



Hunt Institute for Botanical Documentation  
5th Floor, Hunt Library  
Carnegie Mellon University  
4909 Frew Street  
Pittsburgh, PA 15213-3890  
Contact: Archives  
Telephone: 412-268-2434  
Email: [huntinst@andrew.cmu.edu](mailto:huntinst@andrew.cmu.edu)  
Web site: [www.huntbotanical.org](http://www.huntbotanical.org)

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*About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

1943 - 9  
(Sept)

Memorandum



22

E. LUCY BRAUN  
2702 MAY ST  
CINCINNATI, O.

- Sept. 18. Cin. - Lisbon, O.  
" 19. Lisbon - Salem - Canfield  
New Castle - Cooksburg  
" 20 Cook Forest - Longfellow +  
Joyce Kilmer Trail  
21. Cook Forest - Ridge Trail  
Deer Park trail, Seneca  
trail to Seneca Pt.;  
Mohawk trail to Rt 36,  
Hemlock trail, Birch Tr.  
" 22 Longfellow trail →  
To Rhod. Trail - Rhod. Tr -  
Indian Trail - J.K. trail -  
cut over to Bridle trail



Sept. 18, 43

Civ. to - Lisbon (22; 21.8, 80)

Salina - oak & oak-hick <sup>30</sup>

Jasper Mills " "

to Wash. Ct. h. "

To Circleville

at east edge of Circleville  
lots of *D. maple* with the  
oaks & hickory.

East of Circleville, becomes  
very strongly moraine-  
oaks & hickories & some  
blue ash app. mostly  
*C. ovata*

About 6 mi. w. of Lavender  
very hilly moraine-oak  
Then some rock up. in cuts  
(app. moraine ~~more~~ or less  
battered up against  
rock hills) Here, beech

appears with the oak  
(5 mi. w. of Lane.)  
Hills now of diff.  
aspect, all with rock,  
& mostly wooded  
more kind of trees  
incl. tulip, Nyssa,  
red elm, Sh. elm  
s. maple, beech, oaks

Did not notice any  
diff. bet. glaciated section  
east of Lancaster, &  
ungl. farther east.

One high morainal  
hill (perhaps at boundary)  
has oak woods.

At Moxa - Park, a  
hillside w. oak, tulip  
& Nyssa.

But in general, more

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places with sugar maple,  
& some with beech (some  
of very large)

on US 21, n. of Leeburg  
very hilly  
a ~~maple~~ maple woods  
beech, tulip, sugar m.  
red oak, white oak, ash  
hickory, elm,  
hickory, red maple.

Before New Phils -  
so much tulip repr  
on hills that it is  
unlikely that woods  
was orig. oak. Must  
secondary oak & in  
places, some

Oaks abundant in all  
the secondary slope woods



Sept. 19  
Lisbon -

Half way bet. Lisbon + Salem  
both sides of Little Bear  
Cr. ~~woods~~ much dissected  
steep slopes with bed rock  
exposed. Beech, sugar  
maple, tulip, red oak  
wh. oak, walnut,  
cucumber, dogwood.

The general upland more  
rolling + a high ridge  
in cuts. Beech, sugar  
maple, wh. oak, tulip  
wild cherry, elm

Rolling upland, N. of Salem <sup>on 62</sup>  
red maple, sugar maple  
nyssa, wh. oak

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Woods on both sides  
of US 62 - 3.4 mi. S. of Can-  
field: -

beech (1) (Lisbon beech)  
s. maple 11  
red maple 11 } see  
wh. oak } next page  
nyssa 1

Quantities of small maple  
like some of N. woods  
wh. ash wh. oak  
dogwood Prunus serotina  
beech Prachia  
nyssa Rubus occ.  
wh. elm Phragmites  
Ostrya bird  
tulip - small, Epifagus  
around outcrop  
red oak

		###
beech	### ### ### ###	### ### ### ###
	### ### ### ### ### ### ### ### ### ###	### ### ### ### ### ###
s maple	### ### ###	### ### ###
	### ### ### ### ###	###
red maple	### ###	
wh oak	### ###	
red oak		*
nyssa	###	
tulip		
wh oak stump	### ###	
wh ash		
cucumber		
Ostrya		
Carya cord		

duffy humus layer

#

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Galium conc  
 Pelca Polygon: trifl  
 Arisaema fl  
 Asp. n. b. Senecio obt  
 Podophyllum peltatum  
 Anemone nemorosa  
 Carex sp. spec  
 Impatiens trifl  
 Polypogon monspeliensis  
 p. m. Sambucus can  
 Botrych obt Aralarac.  
 Aspl. off Solid. caesa  
 Slip. lanug  
 Soil on upturn roots  
 pale, much the usual  
 old till

On slopes of creek - a  
 basswood & pers red oak  
 Knot overlooking creek, mossy &  
 long wh oak



Other side of rd -  
no fence: -

Disporum lanug  
Aralia rac  
Urtica  
Smilacina Arisaema  
Epipogon Sanguinaria  
Cereus Golden of  
Cimicifuga " conc  
Saxifraga " cre  
Botrych vrb  
Solidago sae  
Psedera Every. obs

Tree billy - mud  
burned on  
brown soil

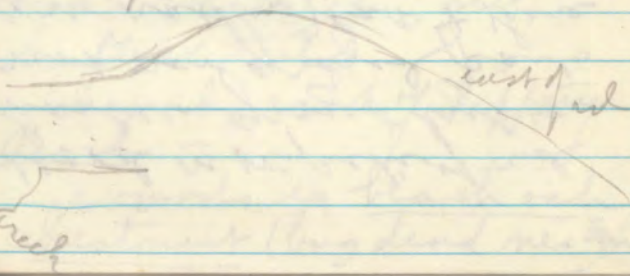
Umb. perf Lappula  
Caulophyllum

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Brola rostrata Celastus  
Aristolochia serp  
Pilea Polyp. vrb  
Eup. urtic Geneseng  
P. vrb Asp. n. d.  
Amphicarp  
Phlox Brola pallens?  
Trollium cern.

More has been cut out  
on this side, but  
woods was  
beech

a maple  
or cherry  
currant (much repr)  
tulip } in more open parts





Wood on w. side of rd  
has been grazed but is  
not now grazed parts  
are rather flat & there  
are wet places with  
much Polyp. sag., Imp  
bifl + Dryg but h. c. g.

East of rd, not few  
moist places, & much  
humus.

Wood looks same  
on both sides - etc. Has  
lots of small o.m. on  
west side (perhaps in  
part because of grazing  
& the more recent (not  
very recent) cutting out  
of oak oak

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Cont. in auto on highway  
62 to Canfield; east on  
224 to New Castle, Pa.  
108 thru Slippery Rock  
+

a few hemlocks in Pa  
w. of Newcastle, on slope  
of a creek.

Sort of flat to rolling  
(to Slippery Rock) + lots  
of Spiraea in cleared  
places.

More oak than in  
Canfield. Some ridges  
(low & round) are mostly  
oak - black oak, with  
scattered tulip

Lunch, east of Slippery  
Rock -

woods is black oak  
chestnut (big dead ones)

some sprouts) wh oak red maple  
wh ash, cherry dogwood  
lily, hickory (orata) -  
wh Elm  
Nabalus ~~sp~~ alt  
Eup vertic. Smilacina  
Solid caesia, rug.  
piny  
Cornus pan  
Vitis vulp  
~~Hamamelis~~  
Aspl ff  
C. macul  
~~Cornus~~  
Hamamelis  
Sambucus can  
Crataegus of  
choke cherry  
Arauca  
Amphicarp  
Psidium

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This begins to look like  
some of the app. Plat veg

Then, about Harpersville,  
esp on 338, 3rd growth  
woods (oak, red maple, etc)  
has lots of allegh. things  
along banks

Coming down hill  
to Allegh R. at Foxburg,  
much hemlock + Birch  
+ Tamar on bank. Bet tent  
Up hill on other side,  
no hemlock -

Over hilly top +  
down into a creek at  
pt 338 + 378. Much  
hemlock.

White pine much  
hemlock + other things



Sept 20

Cook Forest - Longfellow tr

- Joyce Kilmer trail

*Oralis mont.* *Hemania*

*Macarita*

*Waldsteinia*

*Cypracaule*

*Asp. sp.*

*Muehlenbergia*

*Aralia nudicaulis* (not much)

*Viola papilionacea*

*Aster acuminatus* (?)

Hemlock - *Betula lutea*

lutea - red maple

A hemlock - Rhod. area

*Viola*

*Taraxacum*

*Kalmia*

*Amel. can.*

*Ilex mont.*

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Secondary areas of

hemlock

wh. pine

*Betula lutea*

wh. oak

pin. cherry

*Amel.*

*Rhod.*

red raspb.

*Hemania*

*Antennaria* (neglects?)

*Aster pre.*

*Aralia nudicaulis*

*Polygonum*

*Populus grand.*

beech - occ. little

*Sassafras*

*Epigaea*

*Hydrangea*

grove of very tall  
Wh. pine & but  
open, because trees  
cut out

dense undergrowth of  
10 ft. hemlock of Rhodj  
pin cherry  
birch  
Aralia sp  
Osm. clust  
Aspl fl

Above 1st trail jet -  
(labeled to Big Pine)

Wh. pine-hemlock forest,  
with: -

A great deal of hemlock  
refers to lots of  
round size hemlock  
& small O. beech  
hemlock

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beech Decid. Quercus

red oak

red maple

Chestnut

Betula lenta

Ground cover (open) by

Asp. spec

lye luc Polyst. acrosp

Nola

Streptopus

Clematis

Viburnum alnif

Collinsonia

Lupinus

Oxalis mont

Maianth

Ail. acerif

Lonicera can

Nola palud

Arisaema gl

Locally, in a  
crevasse - labeled



"Forest Collected"

Wh. pine-hemlock

without the hemlock  
layer, + with, instead,  
beech  
birch, +  
hemlock  
red maple

Wh pine circ. 8 1/2 ft

9 ft

9 ft

Asp spruce

Manzanita

Archa nude

Streptopus

Tremula

Coptis

Clintonia

Manzanita

Brachyotum

Mitchella

7 ft  
14 ft

40  
8 in diam wh pine

about 10 in. gone in center  
then 73 yrs of fast growth  
+ about 180 yrs very slow

21 in. hemlock

24 2 yrs.

A few middle size beech  
with wh pine + hemlock  
Some larger than middle  
size beech - 4 1/2 ft circ

Hemlock - 10 ft

Trollium undulatum  
Medeola

White oak - 4 1/2 ft

In some places - cont.  
fern cover  
Epiphytes

big red maple, 7 1/2 ft

Then (on Joyce Kilmer trail)  
① more + larger beech

hemlock				
wh pine				

beech				
-------	--	--	--	--

red maple				
-----------	--	--	--	--

Betula lenta				
--------------	--	--	--	--

wh oak				
--------	--	--	--	--

red oak				
---------	--	--	--	--

cherry				
--------	--	--	--	--

(This count before at jct of  
J.K. tr. + Rhoad trail)

Lower layer of hemlock  
beech, birch

Asp. spec Hummer

asp. vb. Dove

Cooper's

Macaulay

Mitchell

Osm. com

Chrysophanum in a damp  
place with Osm. + Hypo

Then an area of more  
hemlock + few wh. pine,  
w occ. red maple  
wh oak, beech



Then, higher, some  
 stumps, but still  
 some big hemlock  
 but more middle size  
 trees of  
 hemlock  
 birch  
 red maple

(2) Then a mixed area

hemlock	###	###	###	###	###	###	###
birch	###	###	###	###	###	###	###
wh oak	###	###	###	###	###	###	###
chestnut (dead)	###	###	###	###	###	###	###
cherry	###	###	###	###	###	###	###
wh pine	###	###	###	###	###	###	###
red maple	###	###	###	###	###	###	###
birch, lanta	###	###	###	###	###	###	###
cucumber	###	###	###	###	###	###	###

(just before jet. or Indian  
 Savail)

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asp. spen

Lyc luc

Viola hirsuta

Mitchell

Polypodium on rocks

Probably the large amt of  
 dead chestnut accounts  
 for quantity of hemlock  
 kept

Dead chestnut - 12ft core

An area which was  
 chestnut-hemlock  
 w. some wh pine,  
 wh oak, red maple

High flattish place,  
 with old iron fall line  
 is mostly middle  
 size wh pine & hemlock

Then, past windfall  
 area - large  
 hemlock  
 chestnut  
 beech  
 red maple  
 wh. pine  
 wh. oak      large obs

Lots of middle size  
 hemlock, beech

③ A flat area lower  
 down than trail (where  
 trail turns back using from  
 Indian Spring: -

hemlock							
wh. pine							
wh. oak							
red oak							
red maple							
Betula lenta							
chestnut							
cherry							
beech							

Mix of hemlock-hardwood  
 (mostly beech) type

vit. alnif      Asp. spec.  
 Kalmia (not used)      marianth  
 vit. acerif      Quercus  
 Rhod. (not used)      Cercocarpus alpinum  
 monarda      Trillium  
 Hamamelis      Mitchellia  
 Trillium umb.      Medicago



④ In Henry's Run  
not far up from private  
property - a small  
area mostly beech  
beech |||| | ||||

wh pine ||  
red oak |  
hemlock |||| ||  
red maple ||  
wh oak |  
chestnut ||  
trunk lots of little hemlock

Sections on display  
White pine,  
36 in D - 217 yrs  
more rapid growth to  
3/4 of way out

Hemlock; -

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40 in. (asymmetric) D  
177 yrs

Fairly even growth  
all thru, & much  
more per yr than  
ones I looked at

Chestnut

38 in. D

189 yrs

very slow at first  
then rapid

On "Big Pine" trail, that  
angle off of Longfellow  
trail - the big wh pine  
is 12 ft circ. A W Penn pine

A small cucumber tree near  
the W Penn pine

Trail from Wm Penn tree  
 down ravine (not on map)  
 Lots of Rhod. low.  
 Betula lutea low in  
 ravine, some Dicksonia  
 w. Rhod

Sept 21.

Ridge trail:

At ft of slope of  
 rd to Jun.

Lots of Acer spicatum  
 w. Rhod at edge of  
 woods + young hemlock

⑤ Woods here is  
 hemlock ||||| ||||  
 y. birch || || ||  
 Red maple || ||

Asp n b, + spin  
 Sapota Coptis  
 C. alba C. rot  
 Tearell  
 Oxalis mont  
 Aresoma sp.  
 Scintalis  
 M. m.



A little higher the  
 changes to y. birch  
 drops out B lutea  
 enters; also cherry  
Hemlock dominant

more asp spec  
 Cercera lutea  
 eye luc  
 Aser spec

(6)

Hemlock	###	####		###	###	###	###	###	###
<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>	<del>###</del>
B. lutea				###	###	###	###	###	###
Cherry	###	###		###	###	###	###	###	###
B. lutea									
beech									
red maple									
B. lutea	(###	###	###	###	###	###	###	###	###

3<sup>rd</sup> layer - much hemlock  
 also more B lutea, oxbeech  
 all the small plants  
 of list of H-y birch,  
 except Fiarella. also  
 Streptopus

of the above list, hemlock  
 biggest  
 trees 7" middle size  
 class/eye, hemlock  
 very tall, reaching  
 canopy

(7) Changing upward to  
 more mixed forest  
 with -

hemlock ###  
 white pine |||  
 red maple |  
 beech ||  
 cherry |

Then chestnut centers  
 & in spots, etc.  
 hemlock-white pine-chest  
 & white oak & red maple

The large amt of  
 dead chestnut has  
 released the little  
 hemlock & results  
 in a hemlock layer  
 dense enough to  
 about exclude lower  
 veg

Coming up on top  
 looks sundary because

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of dead chestnut &  
 lot of small hemlock  
 with lower branches shade  
 killed; More middle  
 size beech.

④ Then flat & slightly  
 sloping westward.

Big trees are  
 hemlock  
 white oak red maple  
 beech  
 chestnut (not as much)  
 (hemlock & beech in all  
 size classes)

④ Almost no ground veg.

hemlock	###	###	###	###	###	###	###	###
###								
beech	###	###	###		###	###	###	###
chestnut								
red maple	###	###			###			
white oak	###							(over)



wh pine 1

ground veg - occ. *Mitella*,  
a few stems of *Gaultheria*  
*Epifagus*

This area was dist,  
but shows trends

This type cont. N of  
camp grounds - with  
wh oak locally dom,  
then more beech; always  
hemlock; some wh pine  
some cherry about 10-12 in.  
dbh.

Highway bet. Fire Tower  
and Deer Park trail -  
2nd growth wh. pine,  
wh. oak, red maple 6-8 in  
not much hem -

- Epif. compl. + clav*
- Ant. neglecta*
- Epigae*
- Mitella*
- Rubus hisp*
- Compton*
- Solidago bicolor*
- Gaultheria*
- Aster macro*

Deer Park Trail

Starts up steep N slope  
from Highway -

Here hemlock dom,  
with some beech, wh. oak,  
nyssa, red maple

- A little higher, a few  
montana *Con flod*
- wh pine *red oak*
- Chestnut
- hemlock
- Psittula leuca* (very large)
- wh oak





Small hemlock down  
gr. come <sup>very</sup> sparse: -  
Asp spr Rhodod  
Mush  
Mush  
Mush  
app sub  
Terning  
Cyanus alpinus  
Lign luc

Cross Mohawk trail

Young 2nd growth of  
DuRoi  
red maple Du velvet  
Q. cocca wh pine  
hemlock Sassa  
Chestnut 10 ft spruce  
from small clumps  
wh oak Rhodod  
red oak

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Kalmia Epigae  
Pogonia vert Gabbler  
Trib. and among Rhod

Becomes rocky & or  
wh. sand -  
Rhod + Kalmia thick  
Gayl a few patch pine  
Arizlex  
th

Seneca Pt.

Pottsville s. s. cliffs.  
overlooking Clarion R.  
Slopes almost everywhere  
appear to be almost entirely  
hardwood but 2000 ft.  
Hemlock in river  
South slope appears to  
have much oak  
Does not come back anywhere  
line very

2nd growth tops cut  
 locally ch. oak down.  
 Then - wh. oak down &  
 r. at some white pine  
 considerable hemlock  
 starting in 2nd growth  
 oak

Then, with no change  
 of terrain, & N. of  
 River trail, rd. enters  
 uncut forest of the  
 type cited -

with hemlock, wh. oak,  
 red maple, red oak,  
 wh. pine, & mountain

This part of flat is  
 farther from margin  
 & is flat.

⑩ Mohawk trail:

hemlock			
wh. oak			
red maple			
Chestnut			
wh. pine			
beech			
cucumber			
Betula			
Under-			
growth			
hemlock			
beech			
dogwood			



Where the most dead  
chestnut - the densest  
3rd layer + smaller  
hemlock. Where few  
chestnut, generally  
more other big dead  
& more little dead  
Locally, big hemlock  
dominant, & again,  
more dead.

A little further along  
than where counted -  
a big cherry + a big ~~cedar~~  
A recent track or  
logging rd - water in  
ruts. Is all of it  
poor just under  
Almost no ground  
cover

Wh oak { 6 ft 9  
          { 7 ft 3 in circ  
bech     6 ft 6

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Hemlock 10 1/2 ft

Area counted on Mohawk  
trail is essentially flat  
and on top of plateau.

Birch Trail along Tom's  
Run -

Flats of creek are hemlock -  
y birch; in places mostly  
by birch but not large  
This also on lower slope,  
then ~~mostly~~ some Bet lanta  
Dense Rhododendron there both

Sept 22

On "To Rhododendron Trail  
above Longfellow Trail at  
"Forest Cathedral" sign  
a place where several  
trees blow over.

The big standing trees  
are white pine hemlock &  
a beech. In the open  
place prod. by windfall  
a grove of little beech  
10-25 ft tall. This  
little beech area extends  
well beyond the windfall  
opening into ady forest  
as far as light goes.

Farther in, away  
from windfall opening,  
more little hemlock trees  
the little beech

Root systems of

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upturned trees spread  
out flat & shallow

(11)

wh pine					
hemlock					
beech					

red oak 1

Bet. leula

|||

In the 3rd layer, no  
wh. pine; beech dom.  
hemlock abundant  
asp sprig } flat mount  
maianth } Lonicera  
Dyaleis }  
Mullein }  
Epipogon }  
Rudbeckia }  
Viola sp. }  
Tremula }

Little -  
beech  
birch  
red oak  
red maple  
hemlock



Immediately ady -  
 (12) add: - slightly more  
 ripe: -

hemlock ||||| ||||| ||||| ||||| |||||

wh pine ||||| ||||| ||||| |

beech ||||| ||||| |||||

wh oak |||||

red maple |||||

Bet lenta || ||||| ||

3rd layer - hemlock,  
beech, birch

Flat at jet yr.  
 Rhododendron trail:-  
 more large beech.

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1 set jet & rd. - much  
 other things cut out  
 an old wh pine stump,  
 & against it a recently  
 cut chestnut stump, 50 yrs  
 old & 30 in D.

White pine cut out  
 about 60 yrs ago, &  
 then the chestnut grew  
 up

Beech about 35 in circ  
 Hemlock 25-

In this area are  
 (beech 2 in. D. 24 rings)  
 big beech, hemlock,  
 red maple

An ancient part of this:-

cherry ||||| ||||| ||||| ||||| |||||  
 beech ||||| ||||| ||||| ||||| |||||  
 chestnut ||||| ||||| ||||| ||||| |||||  
 hemlock ||||| ||||| ||||| ||||| |||||  
 red oak ||||| ||||| ||||| ||||| |||||  
 wh pine stumps ||||| ||||| ||||| ||||| |||||

(13) Count on Rhod. Trail of at set of

beech	####	####
hemlock	### 1	///
chestnut	///	### ///
wh pine stumps	####	
red oak		1
cherry		
red maple		###
But linta		1
wh oak	1	

3rd layer, much hemlock etc

now comes nearer slope & less beech

then no beech & mostly hemlock w some red maple, & wh pine stumps

Indian Trail from

(14) Rhod. trail, south. Flat: -

hemlock	####	22	####
beech	####	9	####
chestnut	###	7	###
red maple	###	5	
But linta			
cucumber	1		
cherry	1		### 1
wh pine stumps	####	5	
red oak	1		
wh oak			

~~3rd layer + stump  
much beech  
hemlock  
wh oak~~



Local, a dead chestnut  
 area growing up in field  
 darryl, red maple, beech  
 Great blocks of ss.  
 15 ft high.

Joyce Kelmer trail  
 through Indian Spring  
 Part of this seems  
 to be on top, & here  
 very many large  
 dead chestnuts

Below Indian Spring  
 Cross to Bridle Trail.  
 red oak, 11 ft 8 in

Across Henry run -  
 wh pine 10 ft 4 in  
 11 ft 5  
 12 ft 9 in.

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Slope that big wh. pines  
 are on is S-SW & very  
 warm. Lots of oaks &  
 some very big hemlock.  
 A small 2nd growth area is  
 red oak & wh. oak mostly

Upward, much chestnut  
 & here lots of 8-10 in wh oak  
 Bet lents

(15) Below chestnut zone -  
 wh. pine ||| |||

Hemlock ||| ||| ||| |||

wh oak ||| ||| ||| |||

Bet lents | ||| ||

chestnut ||| ||| |||

beech ||| |||

red oak ||| |||

maple |

3rd layer or mud beech  
 hemlock, birch, wh oak

This abruptly gives way  
to a young 2nd growth  
stand of

wh oak

red oak  
red maple  
chestnut

beech (small part under  
the little oak); alder (small part)  
with mossy spots, &  
gaultheria, Kalmia  
occ. 1 ft wh. pine

(16) East ~~south~~ gentle  
slope, (opp) + creek flat

55	hemlock							
	beech							
	red oak							
	red maple							

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16	wh oak						
10	wh pine						
8	Betula						
16	chestnut						
	S. Maple	1					(The only one seen)
	cherry						

3rd layer of birch,  
beech, hemlock &  
(in the place) S. maple!

Hamamelis  
Cornus alba  
Asp. fern  
Viburnum  
Maianthemum  
Saxifraga  
Hickory  
Eye-bird  
Nysa

The above count from  
top of trunk to  
to crown of  
trunk + crown



This continues on up  
the valley

Then at second growth  
area on same sort  
of site, is <sup>biggest</sup>  
cherry - tallest + a little  
Bet. lentic dogwood  
red maple  
beech  
red oak

(17) At sharp turn in  
Bridle Trail, south,  
much beech.  
Here flattish w. indef-  
inable streams

beech	###	###	###	###	###	###	###	###	###
hemlock	###	###	###	###	###	###	###	###	###
red maple	###	###	###	###	###	###	###	###	###
white pine	###	###	###	###	###	###	###	###	###
chestnut	###	###	###	###	###	###	###	###	###
white oak	###	###	###	###	###	###	###	###	###
Bet. lentic	###	###	###	###	###	###	###	###	###
cherry	###	###	###	###	###	###	###	###	###

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red maple ### ## ||  
white pine stumps ### ## ## |  
chestnut | ###  
white oak ||  
Bet. lentic |  
cherry |

In this area, beech very  
large, up to 9 ft. etc.  
also some of the red maple  
very large.  
Area ~~to~~ <sup>shaded</sup> dominated  
of beech.

North of sharp turn  
in Bridle Trail  
a lot of red gr. cherry  
etc.

Cross from angle of Bridle  
trail to jet of Rhod. Tr.  
+ To Longfellow trail

Reverside Drive -

a few small *Tilia*  
beh rd + river - river  
lots of red oak  
Hemlock

Betula lenta & picea  
wh pine Alder  
Ruscus Rubus odor  
Butternut Rhodod  
red maple  
wh ash

Up on bluff -  
hemlock  
red oak Rhod  
*Tilia* Acer penn  
Rubus odor  
Hydrangea

Below rd, cont  
cherry Vitis  
Acer penn Aster divar

*Osmunda* + *Oxalis* along  
river Joe pye . etc