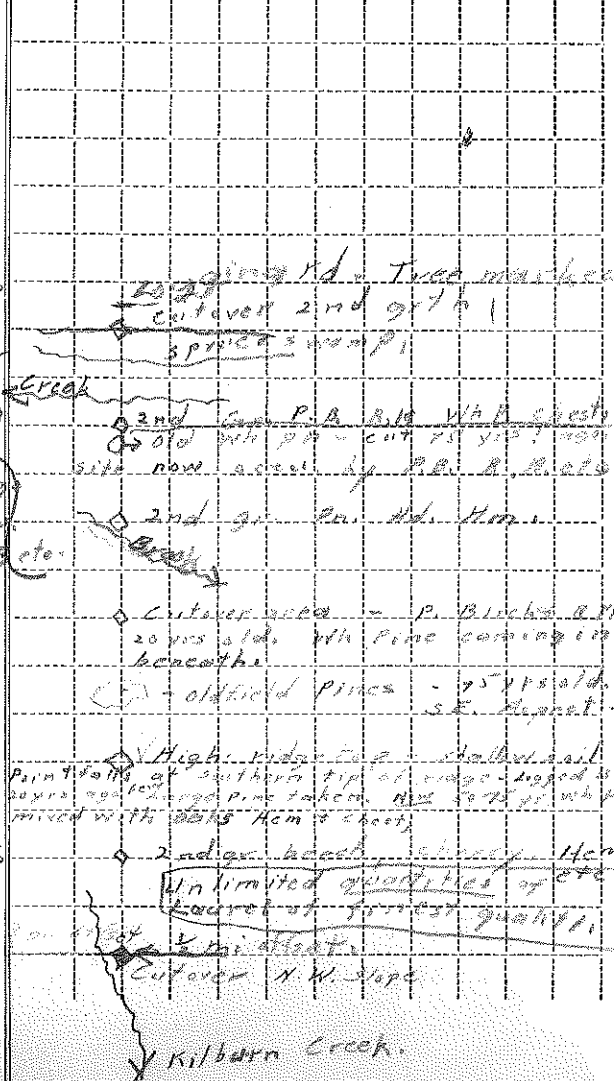


Subject, *Rearranging N* → *to be rearranged* Date, *4/1-34*

Locality, *Barre, Vt.*

Notes by *Rearranging N*

Old *Y*
Pine
cutover
15 yrs
Now
by *photo.*



Subject,

Location, South end of saddle between Mt. Bunch of Broad Back ridge.Date, 4-2-20

✓ ✓
 Large old growth pine stumps
 found on North slope.

Find pine stumps fairly
 uniformly scattered along
 the whole length of the slope,
 and from top to bottom.
 Large hemlock stumps and
 hardwood stumps indicate
 that virgin stand was
 Pine, then hardwood
 timber. - Now occupied
 by Hem and Hdw.

Whole ridge is quite
 well protected from winds
 out at ~~the~~ N.W. & N.

✓

Notes by Bill Bunch.

Subject,

Locality,

Why!

Notes by

Date,

✓ ✓
 Same ridge as on preceding page, only having eastern slope. Scattered wh. P. stumps found. Small benches seem to have more wh. P. than main slopes.

(Soil very shallow on bench observed, subject to windfall. Many windfalls on ground.)

Present stand $100 \pm$ yrs old with wh. P. well represented and the trees much larger than the component species (hem - p. B. etc.)
 (Bird red oak staves on area picture.)

Plot

✓

Very Protected site in valley
of one of branches of West
Fork of Broad Brook. "Hummocky"
Valley

Old stumps show virgin
stand of almost pure
pine. - but probably
25-100 yrs ago. Stumps were
covered, and were cut with
axe alone. Few large old pines
left. Stand more than 100
+ some pine.
shallow rocky soil.

✓

Notes by

Date,

190
1990
110
760

1400
2000
1700
210
1120

1800

W
 Line from pt. 2640 up
 road from crossing
 of day before (NW of
 Broad Brook Park)
 Old Field vine along rd
 300 Old pine cottage 75-100 yrs
 level. New Hd/Hm
 600 Old Field P 25 (core)
 700 Old pine cut twice
 100+ 75 yrs ago; burned
 800 P/Hm - 80
 1150 Broad Brook (some type)
 2000 Hd 75 yrs old
 Few old 50+ Hd by
 around - very old
 150+ History ? Hd
 2200 Hd cut - st
 2300 Old P - P. show
 cut 75 yrs ago - by
 2400 Hd P/Hm N.S. 100+
 2500 N-S 100+

Locality

Notes by

Date

55 d d
11

3820

4400 Brook Flowing

4460 SISE Same type

5100 Hm-P old growth

4240 Edge 200' wide

5800 Same type as before

4440 Edge

5800 KM SWB

1290 Rd Running on 1500

1214 Landed in 1/2 way

of main island

SSE W. 500' toward

Subject,
Locality,

Date,
Notes by

4/4/30 Hosley & Daley

Start on logging road at SE
 end Mt. Prospect, at end -
 of it yesterday's line
 Traverse road NE to
 next line:

- 18
N 32° E 345'
- 17
N 17° E 192'
- 15
N 25° E 400'
- 16
N 20° E 200'
- 14
N 38° E 500'

NH Poplar on left
 Spruce on right
 End of
 Pine on edge
 of
 400' at level
 of
 400' at level

Follow line out to
 Start E at place 6" Beech
 100' Beginning of wide swamp
 500' End of swamp

Now heavy forest, WP
 when cut 100 yrs ago
 800' 50' and pine forest
 low wet location. Red
 Pine scattered over the
 slope. Shallow cutting
 previous pine - hemlock

Subject,
 Locality,

Notes by
 Date,

1630' Low ridge, High bank

1900' Low ridge, High bank

2160
~~1720~~
540

Descending gentle west slip
P. birch, maple, cal. pruned
Old narrow cut, old wood
av. dense.

1700'

~~3400~~ Pine spruce - Sid. ...
... of grass slip

2966

~~3700~~ Bushy young southern ...

1750
Y. P. Birch, Maple ...
hem. cut ...

... Hem. ...
... dense.

3360
2200
840

Offset ^{1/2} N. through

grass meadow. On ...
... ground ...

Last 300' is ...
Start back West. (Pine ...)

2nd yr. ...
... Pasture, pine ...

600' old field pine ...
80-90 yrs. old.

3360
4200
840

Offset 1/4 N. thru open

grass meadow. Old-field pine
unlimited. Pine of small
start back West. (Pine
2nd yr. Heads on trees
6000. Old field pine
80-90 yrs old.

✓ 2nd yr. Heads: hem-pine above
75 yr old Pine cut out 20 yrs ago.
Probably pastured at one time.

Elevation	Description	Notes
1700	Older pine stumps now 5 yr old (E. slope). Pine cut at end of dead asp. P. stand	Locality, Subject, Date, Notes by
1840	One almost pure pine	
2000	in groups. Cut 80+ yrs ago.	
2162	Now hem. hem-pine.	
1900	Low flat edge of	
2200	Young pine again. Stumps	
2360	in groups. Evidence of	
2450	on slope.	
2500	Edge of hem. flat.	
2540	P. oak - hem. slope.	
2800	Young (magenta) pine	
3150	Edge swamp. Now hem. hem.	
3300	Ridge top. Pine cut	
3400	Logging road (labeled Maple) Bl. gum in swamp.	
3500	Head back 2 ways 200 N.	
3600	1929 cutting P. hem.	
4000	Continuing West.	
	Back N. Edge 29 willis	
	Now hem. - hd wd.	

8-137

~~5400~~
5400' Ascending East slope
Mt. Pisgah. Many hem. wind-
falls. Now old hem. hdw
stand. Occasional pine. No
cutting on this area visible.

5575
6200' Crossing N. end of
Mt. Pisgah. 1200' N. of
N. bdy of Harvard tract.
Virginia hem-hdw - some pine.

Many wind falls. Rocky soil.
6250' 2nd gr hdws. Cutting
15-18 yrs ago. Dead ches.
common. Old pines cut.

5950
6000' End of cutting.

6200
7100' Swamp.
Low ridge top. Hem-hdw
cut 40-50 yrs ago. Dead
ches. cut recently.

6696
8370' Low west slope, descending
Road leading N. from
N. end Pisgah Reservoir.

100' From Reservoir. 2nd gr.
hdws (ash, beech, birch, maple)
hemlock, some W.A. stumps.

Offset	1/4 mi S.	along road.	Locality	Subject
		2nd gr hdws. Pine- hdws cut 50 yrs ago.		
	Turning point	1/4 mi E. of road.		
	Start	East up N. slope.		

77m! Top ridge Hdws cut 50

15-18 yrs ago Dead ches
common. Old pines cut.

8950

End of cutting
swamp.

8280

7150

Low ridge top. Hemlock
cut 40-50 yrs ago. Dead
ches cut recently.

6690

8370

1674

Low west slope descending
Road leading N. from
N end Pisgah Reservoir.

100' from Reservoir. 2nd gr.
✓ hdwds (ash, beech, birch, maple)
hemlock, some W.P. stumps.

Dist 1 1/4 mi S. along pond.
2nd gr. hdwds. Fine-
hdwds cut 50 yrs ago

Turning point 1/4 mi E of pond.
Start East up W. slope

7700' Top ridge. Hdwd cut 50
900' Edge cutting.

1600' Hdwd cutting 10-15 yrs
ago. Hem cut 50 yrs ago

2360
1100
750

Occasional W.P. cut
2360' Crossing trail at

entrance f. Harvard tract
Trail leads S 28° W to
saw mill. (100' from side)

2500' Crossing Harvard Tract
S. bdy is 400' South

2900' Edge Harvard Tr

3100' Low ridge. Old 2nd gr.
Hem & Hdwd

3650' Logging road. 550' S of
East west bound line.

Subject, Locality, Date, Notes by

S-187

Pictures - 4-14-30.

No 122 - Picture of Pure
Hem. old growth on
slight N. slope, along right
fork of logging road on
divide.

Tree 2 a number on 1 side
FV4 & 1 second on another

No 3 - Armillaria mellea
at work - opening up
of canopy - 2 dead
Hem. - 2 dead pieces
of wh. birch in background
short distance from No 2

No 4 - Hem. sapling 4-15
canopy in is small
opening. Large wh. P.
sapling in right of hole.
Hem 28 yrs. old.

Subject, *P. mellea*

Locality, *North Fork*

Logging Road

Divide

Forest

Notes by

W. S. K.

Date, 4-14-30

No. 546. - Larger hole than
No. 4. - about 600 sq. ft.
Hem 30 yr. old. under P.B.
Black birch, cherry, beech.
Tall living pine & dead
pines in bckgd. Hd w 2nd
gr. 2 - 4" DBH. Hem 4-10'
high. - Plot taken on
same site in fall of '29.

No. 7 - Old Gr. Pine Hm
Hd. Protected N. slope
(gentle) close to valley bottom.
Large wh. P on rt. side.
Red maple on left & one
crooked R.M. in bckgd.

(gentle)
close to valley bottom.
Large wh. P. on rt. side.
Red maple on left & one
crooked R.M. in bckgd.

No. 817 - Large opening in
ridge exposed to N & NW
winds. Blunders at top.
High percentage of overstory,
which was P. - Hem & R.O.
R.O. still standing. Also
few pine & Hem. - P. so
creeping in along with hem &
some larch. - Hat in
left foreground.

No. 10 - Same opening
- different part of stand.
"Branch" on log.

No. 11 - Same as No. 10.

No. 11 200 ± yr. hem. stand
on east slope. Old pine
stands 100 yrs old.

Locality:

Subject,

Notes by

Date,

Traverse of road to Sawmill

Start where Broad Brook crosses state road						
N 35 W	225	via road				
N 5 W	240	"	"			
N 3 E	180	"	"		✓	
N 2	675	"	"		✓	
N 34 E	175	"	"		✓	
N 5 E	130	"	"		✓	
N 8 W	120	"	"		✓	
N 3 E	153	"	"		✓	
N 27 E	158	"	"		✓	
N 20 W	134	"	"		✓	
N 10 E	358	"	"		✓	
N 9 E	235	"	"		✓	
N 24 E	147	"	"		✓	
N 2 E	220	"	"	Brook	NS	
N 27 E	450	"	"		✓	
N 40 E	150	"	"		✓	
N 25 E	442	"	"		✓	
N 14 E	435	"	"		✓	
N 1 E	150	"	"		✓	

Subject,
Locality,

Date,
Notes by,

~~IIII~~ II II II II
 IIII II IIII IIII IIII
 II IIII IIII IIII II
 III

M T

5200
 12

 43300

62500
 13300

 4600

17

62500
 53 500
 2600

31
 17

Traverse from bridge 15730K
 state road to Camp. 4-24-30.
 chain & compass. Lot 1
 Dooley & Brown

15	N 31° W	250'	✓	✓
22	N 42° W	150'	✓	✓
12	N 3° E	250	✓	✓
5	N 40° W	750	✓	✓
17	N 31° E	175	✓	✓
9	N 5° W	150	✓	✓
23	N 8° W	150	✓	✓
6	N 8° E	175	✓	✓
7	N 24° E	150	✓	✓
35	N 31° W	175	✓	✓
5	N 9° E	200	✓	✓
2	N 50° E	375	✓	✓
11	N 35° E	400	✓	✓
42	N 36° E	200	✓	✓
12	N 36° E	475	✓	✓
3	N 40° E	500	✓	✓
7	N 7° W	200	✓	✓
2	N 12° E	1400	✓	✓
15	N 1° N	200	✓	✓

Locality

Subject

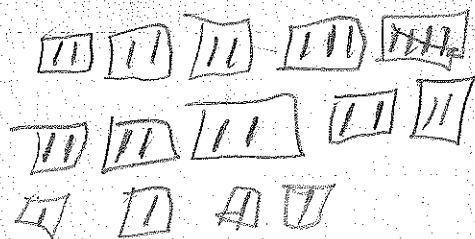
Notes by

Date

B-4387

Hg.
 7.50

Creek at 30



Along road etc.

N	25 ¹¹ E	250'	✓	✓
N	3 ¹¹ E	247'	✓	✓
N	47 ³³ E	200	✓	✓
N	41 ²⁶ E	300	✓	✓
N	8 ⁶ E	500	✓	✓
N	41 ⁷² W	100'	500'	✓
S	47 ⁷² W	250	✓	✓
S	57 ⁵³ W	200	✓	✓
S	40 ⁴⁰ W	200	✓	✓
S	70 ⁷⁰ W	75	✓	✓
N	8 ⁶ E	200	✓	✓
N	25 ¹¹ E	100	✓	✓
N	3 ¹¹ E	100	✓	✓
N	4 ⁴ E	200	✓	✓
N	11 ³ E	350	✓	✓
S	63 ⁵³ W	50	✓	✓
S	47 ⁵³ W	130	✓	✓
N	24 ⁸² W	100	✓	✓
S	71 ⁶¹ W	100	✓	✓
S	32 ⁷⁸ W	100	✓	✓
S	83 ⁸³ W	100	✓	✓

Subject, _____
Locality, _____

Date, _____
Notes by _____

N ⁶¹~~47~~° W = 100' ✓
N ³⁸~~24~~° W = 325' to point on
+ reverse (by) Daley & Lattie of
4-23-1301

Lattie & Daley

7/24/30

Lott & Daley

Magnetic

Traverse West from Pisgah Dam
to Hinesdale - Chestertield Road

440'	Road to station
270'	Trail
850'	Break to S
5600'	Break to SW
5750'	Logging road SW
5900'	" "
6240'	" "
6450'	Logging road
7300'	Crossing S. end of ridge
8000'	Road fork
8500'	Open Field
8820'	Center of Road where Break adjoining Trail.
300'	N. of Brown House

Subject,
Locality,

Date,
Notes by

4-25-'30

Cline - Merr - L. H.
Daley & Branch

Expedition from Dam on Reservoir
going N.W. toward "Tik-Mouse"

Statistics.

Found old growth pine
stumps scattered about among
hemlock stumps (and in
some places among beech
and chestnut stumps).

On one east slope with
^{with} hemlock, found mostly
large chestnut stumps with
a few beech stumps and
NO pines.

Part of area now covered
with paper birch, yellow
birch, red maple, and
white oak. Occasionally
find young white pines
which have come up
from stumps.

Locality

Subject

Notes by

Date

8-437

✓

North
West slope. - Equal to that inside.

Old stumps show that virgin stand had higher percentage of the pine than hemlock. Hemlock stumps smaller than pine. One pine stump has hemlock tree 66 yrs old growing out of it. Stand now has 300 year old hemlocks in it and age range from these old trees down to small hem and birch. appear to be a residual all-aged forest which was reformed after logging off old pine and best hemlock.

Plenty of several kinds

pine than hemlock. Hemlock
 stumps smaller than pine.
 One pine stump has hemlock
 tree 66 yrs old growing out
 of it. Stand now has 300
 year old hemlocks in it and
 ages vary from three old trees
 down to small hem and birch.

appear to be a residual all-year
 forest which was not burned
 after logging off old pine and
 best hemlock.

plenty of mineral found
 on top of mineral soil
 An old stand pine
 probably composed 60-70
 % of the stand.

East slope - Protected.
 Name Pure Hdm. - P.R. Area
 and in the ~~area~~ over 1950
 Composition of old stand.

<u>Pine stumps</u>	<u>Hem st.</u>	<u>Chest st.</u>	R:0

stand stand in of high
 density - highly striped
 most for chest. which opened
 after fire (P)
 Type changes abruptly at small
 cliffs almost at edge of - to
 pine hem & oak on ridge
 (end growth).
 found very small pieces

Subject, Location, Date, Notes by

of charcoal next to mineral
soil.

Protected from all
save the East wind.
Found slightly larger
pieces of charcoal worked
into brown layer of
soil.

chest have found
one old residue
yellow birch on slope

Subject, Swamp Plats Date, 5/3/30
 Locality, Mt. Pisgah, N.C. Notes by R.K.D.

Hem. Spr. - Hdwd. / Pine - Hemlock - Hdwd.

Hdwd.

Pine - Hemlock

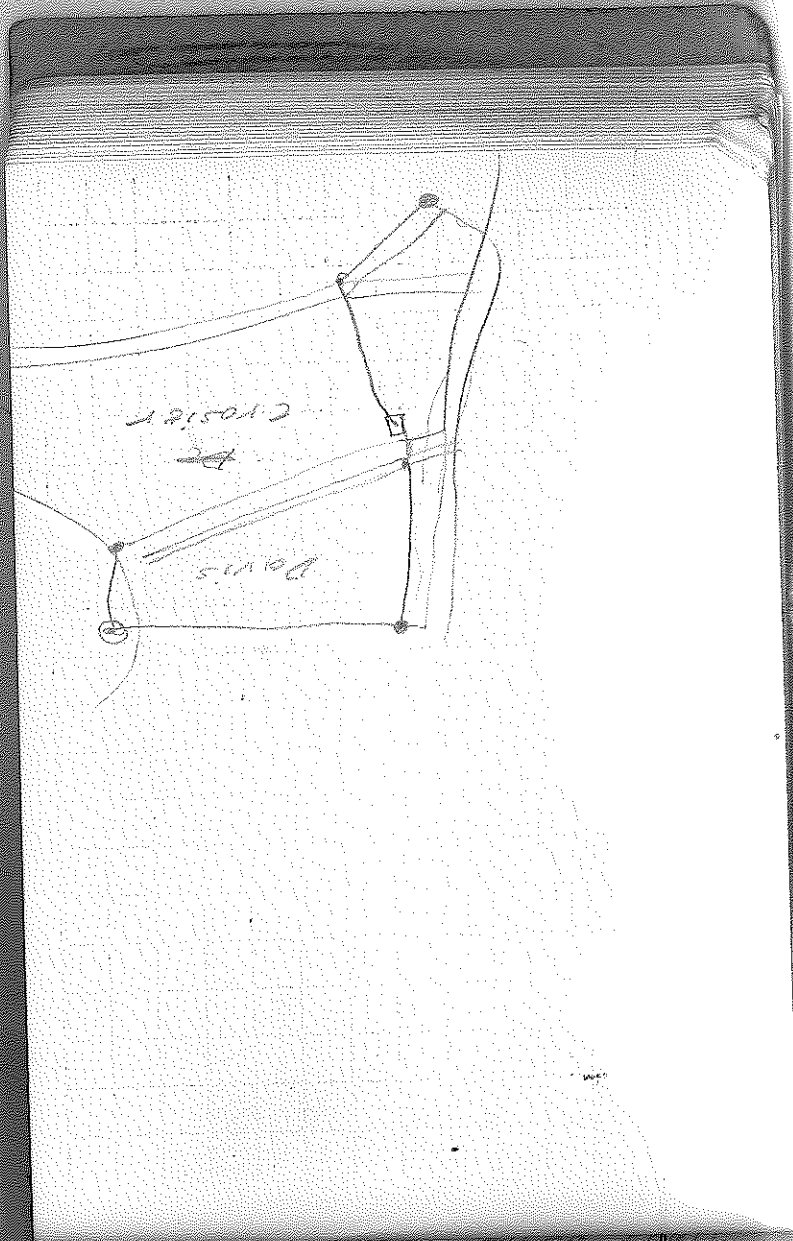
Hem. - Hdwd.

Hdwd. - Hem.

Pine - Hdwd. - Hem.

Hem. - Pine - Hdwd.

Hem. - Hdwd. - Pine



PICTURES TAKEN

from Chestnutfield Road + North
Round Pond. Husley + Brantley
May 7, 1937

	Subject	Locality	Date	Notes by
✓ No. 1 & 2	Pure Hedys. H. M.			
	with Beach undergrowth			
✓ No. 3 & 4	Hedys. ^{Large} Red Oak in			
	foreground, H. M. Chest, Beech			
✓ No. 5 & 6	Hedys. - Paper Birch			
	Beech & Birch			
	3, 4, 5 & 6. Line is plotted due			
	just to south of N. Round Pond			
✓ No. 7	Quercus			
✓ No. 8	Hemlock Hedys. in			
	N.E. slope			
✓ No. 9 & 10	Hem. chest, B) Birch			
	of Beech. in draw			
	over			

N. E. from corner of R. Ford. Co.
Fire in henlock stand.
In fall of 1929. stand
was fireily about 50%
chestnut.

Was a ground fire
which burned the litter and
entire organic layer
(down to mineral soil). Fire
burned about in patches
above the organic layer.
~~Very~~ thick, leaving the
~~litter~~ thin litter and
layer on top of which
survived. Fire was of
interest about the base
of a few small henlocks
of which (5-10")
where organic layer was
deep. Practically all
the dead chestnuts to
deep surface were
gone in the a large
part of the stand.

...

layers on top of which
buried. One was in
interior about the base
of a few small hemlock
where organic layer was
deep. Practically all
the dead shrubs had
deep "capture scars".

Look in the a large
piece of the bark

(white) they are killed
after the other species
and the bark is
organic layer
the piece is about
6" thick

No. 4 - young 6" Hemlock
Having entire organic
layer buried away from its
trunk.

No. 5 - 1 of rest of
No. 12 - 5 ft. or more buried
area where large organic
layer was buried in
spring soil & mineral
soil

Subject, _____
Locality, _____

Date, _____
Notes by _____

Notebook II; Pack II

Thomas Lotti's notebook containing the notes taken on the cruising of areas, and a description of these areas. But many pages are missing.

U. S. DEPARTMENT OF AGRICULTURE.

FORM 15.

FIELD DIARY
AND
TRAVEL RECORD.

Mr. *Thomas L. ...*

...
(Official title.)

Period, *Aug 16* to *...*

NOTICE.

This book is Government property. The finder is requested to mail it to the SECRETARY, DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C., or deliver it to the official whose name appears above. A detachable addressed frank will be found on the last page; by tying this on the cover the book may be mailed without postage or wrapping if fastened shut.

8-3681

INSTRUCTIONS.

Every officer or other employee of the Department of Agriculture conducting work while traveling will, so far as practicable, keep a diary in which will be recorded, under an appropriate date entry, a concise statement of all important matters pertaining to such work and also of any general matters that may be of interest to the Department.

This diary will be retained by the official preparing same, but will be subject to call by the administrative officers of the Department at any time.

When this book is filled another may be secured by application to the Chief of your Bureau.

8-3681

Hyle 1929.
W. M. J. J. J.
Secretary of Agriculture.

From _____ to _____

Street car fare—

From _____ to _____

Miscellaneous:

Consequently it survived
both fires.

A fire-scarred beech, further
down slope also shows evidence
of a fire 50 yrs ago.

Traverse of Psgah Res.
 from Dead Man's Pt. South
 along West shore — (True
 Bearing)

S 33 E	100	✓	50' inshore
S 60 E	300	✓	" "
S 9 W	100	✓	" "
S 10 E	100	✓	" "
S 24 E	200	✓	" "
S 11 W	300	✓	" "
S 63 E	100	✓	" "
S 32 E	100	✓	Point 200' NE Island off pt. 100' SW
S 3 W	200	✓	Point 200' East
S 5 W	300	✓	" "
S 30 W	100	✓	Chopped w/ stump 022 growth?
S 11 W	200	✓	50' inshore
S 11 E	100	✓	" "
S 33 E	100	✓	" "
S 10 E	354	✓	Across bay
S 89 E	477	✓	" "
S 47 E	177	✓	cove 100' S.W. at 100'
S 60 E	177	✓	50' from shore

S 7 E	177	✓	75' from shore
S 10 E	177	✓	60'
S 17 E	177	✓	50'
S 8 W	177	✓	50'
S 18 W	177	✓	Brq. taken from pl on shore
S 64 W	177	✓	Cove 75' NW at 150 on shore
S 32 W	177	✓	25' from shore
S 18 W	177	✓	on shore
S 14 E	177	✓	"
S 3 E	177		To Wind Hill
S 76 E	140		To End Dan
(Rope = 177')			

4/29/30

Ohio, near, Lott, Branch, Daley.

East slope above Round Pond
Pisgah Reservoir. Slope 30%

Present type - transition hdwd

Ches, P. Birch, Beech, B. Birch,
R. Maple, H. Maple, averaged,
sprout origin in part. Multiple
stems indicating large stools.

Probably burned after
logging. Stumps ^{cut} (50+ yrs
old) found. Previous stand

Hem-Hdwd-W.Pine. Pines
few scattered. Site protected
from W. wind. Plenty of light
enters stand.

Adjoining previous stand on North
& apparently same type
stand which was cut over in above
case. Comp. Hem-Hdwd-Pine
old growth. Many dead, standing.
Some lightning injury, thereby

stimulating advance growth.
 Evidence of fire 62 yrs ago.
 Death of older trees bringing
 in a new generation. Start
 near top of ridge but still
 on East slope. In spots at good
 soil openings + seed trees
 no pine advance growth found
 except on ridge top. Pine seedlings
 3" high, rooted in duff, found
 near ridge top. These are 5-9 yrs
 old.

✓
 Hollow or
 Protected draw on W. slope of
 same ridge. Now 2nd gr. bluffs.
 P.O. Ches. Birch
 Groups found = Hemlock W Pine
 Fairly moist soil. (Shutcut from
 Rd. Pond to Dearmouse shortly)
 Pres. stand Wash, Maple (H+R)
 P.B. Ches. evenaged, 60 yrs +
 Fire evidence found.

History of Winchester

The first saw mill
was erected by
Colonel Willard in
the year 1734

The Squabacho Indians
were known to set
frequent fires in certain
portions of their domain
to keep down the
underbrush for
cultivable fields. These
were generally set in
the fall after the
leaves and seeds
had fallen and in
this was not only
the smaller trees
were destroyed but
the larger ones were
sooner or later destroyed

Thus they kept large
areas treeless for the
purpose of cultivation.

All white and other pine
trees fit for marketing
the Royal navy and
may be preserved from
that use and none
to be cut without
special license from
his majesty.

↑ ↑
(History of Chenine & Sullivan Co
Edited by D. Hamilton
Hurd

How did pine originate?
Soil conditions

Biotic factors

How a hemlock age?

Glaciers - as the
glaciers started pine?

Succession - Firgin stands?

Pine - Hemlock - Alder?

Studies in outcrop areas
reg'd. Ring counts

Depth of organic
layer on forest floor?

Climate type made
up of small groups
of different stages of
succession?

365
- 15
350

17.07

2.50

1.50

50

50

48.57

42.50

40-
9 1350

91.07

16.00

107.07

42.50

149.57