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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.

1939



NOTEBOOK

Digitized by Hunt Institute for Botanical Documentation



W Va
Tenn
N.E.

No. 94 1/2

9

(on cards)

E. LUCY BRAUN
2702 MAY ST
CINCINNATI

1938

OH 10

Sept. 24. Levensburg - Cranberry
Glades (Polk Co. Fla.)

Sept 25. Dixon's in Union - to
Norton, Va via 59.

Sept 26 Norton, Va - Hayes -
Pikeville, Ky.

Apr. 29, 1939. Stearns to
Spencer, Tenn via Rugby,
Tenn. 28 H Crossmile, US 70 to
Sparta + Doyle.

April 30. Falls Creek Falls, Va
May 1. Gorge below Carey Creek Falls
and

- May (cont) Piney Creek Falls
 " 2. Spencer - Tapoca N.C.
 " 3. Tapoca - Joyce Kilmer
 forest - Bryson City
 " 4. B.C. - Highlands +
 primate forest
 " 5. Highlands - Franklin -
 Winding Stair Rd + Nantahala
 Gorge - Bryson City
 " 6. Bryson - Gatlinburg
 incl. Clingmans Dome; Core
 " 7. Gr. Smokies - Chimney
 Top trail; ^{loop;} Laurel Falls

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Cranberry glades; -
Sept. 24

shrubs:

alder

Pyrus oval

Olea vert

Vib. cas

Vib. dentata gr

Sedum - in Polytr. - Clad.

Hypericum dens

Asp. crist

Osm. cin.

Rubus hirsutus? viola etc

Cranberry Polyg. sag

Hypericum (pink)

Orchids Osmunda reg

Euophora Lily

Carex spp

Maianthemum

Polemonium

Caetha

3-foliate-like ^{menyanthes} ~~Olympic~~

Sphagnum

Cladonia

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Juncus spp

Several distinct communities

- Sphagnum - Cranberry

Polytrichum - Cladonia

" - Clad. - ~~Charadriaceae~~ ^{Charadriaceae}

Sedge bog (Carex)

Cotton grass - Cranberry - Sphagnum

Alder - shrub border

Spruce border with Larch

also y. birch ash

hackberry s. maple

beech

basewood

hemlock

shrubs of forest border -

vib. almy.

Lapae

Rhododendron

vib. lentago

Acer spic

Herbs

Asp. spic Miscanthum

Aster pen. Skunk cabbage

Eup. urticae Cimic - 3 fold

Ran. hisp Phlox repens

Oxalis mont Scarella

mitella Aralia nud

Samolida cyan Ribus

Cynophyllum?

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Limestone Plateau

Small L.S. Plateau ^{mill Pt.} _{mill Pt.}

wh. oak

sp. maple

tulip

cucumber

cherry

hack

²²
on limestone ^{south} slope
just inside ^{Quaker} _{mill Pt.}

Silia

sugar maple

cherry

wh. oak

Chestnut

red oak

hack

cucumber

tulip

wh. ash

on limestone slope

Limestone plateau
Renick - Lenoirburg

many old white oak
with some s. m., walnut
hickory

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Sept 25

S. on 219 beyond Ronceverte

Limestone plateau -
rolling, sinkholes, etc

many large white oaks with
s. maple (esp. in + on slopes
of sinks), cherry, d. mulb.,
sh. b. hick., walnut,
cucumber, tulip, ash,
Tilia

Ravine slopes S. of Lenoir
M M with buckeye
Also: — over

beech
 s. maple
 buckeye
 tulip
 ash
 wh. oak
 basswood etc. hetero.
 red oak
 cucumber

Saw Oxydendron
 nr. Princeton

Limestone Plateau
 S. of Bluefield Va.

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s. maple
 tulip
 red oak
 wh. oak

S. - p. e slope on dip
 face is, oak chest.
 W. lots of white oak

just S of Fagwell -
 white oak, tulip & buckeye
 But very much denuded
 little evidence

Then turn right ^{on 19} of Jct 81
 there some knobs - [^] which appear to
 be cont. of all. ^{mt.}
 north slope has mixed forest
 with s.m., buckeye, tulip

cherry, beech, etc.
On right (west slope) scattered
trees are beech, walnut
wh. oak, a dent. oak.

What's left along
Church R. is MM
at Pounding Mill
on higher E. slope. Pines
big trees = wh. oak &
s. maple

High slopes to left
are MM.

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all MM at Cedar
 bluff exp. oak - chest. on
 highest slopes

on Pounding Ridge (on 84
 oak MM. id.
 Photo. in moss on
 stream

May. fraseri

Oxalidroidon

Coryopsis major

MM: —

Beech

chestnut

Tilia hetero

nyssa

Cucumber

tulip

s. maple

dogwood

red maple

wh. oak

hick.
birch

Shorts gap 2500'
in Dividing Ridge

[After leaving Tazewell
began to see
Vidua rubra.]

Dividing Ridge separates
Clinch R. (Tenn. R. drainage)
from Big Sandy drainage
The east side & valley on
east terribly denuded but
the east slope is M.M.

Buchanan Co (Co. line on
crest of Dividing Ridge)

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Descending slopes & winding
around following dendritic
drainage; horizontal strata.
Good M.M. everywhere with
typical aspect of the Cumberland
Slopes very steep as in
Piperille and with very much
the aspect of the eastern
(highest) part of Cumb. Plat.
in Ky.

This section of bar. is, then,
typical higher Cumb. Plat.

Erionoma americanus :-
noted on W slope of dividing
ridge.

Vansant - much river birch

Sweet gum at Grundy
May. *triflora* ~~at Grundy~~
of Harman R.R. Station
Holly at Grundy

Crossed McClure R. at
Cinch

Sandy Ridge 1925^o

Crossed Crane's Rest R.

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The whole section traversed
in Buchanan & Dickerson
+ ^{mine} counties is splendid M/M
where not much lumbered
has the very luxuriant
aspect so noticeable in
the Ky. Cumberland Mts
& adj. higher plateau.

The section is very rugged,
hills excessively steep &
ridge tops in places not
as wide as road which
had to be built at edge of
rock. The M/M comes
almost to the top with
tulip to top & beech
almost to top even on west

The most deeply cut -
greatest relief - just after
crossing Big Sandy &
rising to crest which
overlook it.

Beech is prominent
throughout, as it is in
all the much dissected
Cumberland Plateau
area.

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Sept 26.

Dept. 72, just over "Dividing Ridge"
into Va's ^{no-still in Cumb. Mts.} Cumberland Plateau. A north
flowing stream ^[must be Cranberry River] goes down. The

following in range of picture # 6

Beech	dogwood
Tilia heterophylla	oak
S. maple	Rowspan
Tulip	
red oak	
birch	
walnut	
hemlock (valley) etc.	Rhodo
cucumber	
Nyssa	
chestnut	over

sh. b. hick

Bitternut

Carpinus

white oak dried clothes

This creek comes down
to Crane's Mill R.

Somewhat more back
on mostly steep
more oak on
exposed ridges

Buckeye has more
leaves than in Va. &
S. maple not colored

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Much mag. *Trifolium*
along Crane's Mill R.
below Clintwood

From Crane's Mill to
come over Sandy Ridge
to McClure R. at
Junction.

McClure R. - lots of mag.
trifolium along R. near
Clinch

Come up out of McClure R.
up to where we see
Pine Mt. & very rugged
country of Russell Co.

Q coccinea & montana
on narrow ridge crests
crowns of beech & tulip
on particularly steep slopes frequent
above the ridge tops

Follow along top of
white & then go
down to Russell
Fk. at Haysi.

80, Haysi - Pikesville
all MM
saw Iris cristata bet
Haysi & Beaks

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At Beaks - White Sandstone Sp.

Beech

Tulip

hemlock

wh. oak

chestnut

Yucca

fr. h. l. tall

red maple

dogwood

Drydenia

Rhodod

Clethra

Kalmia

holly

Rob. hesperis

Osmundaceae

Osm. regalis

Pop. n. b.

Polypodiaceae

Pteris

Gaultheria

Galat

Epifagus

Medeola

Polyp. var.

Alesm. n. b.

Amph. n. b.

Sol. bicolor

Swamp at spring

Boehmeria

Ran. recurv.

Labellia card.

Ludwigia pal

Utrina

Sycopus

Penthor

Sol. caesia

vac. slm

Mitchella

" vac

Stem quadr

Hieracium pair

Lymna

Spiranthes

Pyc. incana

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Magn. fraseri

Graph. poly
Azalea Sp?

at near top

Arnet. can

D. prunus

Aster und

D. coccineus

Hamamelis

Chestnut

Rhus cop

Coreopsis major

Sol. odora

Euprot

beech, wh. oak & tulip present
on upper slopes bet. rd &

Bushes

Apr. 29, 1939

A swampy place on plateau
at spring (north of Gremsby
Tenn) has
Parnassia
Pyrus melanocarpa
Viola prina

Iris verna

Plateau flat with gentle
slopes. No trace of big forest.
On 70 S, west of Crossville
as soon as plateau margin
is reached, all slopes MM
with considerable thick woods that
beech, tulip, s. m., etc.

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Apr. 30. Falls Creek, Tenn
Kamohoeza at Falls Creek

(rd)
Trail to Piney Falls

Thru oak forest on gentle
northerly slope

white oak 20, ^{±4}; black oak 11
tulip 1.

Myrtle 1 basswood 2

hickory 11 Chestnut 1

dogwood red maple

Calycanthus

Ceanothus Viola pub

Yucca Adiantum

Tea tree

Iris verna

May 1.

Down into gorge of Cane
Creek below falls.

Hemlock - Rhododendron -

Kalmia with

Betula lutea & lenta

Ulmus alata

Quercus montana

Magn. trip.

Asp. spica

Trail from Falls Creek to Piney C.
Gorge, ^{just} below Piney Creek
Falls is hemlock, tulip
oak.

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"Forest on top was mostly oak,
with ^{some} poplar, gum and hickory"

"Good sized trees"

"Deer, turkeys, wild cats"

Adel
Others in side gulches -

Tilia vib. acer

red maple Acer penn

Slopes even where not cliffs
are very rocky

Those facing south, oak

Bottom mostly hemlock tulip
oak (more than one of), birch

Cane Creek estuary 35
 Caney Creek 56
 Rockhouse " 130
 Falls Creek 256
 Piney Creek 85
 + 30 ft of cascades = 115

Plateau at Falls Creek
 apparently was originally
 oak-hickory; ^{with tulip} slight slope
 with more tulip. Any
 place that is really
 dissected, i.e. mature,
 is M.M. (see 1938 count)

Does the submature topography
 support regional climate?

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May 20.

Spencer to Tapoca N.C.

Descent to Pikesville; slopes
 much denuded, but evidence
 of M.M. as of S. slope of
 Dry Fork of Cane Creek.

Ascent from Sequatchie
 valley on slopes evidently
 M.M. with variety of herb
 plants.

Summit (Walden Ridge)
 is cont. of Cumber Plateau
 as at Spencer. Descent
 on east toward Tenn Valley
 is M.M.

Valley + low ridges

almost all in cultivation
or denuded. In Harrisburg
peninsula areas, over
large white oak
Great valley - oak?

Turning in to foothills
of Unakas, M.M. starts at
once, but with much oak
variety of herbaceous plants
the striking features.

Rt. to Tapoca shows O-Ch
over most slopes except lower
& in coes, where much tulip,
maple etc.

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May 3

Joyce Kilmer Forest

Betula lutea is labeled *negra*
Popularia " " *Sambucus can*
Acer penn is " a spec
Ilex opaca " " *I. monticola*
Fraxinus (ash) is "

"mountain ash, *Sorbus americana*"

Rhus cop. is " *staph. r*

May 3.

Joyce Kilmer forest

① a low ridge sloping north
above plaque - 1 ### ### ###

chestnut ### ### ### ### ###

beech ||

silver bell ### |

cucumber ### |

Bet. lenta ||||

tulip ### ### |||

Acer sacch ||

Fraxinus ^{Belt} |||

~~Black~~ oak ||||

ch oak |

Tilia ||

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Under -

buckeye

Cornus flor

Tilia

Acer sacch

silver bell

beech

humbuck

chestnut

tulip

Carpinus

Hamamelis

Trillium crest?

Trillium ples?

Paeonia

Laportea ^{granie}

Benzoin

Stellaria pub ^{ag}

Cim. rac

Viola can

Trillium

Muscae

~~Adiantum~~

Ran. hisp

Adiantum

Ran. recurv

Anemone

Podiph

Actaea

Asp. n. t

Cauloph

Jack

Water d...
S...
S...

Hepatica

Viola blanda
scat

horizontal
papil

(2) An area of all dead
 very large chestnut on
 a south slope is commonly
 in as hemlock +

Odd growth; -

Chestnut #####

s maple 1

Lilia 1

cucumber //

Tulip //

Magn. frax 1

Under

hemlock

dogwood

satsubell

s maple

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Not like the chestnut
 areas of Black Mt. where
 they occupy only subclimax
 situations + have a poor
 or Eric undergrowth

Here, chestnut occupies
 climax sites with a meso-
 undergrowth as shown
 on preceding page

③ ^{more meso- & hypso- range}
~~Rosine~~ type above
 "poplar core"

Tulip		23
hemlock		5
beech		18
s. bell		18
s. maple		15
Lilia		31
Chestnut		24
ash		2
hackberry		1
Betula lenta		2
cucumber		1
Magn. frax		2

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	Haman
	brake
	Carpinus
beech	Stalacia
Acer penns.	hemlock
ash	tulip
s. maple	Cornus alt.
Lilia	Benzoin
red oak	ash

Aspl. ff. Phegop	best
Adiantum	brodiaea
	" blanda
	can
	scal
polyp	3 trilliums
Asp. spir; n. b.	Travella
	Hesperan
Eup. vertic.	Cim. rac.
Sol. caesia?	astilbe
Aster div.	Anemilla
	Hepatica

Mitella Orchis spect
 Panax trif Hepatica
 Anem. quin monardella
 like Clinton
 Calluna bloodroot
 Botrych. virg Geranium
 Cauloph. Ran. recur
 Hydr. can " lusp
 Podoph
Centunculus ground cover

Erigeron

④ Down in ravine, around
plaque, & below -

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	+++ +++ +++ +++ (11)	53
hemlock	+++ +++ +++ +++ +++ +++ +++	
beech	+++ +++ +++ +++ 1	21
tulip	+++ +++ +++ +++ +++ +++	24
Tilia	+++ +++ +++ +++ +++ +++	25
s bell	+++ +++	8
chestnut	+++	3
cucumber	+++	3
Bet. lenta	+++ 1	6
Bet. lutea	1	1
Ash	++	2
o maple	++	2
buckeye	1	1
Hamam		
vit acerif		
Ilex opaca		
Magn. frax		
	Ilex opaca	
	Acer pen	
	Magnesia	

Hamam	3 Trillium
Urol. grand	Viola blanda
Trill. grand	Heister ^{can}
Cornif.	Cauloph
Actae	Turula
Melanth	Aster dir
Iris crist	Phegop
Eromyarr	Asp. n. b
Panax trif	Asp. spen
Phlox repens	Stell pul syl
Aspl. across	Erythr
Luporta	Medeola
Orchis spect	Polyg. pul
Opalis montan	Polypt.
Viola rotund	Botry. virg
last	Clintonia
Eupades	Jack
Anemone qu	Actaea
Pyrolaria	
Viola scab	

A south slope (near parking) is

Chestnut

oaks - white, ch., black
hick (globa, cord)

henslow

with ericac

Erigeron

For May 4 & 7 dates
days, see back of
notebook.

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12. from Henderson
Ship and others
languages of mosses
and ferns.

3. *Tabernaemontana* $\frac{1}{2}$ m

4. " " "

5. *Dr. ...* $\frac{1}{2}$ m

6. *... ..* $\frac{1}{2}$ m

7. *... ..* $\frac{1}{2}$ m

8. *... ..* $\frac{1}{2}$ m

9. *... ..* $\frac{1}{2}$ m

10. *... ..* $\frac{1}{2}$ m

11. *... ..* $\frac{1}{2}$ m

12. *... ..* $\frac{1}{2}$ m

13. *... ..* $\frac{1}{2}$ m

14. *... ..* $\frac{1}{2}$ m

15. *... ..* $\frac{1}{2}$ m

16. *... ..* $\frac{1}{2}$ m

17. *... ..* $\frac{1}{2}$ m

18. *... ..* $\frac{1}{2}$ m

19. *... ..* $\frac{1}{2}$ m

20. *... ..* $\frac{1}{2}$ m

21. *... ..* $\frac{1}{2}$ m

22. *... ..* $\frac{1}{2}$ m

23. *... ..* $\frac{1}{2}$ m

24. *... ..* $\frac{1}{2}$ m

25. *... ..* $\frac{1}{2}$ m

26. *... ..* $\frac{1}{2}$ m

2. Clipp + part of young of *Fallopia*
 1/5 v - 11 - 1/16 Same as H 6

1. Grove of *Fallopia* Creek below
 hills 1/50. Same as H 5

SSX.

some specimens

12. *Alnus* creek forest above
Fallopia Creek hills west

11. *Alnus* K. II, 2

10. M.P.

9. M.P. some *Alnus* forest
 (some *Fallopia* Creek)

P.

9. Cranberry Glades -

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Cottongrass *Conspicua* in
 fore. Alder, *Osmantha*
 Spruce.

10 Cranberry Glades -

Ilex in left fore; *Pyrus*
 mel. right; *Cottongrass*
 spruce. Crab & *Sph.*
 anywhere

11 Sedge part of bog with
 shrub (alder) + spruce
 border

12. Great expanse of *Eriophorum*
 broken by *Pyrus*. Alder
 border

II

1. Cladonia morend
with Pyrus
2. Cladonia - Polytroche
tundra with collingrass
3. Ledum in Polytroche
& beyond a Cladonia zone
4. Intently collecting on Ledum
in the "tundra"
5. Spruce border - Hypericum
dens. fore - Juncus -
Eriophorum - Spruce
6. On rd 72 just over pass
(out of nat forest) & looking
into Va's Cumb. Plac.
Sugar maple the nearest tree

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7. The Towers (at the Break
of Sandy) from a cut
land in red

Kodachrome I

18. Iris versia at 16 in
noon, bright sun, $\frac{1}{50}$ 5.6 ÷ 8
19. Patch of viola pedata at
25 in, 4.5. $\frac{1}{50}$ Bright sun

K. II

1. M.M. of fork of Casey Creek
bright sun, 9 A.M. $\frac{1}{50}$ bet. 5.6 ÷ 8
2. Left to right - hemlock, Niposa, beech,
Q. maritima (with catkins) wh. oak, &
slopes in distance down rd. rd

comes capped with pine

bet. 5.6 & 8, $\frac{1}{50}$ Bright sun. 9:15

3. East slope (looking across Canyon cr.)

Dogwood in bloom; patches of
hemlock

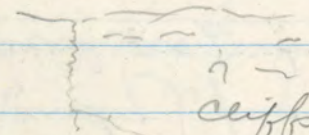
4. Pink Azaleas of 20+ ft
 $\frac{1}{40}$ or 8-

5. Gorge of Falls Creek below falls

P. very right face + a few red
maple on left. Same as

SSX. 1

6.



cliffs + face of
Falls creek. Dark, sub
 $\frac{1}{50}$. 5.6; 8. Bright

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7. Gorge (flat light) from
farthest downstream point
(beyond trail) 5.6 $\frac{1}{50}$

8. Falls from farthest
high pt beyond trail.
LRA. light $\frac{1}{50}$. 4.5

9. Falls from overlook
4. $\frac{1}{50}$. LRA light

10. Nearest view showing
cascades + creek above

may 11.

11. Lower Canyon Creek Falls
 $\frac{1}{50}$. 4. Sun, not real
bright, at 60°

12. Same, at 5.6

13. Piney Creek Falls \square at 1:30,
light at $\frac{1}{R}$; hazy sun. $\frac{1}{50}$. 4. over

Tree found to right of falls is oak or cypress, to left (bright green) is tulip.

14. White *Sisyrinchium* at 22 1/2 in. Hazy sun 5.6 1/50

15. Azalea patch - deep pink, pale & white & bac. arb. in oak woods of plateau bet. Falls Cr & Piney Cr.

25 ft. 5.6 1/50. Hazy sun

16. *Phlox (amoena)* at 3.5 ft 5. 1/50

17. *Lith. canescens* in

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bright sun. at 22 1/2 in, 1/50 on bet 5.6 - 8

18. *S. Tenn. R.* above dam in gorge & high mt. Bright sun but hazy distance. 4, 1/50

19. Pitch pine at 48 in. 5. 1/50

III

1 Silver bell on shore of Lake Santelech 5.6: 8 1/50 Bright (flat)

2. *Amelanchier laevis* in a background of white pine near Highlands, N.C. 1/50 bet 5.6 & 8 bright sun

3. Painted Trillium
at 16 in. noon, very bright
 $\frac{1}{40}$ on 8
4. Viola rotundifolia at 16 in
with partridge berries
 $\frac{1}{40}$ on 8. very bright
5. 3 painted Trillium at 25 in
 $\frac{1}{40}$. 8+ full sun
6. *Houstonia saxifolifolia*
n. of Highlands, with red
rosettes of Sax. leuc.
 $\frac{1}{40}$, half bet. 5. 6 & 8 at 4 ft 10
7. Scarlet paintbrush at 50 in
 $\frac{1}{40}$ on 5, 6 - 8. The blue
beyond is birdsfoot violet

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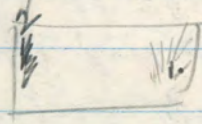
8. Silver bell at $3\frac{1}{2}$ ft
 $\frac{1}{50}$ on 8
9. Anem. laevis, spray,
at $3\frac{1}{2}$ ft. $\frac{1}{40}$ bet 8 & 11
bright, looking toward sky
10. Scrubby oak forest near
Wayah bald with carpet
of blueets
11. Nantahala gorge (river)
with Paulownia $\frac{1}{40}$ - 56 - 8
12. (P. light) $\frac{1}{40}$ on 5. 6
⁶⁰⁰
Paulownia, nantahala gorge
13. From rd. up in G. S. mts
Spring woods for
color
 $\frac{1}{45}$ on ~~5. 6~~ 5. 6
Shows -

2 red maples against sky
& white trunks of dead
chestnut

Dark green is hemlock.
White blooming trees are
silver bell.

To left & down from left
+ bet. 2 silver bells
red maple, is a magnolia
Yellowish tall near
tree is oak with cutkins

In right sky very near
may be catkins of y. birch

14.  Spring
In Smokes

N.C. side.

① on right, pin cherry

② " left, hemlock

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All the white between is
silver bell

$\frac{1}{40}$ on 8 very bright

15. Group of ⁷ white Trillium
at 3 ft 10 to 4 ft 6 in.

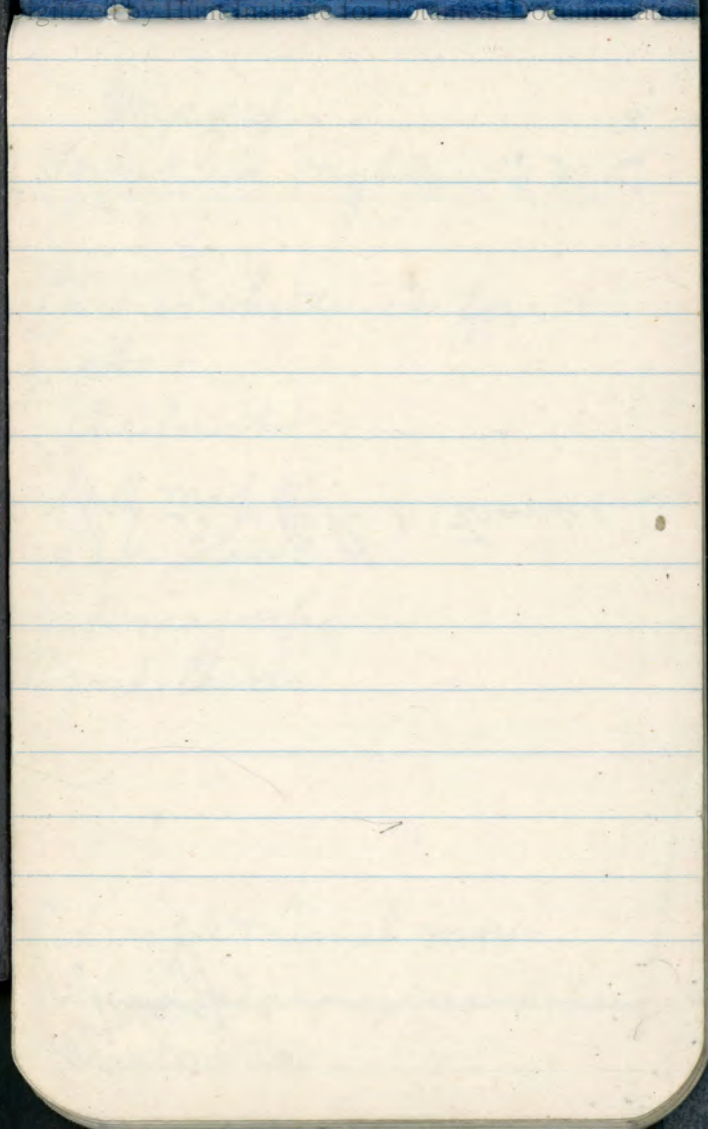
$\frac{1}{40}$ on 4 ft

16 Iris on Clack mt

17 Poppy - in shade but very
bright - $\frac{1}{5}$ on 11 at 25 in

18 Buttercup - bright sun
 $\frac{1}{10}$ on 16 at 23 $\frac{1}{2}$ (22-23)

Back Cover



May

Grave - RR, Franklin

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May 4.

Forest at Highlands N.C.

Part is chestnut forest
with

chestnut

red maple

oak, black

mt magnolia

Amel. laevis

Red maple + Amel more
abund nearer stream where
hemlock is

Lots of shrubs -

Clethra

Kalmia

Rhod. (near flat)

Pieris?

lots of things not recog
in winter land,

var. spp

Galax

Gaultheria

Tullium und

Smilax br (or rot?)

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The flats near the boggy
stream are

hemlock

rub magn

red maple

Amel

trich (penta or all)

Rhod

Kalmia

vir. leucago or cass

Clethra

Mitchell

galax

Working upslope -
cherry or hemlock
(cherry, 12 ft circ)

white pine

birch, red maple, mt magn

D. box may (13 ft)

Undergrowth almost cont.

Rhod.

silver bell

Rubus - (alleg?)

Down

A hemlock 2 ft in diam is
about 500 yrs.

viola rot. mitchellii

medeola

Galax

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Lycopodium luc.

Menziesia Macranthemum

Asarum veg (prop. or. big flowers)

viola hast

Urod sessil.

Trill. und

Epipactis

hemlock 21, IIII ||

28

birch IIII ||

8

red maple ||

cherry ||

wh pine ||

silver bell ||

red oak /

Tuleip III

chestnut ||

over a slight rise, facing rise

hemlock		28
cherry		3
red oak		5
red maple		16
magn fr		7
silver bell		13
buck		10
Tulip		4
chestnut		11
cucumber		1
Amel		1

This part of forest has no Rhod -

Rubus in quant. - prob because of dead chest
Trill und
viola hast + rot + blanda

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- Aster sp Mitchell
- Medeola Menziesia?
- Urb. sess Pyrola
- heartlvs Hamamelis
- Jack
- Asp. spin
- Dicksonia
- Galax

A south west gentle slope
is all decid. with cont
layer of decid shrubs &
much Galax

- Pieris?
- Urb. sessul
- Mony?
- Azalea sp
- Pyrola
- Trill, pink like grad
- occ. Rhod

Tree are
chestnut ~~###~~###/||
ch oak ~~###~~###|||
red maple |||
red oak ||| ————— prob red
birch ||
wh oak ||||

Climax forest of region
as a whole is oak-chestnut
with more shrubs & less
height growth than oak of
Joyce Kelmer forest

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May 5.

- (1) Highlands - Franklin -
- (2) "Winding Stair Road" to
Wayah Bald & Nantahala,
- (3) to Bryson City.

(1) Wintry oak-chestnut
forest prevails regardless
of slope. Hemlock is
apparently post-climax,
mingling with oak & red maple.
Below Cullasah Falls, in
Cullasah gorge, the green
of species of MM is apparent.
Here tulip, hickory, beech
etc (see 1938 notes for this
spot)

As soon as valley opens
out, O-ch prevails

S. of Franklin (bench)
lower ridges w. white oak,
bl. oak, ch. - & *Vaccinium*
just like Adams Co etc etc
[is this Harrisburg level? see Tenn.
p. 172]

(2) Forest Service road -
follows cups streams
The flat has beech,
hickory, tulip, red maple
i.e., a M aspect, but
O-ch on slopes except
on one N almost core
slope that has a lot

of tulip & hence in
contrast is green.

Higher, & all the way to
Wayah Bald, oak forest
prevails, becoming
knarly & scrubby at
higher elevations. *Azalea*
"yellow & even red" prevails
in high levels as a lower
layer & on the Bald.
West of Wayah Bald,
prevalence of O-ch is
apparent.

Descending mountain
to Nantahala River,

variety of species greater
in these deep "ravines",
with tulip, buckeye,
s. maple, Tilia, beech,
hickory & many more
flowers.

(3) Nantahala Gorge -
almost a north pipe
woods, very steep but
lot of soil, and rich
and continuous herb
layer. (How much
is due to initial quality
of rock?)

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Beech, s. maple (*saccharinum*),
nigrum), buckeye, tulip,
hickory, y. birch, silver
bell make up meso.
forest of lower slopes, but
looking up, can see that
this gives way to oak shot
far above.

Very luxuriant herbaceous
growth - Shrubs -
Benzoin Cornus alt.
Arist. macro Rubus odoratus
Asimina

Ferns - very many ferns
give leaf aspect -

Ferns -

Aspl. acrost Asp. spin
" angust. " marg.
Pheg. hep Cyst. frag
Adiantum

Herbs -

Triella sm. sweet Cicely
Canada violet Hydroph. can
Mitella Urticaria grand
Caulophyllum Phacelia bip
Cimicif rac. Sedum
Aster Panax quinq
Smilacina Cryptotaenia
Hepatica Solidago latif
Asarum can Trillium erect
Arisaema (sp) Stellaria pub
Squirrel corn Geranium

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Carex Fraseri Viola blanda
Carex, wide
Disporum can

The herbaceous growth
strikingly diff. from
that which prevails elsewhere
as -

Erigeron pulchellus
Ranunc. hisp
Castilleja
Antennaria

May 6

N. C. side of Smokies

"Cove hardwoods in
a S.E. slope in a n.e. fl
ravine - lower slope

Cont. green carpet -

white Trillium green

slutch. breeches Viola can.

Arumif Asp. spen

slisp. low Polyst

Stell. puberula Cystopteris

Clayt. ^{virg} carol Aspl. acrost

Squarros.com Botrych. virg

Ran. recurv

Panax trif

Rudt. lac.

Sol. caesia (w)

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Caulophyllum Hydrangea

Erythra Cornus alt

Plant. diph Eromy. arna

Hydr. virg. & can

Smilac. puberula Aster spp

Lupanea Eup. vertic

Allium tric Arist. triph

Viola pap; scab. Smilac rac

Larella

Big trees incl

burkeye

hasswood

beech

Betula lenta

Y. birch

s maple

Other slope mostly
 hemlock & birch with
 Rhod. under

The dwarfed beech-
 birch & buckeye,
 south slope - along
 Clingman's Dome road
 with

Claytonia virginica
 Anemone serpyllifolia
 Erythronium americanum
 Phacelia
 blue violets
 D. bushes

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Terrace slope -
below Tunnel 2
 M M core - facing west
 (Rock here is different
 from Alum Cave trail,
 here it is lighter
 (add next day's count to this))

Buckeye	###	5
tulip	1	1
s. maple	### ### ###	15
Lilia	## ### ##	17
chestnut	###	5
red oak	## ### 1	11
s. bell	##	7
hemlock	1	1
Corycod		3
		<hr/> 65

Under -

Luckwax	s. bell
s maple	ash
birch	Lilia
Luckwax (cord)	cherry
cucumber	chestnut
Cornus alt	Prunella

Tullium grand	Polytechn
<u>Phlox repens</u>	Alsp. acc.
Amur	Botrych virg
Canada violet	
Stellaria pub	
Monarda	
Apleticum	

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Leucilla	Joch
Thaspium aureum	+ barb
Aster cord	Podophyll
Hepatica	Geranium
Erythra	Mullein
Viola scab	Hydroph can
yellow Tullium	^{luteum} sessile
(like Core Branch, Prunella)	
Sol. caesia	Syringium
Viola hirt	Alsp. lan
Sedum	Dent lac
Ran. recur	Actaea
Caulophyll	Eryngium obs
Emulacium	
Polygon. pub by	the blue glacous
Impatiens pall	like Cartelans
Dent. diphyl	

May 7

Chimney Tops trail, ^{toward camp} down

Higher than yesterday's
 core, & ^{much} more hemlock &
 lots of Rhod. & Leuc. & blue

hemlock	###	###	###		17	Prof. east-m N 4
tulip	###				5	
red maple					4	
silver bell					4	
Lilia	###	###	###		18	
red oak	###				6	
buckeye	###				5	
ash					2	
^{lgmta} birch	###				5	
Carya cord						
s. maple						
beech						
				Chestnut		
				magn. frax		
				y. birch		

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Under

s. maple	^{ash}	Hydrangea
birch	^{cherry}	Acer penn
Carya cord	^{tulip}	Doib. alnif
hemlock	^{red}	roc. leuc. & Rhod
Amel		Evony. obor
Stell. pub-pyl		Asp. spin
squirrel corn		Polest
Tuller white, blk		Asplacr
Amnif		^{any} Cystop. flag
Polyg. bif		Liarella
Caulophyll		Albium tree
Aster div		Luportex
Plant. dist		Mitella
Ran. abort; recur		Liarella
Jack		Hydroph can
Protopop; canad.		Desp. lan
" blanda		Mitchella

Thalictrum (small + imbr.)
Geum vernum
Solidago caesia
Monarda
Oxalis mont
Houstonia
Aristolochia macul
 blackberry
Actaea alba (w. pulchra?)

up, from post - into
 a cove around steep creek
 bed -

buckeye	###	###	###	###		23
red maple						2
Bet. lenta	###					-9
s. maple	###					6
Lilac	###	###				12
ash	###					7
hemlock	###	###				14
silver bell	###					7
red oak						2
tulip						1
beech						3
chestnut				chestnut		1
under- brush				vib. alnif		
s. maple				Leucocline		
Amel				Rhod		
Acer penn				Hydr		
red maple				Acer spec		
Lilac						
ash						
red oak						

Trillium, white Asp spur
 Hesper. low J
 Stell. pub syl
 Cimicif
 Ermy. rbor
 squand com Ticiella
 Allium bre Oxalis mont
 Cauloph Eup arctic
 Taraxella Erythra.
 Aster div
 Polyp. hll
 Dent. diph
 Viola can; blanda
 Clayton. vrg
 Imp. pallida
 Smilacina

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Higher, becomes even steeper,
 MM pencils out & mostly
 birch with some buckeye,
 & hemlock.
bit. along much more abundant

Add to yesterday's core,
 from lower side of road

Tilia	###	###		12	
buckeye	###			7	
tulip				1	
s maple	###	###		11	52
sunbell	###			5	
Betula lenta				1	
buckeye				1	
ash	###			4	6 hemlock 17/2 magn fr. 11/2
red oak	###			1	

Trail to Laurel Falls

Gorge just below falls
open to south - deep,
but not m.m. - Has
hemlock & birch right
along creek & tulip &
magn. fr. near
Opposite, east slope
is oak (per pp) ^{& chestnut} except
for hemlock in pine
hollows & tulip, mostly
ⁱⁿ near concavities & on lower side
Altogether, estimate ^{the}
possibly 25% tulip
Above lateral ravines
all oak & chestnut
Hogwood scattered