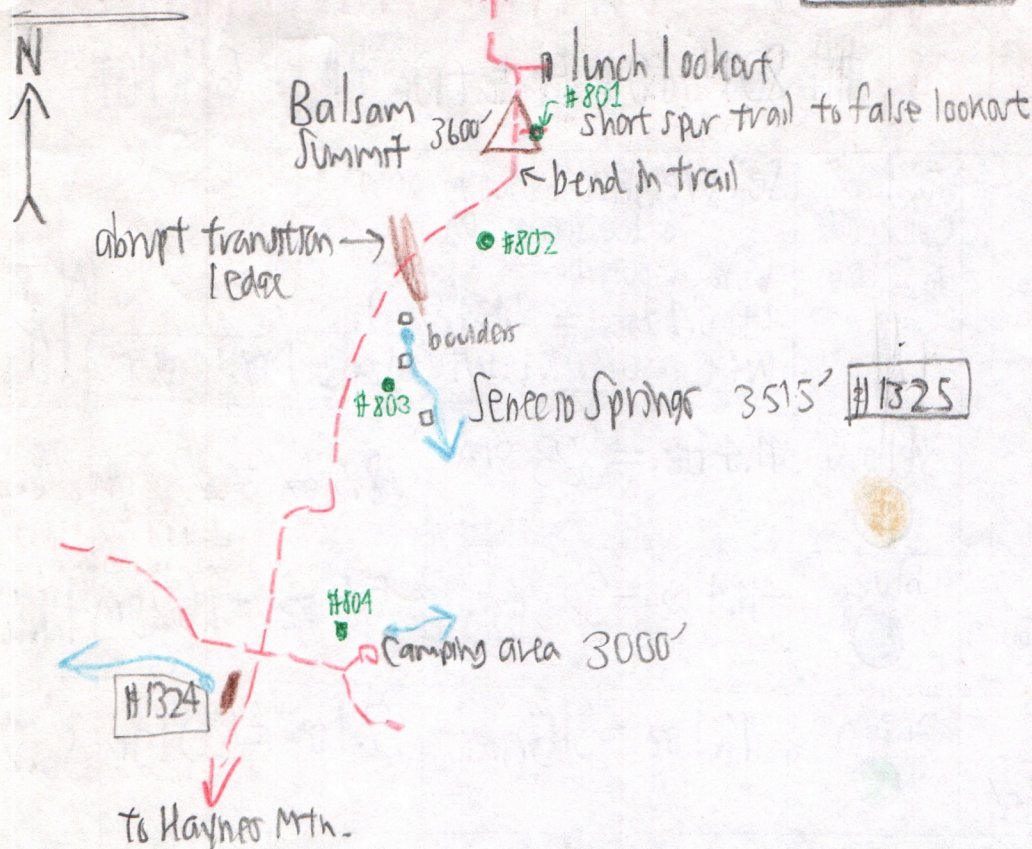
1 lb = 453.5 gm = 16 oz  
453.5 / 16 gm = 28.34 = 1 oz

\* Dried in hot, sunny station wagon 2 days



# MAP

210-24



#801 & #802 <sup>are</sup> very difficult to find pits which can reach 5" or 6" without attaining a channel. Over a dozen probes were done 1st, each attaining a channel at 1 to 4 inches and thus no mineral horizons A or B.

#803 is in red silty till.

#804 is about 7 or 8 ft. above & NW of camping area.

## Vegetation

#801 FIR-YB-SORB-  
OX-AA-AN-MC-CB

#802 BC-DP  
SCAMPYL, a few VV, OX, } Photo in Oct. 1990  
MC, AA, LL } taken near here, # \_\_\_\_.

#803 SUG-VV (see #1325)

#804 sub dom YB, MO, SAMB  
SCAMPYL, RA, AM, OX, VA,  
TE, PCILZ. Beech just to N on slope.

Rain: heavy rain (1.2" in Margaretville & Lexington) from Sat eve 6/16 to dawn Sunday 6/17.

No rain on Sunday 6/17 or Mon. 6/18. Woods still wet after ± 30 hours of drying. This may affect moisture retention because all 4 soils were recently saturated. Try again after a long dry spell.