



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)

The Hunt Institute is committed to making its collections accessible for research. We are pleased to offer this digitized version of an item from our Archives.

*Usage guidelines*

We have provided this low-resolution, digitized version for research purposes. To inquire about publishing any images from this item, please contact the Institute.

*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.



# MEMORANDUM BOOK

Digitized by Hunt Institute for Botanical Documentation

N.C.

VA.

R-210-Open Side  
R-211-Open End

(6)

m cards

E. LUCY BRAUN  
2702 MAY ST  
CINCINNATI

Dec. Forest: OHIO

N.C., VA.

July 28. Durham, N.C. to  
Roanoke, Va. - Duke Forest

July 29 Roanoke, to  
Wattsline at Nat. Br.

July 30. Geo. Wash. Nat. F  
& Douthat State Park  
near Clifton Forge

July 31 - Lexington, Goshen Pass  
Warm Spr., Hot Spr., Callahan,  
on U.S. 604, returns to Nat Br

Aug 1 Natural Bridge &  
Endless Curves to Ruray

Aug 2. Skyline Drive  
& White Dale Canyon





Under:

dogwood	Vitis rot
2 maple	Lycnia?
red maple	Chironomus
Carya (glabra)	Vib. dentata
hickory	" prunif
ash	" purif. (stent)
oak	" rubra
Carpinus	" acerif
Tulip	Vac vac
D. stellata	Rosa sp
bl. oak	Oxalis sp
Syringa	Rhus toy
Asplenium	Crab. sp
Pseuder	Amel
Panicum lat	
Arist. serf	
Senecio pumili?	
Hesperis	
Blasyst. pubescens + ent. to pennat	

Digitized by Hunt Institute for Botanical Documentation

Good leaf mold  
red soil below

Lespedeza repens + spp  
 Ascyrum hyp  
 Salix lyrata  
 Eup. serf  
 Cunila  
 Hesperis (near path)  
 Chamaepitula  
 Parthenium



Ravine slopes (2) adj. to stave.

	###	###	###		55
wh oak	###	###	###	###	
<i>I. stellata</i>	###	###			10
<i>Carya alba</i>	###	###			10
stell x vel.					1
y pine	###	###			11
<i>Q. dig.</i>	###				6
sw gum	###				3
Camp gl	###				3
lot pine					1
bl oak					1
					<hr/> 101

A large amt of 2nd story bush  
add

- mulberry
- redbud
- Smil stellata*
- Hamamelis*

igitized by Hunt Institute for Botanical Documentation

- Eupacete*
- Besm nudif*
- Lepularea*
- Leptochus*
- red cedar

General top. - rolling  
no apparent diff  
in 2 dir. roads above

This was adj. to athletic field

(3)

Nearly opp trail 2

wh oak		15
Carya alba		2
f. pine		2
		<hr/> 19

(same as last area, rolling)

#7 trail, f (4)

Hills area

wh. oak		37
Q. stell		3
sw gum		1
bl oak		5
hysso		1
	<del>     </del>	
		<hr/> 47

Lots of mud signs bucking

igitized by Hunt Institute for Botanical Documentation

Under:	illegible
Carya alba	Her. sp
"	Vib. (dentata)
hysso	loc oak
Oxyd	Azalea
dogwood	Lup. sp
red maple	illegible
sw gum	Ser. aster
Amel	Hypoxis
red elm	Cornus major

Areas of pine woods also

also, mixed oak - pine (5)

wh oak		30
bl oak		5
pine		30
sw gum		
hick		
Q stell		
	2 dig 1	
		<hr/> 73



# Rolling (6)

wh oak		13
Q still		1
hick		4
pine		5
sw gum		1
Q dec.		1
bl oak		2
		<hr/>
		27

Two varieties of white oak  
 flaking bark + checkered  
 dogwood everywhere a  
 common understory tree

Digitized by Hunt Institute for Botanical Documentation

Add. herb plants noted  
 in area as a whole

Eup. rot.  
 Luchr. altern  
 Anem. rug.  
 Scut. integr.  
 Boehmeria  
 Hieracium amer  
 Sol. sp

Duke forest:

- ① 55 - rolling
  - ② 101 - ravine slopes.
  - ③ 19 - rolling
  - ④ 47 - rolling hill top
  - ⑤ 73 - oak pine
  - ⑥ 27 - rolling
- 322



On US 70 3.6 miles E of  
Hillsboro, (Orange Co., N.C.)  
ravine, meso up  
with:  
Beech  
Tulip  
white oak  
red maple  
dogwood  
Carpinus  
redbud

Different slope:  
white oak  
black oak very  
tulip large trees

Digitized by Herbarium Institute for Botanical Documentation

lot of tulip in second  
growth

On Rt. 14.

5 or 6 miles N. of  
Hillsboro good oak  
hick. like Duke's  
soil very red.

Area of lighter sandier  
soil all second growth  
just before Caswell Co.  
Planted on light soil,  
oak gum, white oak &  
then up to red &  
big oak trees & c.

Ravine slopes though  
light, are hardwood

# Hugo Creek  
at Lynch Cr. (only 4)

Tilia hetero  
sugar maple  
Carpinus  
red oak  
walnut  
tulip  
beech  
hickory

sail  
log  
red

after Jc. w. 158

more tulip  
beech  
sugar m.  
red oak  
ash  
tulip  
walnut

Digitized by Hunt Institute for Botanical Documentation

Cocumery Lane Cr.

Around Yanceyville  
P. virgin becomes prom-  
inent,

Paeopann starts on meso  
slopes 8 mi. S. of Danville

on US 58

West of Gosville  
quite hilly  
oak with beech in  
ravines  
tulip

grill country badly  
cut over

magn. tripetala  
6 mi. ~~SE~~ E of Mountain  
ville

sugar maple  
walnut at →

Henry Co.



Leatherwood Cr.  
hickory }  
oak } with beech  
tulip }  
P. m. }  
red maple }  
ash }

In place almost  
beech-wh. oak type

~~Martinsville~~

at Franklin Co.

Q. montana becomes  
prom. on hilltops  
~~no Q. stellata not much stellata~~

Kalmia on chestnut  
oak slope

Chestnut also comes in  
Slopes have large  
oak-wh. oak - oak oak

Digitized by Hunt Institute for Botanical Documentation

cross Big Chestnut Cr.  
Lots of 20 growth tulip  
white pine present

Go thru Big Gap on  
Grassy Mt. & down into  
valley again

Aspect from before  
Martinsville is such  
as to suggest overlap  
of the sp. into oak-  
hickory of Piedmont,  
assuming a  
beech-white oak-tulip  
++ in places

+ oak-chestnut contact  
at Franklin Co

July 30

on Rt. 11, 6 miles S. of  
Lexington in Buffalo Co.  
mixed meso w.

*Sclera hetero*

red oak

wh. oak

hick

walnut

sugar maple

yellow

beech

Digitized by Hunt Institute for Botanical Documentation

appears to be more wh. oak  
than usual in m.m.

---

going up Creek mi. of  
Lexington on US 60  
remnants of M.M.

sugar m.

Tilia

beech

wh. oak

limb  
outcrop

In gap bet. 2 creeks,  
about 6 mi. N. of  
Lex. on 60.

a grove of very large  
wh. oak, hickory, chest-

in valley



not oak. (Just before  
Kears Cr. limestone  
outcrops on slope

an isolated whitewash

~~Sets of~~ M.M. slope  
of Kears Cr.  
Tilia

R. m.  
beech  
wh oak

a little higher on  
slopes: oak - chestnut

Digitized by Hunt Institute for Botanical Documentation

Open places on  
limestone slopes just  
monarda & reds  
none of usual "penetrum"  
perphils; occ. orange milkweed

Another typical M.M.  
lower slope  
wh oak

red oak  
Tilia hetera  
beech  
R. m.  
tulip  
walnut

6 mi. beyond  
(west of) Kears Cr.

hemlock begins

crossing north Mt.  
elev. of pass 2200

summit (at pass)

chest oak

chest

+

with an ericaceum

undergrowth

scarlet oak

pine

*Conocarpus*  
*major*

---

getting into a little valley

slight indication of

N N in general direction

---

enter Allegheny Co.

at crest of a ridge

(seems higher than North Mt.)

Myrica present

Digitized by Hunt Institute for Botanical Documentation

cop of white pine &

hemlock in valley

white oak } moderate size  
tulip } oak peckham  
} in water

nothing as big as the  
hemlock, the rhodod. that was  
went with it, is gone.  
Rhododendron <sup>max.</sup> for first  
time

little beech tree

cucumber

a Silene hetero

Sap for 251

big beech tree, ash

In ravine (flowing creek)  
one branch of the forest?

The second one, decidedly

N N in aspect, as is



Simpson Cr.

humbred  
wh. pine  
Tilia hetero  
tulips  
beech  
wh. oak  
walnut

Coming out into wide  
valley  
sugar maple

slopes of Simpson Cr.  
underlying strata  
are ~~MP~~.  
Strata is farmed.

Cross Corn Pasture &

going up Sawyer's Cr.  
wild cherry

to Douthat St. Pk.  
red maple

a.m.  
Tilia hetero  
wh. pine  
sh. b. hick  
bush  
wh. oak  
red oak

on  
summit  
of  
hill

a poor oak type on a  
slaty slope

valley has much a.m.  
all cleared just  
before Civil War

Beyond Lake in

Park —  
 Beech — big  
 red oak " " " " " "  
 hick " " " " " "  
 Nyssa " " " " " "  
 s. m. " " " " " "  
 Ullin " " " " " "  
 white oak " " " " " "  
 red m " " " " " "  
 Tulip " " " " " "  
 walnut " " " " " "

Valley  
 Red  
 oak

(A place where beech  
 is dominant in  
 the valley flat

hickory big  
 hemlock of big

Digitized by Hunt Institute for Botanical Documentation

Small stuff: —  
 dogwood  
 osprey  
 white hazel  
 oaks + hickory  
 red m.  
 chestnut  
 nyssa

Pines on slopes include  
 P. virginiana  
 P. pungens

In part, F. beyond  
 State Park —  
 Skirting foot of mt. slope  
 & looking up, +  
 walking up trail: —



Q prinus  
 hemlock  
 hickory  
 cucumber  
 Bet lenta  
 tulip  
 red oak  
 Lilia hetero  
 red maple  
 Coryza (not alb or ph.)

Kalmia dogwood  
 Azalea red oak  
 Rhod cot laurel  
 Hamon cnc  
 Spirea red maple  
 Yulbe Q prinus

Digitized by Hunt Institute for Botanical Documentation

Vib. acerif chestnut  
 Acer spec  
 Pseudera hick  
 Clinton hick  
 Collinson hick  
 Pogon. var tulip  
 Albent hick  
 Cyperus  
 geranium  
 Adiant  
 Polyp  
 Psp may  
 Urtica vul  
 Amnif  
 Amph  
 Dioscor  
 Galen. buf.  
 Epip. put

N.W. slope

Above appears to be  
 northward slope  
 (no sun)

Opp. slope  
drier, very rocky

Q. prinus, formerly from  
Kalmia

Vac vac

Gaulth  
viol. ped

scr oak  
pine  
myssa

dogwood  
hick  
oaks  
chest

Rocks dip way up on  
oblique angle on this  
slope

Digitized by Hunt Institute for Botanical Documentation

valley broadens &  
much wh. oak.

hick  
bl oak  
dense undergrowth  
sloped to  
SE

dogwood  
hick. spp  
C. mucronata  
Hesperis matronalis

Low on south slope

96 wh oak  
34 hick  
52 bl oak  
15 ch oak

Myssa |||  
hick. |||

low, not many

Carya alba |  
red oak ||  
sh & hick |  
Chestnut stump ||

dogwood  
red maple  
hick. spp  
chestnut  
cucumber



Desm off                      Collins

Lynn

White, stem

Aspen  
The white oak-bl. oak-tulip  
type extends with extends far  
on gentle slopes

Up slope, get to be  
more ch oak, & chest  
& more switch.

ch oak ||||

tulip |||

bl oak |||

wh oak |||

hick |||

locust |

ch. spruce, stump ||

Shaded low forest  
level so low it is not  
seen

more open under

Ravine cuts slope -

has

s. maple

red oak

hemlock

Tilia

much higher in main  
stream

hemlock ||

Tilia ||

s maple ||||

red maple |

wh oak |

High str. forest -  
secondary wh. oak

Northerly slope but  
trail goes up is  
very steep - appear  
from rd on other slope  
to go up to oak-ch. of  
the oak, oak-chest, lily, etc.  
to pine at cliffy crest  
with some lily

Enter Northat State  
Park from U.S. 60, three  
miles east of Clifton Forge;  
go 6 miles on secondary  
road. The good forest  
lies beyond the park  
in the Geo. Washington  
Nat. Forest.

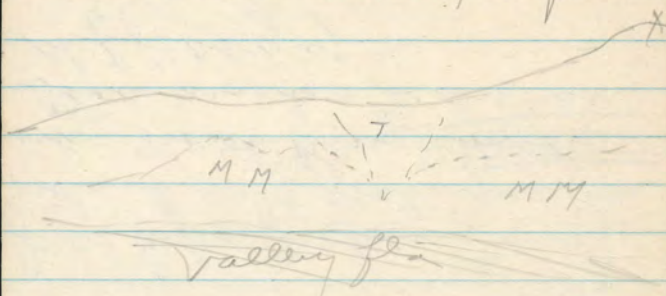
Wilson Cr. into State Park

Digitized by Hunt Institute for Botanical Documentation

July 31

De.

Just after Rockledge  
Baths & going up North R.  
MM on slope to left,  
about an east slope.



T = young tulip trees

MM goes for maple incl. by  
beech & Tilia lily

X  
Rocks



*Tilia hetero*     better west  
Walnut  
Red oak  
Tulip  
Ash  
Beech ?

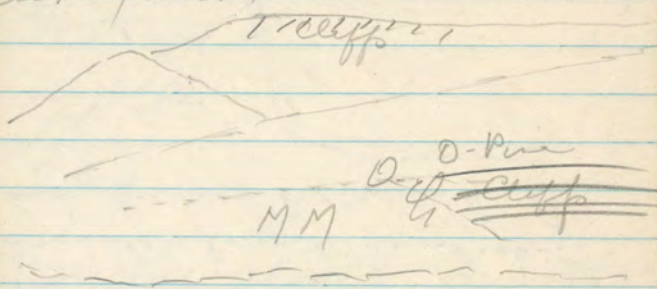
Just before Goshen Pass  
which is a water gap thru  
wh. north River comes  
Place markers "rocks" are  
cliffs at gap

On the very steep mt slope  
there is *Tilia hetero*,  
S. maple, wh. pine, Dec. mont  
Continuing up road:—

Digitized by Hunt Institute for Botanical Documentation

Cucumber

Where slope on our left (south side  
of river) is very steep & rock slide  
look across to lower ridges  
cut by trail:—



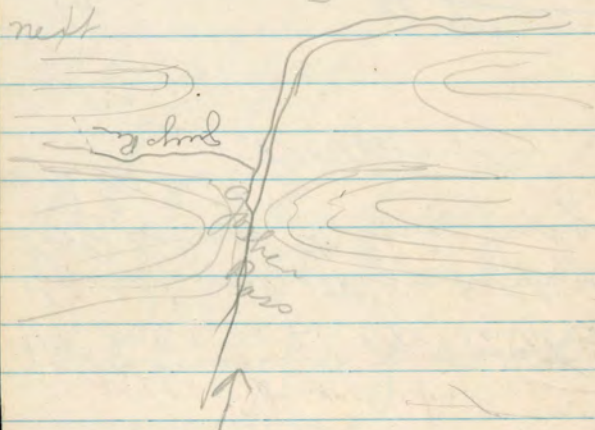
MM on lower slopes contains  
*Tilia hetero*, ash, tulip,  
wh. oak, red oak wh. pine  
going way to ch. — ch. oak

Rock here is a dark often  
maroon red schist?)

all this MM has lots of oak

Come out of Goshen Pass  
into a broad longitudinal valley

Crossed Guy's Run  
which comes in from south  
in the valley we enter from  
Goshen Pass. "Head of Guy's  
Run" would be on slopes of a  
smaller longitudinal range  
bet. one cut by north R. &  
next



Digitized by Hunt Institute for Botanical Documentation

Before warm Spgs Mt.  
~~Before warm Spgs Mt.~~  
On a hilly bank <sup>at</sup> level of the valley  
wh oak  
beak oak  
Myrica  
Pine  
tulip

On the strath, anything  
at all big is wh oak  
Warm Spgs Mt. 2952 ft



Warm Springs Mt  
is all oak-chestnut,  
with several oak sp. low  
on slopes but higher  
is all ch. oak-chestnut  
type + locally just  
chestnut oak

Digitized by Hunt Institute for Botanical Documentation

On west side of Warm Springs Mt  
Tilia, big  
Cucumber, big

mostly oak & dead chestnut  
Tilia abundant in a  
concreting  
Entire lower half limestone  
cland

Slope of Warm Springs  
Mt. as seen from  
2 miles N. of Hot Springs  
is oak-chestnut (lots  
of dead chestnut)  
growing up to chestnut  
oak

West of Warm Spgs  
on 501.

lots of white pine & R. Maple

great quantities  
of dead Chestnut on  
slopes above hemlock

at Hot Springs:

On an east slope  
quite a lot of N.W.  
with beech

(after we got off the rt.)  
on a crossroad to 268

Follow 268

Sugar maple in valley

not much chestnut

on mt. slope to

right

Jackson R. (before crossing)  
Sugar maple, big

Walnut

Cherry

They come up slope  
a ways (at Barber)

at first crossing of river  
mountain side (high mt)  
to left (west) looks like  
conifers are mixed; are  
lighter green toward top  
of mt. wrong side, light  
slopes and younger growth

at just after crossing  
Jackson River, slope to right:

basin

hickory

R. m.

red elm

over





in higher part where  
it goes up to oak-chest  
hemlock only below

a lot of rhodod.  
also on opp. slope at  
base; -

A. m  
basswood  
walnut  
cucumber (big)

The rocks in mt do  
not seem as massive  
or as metamorphosed

Saw M/M in cone  
high on mt, with  
dead chestnut on  
ridge (at 7800)

Digitized by Hunt Institute for Botanical Documentation

1. mi fr. Callahan

at Jct. w. 600 (at Callahan)  
close to 60  
big buckeye even in a  
~~cliffy~~ cliffy place

Join US 60 at Ogle  
Cr.

N. slope of 60 all  
M/M. both sides  
M/M quantities of buckeye  
also on valley floor  
Dunlap Cr. flows  
to our left.

High cliffy slopes across  
to left of US 60 (we are  
traveling E), almost a  
N.W. slope  
Cross Dunlap Cr. again  
slope more cliffy but  
M/M where not rock



Cross Deerly Cr. 3rd time  
(now following C & O)

~~See~~

Leave Deerly Cr.

Buckeye still on Corny Jan  
in pasture, MIN  
limited to lowest  
slopes

Cross Pounding Mill  
Run

E. of Corny Jan Cross  
Jackson R.  
base road  
tulip  
Buckeye (?) on river

Digitized by Hunt Institute for Botanical Documentation

but mostly oak

Slopes of Jackson R.  
~~and~~ below road (between  
~~the~~ Cov. & Upper gorge)  
ash  
tulip  
Tilia  
white elm  
buckeye  
red oak

On US 60, "2 1/2 mi. fr.  
Nat. Br. -  
some base road &  
tulip and a road  
up slope (6 mi beyond  
Kear's Cr.)

insert in  
note of July 30

Aug. 1.

Natural Bridge  
Cedar Creek

Cedar Creek cuts a deep valley in limestone, indenting the Shen. valley strath.

On l.s. outcrops on slope going toward bridge + along creek are arbovital (largest 56 in. D) Aspl. with ~~in~~ cryptogams.

Forested slopes, after passing through bridge, are M.M.

The northerly slope is

Digitized by Hunt Institute for Botanical Documentation

crested below. Trees, mostly not of primary growth, but obviously not a stand following clearing, for many trees are old - ages ~~given~~ on labels range from, tulip - 350 yrs, big arbovital, 1600 yrs, twin arbovitals, 9000 yrs, beech, 200 yrs, red oak, 200 etc. The place evidently never cleared, the stand, even tho not all of mature (or large) trees is a typical M.M. forest with rich black soil, distinctly mull, + with the usual herbaceous plant.



Lilia hetero	40
S. maple	32
tulip	24
red oak	17
hemlock	16
white ash	13
hickory, (app)	13
white oak	5
cucumber	4
Ch. oak (muhl)	4
beech	3
red elm	3
walnut	3
white pine	2
nyssa	1
bitternut	1
arbor vitae	1
	<hr/>
	182

Digitized by Hunt Institute for Botanical Documentation

Areas which are dominantly hemlock are not included; neither are rocky areas with arbor vitae.

M/W slopes on both sides in narrow part of gorge, and on W, NE, & E slopes elsewhere, & on lower part of opp. slope.

In places above cliffs, much white pine.

On upper slopes, generally, more oak.

~~that~~ - over -

Undergrowth of  
M M forest: -

<u>Papan</u>	Slerica
spice bush	Vitis cord
<u>Hamamelis</u>	Staphylien
<u>Hydrangea</u>	Raspberry
<u>Ostrya</u>	Vib. acerif
<u>Carpinus</u>	Cornus alt.
dogwood	P. iry
redbud	& P. sedera

<u>Impatiens pall</u>	Jack
<u>Polymnia</u>	Polystich
<u>Papaver</u>	Asph. ang.
Aster cord	Adiantum
<u>Polyg. bifl</u>	Eup. wit.
<u>Osmorhiza, hairy</u>	Pilea
<u>Asarum can</u>	Circaea
<u>Thalictrum dioic</u>	Cimicif
<u>Hydr. virg.</u>	

Digitized by Hunt Institute for Botanical Documentation

<u>Viola canad.</u>	Geranium
<u>Sanicula</u>	Desm. red
<u>Amph. mon.</u>	Collinsonia
<u>Polygonum virg</u>	Smilacina
<u>Cystop. bulb</u>	Uvularia gi.
<u>Hepatica</u>	Brachycten
bloodroot	Hydroph. can
<u>Arist. serp.</u>	
Green violets	

An island flat -  
most of creek on one  
side + temp. channel on  
other - is known as  
"hemlock island" &  
is mostly hemlock but  
with some other sp:

<u>hemlock</u>	Tilia
<u>beech</u>	Ash
alder	red oak
s. maple	sh. b. hick
wh. elm	tulip



In ground layer, are  
Mittibella + Asarum  
virg.

Where valley is wider  
& southerly slope more  
exposed, it looks much  
like some of the drier  
Adams Co slopes:—

red cedar

more oaks

more Ostrya + redbud

Aster phlog. Chimaphila

Senecio flav. dwarf Celtis

Salvia lyrata Scleranthus

Verbesina Scirpus

Rhus can. Brodiaea

Columbine Thaspium

Eup. sessil. Pellaea

Digitized by Hunt Institute for Botanical Documentation

red oak

tulip

ch. oak

s. maple

hickory

Anywhere in the  
valley bet. Nat. Br.  
and New Market  
where there are big  
trees they are

white oak

bl. oak

hickory

Some of these are very  
large

How much of this  
valley is under  
drained by caverns  
in limestone?

The slopes of Massanutten Mt. are covered with very young growth - oak but *Prunus*. Probably was oak-ch

Aug 7.

Skyline Drive

large white oak up with spruce

Sugar maple.

where not steep & rocky, wh. oak, pines, much blk. oak & hick.

Digitized by Hunt Institute for Botanical Documentation

Aug. 2

White Oak Canyon  
Shen. Nat. Park

followed Wh. Oak C. trail down to 4th Falls, where a trail comes in from left (as you look up stream)

At 4th falls: <sup>(1)</sup> Slope about S

hemlock	###	5
lily	##	7
Tilia (not betula)	###	4
red oak	###	13
ch. oak	###	9
s. maple	###	10
hick	###	3
nyssa	1	1
chest	1	1
		<hr/> 53



all sp. in can. list +

Ostrya	Vib. luc.
rubra	piry
ash	Prunus
Amel	Vib. acerif.
chickory	Hemlock
chest	Benzoin
Birch	Polypodium
Sassafras	Hepatica
Smilax	Rubus odor.

The other side has just as  
much ch oak

Jack	Kalmia
bloodroot	
Collinsonia	
Smilax	
Polystichum	
Polygonum	

Digitized by Hunt Institute for Botanical Documentation

Cercaria nudica

A hemlock flat (2)  
just below 3<sup>rd</sup> falls  
hemlock III  
birch I  
ch oak III  
chest I  
tulip I  
s. maple I

Cont. slopes along 3<sup>rd</sup> falls (3)

ch oak	###	###	10
s maple	###	###	9
bythornut	1		
Chestnut	1		
red oak	###		
hickory	###		
Tulip	##		
Lilac	###		
Chestnut	1		

+  
dogwood  
red bud

+  
Hystrix Phegopteris  
Thal. disc Botry. veg  
Galium lance C. m. s  
Aster des Gerant  
Smilacina Onop. pall  
desm. nud Rum. hisp  
This a steep slope terminates  
close by massive bluffs

Digitized by Hunt Institute for Botanical Documentation

Up to 2<sup>nd</sup> falls (4)

Trail zigzags up to get  
above cliffs bounding slope  
listed above + facing fall

s. maple	###	###	###	14	2
Lilac	###	###		8	3
tulip	###	1		6	3
red oak	###	###	###	18	3
chestnut	##			3	
ch oak	###	###	###	14	
hick.	##	1		6	
hemlock	###			3	
locust	##				
red elm	##				

Nyssa 1

A ch. oak area in talus (part)  
at top of above mentioned  
cliffs + hick. there + near  
is ch. oak - 13 (4a)

1 paper



Polen  
 Amphomon  
 Heldreichersff

Opp slope appears  
 circular: no more  
 s. maple: as much oak,  
 & some yew way to d<sup>up</sup> slope  
 trail more level for a time  
~~above~~ 2nd falls w/ tenery  
 hemlock IIII (5) 2nd  
 Tilia IIII  
 red oak I  
 tulip IIII  
 ash I  
 y<sup>o</sup> birch II  
 red elm IIII  
 red oak I  
 ch oak II

Digitized by Hunt Institute for Botanical Documentation

Then climbs again (6) -  
 valley narrow  
 Tilia IIII+IIII  
 Ash I  
 red elm I  
 walnut I  
 s maple IIII  
 locust I  
 tulip II  
 red oak IIII  
 hemlock IIII  
 hick IIII  
 chestnut I  
 ch. oak II  
 bitternut I

Acarum can  
 Sol. latif  
 Sarcoc. trif  
 Bromus

Top of slope <sup>on top of</sup> nr top of ⑦  
 of 4th Falls

Ch oak ### ## ## ## ##  
 wh oak ||  
 hemlock ##  
 red oak || chest. ##  
 Kalmia  
 Sol. erecta  
 Hieracium ven  
 vac stam, vac  
 Asplen  
 Vib acerif  
 Aster umb

Slope: - not steep ⑧

wh oak ### ## ##  
 ch oak ## |  
 hick | s. maple |||  
 red oak ||| hemlock |  
 lowst |

Digitized by Hunt Institute for Botanical Documentation

Cross White Oak Creek

near a northward slope above Falls ⑨

Bet lenu (or all)	### ## ## V	17
red oak	### ##	12
ch oak		2
Lilac	##	8
s maple	## ##	14
hemlock	### ## ## ##	22
Chestnut		4
butternut		1
wh oak		4
red maple		3
ash	##	7
lowst		1
		<hr/> 95

a little fast with 8 hemlock



Rubus odr	Hemian
viol. bla. h	Pseber
Imp. pall	Rhus tor
Aster alba	dogwood
Asp. mag	Corylus rostr
Apocyn	Hydrangea
Eup. vert	
Jack	
Pilea	
Polymnia	Geranium
Illicium	Alaba nud
Aster div	Amur
Collinsia	Jack
Eup. purp	Polystach
Osorh. pub	Cryptotaen
Circaea lutea	Hydroph. virg
Phegop	Dick
Asp. f	
Wood. f. perf	

birch		1	6
hemlock			11
red maple			9
red oak			8
Chestnut			22
s maple			18
wh oak			8
Yucca			5
ash			1
			<hr/> 88

Osm. can Ham  
 Aspl ff Hep. obtus  
 Prunella Geran  
 Aster macro  
 Medeola vit. acuf  
 Actaea Phlox

Digitized by Hunt Institute for Botanical Documentation

Adiantum  
 Anaph mon  
 Emp urf  
 Phlox  
 Inula. Indanth  
 Pedicular can  
 Clintonia

Hemlock area with  
 Maranthum  
 Mistletoe  
 Med



a convexity (11)

2 1/2 slope

red oak ###  
 chestnut ###/###  
 ch oak #  
 hemlock |  
 wh oak |  
 birch |

(12)

Red maple	###/###/###	12
hemlock	###/###/###/###	17
lilia	###/##	7
red oak	###/###/###/###	20
wh oak	###/###	10
birch	###/	6
red maple	##	2

Digitized by Hunt Institute for Botanical Documentation

Chestnut	###/###/###/###	22
Ch oak	##	2
		<hr/>
		98

Quercus spec	Polypt
Acer rubrum	Aster des
Corylus rostr	Hamm
Asplen	Hydrotrag
Vib acer	Cerata rufed
	Aster albu
	Sol erect +
	Smilax
	Aster
	Asp n l
	Hydr
	Full und

Chestnut ### ## ## ## ##  
 red oak ##  
 birch /  
 wh oak //  
 ch oak /  
 ash /  
 hemlock /

Higher relatively flat  
 area south of  
 hemlock  
 birch <sup>9000</sup> s on, cedar  
 red maple, ash

Lower but rel. flat  
 near top

wh oak ## ##

Digitized by Hunt Institute for Botanical Documentation

red oak ##  
 red maple //  
 hemlock ###  
 chestnut ##

top gentle slopes

wh oak ## ## ##  
 red oak ##  
 ch oak /  
 red maple //  
 chestnut ## ## ##  
 birch /

Eucod as l  
 me. oak  
 Kalnia  
 azules



From Skyline Drive  
 bet Great Meadows  
 and Panama  
 the mt. slopes appear  
 to be oak-chestnut.  
 Only in the deepest  
 canyons along the  
 Drive are there meso.  
 sp, as Tilia & birch.  
 and looking down  
 a narrow broken band  
 of mesophytes follows  
 canyons. White Oak  
 Canyon, deeper than  
 most, but meso  
 only on inner slopes

The oak-chestnut of  
 the upper slopes

Digitized by Hunt Institute for Botanical Documentation

where not too steep  
 & rocky is  
 wh. oak-red oak-chestnut  
 (see last count)

Where rocky, chestnut  
 oak prevail, with or  
 without chestnut

12. From Station Road  
 to canyon in Shenandoah  
 National Park, Virginia  
 III. 1. N. from Little Sky Park  
 to Skyline Drive, S. Fork Shenandoah  
 Valley in 17 miles. mt. 3035 ft  
 2. West of Shenandoah  
 National Park (Virginia) mt. 3035 ft.  
 the "Allegheny" mt. @ Mtn. Wa.  
 know the most distant?  
 (from some places)

Back Cover

Digitized by Herbarium Institute for Botanical Documentation

2 miles long  
up the bank of  
the Salt Canyon bank



II

Picture 8, July 31

view from  
over valley we traveled  
then after Goshen Pass  
Goshen pass shows toward  
right. Blue Ridge  
in distance may show

#9. View over Luray  
Shen. Valley with fog  
clouds. Mass. mt. beyond

10. Toward Pedernous  
from 1st parking overlook  
S. of Panzano

11. Over Luray to per page,  
beyond from Jewel Hollow <sup>3300</sup>  
Overlook on Skyline Drive

12. From Spitzer Knoll  
 looking in Shenandoah  
 Massanutten Range beyond  
 III. 1. N. from Little Hock Mt  
 overlook showing S. Fork Shen.  
 valley n. of Mass. Mt. 3035 ft  
 2. West, showing 4 ranges, the  
 farthest (highest) with cloud caps.  
 The "Allegheny" mts. (?) on Va.-W. Va.  
 line the most distant?  
 (from same place as 1)

where mt. has deep  
 looking so  
 mts. with - pedral - chert  
 (see last count)  
 where looking, chert  
 over the road, mt. or  
 mountain chert

From Shenandoah  
 Mt. with  
 and looking down  
 a narrow bottom  
 of mountains looking  
 across into the  
 valley, but near  
 only in mountain - chert  
 the mt. - chert  
 the mt. has deep