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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.



MEMORANDUM BOOK

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

E. LUCY BRAUN
2702 MAY ST
CINCINNATI
OHIO

Hyden - Hindman
Jun 30 - July 1
Red Bird River
July 6 - 10

1933
V

June 30.

West of Whitesburg

Ky 15.

up Sandlick Creek -
valley of Sandlick about 1200 ft
M.M. with lots of beech &
basswood clear to top
on E. + S.E. slopes
walnut

W. + S.W. slopes more cut,
more oak in repr., &
apparently originally more
white oak + red oak.
& beech?

Beech + basswood are
present, however, on all
slopes.

(Hemlock in warm valley)

Over divide into Cross at
Little Colly Creek 1600 ft
a chestnut oak on top

In pass, beech, buckeye
basswood, cucumber
s. maple, hickory, etc. etc.
etc. - i. e. M. M. but
more oak higher on ridge
down Little Colley Creek:

(a west flowing stream)
M.M. w. much beech &
basswood on ~~E. S. E.~~ ^{North}

On S & S.W. slopes -
much more oak (wh. & red)
with beech nearly to top

Turn in Rushhouse Cr.
& up Garner Cr. (a
general S.S.E. flowing stream,
valley rather narrow
but open to south.

Much basswood on E.
less on W. slopes

W. slope more hemlock-beech

Magn. tripetala abundant
in valley

Over into Knott Co

(cross divide at 1500 ft.)

down Breeding Creek
(flows west N. W.)

Almost all slopes M.M.
with beech, basswood,
buckeye, etc.

Hemlock & magn. tripetala
low.

Somewhat more oak
on S.W.

Betula nigra along stream
(Knott Co)

Tulip in M.M. everywhere

Carr Fork -

deep valley

M.M. forest prevails

begins to open up, with
flatter tops.

beech general

more oak on S.W.

2 pines on a cut over S.W.
slope. (prob. rigida)

Streams have more Syc. [✓]

black willow ^(B. nigra) ^{and}
white Birch along streams,
also

No. Rhododendron

since White birch.

i.e. very little, except in

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our sheltered places

Sassafras to oak

Carr Fork -

M.M. forest prevails.

~~into valley of North Fork~~

Remains of M.M. on
lowest slopes near stream:
beech, hemlock, tulip,
hickory, magn. tree,
buckeye

Enter valley of North Fork

Some cliffs - outcrop
on mt. sides.

occ. pitch pine

magn. tree along North Fork
Sweet gum, cucumber tree

A cedar belt on cleared

slopes near Hazard

limestone outcrop opp.

Ulmus alata on N. Fork
at Hazard (Perry Co)

on so. Perry Co - same
elm as at in Hasler Co
(sp. of June 7)
Pinus virginiana, Perry Co

Leslie Co. - entered on
crossing divide bet.
Right Fork Cr. & Maudsloh Cr.
Some cliffs.

Uppermost slopes
are oak - hickory with
a little pine (rigida)

Oaks seem to be white
& black.

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beech goes nearly to top
(Lunch)

beech, red maple, tulip
oxydendron, hickory, black
oak

hemlock in headwaters
of rain; magn. tree;
cypress, sugar maple
[Lunch for Preston Fork
of Cashier Creek end
of "Little Boston"
(prob. Preston Creek on map)

sweet ^(on slope) gum, walnut
buckeye, wh. oak,
nyssa (to town of Boston)
up Poundmill Branch
Pitch pine, virginiana
cucumber

Larval + rhod on
summit bet. Poundmill Br.
and Hurricane Creek
Q. stellata on summit

4 over into Hurst Creek
Down Hurst Creek:—
holly Magn. Fraxin
Magn. macro!
winged elm
other kind of elm
(Harlan Co. spms)

Back on rt. 80 to jct.
w. 15. West on 15+80
(really N.E.) up Trace Fork,
over into Combs Br. to
Troublesome Creek. Rt. 15
cont. down Troublesome;
Rt. 80 goes up Troublesome

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Keokuk Co. Troublesome
Cr.

Magn. trip., sweet gum
A. Birch (B. nigra)

m.m. west slope, on
south side of stream
also on n. side of stream

Lowell

Mostly m.m.

one n. slope, mostly
wh. oak - beech

gets to be oak at top,
but 2/3 way up m.m.

~~tree? 67.6 m
fresh ~~at~~ below
hollow m.
near front~~

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REDBIRD RIVER

Fordson Coal Co.
Harrogate Office
Fayetteville, Ky.

July 6

Big Woods Creek -
glance down road

Forest of east slope
down to bottom
blackberry, raspberry
beach, hatteray
white oak, paper
basswood, hatteray
pin oak
hatteray
butcherbush
sycamore
hatteray

REDBIRD RIVER
Fordson Coal Co.
Anna Lee Office
[Peabody, Ky]

July 6
Big Double Creek -
flms about north -

Forest of east slope:-
down to bottoms:-

elm (n. fort)	Carpinus
beech	M. trif
white oak	poplar
chestnut	mullberry
s maple	
hackberry	
butternut	
walnut	
hemlock	
tulip	

Spice bush
bladderwort
purple fl. raft

Forest is a mixed one with
high % of beech, esp. low.
Beech decrease upward,
generally dropping out
about $\frac{2}{3}$ up but occ. to
top.

White oak is mixed in from
bottom up, but prop. more
on middle slope.

Oaks more prom. on west
than east slope

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Bottoms: -

Along Red Bird, *Betula*
nigra, esp.

Big Double

Willow (*S. nigra*), syc.

birch, (streamside) &

willow, (foot of slope); sycamore

M. tripi, holly.

(Rock outcropping on
lower slopes is shale)

North Slope bet. Pegen B
& Lake

(aspect is that of Cin. forest)

Beech forest comes to
edge of stream

Beech

hemlock - a few, low down
basswood

s maple

chestnut

wh. oak

hickory (glabra)

About half way up, &
beech only about 1/2 of forest.

wh. oak increased at 1/3

hickory at 1/2

scarlet oak

chestnut oak enters, beech

M. acun

M. tit

} about drops
over

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red bud

Cornus altern

dogwood

white hazel

Carpinus

Fig Cr

vit. acerif

Oxydend

Vaccin

azalea sp

Amelanchier

Spiraea bn

Pyrola

Caulophyllum

Cimicifuga

Pedicularis

Anemone

Arist. serp.

Stellaria pub.

Smilacina

Iris

Amphicarp

Mechanica

red blood root

Valdsterm

Aster div.

Polypodium

Sedum

Asp. marginale

Hepatica

Nettle

Asp. pum.

Viola paste.

Geranium

Jack

Adiantum

Scarella

Joe pye (Cin)

Geranium

Calliopsis

Tr. grand.

Solidago caen

Eup. vertic

Hieracium

Monarda
 Medeola
 Urtica dioica
 Krigia
 Desm. nudiflora
 Higher up, where hickory
 more imp & where 1 species
 oak enters -
 Cuscuta
 Hesperis matronalis
 Vicia caroliniana
 Sol. erecta
 Onoclea
 Coreopsis major

More oak, + Azalea
~~at~~ oak, stam

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Summit of Ridge; ^{of rip slope on ridge} (a) 1
 scarlet oak 1
 black oak IIII 4
 white oak IIII 10
 pignus hickory IIII 7
 Beech (not as large) IIII 6
 chestnut oak IIII 6
 chestnut (dead) IIII 6
 Oxydendron (small) 1
 red oak III 3
 red maple II 2
 basswood 1
 hickory (7h) 1

Where chestnut has died,
 vig. repr. of ch. oak
 black oak, hick, oak oak

Understory, same, +
dogwood
hazel.
red maple

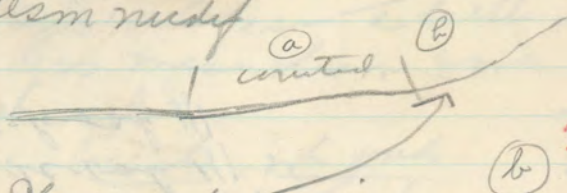
vac. vac. (not very much)
Hesperis matronalis
Vicia car.
Laciniaria integ.
Hesperis matronalis
Hesperis matronalis
Cucurbit
Lanthornia
Desmodium viol.
Potentilla pur.

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Antennaria

Urtica

Desm. nudif.



Slope up is

beech		6
tulip (stump)	(trees)	3
chestnut (dead)		1
ash		1
s. maple		2
hickory		2
wh. oak		1

East slope head of
~~Little creek~~, Pigeon Run

Considerable tulip

tulip	ash	basswood
beech	ash	s. maple
hickory		cucumber
chestnut		chestnut (dead)

A very meso. area
 with Aspl. angustifolium &
 Asp. Goldie
 Phlegops
 Phryma ~~Pezom~~ ^{Pezom} ~~Byr~~

A core head of ~~Little~~ ~~Rock~~

Ridge bet. ³ ~~Pegent~~ ~~Little~~

Black oak		5
red oak		1
chestnut		2
ch oak		3
sc oak		3
wh oak		3

Wintergreen
 others, as listed

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Coming around to another
 head -

S.E. slope - a little
 less meso than core
 head -

beech, wh oak
 s. maple, buckeye,
 basswood, red maple
 hysse, chestnut
 tulip, cucumber

More around -

east facing head -

beech	buckeye
basswood	tulip
s maple	butternut

lots of Aspl. angustifolium
 Aspl across; Goldie
 dark shady but open
 bet

Around to N. slope -
 buckeye over
 tulip
 beech
 2 maples
 basswood

Ridge
 Down to Little Creek
 Up Little Creek
 South slope: beech, hickory
 Toward top -
 tangle of mt laurel
 descent on north side
 to forks of Big Dulle
 good M M w. beech
 basswood, maple

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July 7
 Ascent of hill behind
 club house - N. slope
 (Beech forest, M M)

4	beech						23
	buckeye	x					1
5	beech						16
	2 maples				3		1
	hickory						1
	wh oak						
	basswood						1
	beech						
	cucumber						
2	wh oak						1
6	Nyssa						1

High % of beech may be
 correlated w. poor soil -
 field below woods - *Diodea*,
Lesp. striata

Smaller trees, shrubs -

- * Birch
- * Y. tree
- hickory, white, glabra
- * Walnut
- red & s. maple
- * Beech
- black
- sourwood
- dogwood
- sassafras
- Ostrya
- bit. acerif
- Eonymus
- virg. creeper
- Hydrangea
- ping

- * Cucumber
- * Bitternut
- paper
- mulberry
- Nyssa
- wh. oak
- * ash (pub)
- hackberry
- tulip
- chestnut

* larger, & getting up soon

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- | | |
|------------------|-------------------------|
| Polystichum | Eup. japon |
| Phlegmaria | Asarum ^{arif?} |
| Adiantum | Eup. vertic |
| Bistort. virg | Cimicifuga |
| | Cynoglossum |
| | Aster divar |
| berberina | v. hastata |
| Iris crist | Arist. serp |
| Desmodium | Collinsonia |
| Manispha | Solidago caean |
| Anemone | Circaea |
| Oculophylla | Phryma |
| Hesperis | Artemisa |
| Ran. recurv | Geranium |
| Hesperis | Samolus |
| Nettle | Pilea |
| Passiflora lutea | Galium |
| Smilax coccinea | Asarum can |
- at (3) vs upper 2, a little more - In ground
- Add bloodroot, Hydrate
v. palmate

④ 7

beech ###	ch oak III
wh oak II	red oak I
nyssa I	red maple I
basewood ###	Corata II
hickory I	wh oak II
s maple III	cucumber I
red oak II	chestnut III
buckeye II	C glabra I
Corata I	hulip I
ash II	beech I
ch oak I	wh oak I
chestnut I	walnut I

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In area 4, undergrowth denser - more lux., but herb. plants some more viny. creeper

" Caulophyll

Area 5 is least steep ascends to ridge top.

Ridge top is rocky narrow, may here run E-W.

Ridge, 69

Ridge cont offer
copying up again

choak III III

III III III III III

chestnut II

II

wh oak II

II

B lenta I

I

nyssa I

I

sc. oak I

I

red maple

I

hickory, glabra

III IIII

bl. oak

III

Open understory, with

vac. vac.

Azalea (red)

Sol. creta

Amel

Panicum spp.

dogwood

Dentonia

Sm b n

Cumula

Ostrya

chestnut

red maple

ch oak

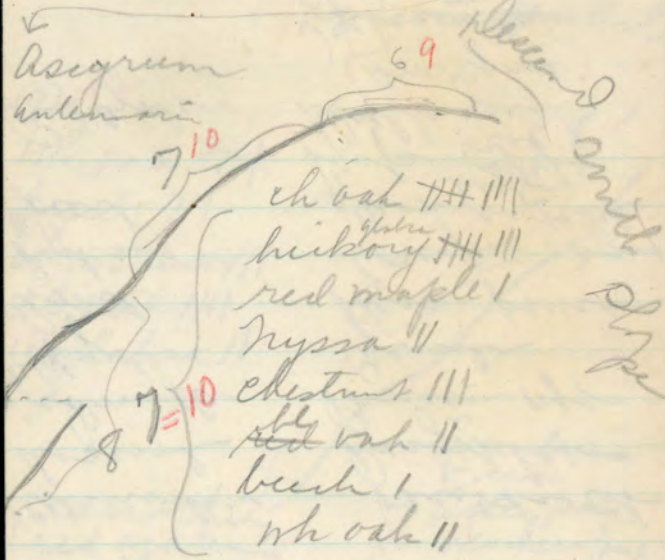
hickory

use this for
ridge top with
east-slope count
of July 9

(47)

Alcornoque mats

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- | | |
|----------------|---------------|
| dogwood | Coreopsis sp. |
| Amel | Lesqy laer |
| vac vac & stam | Lesm rotund |
| Ascyrum | Panicum spp |
| red maple | Hypoxis |
| Alcornoque | Lesp. repens |
| Sm b n | Lesm pauc |
| Despediza lute | Cumula |
| Lesm | Hort. tenu |

8 = 11

Wh oak ###
Chestnut ###
C. ovata ||
beech |
Nysa ||
bl oak |
tulip |

*cucumber	var var var
dogwood	Dasyct laer
red maple	Panicum spp
*Oxal	Arenaria
Amel	Desm pauca
hickory	Coreopsis nig
*beech	Desm. rotund
	Lesp ^{hairy} _{sp}
Red azalea	Doellingeria (sm yone)
	Heteranthera
	Antennaria
	Sarcocarpus Ast

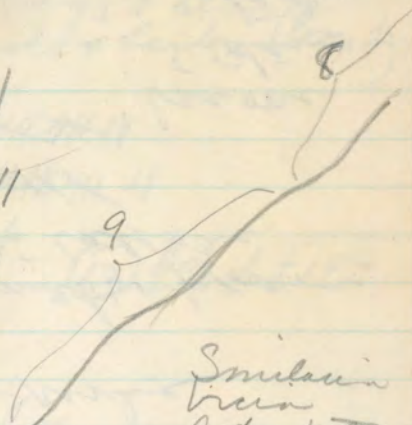
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9 = 12

Wh oak ###
beech ||||
chestnut ||||
bl oak ||||
C. glabra ||

Ceanothus
red azalea

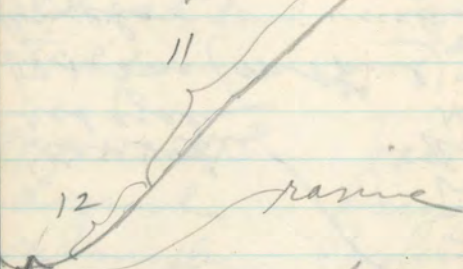
var var (var ^{so} Mich)	Stain
Amel	stall
*dogwood	Desm pauca
C. glabra x orth	Polystich
*bl oak	Panicum spp
2 maple	Eup de py
*beech	Coreopsis
*red maple	Urtica perf
*Wh oak	Kingia
*Wh oak	Asper
*touse	Dasyct
	curled



10 = 13

9

beech ###
bloat ###
chestnut 1
wh oak ###
red maple 1



Undergrowth not seen
but some tall vac.
ms laurel

* Hickory	vac vac
beech	" slow
Aspen	" tall
Oak	ms laurel
ash	Asplen

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More saplings & less (local)
low shrubs & herbs (local)

14
 11 Wh oak ###
 beech ###
 red maple 1
 Oxyd 1 12 beech 14

more woody	Iris
	bleem nudif
ms laurel	Pedicularis
vac pot v group	Asarum arif
Azalea	Plasyston
bit acerif	Gaultheria
cucumber	Sol. erecta
Oxyd	Smilax br
bit acerif	Herac
Amel	Anten
dogwood	tr arls
	Erig pulch

where gully indents S slope,
mostly beech

Up top again.

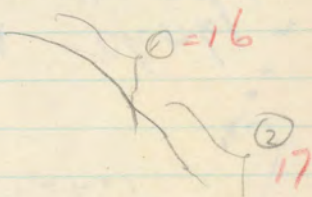
Ridge, cont. (count n. 6)
slight saddle -
chestnut (dead) TTTT
wh oak III
ch oak II
hickory I

Ascent to next knot
ch oak IIII
wh oak II
hickory II
bl oak III
nyssa I

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Going off south end
of ridge on south slope.

scarlet oak TTT-TTT III
bl oak II
ch oak I

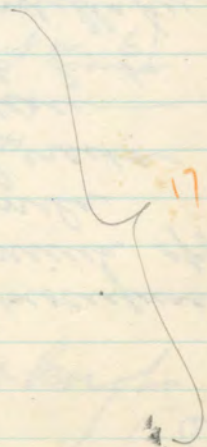


bas vac	Sarcocarpus ant
" stem	Panicum spf
Gayl	Cornia
Sm & n	Sol. creta
	Hicac
	Lesp. hirta
	Potentilla sp

Understory, same +
red maple
chestnut

② 17

② wh oak IIII 1
hickory II
sc oak 1
nyssa 1
hick 1
dogwood
Cornus
hemlock +
asp. repens
Corymbis
Cornus
Vinc
Ant



wh oak IIII IIII chook
tulip 1 sc oak 1
hick III cucumber 1
bl oak 1

not much under
but some sapling

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Under same as above -
dogwood not much
ash 1
hick IIII

Phaseolus
vac star & vac (not much)
Smilax
Lup
Scleranthus

S.E. slope to panna, con ¹⁸
wh oak IIII
hick IIII IIII
tulip II
red oak 1
basswood
cucumber 1

mixed agave
 Pedicularis
 a little vac vac
 Asarum arif
 Polystich
 Dryid
 Crossvine
 Nettle

19 NE to E

plain in ravine
 beech ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~
 tulip ~~||||~~ ~~||||~~ ~~||||~~
 s maple ~~||||~~ ~~||||~~ ~~||||~~ buckeye ~~||||~~
 bitternut ~~||||~~ ~~||||~~ ~~||||~~
 basswood ~~||||~~
 wh elm ~~||||~~
 greater mess. ind. by
 Aspl ang & across
 Spice bush

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Hydrangea	papaw
Chicaca	Impatiens
Pileo	Commifuge
Nettle	Trarella
virg cr	Eup urtic
Tr erectum	Evony
Phacelia	Ginger

Chelone in stream bed
 Mistrif sol

Cut off in bottoms -
 R Birch Onoclea
 B willow Boehmeria
 syc. Sol. serotus
 Impatiens biflora
 Panicum claud
 Ludovigialdetur Carex spp
 dodder Glyceria

Red Bird River

B. nigra } on margin
syc }
bl willow } wh elm
alder } winged elm
Potamogeton demorphus

Just back of river, on
bank -

beech
Carpinus
Basswood
Magnolia
buckeye
s. maple
wh elm

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July 10

Shaly rock cliffs of
Red Bird opp Nursing
Center, East slope

Hemlock Rhodod.
basswood
birch
maple
tulip
cucumber
redstart

Red Pine - Red Pine

Range - 10000

Woods - 10000

elder - 10000

Vahangata - 10000

Just back of river, in

Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

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Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

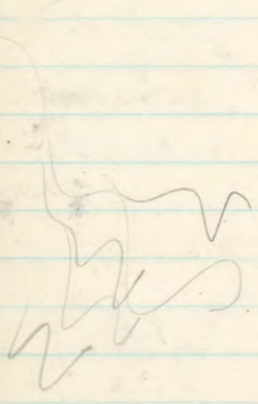
Woods - 10000

elder - 10000

Woods - 10000

elder - 10000

Woods - 10000
elder - 10000
Woods - 10000
elder - 10000
Woods - 10000
elder - 10000



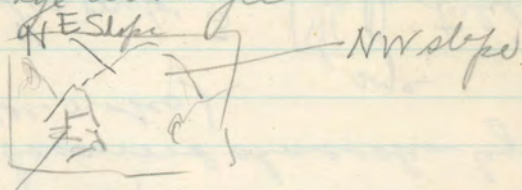
"Double Cat house"
 up there, a more & for fire
 "The highest formation of
 limestone"

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K32

X-6 1/25 m 11

Looking up Big Double
 Creek (Red Bird)
 Ridge in angle



argem

NE slope w. basswood

7 1/25 m 16

Looking up Red Bird
 from mouth of Big Double
 B. nigra in view; mostly
 " along river

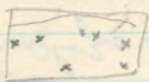
8 1/25 m 11

Fordson Camp - Red Bird
 Club House to left

9. View up Red Bird
from porch of Club House

10. Down Red Bird from
mouth of Big Dribble
1/25 on 8 - 7:30 A.M.
(not clear)

11. 1/25 on 8 hazy sun

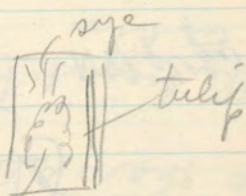


Forested east
slope, Red Bird

Reserve

* = basswood shows ohm light
(see notes)

12. 1/25 on 6. 3
Holly



Hemlock sprays in foreground;
Cross vine in tulip bed

July 8 - Up Red Bird

Beech forest of lower slopes comes down to river.

Indications are, that where a flat, beech occ. this, with trees listed for VII-7 at edge of river

Rhododendron & small herbs at foot of north slope on Redbird

Bend in Red Bird
Hemlock & Rhod.
(but not much)

Cross vine in bottoms

"Swamp ash" - a scrubby tree, 15-20 ft is Ailanthus
Catalpa - is it native

Steep west slope to river -
beech, oak, oak, hemlock
Chestnut, cucumber
Oxydendron, Mt Laurel
Rhod (not much)

Opp. east slope -
beech, basswood, s. maple,
oh oak, tulip, hemlock
(scattered)

Same all the way to
the top
(x-11)

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Laureus in river -
($\frac{1}{2}$ mi below Sugar Cr on
west side)

East slope:-
Beech 17 ft to edge of
river:-
beech, hemlock,
nutnut, hickory
Magn. tree, basswood
Rocky lower slope,
with Dicea
Saxif. virginiana
Walking fern Heuchera
Hyp. prolif

Starting up Sugar Creek

Flats - ^{judging} ~~old~~
Pinus sp. Alder
Sycamore buckeye
hickory pitch pine
sycamore tulip
Magnolia red cedar
red bud (hickory) hickory
mulberry ^{about 4 ft} dogwood
Grape buckeye wh. elm

North slope - M.M. to
base, with sweet gum
near base; buckeye

Pines prominent on
south slope, locally
oaks, mostly
w. beech, near bottom.

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North slope
beech buckeye basswood
wh. oak

After first branch,
valley closes in &
forests to bottom.
beech prominent
M.M. type

Mechanica on lower slope
Sclerocarya in bottom
Carthamus rotundifolius
in bottom

July 9 - Slopes of Big
Double Creek

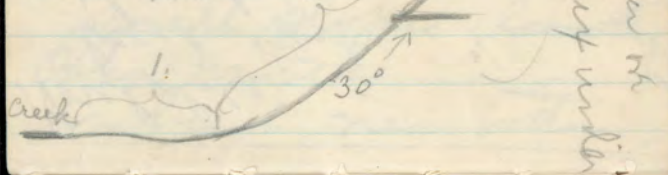
Flas 20

EAST

- ① beech III
 syc II
 Magn trip III 1
 s maple I

- ② beech III-III-III-III-III

- s maple III
 wh oak II
 ch oak II
 buckeye I
 basswood I
 red oak I
 Nyssa II
 butternut I



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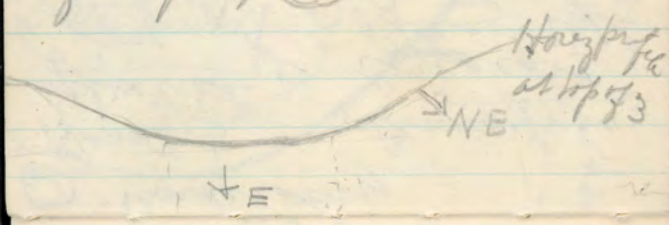
- | | |
|----------------|----------------|
| * Magn trip | Cinnifuga |
| spice bush | Circaea |
| P. iny grape | Pilea sedum |
| * buckeye | Nettle |
| beech | Impatiens |
| * s maple | Aspl. acrost |
| Carpinus | Winn leaf |
| Psedera | Jack |
| Papan | Ran recurv |
| cucumber | Synandra |
| * basswood | Onoclea |
| Hydrangea | Aspl ang |
| Cornus altern | Blodtr at s |
| Bet. lentu | } b canadensis |
| Sol. latifolia | Cauliphylle |
| Poleptich | Menisperm |
| Asarum can | L. grandif |
| Illepoen | Amphicarpa |
| Stylophorum | Phaseol |
| Geranium | Adiantum |
| Smilacina | Phyoptera |
| Eup. vertic | Arist. serp |

③ ² more rocky but much
same as ②

- beech ###
- wh oak ##
- sh b hick //
- buckeye 1
- hasswood ### 1
- red oak 1
- ash //
- tulip 1
- s maple 1

T=22

curving around to N.E.
large bush at elev.
of top of ③



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- | | |
|-------------|----------------|
| *S maple | Polypodium |
| elm | Cincomfuga |
| *beech | Bloodroot |
| Cornus alt. | ginger |
| wh. oak | nettles |
| pear | green violet |
| virginiana | Moronia |
| *hasswood | Botanych berry |
| *Hogwood | Asplenium |
| *C. cordif. | Heosecure |
| hydrogon | Geranium |
| Crosson | Bambusa |
| A glabra | Jack |
| *Carpinus | Arest. sep |
| *ash | Adiantum |
| *red oak | Circaea |
| buckeye | Ran. hisp |
| *tulip | Eup. vertic |
| Ostrya | Saxif. |
| redbud | Hydro macro |
| Smilax | Sat. latif |
| *Sassafras | Rhus typh |
| | Jack |

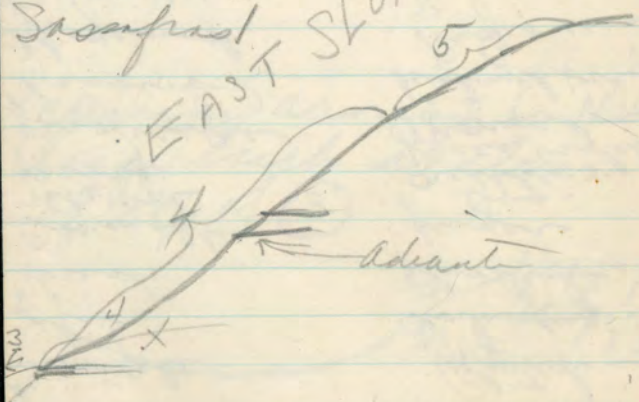
vert. part
 of
 stem
 milled

20

- (4) Comes out on ridge
 edge 4 on up
 beech II
 C. glabra II
 C. glabra I
 oak oak III
 tulip I
 basswood II
 Nysa I
 S. maple II
 cucumber I
 walnut I
 Soapwood 5

T=17

EAST SLOPE



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- | | |
|-------------|-------------------------|
| Corata | Plystich |
| *S. maple | Silene stell |
| Prick | bleom acem |
| Amelanchier | Asterophy |
| Ostrya | Rosm pau |
| Thicket | St. Polymnia |
| Smilax br | nettle |
| hazel nut | green vidis |
| dogwood | May apple |
| redbud | Botry. vine |
| H. rose | Phlog. idig |
| Ash | Cydonia |
| *ch oak | Rorycaurus |
| *C. cord | Eup. urtic |
| red elm | Hydrogen |
| *oak | adiant |
| *locust | Evonym atrop |

⑤ ²⁴ Ch oak III
 wh oak III III
 Nysa
 Chestnut (dead) IIII
 cucumber 1
 red maple 1
 tulip 1
 bl oak 1
 buckeye 1

T = 25

Under:

Ch oak	Alesm acum
red maple	" ^{nuda} _{pauc}
dogwood	Polypt
p maple	Joe pye
basswood	Desfontainia spp
wh oak	Paricum spp
Peelera	Cornus
bl oak	Antennaria
Amel	vac. enters
Sm. glauca	near p
p dog	Alesm rotund

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Follow this by ridge
 type (see "Ridge, cont")
 from July 7

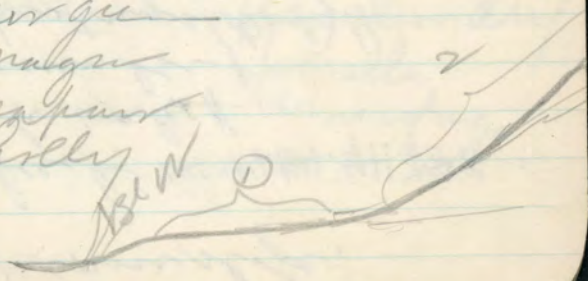
WEST SLOPE

FLAT (20 in part)

① sor gum III II
 syc III
 holly 1
 Magn tree II

Under: -

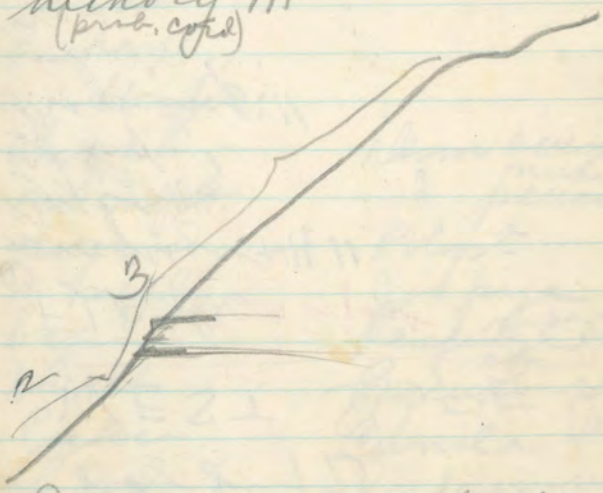
sor gu
 magn
 paper
 holly



② Lower slope:

- beech ### ### ### ### ### 27
- wh oak //
- cucumber /
- chestnuts (dead) //
- red oak //
- hickory ///
- (prob. coped)

T = 37



Less undergrowth, due to grazing

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Under-

- | | |
|-------------|--------------|
| * Beech | Kreger |
| Azalea | Mullehalla |
| S maple | Eupatorium |
| M. tree | plum |
| ironwood | Jack |
| dogwood | Apple fl |
| ash | Polytech |
| * red maple | rice |
| * cucumber | blue violets |
| red bud | Senecio |
| Amel | Gerani |
| Hazel nut | Anemone |
| * Elm | Sedum |
| Ash oak | Botry vng |
| C. rata | Asarum arif |
| | Juncus |
| | Aimophya |

③ 26

wh oak IIII IIII IIII IIII IIII I
 tulip IIII
 beech II
 hickory III
 red oak II
 cucumber I
 chestnut (dead) I
 bl oak III
 s. maple I

T=49

#3 is not dense

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Under!

*beech	Iris
*hickory	Polytrich
Oxydend	Sol. caesia
s. maple	Antennaria
red bud	Hesperis
*wh oak	Asarum
Prudera	Parthenoc
Hypericum	Geost. repens
Wormwood	Scop. vis
one vine	Diastylis
Arnica	Hesperis rotunda
red maple	Geranium
Azalea	Thymus
Ostrya	Amphicarp
red bud	Hesperis
dogwood	Bromus
*cucumber	
Viburnum	

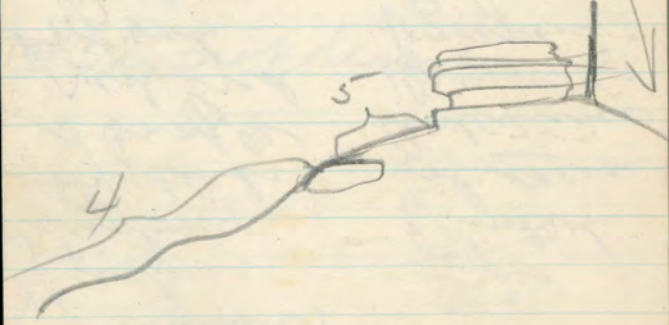
④-²⁷ specimens of leaves

wh oak IIII IIII IIII
 beech IIII
 s maple I
 ash I
 sh b beech IIII
 tulip I
 red maple I
 cucumber
 nyssa I
 birch III
 ch oak I

T-36

S. L. Howard
 Red Birch R

young



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Asnel
 Walnut
 *red maple
 *ash
 *dogwood
 Nyssa
 vib aaf
 paper
 holly I
 Ostrya
 Picea
 *wh oak
 *s maple
 *beech
 beech
 buckeye
 paper
 butternut

Polystichum
 Amphocarpus
 Agrostis
 Cynodactylon
 Cynopsis
 bloodroot

B. 28

Ch oak IIII TTTT III

sh. b. hick 1

sc. oak 1

Oxyd. 1

hick 1

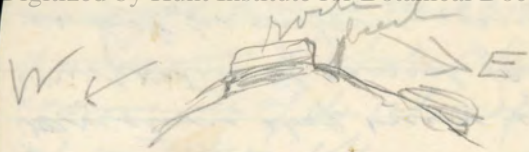
T#17

Next ridge -
but here almost none

Under:-
* s maple
red oak
* red maple
dogwood
hick
walrus
* ash
ch oak
sycamore
Prickly
sucker

Smilacina
Pipissara
Lespedeza bicolor
Carex sp
Hesm rotund
Amel
Eryngium
Oxyd
vit. acif

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On east side, beech
come to top

beech IIII w. Phrygan
hick 1
wh oak III
Chestnut (dead) II
ch oak 1

On rock:-
ch oak
Mt Laurel
var var & tall
Oxyd

General

The slope counts are representative of dissected portions of plateau where total relief is 700 ft., and where valleys are not wide, and summits are nothing more than ridges.

Local variations occur on the several slope exposures, due to irregularities in steepness - benches, slumps, outcrops, etc. - and to slight differences in slope exposure introduced by convexities & concavities of slope.

Variations also occur, apparently irrespective of causal factors, so that for instance, variations in height to which beech ascends, prominence of white oak, dominance of ch. oak or of scarlet oak on ridges, etc.

In general, beech ascends about $\frac{1}{2}$ way up south & west slopes and $\frac{2}{3}$ or more up easterly and north slopes.

Basswood is prominent on all east and north slopes; uncommon or absent on south & west.

No original forest remains in valley flats, but the few large trees along roads, edge of flats, etc., indicate importance of beech on flats. Mr. Queen - beech occupied some flats; oak

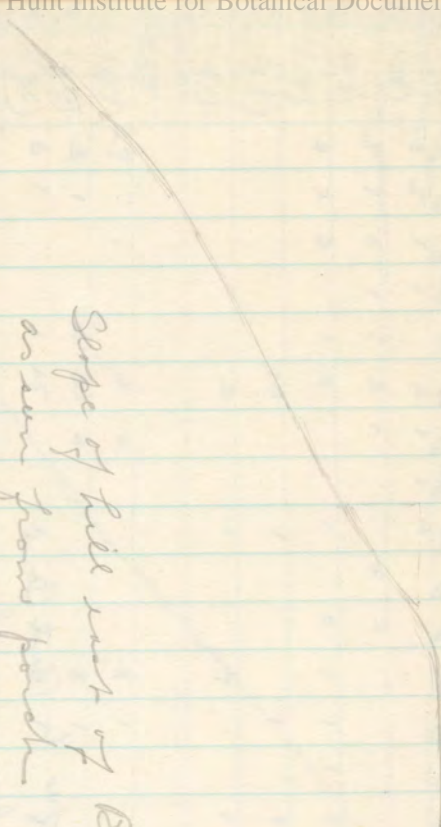
similarly, as in White Oak
Creek, white oak occupied
flats. No indication of
beech flats in lower part of
Sugar Creek.

Big tulip - in groves - up
in heads of creeks - usually E. or
N. of Big Creek N. eff.

In Powsley Co on Clay Co line,
(on property of Detroit C.)
on Buffalo Creek trib.

In Brimgardner Property
toward head of Red Bird
in Turkey Creek, trib. of
Line Fork (trees cut + stolen)

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Slope of hill west of Big Double
as seen from porch
Long slope of angle just Red Bird +
Big Double

10/17/74

beech
s. maple
basewood
buckeye
tulip
wh oak
red oak
butternut
Nyssa
ash
sh. hick
hick
cucumber
walnut
red maple
chestnut
bl oak
sc oak
ch oak

Back Cover

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"the logical boundary
of timber"

Tree Counts - Types

	<u>no. of Ex.</u>
Mixed mesophytic	5
M. meso. with hemlock	5
S.M. - buckeye - basswood	3
Tulip - sugar maple	2
White oak - beech	2
S.M. - chestnut	2
Chestnut - white oak	3
Chestnut - mixed forest	5
Chestnut - chestnut oak	6
Pine - oak	3

On Black Mt, white
sub drops out as above
3000 ft.