



Hunt Institute for Botanical Documentation
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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.

Herald Square



1

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4

Memorandum
Book

F-211

E. LUCY BRAUN
2702 MAY ST
CINCINNATI, OHIO

1932 (A)

- June 20 - Cin - Berea
21 - to Burnside
22 - Nat. Br., McCreary Co
23 - Stearns timber property
24 - Cumberland Falls
25 - Stearns to Middlesboro & Pineville
26 - Cumb. Gap. (+ to Mullens)
27 - Colliers Creek to rise
 { slopes of Poor Fork
28 - rain
29 - Benham Spur
30. Black Mt, summit
 -- (see N.B. 5)
- July 7. Colliers Cr. to summit

Berea, June 20, 1932

Campus - large trees of forest -

Oaks - Spanish, black, stellata, & occ. Marylandia & occ. hickory.

a shale flat, not low; the slopes down toward bottoms same + D, prunes
Bottoms cult.

June 21

Just outside of Berea, coming south on 25 - a low shale flat; - sweet gum, pin oak, red maple, shingle oak, alder, persimmon; *Cephalanthus* in wet place.

near Crab Orchard, similar

flor (like Berea)
oak + low flats. Here
swamp white oak in
low part

Limestone belt on hills with
shallow soil - Cedar +
red bud prominent. see
Burnside.

Mississippi Plateau

beech, tulip, oaks,
walnut, hickory
In lower flat parts, oak
flats similar to Berea;
such areas small

June 21.

Miss. Plateau - 13 mi. s. of
Stanford (904)

- White oak
- Spanish oak
- Black oak
- Nyssa
- Osage, acuminate
- Hickories - ovata, glabra, lac. (?)
- dogwood
- persimmon
- Chestnut
- red bud
- (old stump - 16ft circ -
Chestnut?)
- Tulip (fig)

Understory practically same
with ^{much} ash & red maple,
tulip
yellow
Oxydendron
Amelanchier

Ground layer -
Saxifraga staminea
Desm., paucifl
Cynogl., v. r. g.
Peperomia
poison ivy
Polypodium bif
Vitis aest
Batrychium v. r. g.

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Desm. rotund
Mayapple
Vib. acerif
Corylus
Arist. serp.
Smilacina
Gentiana sp
Thal. divic
Viola hastate
Sol. Caesia
Spice bush
Arisaema
Ran. recur
Phegopteris
Horest. purp. (spec)
Aspl. filix foem
Smit. pilosa
Arabis spinosa

Burnside, June 21

Shallow soil over l.s.,
secondary -

Cedar, red bud, etc.

Rhus glabra

Cross vine

Orange milkweed

Ruellia ciliosa

Ascl. vertic.

Arenaria patula, m. rubra
Verbascum

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June 21 -

4 mi. S. of Greenwood on
So. R.R.

Enter s.s. cuts -

Mimosae (very sensitive)

Tephrosia

Viola pedata

Chrysopsis Gram.

Coreopsis major

Andropogon

Ascyrum

Altrix

Pteris

Lichen

Stylosanthes

Creeping beg (Adams Cooperia)

Smilax

Eup. pubescens

Euph. cor.

Aster patens

" linearifolius

Cephaelis speciosa

Sol. ~~terminalis~~

Polygala amf.

∇ side of
In - 2nd growth
^ Pine very & eck.
red scales, chestnut
sh.

No man's Hollow -
Gorge stub in sandstone
Plateau above, as named
In woods, ~~add~~ add arbutea,
Lamb.

At edge of cliffs & down
Larch
Rhododendron
Clematis

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Red maple
Amelanchier
hemlock
Oxydendron
Magnolia tripetala
tulip
dogwood

June 22

Road to Natural Bridge

Pine-oak-type oak
with oak type

Pinus echinata + big

Quercus prinus
marylandica

coccinea

Nyssa *velutina*

Carya *alba*
ovata
cordiformis

Solidago odora

Acer rubrum

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Ceanothus

Drydenia

Rhus copallina

dogwood

Vaccinium

canadense

Azalea lutea

Eup. (Cedar Ash rd)

Carex major

Lespedeza spp. { tall fronds
" glab
" puber

Clitoria

Angelica

Helianthus div

Juncus marit

Potentilla ~~ca~~ *pernua*

Aster pumilus

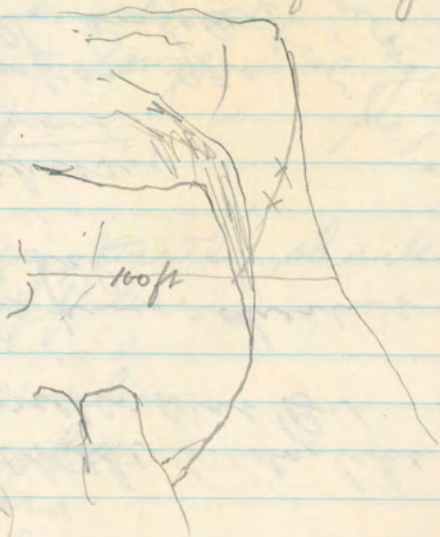
P. teres

Sarcocarpus aster, Trin.
Festuca octoflora
Lanthonii
Asclepias, spec.
Solidago odora, wherever
more sandy
Locally, *Schrankia* &
Trigonja
Aletris
Hesperis matronalis

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Natural Bridge,
McCreary Co

141. - over bay of "rock house" &
top of bridge 100"
Span - end of "rock house"
arch to far end of bridge 300"



141

veg. at the bridge like
P. melco not B

Val. pine - chestnut
P. sch

Leprosia

Chrysospor gr
Ascl. amplex
Diatus spic

tr. Arbutus
intergreen
mt lateral
bas. - tall
bas. var
Aster palae

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with pedate

In the flatter sandy
areas -

Tephrosia
Chrysospor
Sob. nodosa
Andr + Sorgh
Coreopsis
Pc. Monarda
bicolor
pedate

Steeper, partly shaded
& cliff areas

Asp number
Onoclea
Cestrum
Rhod

Vib. acer

Shaded cliffs -

Heuchera rugellii

Silene rotundifolia

Thal. clavatum + Columbia

Hemlock in the crevices

+ much Rhod.

Asarum arrow-leaf

Moyn. ~~frax~~ macro

mossy mats

with
Mitchell

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The northern slope -

steep - but. parts of cliff

Laurel

vac. var + a taller (black
not resound)

+ under layer

of *Gay. brachyactis* = ground
Arbutus fructuleting

Montano

Polytrichum + ferns

Lycopodium ~~clav~~ obs

Mitchell

Viola ped

Sarcocarpus ast.

In pockets - *Aspl.*, *montano*

Tall emerg. vac (vac. arbo)

Holly near top

On top of rock Plateau

Pinus virgin.

" echiniceps

Holly

Gayl Baccharis

Vacc. spp

Polytr.

Marginis of A. S. m.

Rubus

hedera

Invasive mats of
Polytr.

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Cladonia

Invasive shrubs

top. bar & Gay

Holly, spruce pine

a little Sassafras

Thin, sand acc. & the

top. sandy soil plateau

(Q. marit)

Salt peter Caves

An enclosed SW cove
very meso + west, main

Tulip		
Rhod	ferns - chest	
Laurel	marsh	
Clethra	} big cladrastis	
beech		" hemlock
hemlock		basswood
Magnolia		sugar maple
Yel birch		beech
Dogwood		Carya alla? + etc
Under "rock houses"		Chestnut
Thalictrum	cladrastis	
Columbine	tulip	
Hercules ruyel	birch	
Cross vine	+ climbing	

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Ferns among blocks of
stream slope below
cliffs - Aspid marginal
Spiraea
Noribranin
Polyst

Witch hazel
Viburnum acer
papaya
redbud

Passiflora lutea

more beech + birch
low in valley

Mesophytic forest of
valley -
mixed woods of

beech, birch, tulip
maple, larch
etc - as listed
under big

many ferns &
various ~~wood~~ herbs

Develops a small wet
valley floor, many
ferns - asp. rose bay
Dem. cin.,
beech & hemlock, birch
Rhod

Open still more
white oak

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River gin

occ. wet mossy floor
w. Sphagnum & Polytr.
ferns & Carex
Iris cristata

K. T. nr from Stearns

Sweet Gum ripens with
bush of lower slopes &
w. syc. of flood plain.
Ulmus alata var. *surgens*
also cucumber

3 magn, in m. meso
m. macro, acum.
trif
beech & white basswood
prime.

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(Tenn.)

Summit, at end of run.

white oak

Chestnut oak

red oak

black oak

tulip

cucumber

Nyssa

Chestnut

dogwood

Under - same.

Not great var. in shrub
& herb

Drop off in Cove
 E. Heavenrich track
Unsect 6500 acres

tulip (1/3), hemlock (1/3)
 basswood
 walnut
 cucumber
 red maple
 maple
 red oak
 chestnut
 ch. oak
 myrtle - big
 birch
 hickory (cord)
 burkya
 under

Picture #12
 may 1/2
 white oak
 burkya
 40 acres

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hemlock
 3 magnolias
 dogwood
 clematis
 poplar
 bit oak
 bit oak
 hickory (cord)
 birch
 holly
 virginian
 persimmon

25
 66 to 80
 40 acres

Lower,
bush much more
prominent

bush
sugar maple
1st. oak
see neps.

~~Picture
No 2 in this~~

bushdom in understory
5-6 ft

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Eye for size -
exactly like ours

L. s. forms a ledge -
at bottom
Alder
much redder
Rhamnus ear
Hazel
Pellaea & Woodrue
Cross vine
Gentiana yellow
Salix lyrata
Aynoglossa very
Walzing fern

Ascent -

primary clay + shale

Prims very

metamorphic - refage
Coal

Back into lower slope
virgin stand

tulip very imp
60-70 ft to first bank
40 in through

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tulip, beech, cucumber,
chestnut, basswood
burkya, wh. oak, Nyssa
hickory
(Picture # 3 in this)

Morning area in
Heavenridge Tract,
on Tenn. side.

Stearns Coal & Lumber Co.

Trip down to big tulip -
Trillium erectum
sp. in
flowers like
Little Bandy

Cumberland Falls
June 24
Eagle Falls trail

Ericads: laurel

? spec.

Gayl. or vac. tall ^{cr}

Galax | cluster
| vac

Arbutus

Rhod

vac. stem vac

vac. leaf

Evonymus - rough berry

Amelanchier

Choke cherry

Vib. acer

Cross voie

Asarum - arrow

Aster divar

Ilex

Trees

Stimulark

Spr. gum ^{in river} + up
shrub

chuscu was

Nyssa

branch

red maple

Magn. mass

Holly

Arabis spenosa

virg. creeper

Polka my

Oxydendron

Mitchell

Locust

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The usual rock (s.s.) plants

Heuchera pugli

Aspl. parvula

Heuchera - bogonia (dry)

Polypodium

Aspl. mary

Silene rotf

Thalictum clar

Osmunda regalis in rock

Climbing fern

Viola blanda

Asplen. pennat

" montanum

Antennaria plants on

dry mossy rocks &

banks

Houstonia long

Houstonia corymbosa

Elephantopus, pub. fulva

Along creek - Eagle Falls
in shaded crevice
(Saxifraga) Bryhnia
Xanthoxyla

Pink azules Pitung
alder
Royal ferns
Troutvelleria

Iris vers. cristata, a little higher

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June 25

Terrace # 27, just s of
state line.
ballyhead on plateau

Y. Pine + oak give way to
sweet gum, red maple
nyssa, pin oak
Betula nigra
Alder Shingle oak
Pyrus melanocarpa Persea
Eucalyptus - white, bella
var. aff. Lyonia
Aronia - 2 spp
Spiraea tomentosa
Ilex vert.
Cephalanthus

Osmunda cinn
Lygodium everywhere

Rubus, creeping (like *ovatus*)
wintergreen

Lycopodium obs

Osmunda regalis

Solidago rugosa

Holly

Evonymus - tall prickly

Polytrichum

Panicum sp.

~~Cornucopia falls~~ ^{Itaya} ~~stems~~

Rosa carolina

Byssochloa, whole quadr.

Rhexia?

swamp fern

Sturtonia lance

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Juncus effusus in
wetter parts

Hummocks of *Clematis*,
Thuidium + *Carex*, *Polytrichum*

Viola cuc.

Inside where the big
trees are - aspect of
our upland

Streams heading on the
plateau, i.e., above the
heavy s.s., & on the shale
stack on flats, frequently
as swamps. Pin oak &
sweet gum are always
present; alder prominent.

This area has big trees,
& among them not many
shrubs & herb. plants, but
moss hummocks like upland
Shrubs nearer stream & along
edge. Ground wet, soft,
but scarcely swampy
pine-oak pin-oak virginiana pine-oak

Streams finally cut
in & then only a few
trees of sweet gum &
syc. nearby.

Sudden drop over p.s. ledge
accompanied by complete
change - hemlock & sp.
of M. meso forest along

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lower slopes; oaks &
oaks & hickory above.

Broad stream valleys
after streams emerge
from their gorges -
sweet gum imp.,
Ulmus alata; pin oak
usually on occ. cecumbe

Most perch valleys cult. &
only remnants remain.

June 25-32

Coming over to Jellies -
a l. o. outcrop nr.
cedar, Phoradendron car.,
Ruellia, etc.

12. Black Mt. and lower
ridge in Cumberland
Mts. - steep, near
top, location of Bonanza

slope of Black Mt

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11. Near of Pine Mt. and
Cumberland from lower

10. Red Agate

9. South from lower
part of Black Mt

8. In line

7. From the top of
to north of one mt. group.

6. From lower part of
Cumberland

5. From top of
Black Mt. near
top of ridge

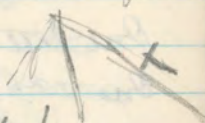
4. Black Mt. &
near top, left of
+ *Amorpha*
One little clearing, *Compositae*
One 2' high tree, *malva*

3. Black Mt. &
near top, left of
+ *Amorpha*
One little clearing, *Compositae*
One 2' high tree, *malva*

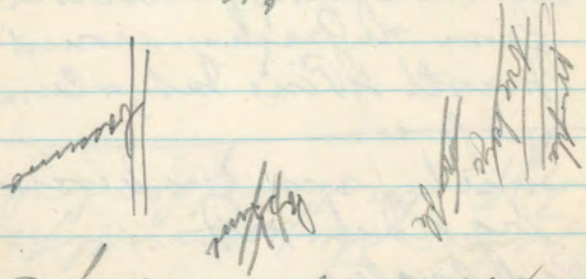
2. Black Mt. &
near top, left of
+ *Amorpha*
One little clearing, *Compositae*
One 2' high tree, *malva*

1. Black Mt. &
near top, left of
+ *Amorpha*
One little clearing, *Compositae*
One 2' high tree, *malva*

3. Look in the down 45° slope
 structural markings



45° slope
 All transition into water,
 in the near beds
 formed then - see
 see photos, for each

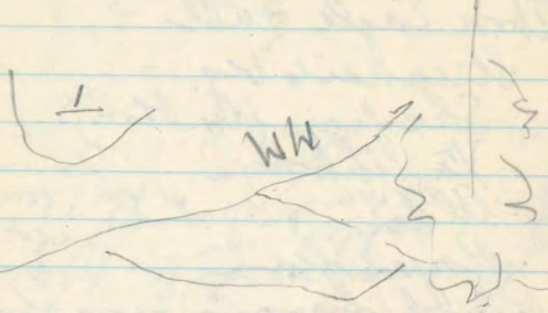


III. All beds are about (9 ft)
 + K11
 present in the middle

(Recent to Boston 27)

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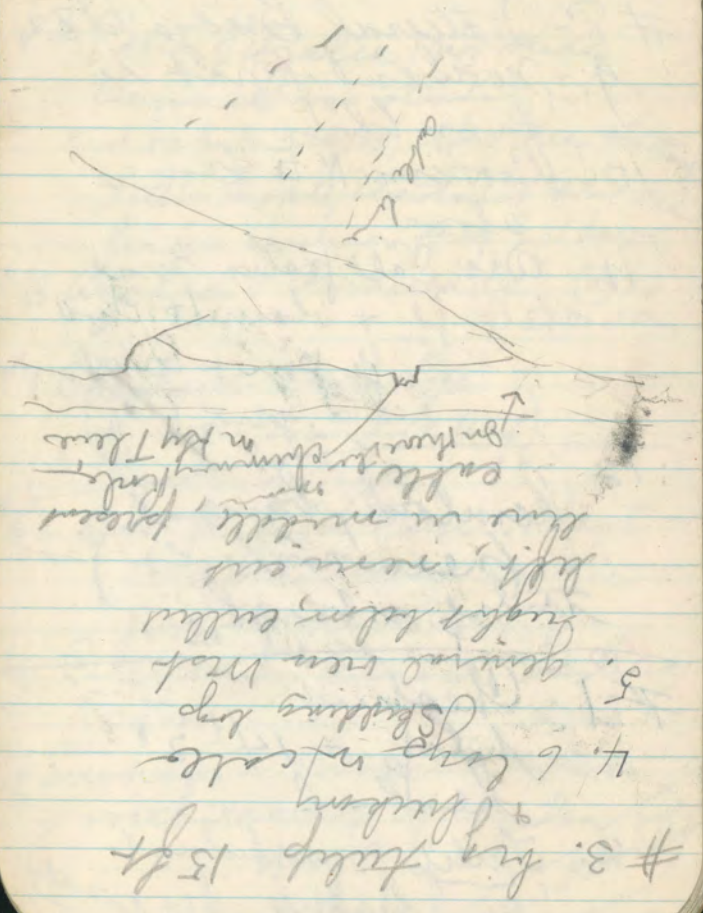
12. River Ridge from
 just below the middle
 of the lower carbonates
11. Gap in Pine Mt. where
 the 25 ft goes through



#10. Cumberland Mt
 Term
 trip the light zone
 young the light zone
 in the middle course 4/11

- 9. Chimney Falls -
 Steamboat (in town)
 Kaminberg
 Baker
 Royal Farm
 Road, hanging from above
 Humber, hanging from above
 into creek
 with water on the right
 left hand
- 8 Cumberland Falls
- 7. Big Tree 7 1/2 to 8 am
- 6. Indian + a tall maple

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2. Strip in summit
 (in account)
 August - 14/24

#1 - ~~K10~~
 Chestnut
 (near summit)
 Strip - 14/24

11. On salt hole area
 with
 10. Looking NE from
 summit
 9. North end of mt. S.

#8 - National Bridge 6/22
 I = K9

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IV = 1/24
 Azalea at 3'6 K12

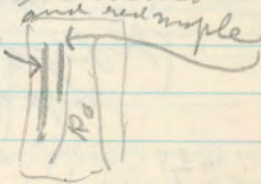
- ✓ 2 Patch of Azalea (near where
 Clements was standing)
 red oak to right, other trees chestnut
 Little maple, chestnut + red oak
 ferns under. 1/2 on 3/2 begin
- ✓ 3 Azalea & Osmund (8ft)
 1/2 on 11 run
- ✓ 4 Chestnut on ridge
 ferns (Osmond + Asp)
 Azalea on right
- ✓ 5 Big ferns - Osmond. Clayt.
 like chestnut - maple
 just over summit
- ✓ 6 Common ferns in chestnut
 as in
- ✓ 7 Summit chestnut as in
 with masses of Azalea

1/10
 1/10
 1/10
 1/10
 see notebook II

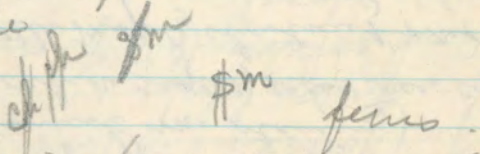
V-^{K13} 12. Creek in
 forest counted on
 Collier's Creek
 Collier's Creek - right fork
 $\frac{1}{2}$ m 22

VI-K14

*1. Big red oak on summit
 to left, chestnut ^{and red maple}
 (12' 9")



*2. Sugar maple - chestnut summit
 type



*3. Virginian fir narrow ridge
 above Collier's Creek. 2 big
 chestnut oak (left) & little ^{oak}
 blocking summit (one)

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Collier's Creek
 June 27 AM

I Second growth slopes -
 (young)

<u>white oak</u>	chestnut
red oak	oxygen
beech (not much)	little flower on slope
hemlock	
Amelanchier	
dogwood	
Crab. Cree. gills (?)	

dense shrub margin
 along ed of thicket, in woods
 Rhododendron
 mt laurel
 tall oak
 trailing arbutus
 wintergreen
 pepperwood
 galax

Peperularia

Guardia Juen.

Ariseb. longi

ferns { maidenhair
Polyst

Mitchella -

red-veined herbs

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II

Grove of big trees

Represents Core type

~~Virginia~~ Fernloch

Yucca
Birch

White oak

red maple

Chestnut

hackeye

dogwood

rich understory of

Rhododendron

Peperularia

Viola rotundifolia

blanda, hastata

Mitchella

Anemone quercy

Not much on ground;

too dark

all logs & rocks & moss

Euphrates
Jacks -
T. willow
Sedum
Cercaria

Ulder 2nd ground slope

White oak
hemlock (slightly
smaller)

dense, not much below

Stream

Sometimes with
rocky banks &

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cliffs - green with moss
& laurel, & overhang
by Phos & herbaceous
Paspalum big
Some places flat

Sycamore
river birch
along stream

On flat -
mulberry
Walnut

Above fork of stream &
" " " trail

Valley bottom - (and lowest part)
not flat -
White oak | essentially
beech | a virgin forest

Chestnut - 15 ft

Butternut *Betula lenta*
hemlock tulip

Walnut ^{10'} red oak
Rhod. along stream

Amuricea mayapple
bury choker *Aspl. filix fem*
Rosa by *Viola blanda*

Carya cord chestnut
chestnut red maple
brake *Nyssa*
Magn fraser sugar maple
(big) cucumber

Eryngiosum basswood
chestnut oak
Arularia
Jack

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Mitella

pyrolaria

Rhod

mt Laurel

Aspl. angustif

Asp. novbor

Polyst

Phegopteris (both

Magnolia fraser

trip

Astilbe

medeola

orchid (beech seedling) *pedum*

Circaea

Hydrangea

Viola rotund., *espn*, *step*

Aralia nudicaulis

When percent begins,

hemlock drops out

Lower Slopes - cleared -
and growing up in
pure stand young tulip
on east slope
This where trail begins
to climb.

Rich m. mess. forest
with most of its orig.
trees. Chestnuts (nearly
dead) up to 15 ft
All trees listed are big
understory same

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June 27 PM

Slopes of Poor Fork
nearly opp. Mullens

very steep - (v = big)
✓ Thornloak ✓ red oak
✓ birch ✓ chestnut
✓ beech

✓ maple acer penn
✓ red maple

✓ tulip
Madgn. tripetala ✓ Yucca
dogwood Oxyd
Much Rhododendron
Clechra

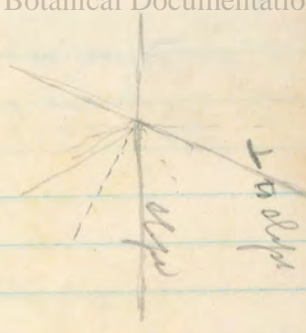
Acaena big.
Viola blanda
Polystichum Asplenium
maiden hair

June 29
 ascent of Benham
 Spurs nearly vert slope
 W.N.W.

I. Much sugar maple
 buckeye some
 tulip tulip
 beech beech
 Nyssa Nyssa
 Fraxinus loc
 Walnut Walnut
 Chestnut Chestnut
 Basswood Basswood
 Butternut Butternut

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Sycamore
 Cucumber
 redbud
 Elderberry
 papaw



Lux herb. ground cover
 of m. m.
 ferns - aspl any
 " adiant
 maidenh
 Christmas
 Goldie

Astella
 nettle touch me not
 Jack
 bloodroot
 ring creeper

Blue cohosh
 Arnica
 Cel. poppies
 touch me not
 Aspl f f
 Circaea
 violets
 Hydr. append & canad
 many others

45° slope mend
 or 30°

sol. seal
 Eup. arctic
 Smilacina

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Coming around onto
 ridge of spur -

Chestnut oak
 chestnut
 red oak
 Y pine
 Quercus
 Mt laurel
 red azalea
 vac vac
 Vitis bicolor
 to arbutus hophornbeam
 Yucca americana
 Fire pink
 Horned lily
 Steir. Oil
 Lys. quadr
 Campanula divar.
 Coreopsis major
 Aster divar
 Solidago vert

of
 Camp
 2/1/1910
 Mrs.

(more of top on next page)

Descending north slope
M.M.

Maple, red oak,
basewood birch,
silver bell(?) buckeye
big ash

South one not not
so high
small ferns
trollulus et.
Aristolochia, masses,
like grape
wild ginger -

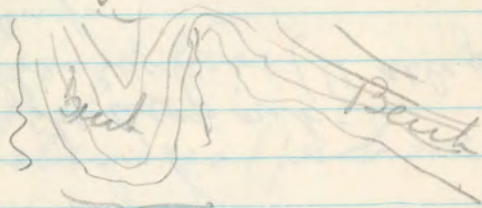
Mesophytic forest
much like that which

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we descended through in
May, except no large
birch or beech

Low on slope - enter
beech forest - beech
dominant.

(Beech belt shows plainly
looking back to mt)



This ridge beech with
dense + very large
lanceol + Rhod. or to arbutus
+ nutmeg

heath belt in sandy
soil above,
clayey

Heaths drop out -
blackberries (R. allegh.)

Camp

Solidago

Stiracina

Geranium

Artemisia

Asperula

Galium lance (purple)

Desm. acum (cuter fl. ^{yellow})

Same as where rd goes ^{west}
in area without heaths

Asclepias physalis

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Slope becomes less steep

but still ascending ridge

Add sugar maple

boxwood

walnut

hickory

Sandy again + prof rocks

Heaths

Rhod in rocks

Galap nr lance

Peperomia

Habenaria (prob orange)

A big tulip on top

June 30
Clark Mt Summit

(Aruncus on top)
Lilies have angular buds

Trail down ^{Pass By} toward clove fork

Chestnut ~~||||~~ |||| |||| |||| |||| ~~||||~~

Red oak |||| |||| ||||

red maple ||||

cucumber |||| ||||

Nyssa ||

Birch (not up to summit, ¹¹ so below)

White oak ||||

birch ||

Under Chestnut

red oak

red maple

Red oak
more imp
in upper slopes

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- Oak
- beech
- cucumber
- Nyssa
- white oak
- birch
- wild cherry

Shrubs

- vacc. spp. 2 tall
- Azalea
- Witch hazel
- Rubus allegh /
- R. purulenta
- red maple (lower) near Penn

Herbs Asp. north
 Osm. cir.
 Asp. f. f.
 Steir. quad
 medebla
 Gerardia laev
 Dioscorea
 Viola rotund
 Houstonia (spec)
 Potentilla ~~frumosa~~ canad
 Pedicularis
 Smilax bona nox ^{herbarum}
 Thaspium purp
 Clintonia
 Smilacina

(Division at cross log)

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Azaleas & vac. nearly
 drop out
 Aspect becoming more meso
 - more fern
 more beech

red oak || ^{at the} birch ||
 Beech ||||
 chestnut ||||| ^{some}
 cucumber |||
 red maple ||

when trail app. ^{head of} Roger
 Fork a 2nd growth aden-
 Azalea + ferns locally
 dom. under stand of
 birch, red maple + chestnut
 Azalea here goes clear
 to stream head

Descending on north side
from main ridge

Chestnut ### 11 ✓
red maple 11 ✓
red oak ✓
birch ##### 111 ✓
sugar maple ### #### ## ## ## 1 ✓
blech ### 11 ✓
basswood ### ### 1 ✓
hackberry 1 ✓
Ash 1111

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Habenaria in dense
meso. forest

Going around toward the NW
slope of cover & ascending
less birch & more chestnut

Chestnut ### ### 1111
red maple ##
birch 1
cucumber 1
beech 1
sugar maple 1

July 7. Colliers Creek
Black Mt

List copied from Collier's Camp

Cove: - (1) on card [off June 29]

hemlock ~~###~~ ### ~~###~~ ### ~~###~~ ||
white oak ~~###~~ ~~###~~ ~~###~~ |||
red maple ~~###~~ ||
buckeye 1
beech |||
birch 1
chestnut 1
M. fraseri ||
red oak ||||

Above fork of stream + trail
bally - (2) on card

white oak ~~###~~ |||
beech ~~###~~ ~~###~~ ~~###~~ ||||
chestnut ~~###~~ ~~###~~ ~~###~~ ||||
butternut |||

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hemlock ~~###~~ ~~###~~ ~~###~~
walnut |||
birch ||
tulip ~~###~~ ~~###~~ ~~###~~ ~~###~~
red oak ~~###~~ 1
hickory 1
buckeye 1
Magn. fraseri |||
red maple ~~###~~ ~~###~~ ||
nyssa |||
sugar maple
cucumber
basswood
chestnut oak

Steep Ascent above Castle

(3) on card

Basswood ||| ||| ||| ||| ||| |||
 Buckeye ||| ||| ||| ||| ||| |||
 S. maple ||| ||| ||| ||| ||| |||
 tulip ||| ||| ||| ||| ||| |||
 hickory ||| ||| ||| ||| ||| |||
 (close by)

Chestnut |||

Ash ||| |||

Cucumber |

Sugar maple ||| ||| ||| ||| ||| |||

butternut |

red oak | |||

(12ft →)

Sugar maple |||

Basswood ||| |||

Buckeye ||| |||

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] birch |

] walnut |

] M. fraseri | (on top of ridge)

Small birch] - start w. red oak

] place at which red oak starts

Small hickory is C. cordiformis

Lower layer, same +

ash

Carpinus

dogwood

cucumber

] stragg (on top of 1st ridge)

] mt maple

Herbaceous layer here
is ordinary meso. like
our woods

Nettle
touch-me-not
y. violes
Amphicarp
bloodroot
Jack
Hepatica
ginger
Utricularia grand
Polypodium
Sedum
Aster divaricatus
Cimicifuga (wood) + over
Osmorhiza
Cryptantha

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<u>Ferns</u> - Aspl.	f. f. <u>acrost.</u>	Golden <u>a. marginata</u>
	angust	
	walking fern	Bato. vine
	Polystichum	Phegopt
	Adiantum	
<u>Shrubs</u>	Cyst. fragilis	Polyp. macro
	Spice bush	Witchhazel
	Arnus alpin	br. acrif
	Hydrangea	berg. creeper
	Aristochia	
	Cucumber	
	Elderberry	
<u>Herbs com</u>		
	Arenaria	
	despon	
	Solidago latif + caesia	
	Carthophyll	
	Thalictrum	
	Joe pye (home)	
	Phacelia	
	Arabis racemosa	

Hydr. canadense
 Canada violet
 Solomon seal
 Juncus
 Ran. recurvata
 Allium tree.
 Geranium
 Mayapple
 Smilacina
 Samolus
 Cirsium
 Squirrel corn (corns)
 Anemone quing
 Viola rotund
 Medeola

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Ridge - + nr top,

S. maple		3
Chestnut		9
M. fraxino		1
red oak		1
cherry		2
Louisa		1
cucumber		2
basewood		1
		<hr/> 20

Round a short spur &
 back into meso forest
 maple - buckeye - basewood

S maple 10' 9"

near top of ridge
mt maple begins
Hemlock on side
Clintonii
more medicinal
Siberian
may

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High (3)
S. maple IIII IIII IIII IIII IIII
basswood IIII IIII IIII
burkaye IIII
birch II
cherry IIII
ash I
chestnut IIII #
red oak IIII IIII
cucumber II

(cherry 8'9")
Oslyja
Hydrangea
mt maple
Cornus alt

(High - grass with trees)

Compositae	Eup. urtica
Circae	Sol. caecae
Asphodelaceae	Smilacina
Urtica (red veins)	Urtica
" (red veins)	touch me not
Jack	Aster divar
Tullia (many)	Thaspium barb
Joe pye (hairy)	Astilbe Arvens
bloodroot	Helianthus
maple	Stemmen
Gallia lance	
Callisoma	

Ferns - Asp. of f. | across
 many
 nor don

Pteridium

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Summit (to N.E. of where trail crosses)

Cucumber									
Chestnut									
Hickory (glabra)									
red oak									
red maple									
Chestnut	1								
Sugar maple									
chestnut oak	1								
white oak									
(2 of them)									
(red oak 10 ft)									

Understory

chestnut	S. maple
hickory	Amelanchier
red maple	Oxydend
sassafras	
locust	
red oak	
Ostrya	
Asplen	
rubus	
white oak	

Azalea
 Popularia
 Kirtshugel
 var.
 hb. acerif

Ferns.

Asp. n. b.
 Urtica

Sob. coccin	Leptorhiza
Potentilla canad	Anemone quin
Pedicularis	Gentiana

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Steir quadr	mayapple
Euphorbia	Compositae
Thalictrum purp	Stachys cordata
Geranium	Thalictrum (tall)
Simulacra	Collinsonia
Viola (blue)	Monarda
Ran. bifida	Cyprip. acaule
Prenanthe trif	Parted Trillium
Panicum sp.	
Helianthus	
Uroscoea	
Trillium grand	
Arabis rac.	
Utricularia perf	
Ascl. phytis	
Silene stellata	

Dip down a little
 less chestnut, more s.m. a few basswood
 sugar maple }
 chestnut }
 basswood |
 red oak ||
 red maple |
 ash |

S. maple chestnut
 by the
 pit # 2

Less of a woody understory
 many ferns - Asp. n.b. + Dick.,
 from dominant ground cover

Up higher
 Chestnut down
 Chestnut |||| |||| |||| |||| ||

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red oak ||||
 tulip |
 chestnut oak ||||
 red maple ||||
 Nyssa |
 Hickory |

Combine
 with other ridge

very narrow ridge - rocky
 chestnut |||| ||||
 chestnut oak |||| |||| ||||
 Nyssa ||
 red oak |||| |
 Amelanchier |
 red maple ||||
 Azalea
 Vacc. (2 tall spp.) Pyrola
 Oxyd. Smilax bn
 Ashel

Cyprip.
 Hieracium venosum
 Anemone

Summit types

Chestnut oak - chestnut

Chestnut - red oak - red maple

Sugar maple - chestnut

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June 20. Civ. - Berea

21. Berea - Mt. Vernon -
Stanford - Somerset -
Burnside.

At Burnside P.M.

Greenwood P.M.

22. Natural Bridge and
Saltpeter Cave, McCreary Co.

23. Stearns - 45 miles on
the lumber road
Heavenridge Tract.

24. Cumberland Falls

25. Stearns - south on 27

(stop just west Tenn. line)
to Huntsville; east on
Tenn. 63 to Jellies. South on
US 25W to Morley over
Prudens mt. to Middlesboro,
to Pineville.

26. Pineville - Cumberland
Gap - Pinnacle Mt. - Mrs. Moulton

June 27. A.M. Collier's Creek
to where trail cloudy
P.M. Banks of Poor Fork

June 28 - rain

June 29 - Cumberland to
Benham Fire Tower

June 30 - Summit, Big
Black Mt

July 7. Collier's Creek, to Summit
of Black Mt