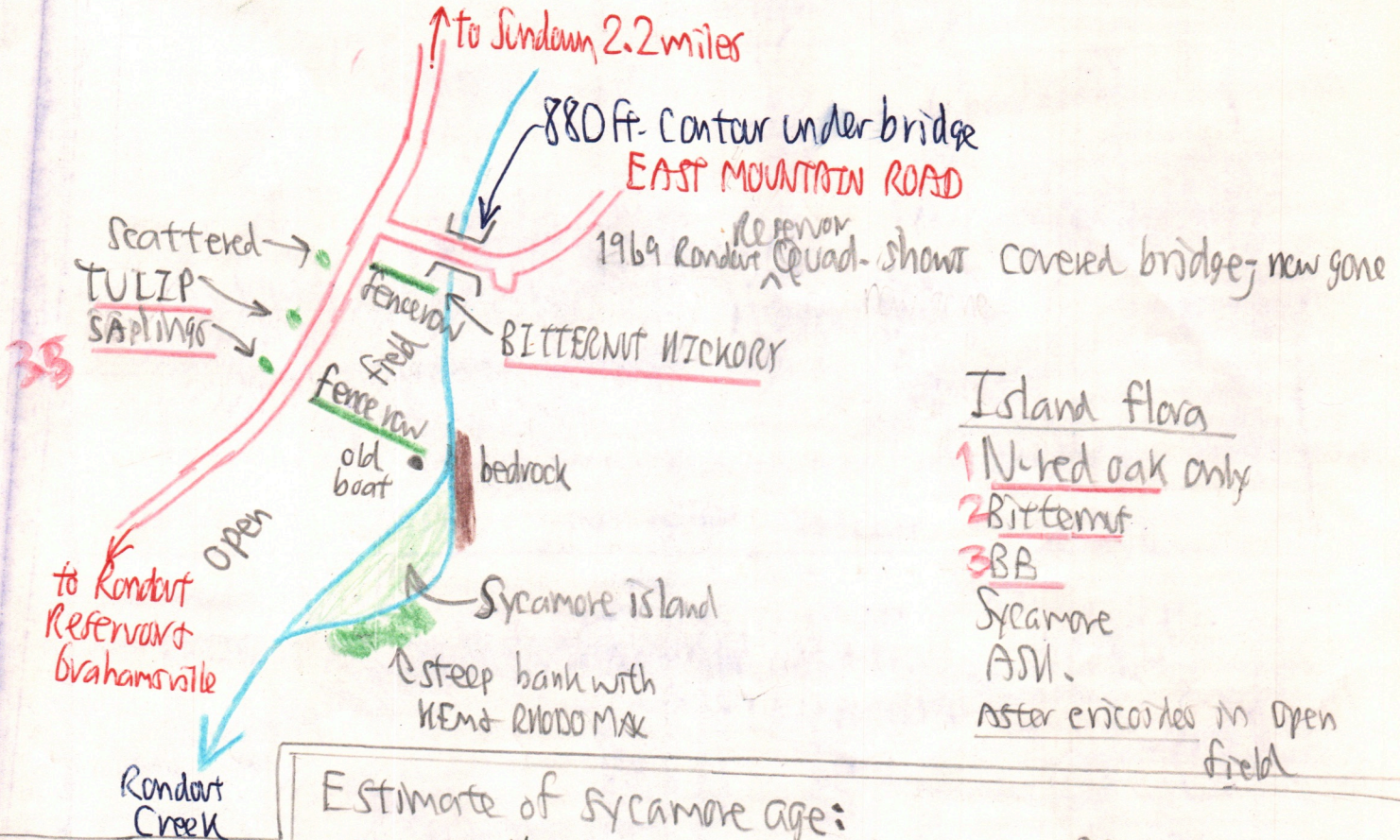


Rondout Creek flood plain

117-2

below Sundown with Mark Viant Leslie
of the D.E.P. 9/23/10.



Island flora

1 N. red oak only

2 Bitternut

3 BB

Sycamore

ASH.

Aster ericoides in open field

Estimate of sycamore age:

At 9 y/inch, a
 $14'' \text{ dbh tree} = \frac{14 \times 9}{2} = 63y$
 $21'' \text{ dbh tree} = \frac{21 \times 9}{2} = 95y$
 $24'' \text{ dbh tree} = \frac{24 \times 9}{2} = 108y$
 Wood sample collected shows radial growth rate as
 9 years in 1.0 inch from a fallen trunk

Specific gravity of Sycamore = 0.46
 (Red pine is 0.48)

Tree #1 Height
 4" to 10" twig length growth/year on fallen limbs.
 Tree height 70' to 80' to 100' max.

Don't use branch length rate for total tree height.

61 ft tree $\hat{=} 183y$
 At $4\frac{1}{4}$ y slow rate:
 70' tree is 210 y; 100' tree is 300 y
 At 10" y fast rate:
 70' tree is 84 y; 100' tree is 120 y
 61' tree is 73 y

Tree #2 Diameter
 Branches are growing 1 to 2 mm in radius/year. Trunks 2.5 mm/y.
 A 4" diam branch is 25 y.

(A 14" dbh trunk would be 88 y) & the 24" max dbh tree would be 150 y) at this rate. Also 21" dbh on 2nd largest tree

Tree #3 Diameter
 Collected wood sample trunk 11 rings/inch radial growth on end of island. 23 pieces (= 61 ft) tall and 14" dbh.
 Est. age $11 \times 7'' \text{ radius} = 77y$.

Trees #4 Height
 Estimated height growth at crown-top 18" y, in segment of leader covered with 2010 lvs.
 $61' \text{ tree} = 41y$ - $100' \text{ tree} = 67y$
 Sprouts & saplings grow 30" y in height, but for how long? Height