

| (cm) DBH | # clip | Megaplot Southeast | 2 stems, split at knee height, DBH 3 & 1.4 cm | clip height (ft) |
|----------------------------|----------------|---|---|--|
| 3, 1.4 1, 3, 1.5 1.2 | 16 8 | ACEPEN11_HF ALNINC04_HF | 210053 Prospect Hill Tract, on Locust Opening Rd 4 stems: 1 cm, 3, 1.5, & 1.2. | great low branches healthy, by wooden boardwalk past NEON boardwalk |
| 6.3 2cm | 14 14 | BETPAP06_HF BETPAP07_HF | Pole pruners Pole pruners | 15 good, low, a little sick |
| 4.8 4 | 14 14 | BETPAP09_HF BETPAP13_HF | Pole pruners. healthy enough Pole pruners | 15 great |
| 3.8 2 <1cm | 15 14 19 | BETPAP14_HF ILEMUC03_HF ILEMUC04_HF | 180273 180425 many smaller suckers from base, only clipped from main stem birch fell on it. was trapped mostly under snow. excavated it. very skimpy. | 20 great 7 ft (from base) (leaning) |
| 3cm | 0 | LYOLIG02_HF | Actually VACCOR | 3 ft |
| 14.9 | 6 | PRUPEN03_HF | Mostly DEAD. Only 1 kinda alive twig. didn't clip. 12 ft tall. sickly. | N/A |
| 4 | 6 | QUEALB08_HF | pole pruners. twigs off trunk. | great |
| 1.9, 2.3 | 0 | QUEALB09_HF | 180003 | great |
| 11.9 | 6 | QUEALB10_HF | DBH: two branches, split below BH. 1.9, 2.3 DEAD | good, young, a little sick COMPLETELY DEAD |
| 5.0 | 16 | QUEALB11_HF | Pole pruners. live twigs off trunk. | great |
| 3.1 | 16 | QUERUB15_HF | Pole pruners | 10 ft |
| 3.2 | 16 | QUERUB16_HF | OK health. 16 cuttings bit of stretch pole pruners | 12 |
| 7.3 | 6 | QUERUB17_HF | Prospect Hill Tract, on Locust Opening Rd | 12 |
| 4.6 | 6 | QUEVEL01_HF | pole pruners. Decent live twigs off trunk | 15 |
| 6.6 | 6+ tiny | QUEVEL02_HF | Pole pruners. many dead branches/mostly dead 2 cuttings very tiny | good sea smg, but died! |
| 10.2, 13.4, 16.1 | 6 | QUEVEL03_HF | Pole pruners. some dead branches many dead branches.. DBH 10.2. | 15 |
| 1.2, 3.2, 1.0 | 6 | QUEVEL05_HF | 160592 3 trunks on tree. 160591, DBH 13.4 tags: 1.2, 3.2, 1.0 cm | good 160590, DBH 16.1 20 ft |
| 1, 1.2 1.0, 1.7, 1.1 | 6 | RHOPRI06_HF RHOPRI07_HF | 270334 10 ft from RHOPRI07, many stems. 3 mp Just off locust road, by start of NEON boardwalk. many stems 2 with mp tags (DBH 1 cm + 1.2 cm) | great 3 4 |
| 1, 1 | 6 | RHOPRI08_HF | 270299 20ft closer to Rd than RHOPRI06 + 07. | great 3 tags: 1cm, 1.7cm, 1.1cm |
| 1 | 8 | VIBCAS02_HF | 7 ft tall. 1 stem, few branches. Alive | 5 |
| 2.3 | 7 | VIBCAS03_HF | 160297 dead tree fell on it, dead limb. live stem: 160296. twigs mostly dead. some clippings may be too short. | good, leaning 5 |
| 1, 1 | | VIBCAS10_HF | just past NEON boardwalk 2 stems w/ mp tags, & a couple others, some dead. both 1cm DBH | sickly but good, next to road 4 |

Accepent 160422 is very nice

Connor Pond

Chopped

C/T height

<1cm

5

AROMEL04_HF

42.4658289 -72.1622499

Slab City Tract, area 6, via gate 26, Connor pond, on water, down bank from AMECAN03, more hanging over water further down bank

missing metal tag

3 ft

<1cm
flagged the 2 stumps
a destructive sample
for MAT 4
clippings, 2 with many buds, 2 w/ 1 bud

2

42.4629910 -72.1635969

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond

4-5 ft tall, ~5 stem

1 scrawny stem, 6 mini branches, 3 ft tall. Another similar stem 1 ft away, same plant?

N/A
2 ft

<1cm

6

AROMEL08_HF

42.4637009 -72.1624139

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond, 25 ft to L of SPITOM09, on water

1 stem, 3 ft tall, berries

2 ft

N/A

0

AROMEL09_HF

42.4637039 -72.1624059

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond, 2 ft to L of AROMEL08

BROWSED, gone
1 stem, ~3 ft tall, berry

N/A

N/A

0

AROMEL10_HF

42.4636989 -72.1623779

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond, 2 ft closer to water than AROMEL09

BROWSED ^{maybe a} _{remaining} 1 ft twig
2 stems, ~3 ft tall, berries

N/A

<1cm

6

AROMEL11_HF

42.463792 -72.1626559

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond. Metal tag may say 07 incorrectly, replace with 11. ^{yes, says 07}

BIG, ~ 8 ft tall, good branches.

6 ft

<1cm

6

KALANG07_HF

42.466409 -72.1622589

Slab City Tract, area 6, via gate 26, Connor pond, by water, to L of MYRGAL02

part of mass, flagged 2 stems

1 ft

<1cm

6

KALANG09_HF

42.4665870 -72.1618849

Slab City Tract, area 6, via gate 26, Connor pond, by water, ~20 ft to L of SPITOM04

1 large stem, part of mass

1 ft

<1cm

6

KALANG11_HF

42.4625679 -72.1638699

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond, overhanging water

many stems

2 ft

<1cm

6

KALANG12_HF

42.4626639 -72.1637429

Slab City Tract, area 6, climbed over highway barrier by bridge, Connor pond, 20 ft from RHAFRA10

2 stems, part of huge mass

1 ft

Harvard Forest Routes

Winter 2015

4

~~clipping high~~DBH

#clipped

<1cm

6

KALANG13_HF

42.4627750 -72.1636370

Slab City Tract, area 6,
climbed over highway
barrier by bridge, Connor
pond2 tall stems, part of
a good discrete
clump

2 ft

<1cm

6

KALANG14_HF

42.4654750 -72.1616739

Slab City Tract, area 6, via
gate 26, Connor pond. near
fallen log, 30 ft to R of
SPITOM13one stem died
(the smaller one)
2 stems, 3.5 ft tall,
seed

3 ft

1cm

6

RHAFRA01_HF

42.466323 -72.162539

Slab City Tract, area 6, via
gate 26, Connor pond, by
watermissing metal tag
~6 stems, 3-6 ft tall

3 ft

2.5cm

6

RHAFRA02_HF

42.4664580 -72.1625199

Slab City Tract, area 6, via
gate 26, Connor pond, by
water~10 stems, ~12 ft
tall

7 ft

2.5cm

6

RHAFRA12_HF

42.46360802 -72.16277897

Slab City Tract, area 6,
climbed over highway barrier
by bridge, Connor pondHUGE, ~12 ft tall,
many branches

5 ft

1cm

6

RHAFRA16_HF

42.4652269 -72.1619090

Slab City Tract, area 6, via
gate 26, Connor pond. on
bank. ~10 ft to R of
RHAFRA15

~ 5 stems, 8 ft tall

4 ft

<1cm

6

RHAFRA17_HF

42.4652330 -72.1618800

Slab City Tract, area 6, via
gate 26, Connor pond. on
bank. 5 ft to R of
RHAFRA16

2 stems, 6 ft tall

4 ft

1cm

6

RHAFRA18_HF

42.4651409 -72.1618980

Slab City Tract, area 6, via
gate 26, Connor pond. up
bank. ~20 ft to R of
RHAFRA17

1 stem, 6 ft tall

5 ft

(above is Connor Pond route, continued)

~~RHAFRA19_HF~~

Gould Woodlot Route

Start at POPGRA across the street from main HF parking lot. Then, go down driveway to left of small HF house. Longer paths lead to stump dump (PRUPEN, ALNINC). Shorter paths just off road lead to a small pond, with tags leading to the shore.

Jan 20, 2015



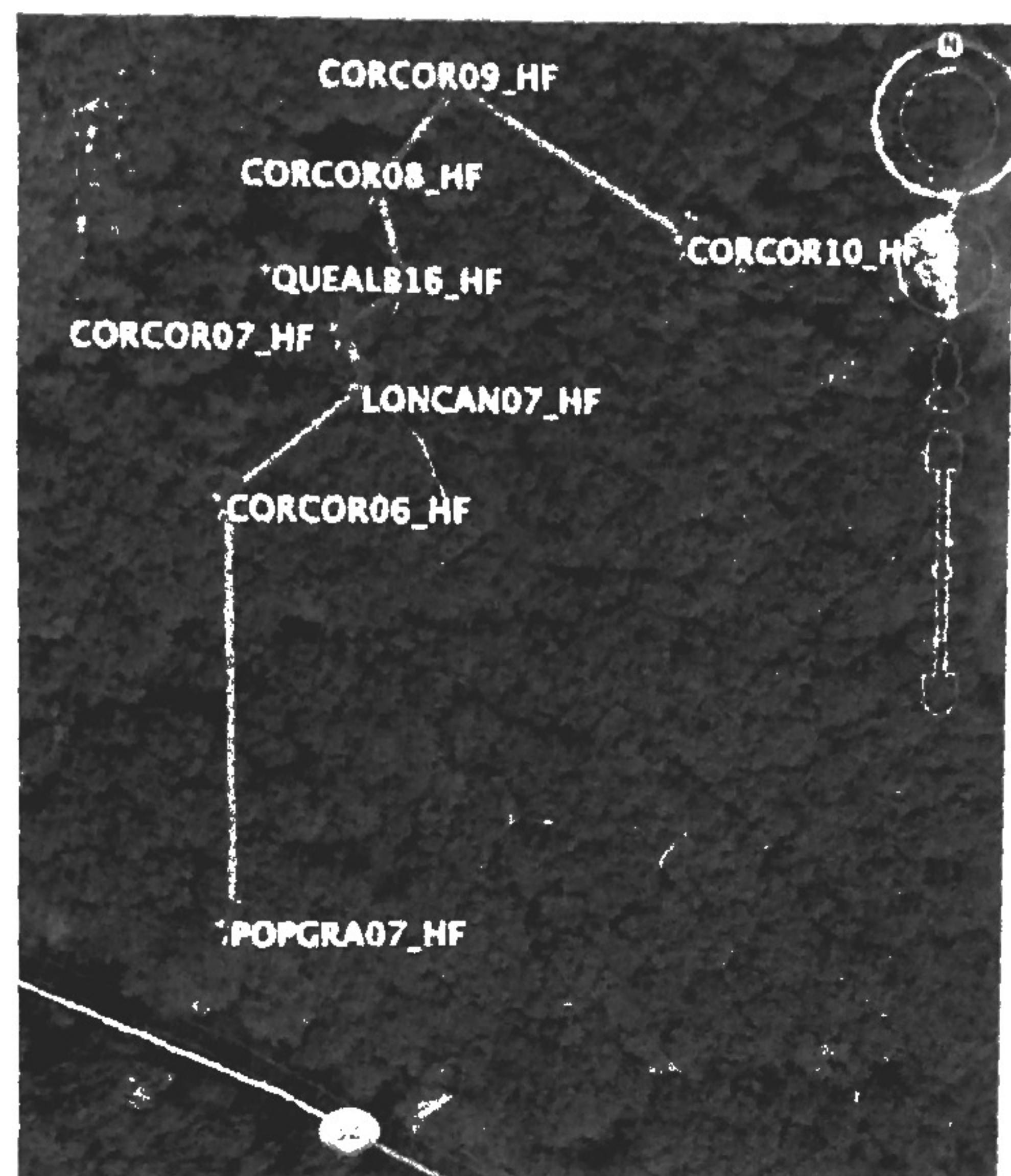
| Directions | Distance |
|-----------------------|----------|
| Start at POPGRA03_HF | |
| Arrive at SPIALB06_HF | 0.1 mi |
| Arrive at ALNINC07_HF | 116 ft |
| Arrive at SPIALB05_HF | 33 ft |
| Arrive at ALNINC08_HF | 7 ft |
| Arrive at ACESAC10_HF | 0.2 mi |
| Arrive at ALNINC05_HF | 349 ft |
| Arrive at PRUPEN05_HF | 88 ft |
| Arrive at PRUPEN06_HF | 19 ft |

| DBH | height of clipping | # clipping | Location | Description | Condition | Score | |
|----------------|-------------------------------|------------|-------------|--------------------------|--|--|-------------------|
| 5.5cm | 7ft | | ACESAC10_HF | 42.52792102 -72.19250003 | Gould woodlot (P9), to R of TILAME 01 | 1 low branch, then pole pruners. | 8 |
| 3ft | fung ground 10ft from base | | ALNINC05_HF | 42.52809503 -72.19377399 | Gould woodlot (P9), stump dump | fairly defoliated- sickly? part of large mass. rugosa for sure. | 8 |
| 3cm | | | ALNINC07_HF | 42.52846803 -72.18868098 | Gould woodlot (P9), path to pond on South end, 5 ft from SPIALB05, growing from creek bank | 1 trunk, no seed, rugosa. | 8 |
| 2cm | 6ft | | ALNINC08_HF | 42.52836401 -72.18863497 | Gould woodlot (P9), path to pond on South end, on pond shore | about 4 stems, rugosa | 8 |
| 45cm | 10ft | | POPGRA03_HF | 42.53037097 -72.18978999 | Prospect Hill Tract, across rd from HF entrance/ graveyard. | Huge tree. Covered in poison ivy. Pole pruners. | 9 |
| 4cm | 5ft | | PRUPEN05_HF | 42.52794399 -72.19402696 | Gould woodlot (P9), stump dump, in clearing past rock piles | tall, good health, many branches, bring clippers to remove bittersweet vine. seed present, but too high up to collect. | 8 |
| 2.5m 5ft | | | PRUPEN06_HF | 42.52797601 -72.19408303 | Gould woodlot (P9), stump dump, 6 ft from PRUPEN 05 | smaller. | 8 |
| metatag said 4 | | | SPIALB05_HF | 42.52838303 -72.18863899 | Gould woodlot (P9), path to pond on South end. Directly next to a VACCOR (mis-tagged as VACMYR). | 1 woody scraggly stem, poor for cuttings? nearly dead | only 6 live twigs |
| 1cm 3ft | | | SPIALB06_HF | 42.52870297 -72.188971 | Gould woodlot (P9), path to pond on South end, on pond | many stems, seed gone by | 8 |

Slab City Tract via Gate 23 Route

Drive South on Rt 32, pull over on Left at gate 23

Jan - 20 - 2015

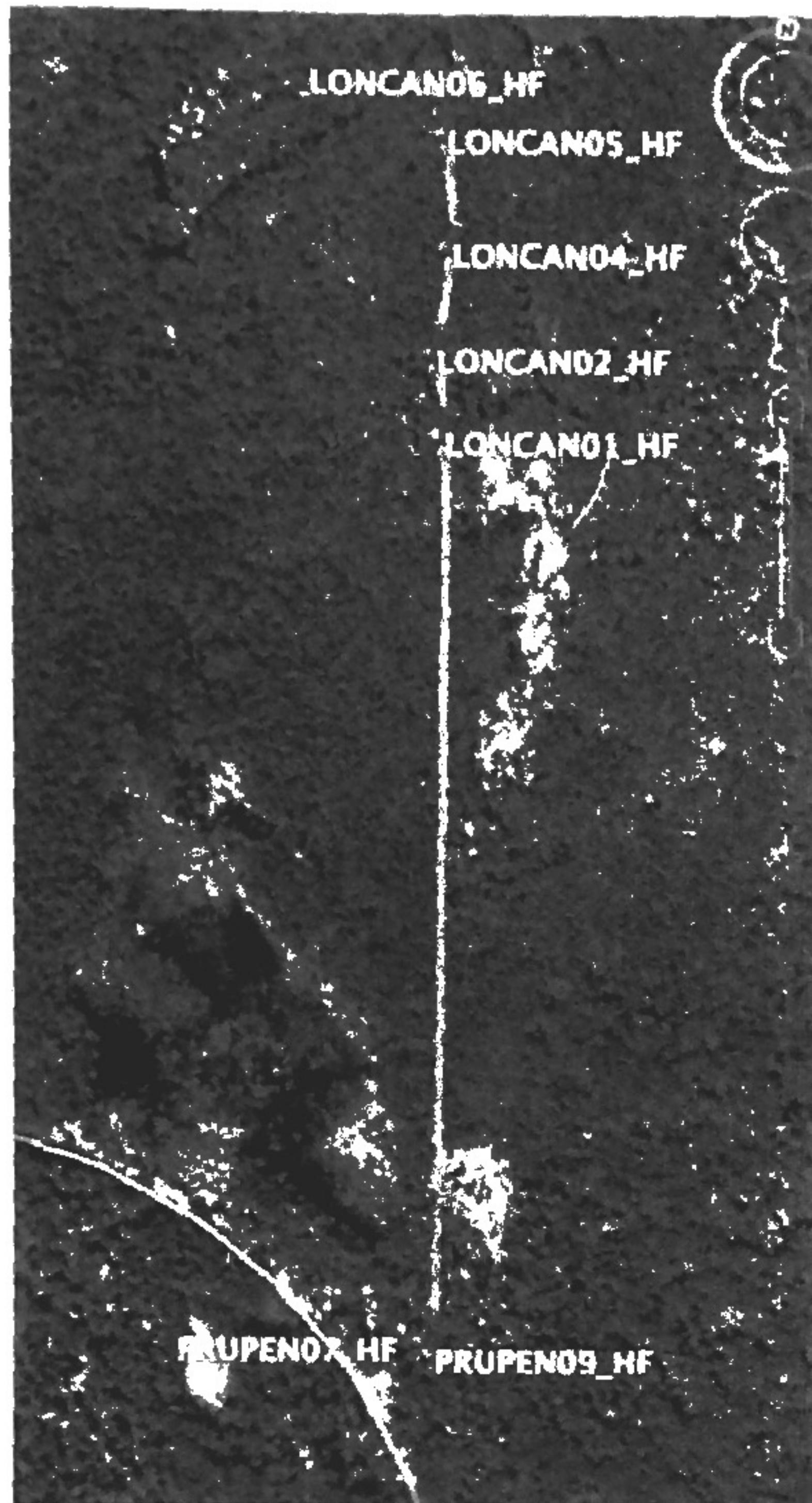


| Directions | Distance |
|---|----------|
| Start at POPGRA07 HF TOO TALL, return v/sling shot | |
| Arrive at CORCOR06 HF | 255 ft |
| Arrive at LONCAN07 HF | 107 ft |
| Arrive at CORCOR07 HF | 38 ft |
| Arrive at QUEALB16 HF | 44 ft |
| Arrive at CORCOR08 HF | 15 ft |
| Arrive at CORCOR09 HF | 11 ft |
| Arrive at CORCOR10 HF | 39 ft |

| DBH | # clipped | | | | |
|--------|-----------|-------------|--------------|--|---|
| < 1 cm | 6 | 42.47275 | -72.16946698 | Slab City Tract, area 3-4, via gate 23. On path. | 4 stems, 2-6 ft tall |
| 1 cm | 6 | 42.47303397 | -72.16920496 | Slab City Tract, area 3-4, via gate 23. On path. | 1 stem, 6 ft |
| < 1 cm | 6 | 42.47327303 | -72.169126 | Slab City Tract, area 3-4, via gate 23. On path. | 2 stems, 7 ft tall |
| < 1 cm | 6 | 42.47344502 | -72.16895099 | Slab City Tract, area 3-4, via gate 23. On path. | ~ 3 to 6 stems, 3-7 ft tall |
| 1 cm | 6 | 42.47320999 | -72.16839502 | Slab City Tract, area 3-4, via gate 23. A couple of ft off path, above little hemlock. | 1 stem, 6 ft tall, other small stems nearby |
| < 1 cm | 7 | 42.47293599 | -72.16916196 | Slab City Tract, area 3-4, via gate 23. On path. | tall, hairy edge, opp. buds., pic. 1 stem |
| 1.3 cm | 6 | 42.47310103 | -72.16906901 | Slab City Tract, area 3-4, via gate 23., across path from CORCOR08 | Watched leaf fall, collected tissue. Tall, too tall for pole pruners. 8ft tall, low branches |
| | | 42.47205304 | -72.16945499 | Slab City Tract, area 3-4, via gate 23. Before gate. | 5 ft |

Tom Swamp, Gate 10, off Rt. 122 Route

Drive on Rt. 122, pull over at Gate 10. If prefer a hike to a drive, can access Sunset Lane route from this gate as well.



Jan - 20 - 2015

| Directions | Distance |
|-----------------------|----------|
| Start at PRUPEN07_HF | |
| Arrive at PRUPEN09_HF | 38 ft |
| Arrive at LONCAN01_HF | 0.4 mi |
| Arrive at LONCAN02_HF | 210 ft |
| Arrive at LONCAN04_HF | 263 ft |
| Arrive at LONCAN05_HF | 282 ft |
| Arrive at LONCAN06_HF | 96 ft |

| DBH clippings | | | height of clippings |
|------------------|--------------------|--------------------------------------|---|
| <1cm | 7 | LONCAN01_HF 42.50245001 -72.19989697 | Tom Swamp Tract, area 4-5 mass of ~ 7 stems, tallest 18 in, tagged hemlock above/to L. ~5 ft |
| <1cm | 8 | LONCAN02_HF 42.50302199 -72.19998398 | Tom Swamp Tract, area 4-5 1 trunk, 3 main branches, ~3ft tall, ~63m down trail from LONCAN01 2 ft |
| <1cm | 7 1 super short | LONCAN04_HF 42.50373697 -72.19985699 | Tom Swamp Tract, area 4-5 many stems at base of a red oak, 4-ish little stems tagged, ~18in at tallest. 81m down path from LONCAN02. 1 ft |
| <1cm | 8 | LONCAN05_HF 42.50450903 -72.19990997 | Tom Swamp Tract, area 4-5 healthy, 3 stems, ~2ft tall, many more around. 1 ft |
| <1cm | 8 | LONCAN06_HF 42.50476803 -72.19996604 | Tom Swamp Tract, area 4-5 Big and sprawling, ~3ft tall, many stems, flagged baby white pine in the middle of 2 ft |
| 3.4 | 8 | PRUPEN07_HF 42.49609502 -72.20000996 | Tom Swamp Tract, at start of swamp Tom Swamp Tract, at start of swamp low branches, healthy 7 ft |
| 2.0 | 7 | PRUPEN09_HF 42.49601397 -72.19991902 | low branches, healthy, ~10 feet from Prupen07 7 ft |

Jan 20th, ~~2014~~
2015**Tom Swamp Tract, Riceville Pond.**

Take Rt 32S towards town. R on Tom Swamp Rd. R on New Athol Rd, turns into New Sherborn Rd. Pull-over on right, near Riceville Brook. At a fork between a footpath and a 2-track, turn L to follow footpath along shore of pond.



| Directions | Distance |
|-----------------------|----------|
| Start at VACMYR01_HF | |
| Arrive at VACMYR02_HF | 38 ft |
| Arrive at VACMYR03_HF | 11 ft |
| Arrive at VACMYR05_HF | 33 ft |
| Arrive at VACMYR07_HF | 53 ft |
| Arrive at VACMYR10_HF | 54 ft |

DBH height at which cuttings taken

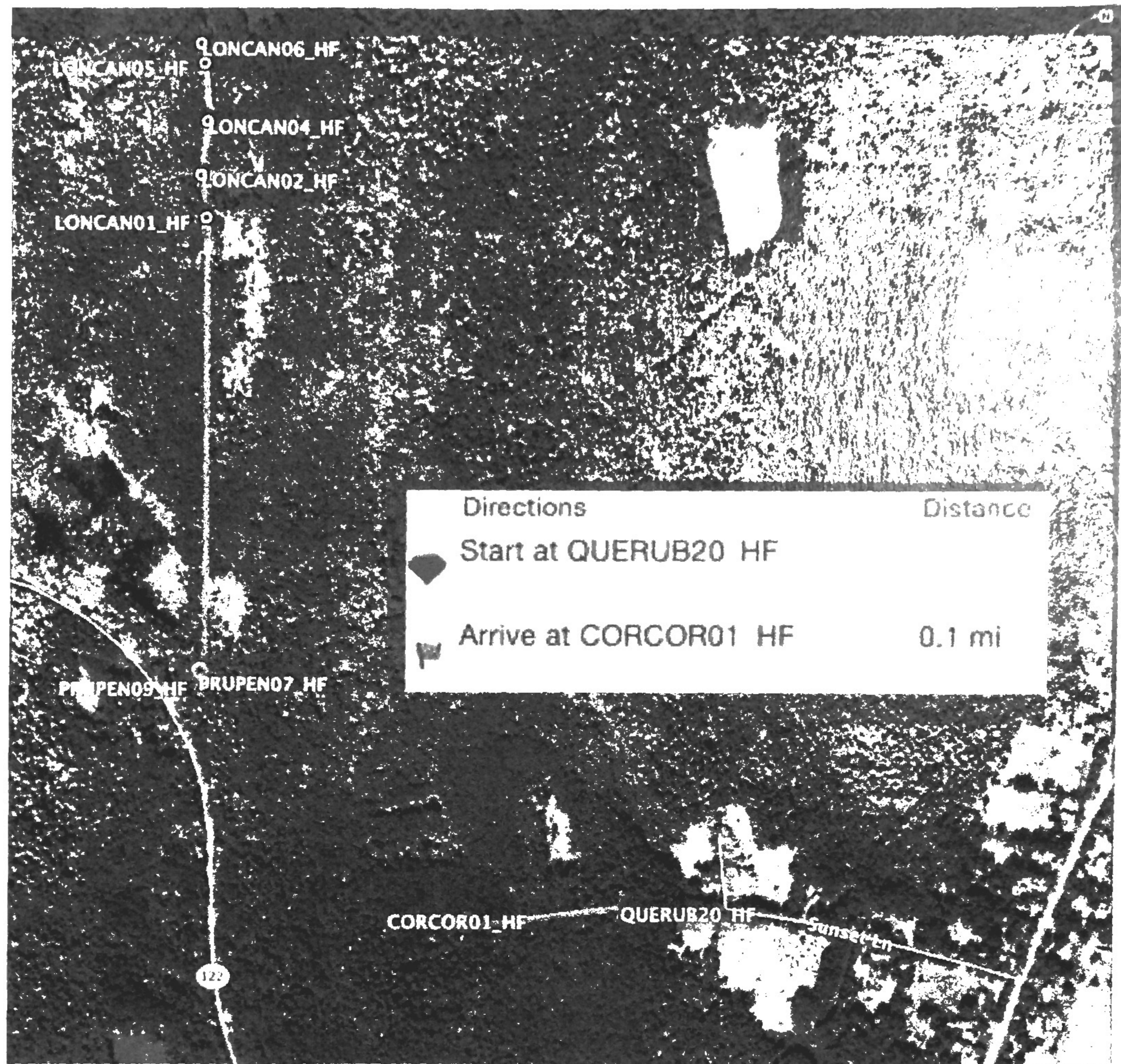
cuttings

| | | | | | | | |
|----------|-----|-------------|-------------|--------------|---|---|---|
| <1cm | 1ft | VACMYR01_HF | 42.529398 | -72.21948699 | Tom Swamp Tract, area 9, footpath along Riceville pond. | ~14in tall. 3 stems, 1 dead. tagged baby hemlock above/ to R. ID: pics, fuzzy leaves, leaf edges, stem. | 8 |
| <1cm | X | VACMYR02_HF | 42.529399 | -72.219345 | Tom Swamp Tract, area 9, footpath along Riceville pond, 3ft from 01 | ~18in tall, 2 stems, tagged hemlock baby above. | 0 |
| 1-1.5cm | | VACMYR03_HF | 42.529399 | -72.21938599 | Tom Swamp Tract, area 9, footpath along Riceville pond, 2ft from 01&02, @ base of hemlock baby. | ~18in tall, 2 stems (2nd stem ~5 in tall). | 4 |
| 1-1.5cm | | VACMYR05_HF | 42.52930798 | -72.21938498 | Tom Swamp Tract, area 9, footpath along Riceville pond. | 1 stem, ~20 in tall, tagged dead twig by it. | 8 |
| ~1-1.5cm | | VACMYR07_HF | 42.52942901 | -72.21927904 | Tom Swamp Tract, area 9, footpath along Riceville pond, 4-5 ft from 06. | 3 live stems, 2 dead, ~18in tall, flagged dead thing above | 8 |
| 1-1.5cm | | VACMYR10_HF | 42.52952004 | -72.21943804 | Tom Swamp Tract, area 9, footpath along Riceville pond, by fallen log, flagged VACCOR above it, 4 ft from 04. | 2 stems, ~20 in tall | 8 |

1cm 1ft vacmyr04HF
took samples from 04 since there was not enough material from 02

2015¹⁹Jan 20th, ~~2015~~**Tom Swamp, Sunset Lane Entrance**

Head south on Rt 32 towards Petersham, before town turn R on Sunset lane, drive to end, park before chain. Connects to Tom Swamp_Gate 10 route, if desired, or turn back and drive.



| DBH | # clippings | clipping height |
|------|-------------|-----------------|
| <1cm | 6 | 3 ft |
| 1cm | 16 | 4 ft |
| | | |

Tom Swamp Tract, off Sunset Ln. Left of path, after fallen tree. ~7 stems, low.

CORCOR01_HF 42.49270999 -72.19498602

Tom Swamp Tract, off Sunset Ln. 5 ft tall, about 10 coppiced trunks off cut stump. 1 dead trunk. can't really see any fuzz on leaf back.

QUERUB20_HF 42.49300503 -72.19216702

→ flagging & tag were gone. GPS took us to point within 5m accuracy. Fit description in notes. & still had dead leaves, confirmed Red Oak.

Jan 21st, 2015Locust Road to Nature Trail Route

| DBH (cm) | # clip | ID | Lat | Long | Description | Notes | Height (ft) |
|-------------------------|--------|-------------|-------------|--------------|--|--|-------------|
| 13.7 | 16 | ACEPEN12_HF | 42.53505 | -72.18172803 | on Locust Opening Rd | Tall with low branches | 15 ft |
| 2 stems: 6.1 cm, 4.8 | 16 | FAGGRA14_HF | 42.53604401 | -72.17846403 | 2 stems: larger 6.1 cm DBH, smaller 4.8 DBH on Locust Opening Rd | perfect tree by rd, low branches | 6 ft |
| 2 | 9 | POPGRA02_HF | 42.53263903 | -72.18660797 | clearing at start of nature trail | | 6 ft |
| | | POPGRA05_HF | 42.53492704 | -72.18804899 | @ intersection of Blackgum trail & connector path to Locust rd. | Watched leaf fall, collected tissue. Tall, too tall for pole pruners. | |
| | | POPGRA06_HF | 42.53268798 | -72.18806097 | By stone bridge on locust opening rd, leaning tree | Watched leaf fall, collected tissue. Tall, too tall for pole pruners. | |
| 1 cm | 9 | PRUPEN12_HF | 42.532734 | -72.18292002 | @clearcut. 5 ft from PRUPEN10 & 11. | Small, 1 trunk, ~10 ft tall, little branches. | 7 ft |
| 1.7 cm | 8 | PRUPEN13_HF | 42.53247902 | -72.18299696 | @clearcut, 3 ft from POPTRE07 | ~10 ft tall, scraggly | 2 ft |
| 2.8 | 16 | QUERUB21_HF | 42.53291102 | -72.18676899 | @ nature path clearing | ~12 ft tall, many low branches. Id: very slight tufts behind leaves... | 7 ft |
| 2 cm | 16 | QUERUB23_HF | 42.53013602 | -72.18564598 | down nature path | ~10 ft tall, ~6 live branches. Id: tiny vein tufts behind leaves... | 8 ft |
| 1 cm | 6 | QUEVEL09_HF | 42.53648104 | -72.17736097 | on Locust Opening Rd. Originally misID as QUERUB18 | very small, ~7 branches | 6 ft |
| <1 cm | 8 | SPIALB03_HF | 42.53234499 | -72.18911299 | by gate by cows. | Tall plant, many stems, caution: poison ivy, flagged ACESAC above. | 3 ft |
| <1 cm | 8 | SPIALB04_HF | 42.532864 | -72.18656899 | clearing at start of nature trail, directly to R of POPTRE01 | | 2 ft |
| | | SPIALB08_HF | 42.535021 | -72.18942697 | by wood piles/ solar panels, by entrance path to warming experiments, on L as you enter path | part of mass, ~4ft tall, ~4stems, took seed off tallest flagged big stem | |
| 2 cm | 16 | VIBLAN10_HF | 42.53445203 | -72.18305698 | along Locust Opening rd. | | 5 ft |