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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.

W. W. V. 1914



NOTEBOOK

No. 94 $\frac{1}{2}$

8

counts
entered on
cards

E. LUCY BRAUN
2702 MAY ST
CINCINNATI
OHIO.

Sept 17. Cini. - Morgantown, W. Va.

" 18. Cooper's Rocks (A.M.)
Morgantown - Oakland
(mt. 7); N. on 219 to 40-
to Frostburg

Sept 19. Frostburg - Keyser-
moorefield; Lost River St.

Sept 20. Moorefield - Monterey (220)
- 271 to mt top. + return

Sept 21. Moorefield - Mouth of Seneca
- 28 to Thurwood - 250 to top
+ back + to Frost + Marlinton
- Elkins

Sept. 22. Elkins - Huttonsville
- 250 to Durbin, Shaver Mt.
back to Elkins

Sept 23 Elkins - Linwood -
forest area - Lewisburg

Sept 24.

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Sept. 17.

En route;

M.M. in the entire area
traversed. Much of all Pl. is
of the less rugged to rolling
type & in these parts, a higher
proportion of oaks, but still
the forest is mixed.

All of the W. Va. pt. so much
cut over exc. occ. smaller
areas, usually steep & northerly.
These with high %age of beech
but buckeye, s.m. Tilia also
present.

Southerly slopes & upper
slopes more oak & prob. more

Sept 17

be considered as oak-hick.

Bet. Clarksburg + Morgantown,
good M.M., appr. northern
effr with large amt of s. m.,
red oak, beech; buckeye + *Tilia*
^{tulip}
& cucumber, cherry, present.

One dissected part of strath
in Fairmount, a small area,
lots of beech (w. other spp), showing
orig. occupancy of M.M. &
1/4 mi. away in exactly same
sort of top. sit., oak (white &
red) of fairly large size &
perhaps 100 yrs old.

i.e. oaks replace M.M.

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in secondary devel.

In a few places (straths?) white
oak prevails

Sept 18

Morgantown - Cheat Lake -
Cooper's Rocks.

Good M.M. on slopes of Cheat
R. with large prof of s.m.
& red oak. Lots of tulip

An area just across Cheat
River & on higher strath(?)
is mostly large white oak

Cooper's Rocks - overlooks
gorge of Cheat River

Crest & upper s. w. slopes
are ch. oak & Bet. lutea (on rocky
parts)

Opp. slopes is M.M.

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^{Polleniferous}
Rocks look like "Key cliff"
section with much Rhod.,
Kalmia, vac, & Gaultheria

Woods on trail to Spring:
ch. oak, red oak, chestnut
(cut out, but ind. by stumps
& small ones) hickory
red maple, sc oak,

occ. Acer penn;

bib. acerif., dogwood

In places all ch. oak - shallow
soil over rock

Becoming more meso down
slope at end of trail
with tulip, etc.

lots of Dsm cin, Adiantum

Cornif. ^{Aralia nudica}
Collinsonia

Sept 18

"Rocky City" - clefts bet. rocks
with ch, ch, oak & tulip.

Rhod, asp. spin.

Nyssa, Sassa. (big)

Some of the dead chestnut so
large that obv. primary

Back to Morgantown

& take rt. 7, east

From Morgantown to
Mason Town, rugged
country, strongly dissected,
with s. s. cliffs capping
some hills.

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This section is prevailingly
m. m. regardless of slope.
Very large amount of tulip
reproduction.

Forest with beech, s. maple,
Tulip, cucumbers, Tilia, red
oak, etc.

Just past Mason town, come
up onto rolling plateau
(see geol. map), due to "Deer
Park Anticline" & exposure of
Dev. strata. Greater amt of
oak, esp. wh. oak.

Around Oakland & north
to Deep Lake Lake -
much s. wh. oak

Sept 18

In places much wh. pine
This cont. over all the flat-
topped mt area - in
places hemlock. In
~~streams~~ & on slopes of
& on mt. slopes rising above
the tableland, much small
y. birch.

The whole appears to be
a so. extension of the hemlock-
wh. pine - n. hardwoods.

The agr. is northern -
buckwheat the chief crop

Negro mt. on U.S. 40. 2908 ft

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Witchhazel in full bloom on
Negro mt, Sept 18.

A broad flat valley
in the mt. is swampy
with much alder, - wh. pine,
hemlock etc.

Toward meadow mt. -
some very good hardwood
forest is s. maple, beech,
birch, etc.

Dense fog from east to
top of meadow mt.
Brilliant sunshine to west.
Foggy all day at Frostburg

Sept 19

On md. 36.

Frostburg to Conowingo,
still the higher valley
aspect with broad rounded
valleys & not steep mt.
slopes.

Very much s.m., also
white oak, beech, Tilia
brich, wh. pine, & in
places near streams,
hemlock. More oak & hickory
S. of Conowingo, valleys
deeper & narrower, mt.
slopes steeper. Both
sides M.M. with beech,
s.m., Tilia, tulip.

wh. oak, red oak, Tigra
& more oak higher on
westerly slope. Many
flatter spots, ^{gentle slopes} have s.m. &
wh. oak, chiefly

All the way to Keyser,
W. Va. is typically M.M.
Potomac valley - Syc. or r. birch.
Going S. from Keyser,
follow up stream at
base of a mt. on our
left

The slopes of this mt.
have s.m., Tilia, beech,
red oak - i.e. M.M.
(Rocks bet. Westport & Keyser
on W. Va. side of river are

Sept 19

almost vertical. Strongly tilted on W. side, the purple red rock seen several times farther west.

Rocks in base of mt just S of Keyser are light colored & are dipping into mt. about at \perp to creek

A lot of oak a little higher up.

Knobly Mt (1401 ft) on US 50 + 690. - still

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strong M M on both sides (before & after crossing), lower slopes on each side upturned shaly rock.

Then an area of shaley mts or hills is all secondary oak or O-H with much P. virg. and ~~badly~~ slopes showing shale (i.e. soil mantle gone).

Occ. small p.m. under oaks ind. devel. stage in sec succ. of oak.

Coming up higher (on 220)

Sept 19

[On R. & V. p. 100]

There appears to be a higher dissected partial peneplain of gentle rounded slopes, above which on our left at Hampshire-Hardy Co line & on into Hardy Co. rises high steep mts on the face of wh. appear (vertical) slabs. The "partial peneplain" mostly farms but has much oak. In a few places as we come over, consid. s. m.

Cut through mt. following a stream gap in massive rock - narrow gorge.

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Here are Tilia, maple
Then follow small sts. in broad open valley to broad flat valley of South Branch Potomac R. No forest remnants - all farms.
Moorefield -

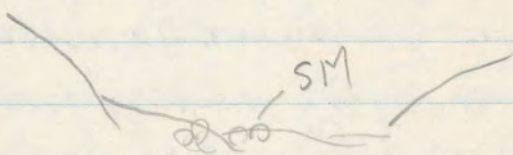
follow 23 to Baker to Mullins
South Branch Mt - 2261'
" " " 2296

Coming up out of Moorefield ascend to a higher peneplain. farms & oak.

At Lost River where rd crosses, large s. m. on low flat little above creek
On rt 56 look east

Sept 19

across valley to very
steep lower slopes of higher
range. In places much
hemlock & ~~at~~ very near
base, some SM. Tulip
fairly well scattered on lower
slopes w. oak - similar to
oak-tulip at Douthart?
No Mathias



The slopes slaty rock
oak, pine & D. decolorata
& bac.

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No low or underground
stuff of MM root.
So little indication any
where of MM (except SM on
low rounded slopes & in
valley flat) that it does
not look as if this is MM region

Lost River State Ph

Trail from cabin 5
wh oak red maple
hick tulip
nyssa
red oak
chestnut
ch oak

Sept 19

boxwood

Kalmia

Gaultheria

bac

Lyonia

Azalea - 2 sp

Amel

Haman

Rubus black.

Ceanothus

rd lv pink flowers

Gillenia Trif

Chamaepitys

Sal. exim

Collinsonia

brun car

Pilea

Hicksonia

Hier. pan

Cimicifuga

Aster macro.

Hesmeria

Amphicarp

Stein quad

Eup. urtic

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orig wh oak on lower slope

big ch. 1

Getting up on slope

more Gaultheria, Kalmia, bac

Hep. obt, Pyrola ellip

Epigaea Gaylussac

None of the moss. herbs

Eup. sessil.

Aster und

Lesp. viol

Dasyst - pub. cuneolus

Polyp. hfl

Sept 19

The dominance in the ground layer of a good oak forest veg. (w. many sp) indicates former oak over at least a fair amt of area

Where the little pannes indent the slopes - the growth is approx as in 1st list

A big red oak
A .. *Nyssa*

Aralia nudica

Urtica pub

Euphrasia

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Chamae

patches of *Qu. ilicifolia*
Viola pedata

Higher, much *Q. montana*
Pac.
Cunila

Table mt pine

On the return trip (short rt) to Moorefield - no big timber - but all oak or oak & pine.

Sept 20

Forest Ranger at Petersburg
30-40 mi. east - forest
mainly wh. oak with
bl. oak + tulip.

Here not ^{so} much wh oak,
mainly ch. oak (often ⁷⁰ch.
oak). Where wh. oak, also
red oak, some tulip.
Here y. birch, some bl. birch
& cherry. These not east

Much virgin timber
in the Warm Springs
district (w. much wh oak)

At Brokenneck Creek nr Baker
F.S. cut wh oak from valley; sides
ch. oak

Vaaler
S. side

At Petersburg Gap where
South Branch of Potomac
breaks thru, there is
a little M M on very steep
slopes - massive rock
Saw this on left hand
side as we go south

Going south - cont. mostly
oak. Opp. side of river
(left) steep mt slopes
have some spruce &
apparently somewhat
mired in places - tatters of
fr of steepest slopes

Sept 20

S. of Franklin + at Cave
+ S of cave - several places
where big s. m. coccipus
low flats, w. occ wh. oak
while adj. lowest gently
slopes are wh oak w. occ
s. m. S.M. seems to
occ. the ~~flats~~ ^{flats} wh. in
area of MM would be the
beech ~~area~~ valley flat
association.

just south of Cave and
on S. Brand Pot. - b. s.
cliffs. Arbor vital along
cliffs + upper edge of str bank

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About at the Pot - Jackson
R. divide - forest looks a
little more mixed. More
s. m. and not confined to
valley flats, though still the
tree of valley flats

(Have seen no beech since
just S. of Keyser in Pot. valley)

Follow 271 up toward
W. va. line

Forest has much s. m.
along valley bottom we go up
lowest slopes - oaks (red +
wh), birch, s. m., hemlock,
wh. pine

Sept 20

Tilia, walnut, cucumber

lots of dogwood

Rubus odoratus

Asp. spin

Eup. urtica

On our right - big trees

wh. oak,

red oak

s. maple

Tilia (one little lat. rem.)

elm

hickory

cucumber

chestnut

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Sugar maple & Tilia
limited to flat & lowest
slopes.

only oak above, w.
some cucumber

up onto open slope. w.
asp. & lac.

oak

hickory

chestnut

cucumber

red maple

chestnut oak

Higher up, a higher
slope of chestnut oak
& in places chestnut

Sept 20

Alleghany Mt. 2950⁶
at N. Va - Va line

Over the top on N. side

Back over onto Va side &
part way down: walk up
a trail up a S.E. flange little this

| | | | |
|-----------|--|--|----------|
| oh oak | | | 7 |
| red maple | | | 3 |
| Fern | | | 6 |
| red oak | | | 14 |
| chestnut | | | 11 |
| sh. birch | | | 1 |
| cucumber | | | 4 |
| ch oak | | | 8 |
| s. maple | | | 3 |
| hick | | | 3 |
| birch | | | 1 |
| | | | <hr/> 61 |

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Hamamelis

Corylus

Acer penn

poor herb layer
not ericaceous

occ. *Eup. urtica*

bloodroot

C. canadensis

Polyp

Asp. mary

Round slope onto slopes of
higher creek ericaceous

Sept 20

undergrowth in oak forest

Going up another run

| | | |
|----------|-----|----------|
| wh oak | | 4 |
| s maple | ### | 9 |
| red oak | ### | 5 |
| chestnut | | 1 |
| | | <hr/> 19 |

but no spruce up sides

The above on a sort of wide
ravage bottom

chestnut

hickory

wh oak

red oak

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A small beech or hemlock
in ravine where it hangs
ft of a slope

Flat of the big creek

up in mts

| | | |
|------------|--------|----------|
| red oak | ###T## | 12 |
| s maple | ### | 8 |
| hemlock | | 2 |
| wh oak | | 4 |
| chestnut | ### | 7 |
| red maple | | 2 |
| Bet. lenta | | 1 |
| beech | | 1 |
| elm | | 1 |
| | | <hr/> 38 |

Sept 20

Lower SW slope

red oak IIII 6

wh oak III IIII 9

ch oak I 1

chestnut I 1

Licki I 1

s maple I 1

cucumber I 1

20

Valley of Back Creek

WNW slope somewhat

ripped but much oak

S.M. goes up a little way

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~~Crossed~~

gentl statement: no

def. in aspect between

convexitas & concavitas

of mt. slope as is so

noticeable on Black Mt.

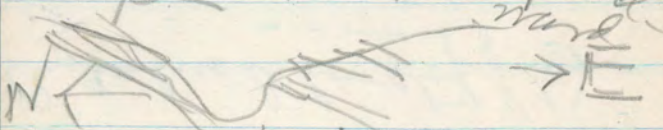
n. of Monterey on

W. Va - Va. line -

West slope has a better

mixture than east

slope. Rocks dip east



Julep begins where

limestone of Arborea's

Sept 20

Just S of Franklin
a side rd across
river -

A talus below cliff (ls)
is

red oak

s maple

baswood

ch oak

tulip

hickory

wh pine

butternut

dogwood

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at Ruddle, where
river goes through
gap, a talus with
mixed forest - s.m.,
Tilia, tulip, oak

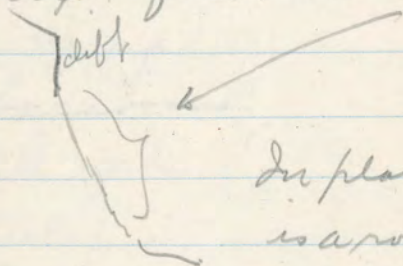
Sept 21.

Petersburg - Elkins

Rt 28 out of Petersburg
Gap of north fork

mt slope facing N -

mixed forest on talus



In places, talus
is a rock slide

at narrowest + steepest

part - just after little

rd goes up a ravine -

a concavity - is

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ch. oak, red oak, s. maple
tulip, hickory, ash (low down)

Opp (south slope) Talus -

ch. oak, pine, red oak, beech

Talus north slope

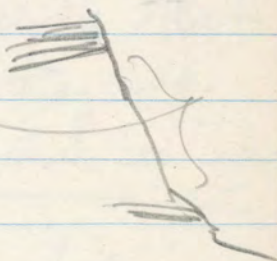
chestnut oak

s. maple

birch

Tilia

wh. pine



Slope bet. upper + lower cliff

longer, not so steep. alt

concav. + convex. -

lots of s.m. goes up conc.

cont'd over

Sept 21

Tilia
chestnut oak
hemlock
birch
hickory
red oak
tulip
walnut

all the above is northerly
slope & can be called M M
There is a dif. bet.
conc. & convexities

E slope (on n. of road)

Tilia
o. maple
ash
cucumber

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on ~~west~~ slope (only) of road
patch of tulip repro.

Just after ^{this} ~~the~~ road top
(on n. side) *

Saw a beech tree on West
slopes, where slaty exp.
started [no beech on Sept 20]

Beech on both slopes
after river is flowing
N-N.E., but ~~not~~ very dense
also tulip, maple, Tilia
Pampas, red oak & dogwood

Sept 21

S. of M. of Seneca
s.d. slope has some
S. maple, but is mostly
oak & hick.

Valley gets wide & of
long. type; higher % of
oak.

pass Riverton

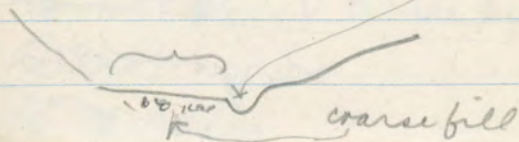
Briary Gap Run at entrance

to Spruce Knob rd

beech tulip

s maple wh oak

walnut red oak
hick



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Aubor vitae nr. Circleville

Leaning cherry & hickory
into mts.

a night, butternut, ^{tulip} S. maple,
beech, Tilia, cucumber
hick, ^{chico oak} red oak, ^{birch} (could only
see very low down). S. maple
goes ^{high} ~~very~~ high.

Lower west slope mixed, but
much red oak a little
higher.

hundred local on both sides
rocks dipping at low
angle

on west slope, where
badly denuded, young
birch dominant

Sept 21

Looks like some *Tilia*
hetero.

Lots of beech as approach
top of mt.

West slope near top
a chestnut - chestnut oak
with birch & pin cherry
reflex.

Slope of beech, ^{red maple} & beech
reflex. - then spruce

on top: -

s. maple

red oak

red maple

beech

ash

chestnut

Tilia

birch

cherry

On one left slope,
s. maple & beech most
abundant, w. red oak,
Tilia, birch, cherry.

on right slope (a little
down the valley) but
high up, abundant
chestnut oak, w. occ.
s. maple, birch, & red oak

Sept 21

about 5-mi. (near
~~prob.~~ on F.S. map)

Walk out a little roadway
at lower edge of above forest,

S. m. *Filix*

brick

bush

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Rubus odoratus most in rock
slide

Sium

fernwood

Ribes

aster cord

Sol. cassia

Coryd. semp in open

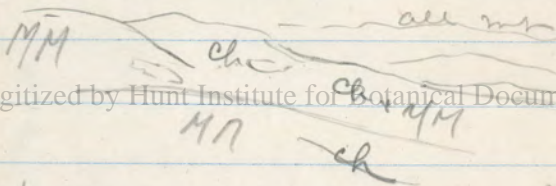
~~*Urtica*~~ *Papaver*

#4. Cheat R. from road 7

#5. Mouth of Seneca

#6 Grassy knob from
summit of all. mt

#7 & 8. From slope of
Elk mt



to show MM slopes + lower
chestnut slopes + type
of valley wh. is wh. oak in
Greenbrier valley

Mossy slopes to ravine
Tarella

Opalis mont.

Saxif. mac

Cornifuga - 3 foliols

Hydr. veng

Arist. mac

Asp. spen

Circaea alpin

Maianthem

Phlox rupestris

big birch

Spruce

leech

Corn. alt.

red maple

red maple

Tilia

Sept 21

Cont. in can

Vib. alnifolia in birch -
beech - spruce

to jet. 250.

up 550 to ba. line,
4271 ft.

big s. m.; - birch, ^{red oak} ~~oak~~ slight
n. slope at top. beech
west face nearly at top.
red oak ~~ch.~~ - ch.

Stands of spruce on slopes +
scattered on grassy knoll

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| | | |
|-------|--------|-----------|
| Top - | s. m. | chestnut |
| | birch | red oak |
| | beech | red maple |
| | cherry | |
| | spruce | |

Barely over edge on west side
is ch. - ~~ch. oak~~ - red oak

A little way down on
west side, chestnut
oak appears.

cucumber with red oak
+ chestnut

Beech, spruce, hemlock
red oak, birch, red maple
& maple, on
a somewhat slope farther
down

Sept 21

Toward high level
flat narrow

Back to C. 25450 + 28
continued west on 250
on 28

white oak in valley
flat nr. Boyer
& on nw. slopes with
wh. pine
at Greenbank, sugar
maple & wh. pine

Beyond Greenbank,
see growth wh. oak &
wh. pine on slopes

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Turned off on 84 -
s. maple flats.
with wh. pine

at other end of course,
1/4 mi from yesterday
Start back to 28-84 fit
Cont on 28 to Marlinton

Follow down Knapp Run
sugar maple on lower flats
wh. oak & some hick on
higher flats

{ Slopes all small
secondary w. lot of wh.
pine
{ Any large trees mostly wh. oak

Sept 21

& occ red oak
rock = shale

Bet. Minnehaha &
Henterville, pretty
well mixed on massive
rock:

- Bet Henterville &
 - Marlinton. Mixed
 - tulip
 - D. maple
 - walnut
 - hack
 - beech
 - etc.
-

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N. of Marlinton on
219 - saw a buckeye

The high level broad valleys
followed by rt. 28 follow
softer strata in moderately
folded section

Sometimes 2 levels of valley, the
lower mostly s.m., the higher
wh. oak. In places rolling
hills, also of non-resistant
rock. These are the secondary
oak hills.

Sept 22

Elkins - Alpena Gap
on Sham Mt. 3020 ft.

All the way is good M.M.
with the typ. rich & varied
appearance of ground cover

| | | |
|----------------|---|--------------------|
| s. m. | S. m. beech red oak tulip cucumber birch | ash |
| <u>beech</u> | | hickory |
| <u>red oak</u> | | chestnut |
| <u>tulip</u> | | red maple |
| cucumber | | basswood |
| birch | | cherry red elm. |

in places on lower slopes, where
in places on convex of so. slope, chest.
Higher, tulip drops out,
birch increases & beech-maple-
birch prevail

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M.M. in higher parts, mixed
with beech-birch-maple
On the highest parts (Middle
Mt. & Rich Mt., & to some extent
in between) there is some
spruce.

Middle Mt., 3188°

Rich Mt., 3368°

In Dry Fork Val., nr.
Harmon, slope direction
does not make much
dif.

Though more cleared beyond
Sham Mt., M.M. cont. We
went as far as jet. at Harmon

Sept 22

Back to Elkins & S on 219.
to Huttonsville - east
on 250 cross

Chest Mt. at 3856°

Cross Sharers Mt. J

Chest R. at 3556

Sharer Mt. - fire tower
Gardener Fire tower

Trail into virgin spruce

| | | | | | | |
|-----------|--|--|--|--|---|----|
| ② spruce | | | | | } | 20 |
| y birch | | | | | | 7 |
| bl birch | | | | | | 5 |
| red maple | | | | | | |

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| | | | | | |
|---------|--|--|--|---|----|
| beech | | | | } | 15 |
| cherry | | | | | 2 |
| s maple | | | | | 3 |

| | | |
|-----------|---|----------------|
| bb. alnif | | acer p. v. sp. |
| amel. | o | Arist. macr |
| Ilex mont | | |
| Cucumber | | |
| bl cherry | | |

| | |
|---------------------------|-----------|
| Oxalis mont | Medeola |
| Asp spin del & n. b. | |
| Lys. obsc + running & luc | |
| Aster acun | Maianthem |
| Clint. borealis | |
| Mitchella | |
| Trillium und | |
| Luporten | |

Sept 22

(3) NE slope

A little lower on trail

| | | | |
|----|--------------------|----------------------|-----------|
| | very little spruce | 11 11 11 11 11 | |
| 58 | beech | 11 11 11 11 11 11 11 | |
| 54 | s. maple | 11 11 11 11 11 11 11 | |
| | bl cherry | 11 11 11 11 11 11 11 | |
| | y birch | 11 11 | 20 7 |
| | bl birch | 11 1 | 6 |
| | wh ash | 111 | 3 |
| | Tilia | 11 1 | 6 |
| | red maple | 11 | 2 |
| | spruce | 111 11 11 | 15 |
| | cucumber | 11 | 2 |
| | | | <hr/> 173 |

Lots of beech under

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Arist. serf

bib. aln. not so much

Sambucus pubens

Acer penn

Laportea Aster acun (not sure)

Asp. sp + mb Disp. lening

Hydr. vrg + can

D. scutria, both Phlox repens

Impatiens pallida Lys. lucid

Asarum can Habenaria sp

Sporella Stell pub

Cimicif. 3 foll Epifagus

Sol. latif Oxalis in spots

Osm. smooth Eup. joeyje

Can. vales

①

| | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|-----------|
| back to higher than first | | | | | | | | | |
| 76 spruce | | | | | | | | | |
| y birch | | | | | | | | | 17 |
| bl birch | | | | | | | | | 13 |
| beech | | | | | | | | | 12 |
| red maple | | | | | | | | | 18 |
| | | | | | | | | | <hr/> 136 |

This has mostly
ferns & *Dialis*
lots of small birch &
small spruce

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The above with scattered spruce
The decid. type cont. down
highway 250 to first valley.
Before reaching Durbin &
Greenbrier R., red oak, chest.
etc enter - all much cut

Return trip to Huttonsville -
west side of Cheat Mts.

Higher slopes - birch, spruce, etc
as on Shavers Fork.

Somewhat lower

s. maple ash

Lilia

red oak

cherry

beech

birch

Sept 22

a country with a
lot of chestnut, w.
red oak & cherry

Still lower

| | |
|-------------|---------|
| red oak | dogwood |
| tulip | |
| cucumber | cherry |
| butternut | bush |
| s. maple | birch |
| sh. b. hick | walnut |
| hick. | |
| chestnut | |
| ash | |

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Valley = sugar maple,
tulip, chestnut
cucumber, sh. b. hick

Sygart valley, ^{flat} N. of
Huttonville; -
s. maple
wh. oak
hick.

Sept. 23.

219

South of Huttonsville
Tipton Val. lower S. e.

slope. —

wh. oak

red oak

tulip

beech

S. maple

chestnut

dogwood

Tilia

chest. oak

buckeye

In above, high top of

wh. oak & in place of

chestnut

Lower W. slope

red oak

wh. oak

Tilia

beech

dogwood

S. maple

walnut

Nyssa

tulip

cherry

cucumber

Ascending S. of Fairy

Head, fine mixture

on all slopes

Enter Pocahontas Co. on
 Cheat Mt. 3458°

Down grade to Linwood
 This side with more
 oak (& more second) but
 still mixed

Turn in at Linwood
 on rd to Cass.

3 1/2 mi. in - "virgin tract"

| | | | |
|-----------|-----|-----|-----------|
| ① | ### | | 48 |
| beech | ### | ### | ### |
| red maple | ### | ### | 16 |
| cherry | | | 4 |
| s maple | ### | ### | ### |
| | | | 37 |
| chestnut | ### | | 8 |
| cucumber | | | 3 |
| bl. birch | ### | ### | 11 |
| red oak | | | 4 |
| Lilia | ### | ### | 15 |
| ash | ### | | 8 |
| | | | <hr/> 154 |

americana

↓
 Lilia - no pub. notifs

Undergr

much small beech

birch red oak

Crat. sp red maple

wh ash blackb

s maple Tilia

Amel. sp Acer penn

cucumber

Hamamelis

Phlox repens Sol. caesia

Disp. lanug Aster cord

viola tot. Polyg. lifl

Aspl. ff Phlegopt

viol palmata Medeola

Asp. n b Mitchellia

Eup. urtic Geranium

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Triarella Caulophyllum

Tillium gr Smilacina

Stellaria pub viol. cris

Epifagus Uvularia gr

Cimicifuga Botrych. virg

Clint. umb Adiantum

Botrych. obl bloodroot

Hepatica ac. Desmodium

Polystichum Aspl. ac

viola can Amphicarp

Till. umb Impatiens pall

Arist. macro Laportea

Asarum can Polyg. virg

Collinsonia Trisetum

Good mull sl. perf

Cimicif (3 fold) = americana

Appears to be less beech,
otherwise looks same

(2)

| | | |
|-----------|-------------------------------------|----|
| | ### III | 42 |
| s. maple | ### III III III III III III | 10 |
| red maple | ### III III III III III III | 27 |
| beech | ### III III III III III III III III | |
| Silia | ### III III III III III III III III | 5 |
| cucumber | ### III III | 9 |
| ash | ### III III III | 13 |
| y birch | ### III III I | 11 |
| bl birch | ### III III III III III III | 25 |
| hackory | ### III | 3 |
| red oak | ### III | 2 |
| chestnut | ### III | 3 |
| magn frus | ### I | 1 |

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188

21

209

Under

| | |
|-------------|-------------|
| magn. frus. | beech |
| ✓ vib. aln | birch |
| Ham. | Azalea |
| red maple | Chestnut |
| chestnut | Acer penn |
| | vib. acerif |

| | |
|-------------|-------------|
| Asp. n. b. | Opalis mont |
| Aster dir | brodiaea |
| Sol. caesia | Mitchell |
| Polyst | Asph. ff |
| Maranth | Euphor |

Alnus incana *Trifolium*
Euphorbia *Stellaria media*
 Trill. und *Trifolium pratense*
Trifolium *Geranium*
Asperula, 3 fol
Asp. speciosa
Phlox repens
Arenaria
Thymus
 Trill. gr?
Clintona
Hydrophyllum
Asp. speciosa
Hepatica acuta
Raportia

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Up slope, around hairpiniters
 + west NW (3)

| | | |
|-----------|--|-------|
| s. maple | | 5 |
| red maple | | 16 |
| lilia | | 20 |
| bush | | 7 |
| bl bush | | 21 |
| y bush | | 5 |
| red oak | | 13 |
| Ash | | 5 |
| chestnut | | 4 |
| cucumber | | 3 |
| | | <hr/> |
| | | 99 |

pin cherry stalks

A rockslide - almost all bush

(4)

A sort of convexity

| | | |
|-----------|--------|-------|
| red oak | ### | 8 |
| chestnut | ## ### | 13 |
| ash | ## | 3 |
| Tilia | ## | 2 |
| red maple | ### | 6 |
| cucumber | ## | 5 |
| locust | | 1 |
| bl birch | ## | 2 |
| s maple | ### | 5 |
| wh oak | | 3 |
| hickory | | 1 |
| beech | | 1 |
| | | <hr/> |
| | | 50 |

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Getting around to north - (5)

| | | |
|-----------|-------|-------|
| beech | ##### | 25 |
| cucumber | ## | 9 |
| ash | ## | 13 |
| Tilia | ## | 9 |
| red oak | | 3 |
| red maple | ## | 6 |
| s maple | ## ## | 12 |
| bl birch | ## | 9 |
| y birch | | 4 |
| chestnut | | 1 |
| | | <hr/> |
| | | 91 |

Lots of bit. aln

(6)

Flat in

| | | | |
|-----------|-----|-----|----------|
| beech | ### | ### | 10 |
| bl birch | ### | | 5 |
| y birch | | | 3 |
| red oak | | | 4 |
| cucumber | ### | | 8 |
| red maple | ### | | 6 |
| s maple | | | 4 |
| chestnut | | | 1 |
| ash | | | 3 |
| | | | <hr/> 44 |

Rd goes over top at
a low flat gap
wh. has a lot of
chestnut.

(7)

~~### ### ### ###~~ 46

| | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|---|----------|
| chestnut | ### | ### | ### | ### | ### | 1 | 46 |
| red oak | ### | | | | | | 7 |
| red maple | ### | ### | | | | | 12 |
| hackberry | | | | | | | |
| ash | | | | | | | 2 |
| s maple | ### | | | | | | 5 |
| cucumber | | | | | | | 3 |
| cherry | | | | | | | 1 |
| bl birch | | | | | | | 2 |
| | | | | | | | <hr/> 78 |

Back to 219.

Cross Elk mt at 3566 ft.
West slope at gap
mixed

Bet. Campbelltown &
Marlinton, patches of
Buckeye on lower
E slope.

Lots of buckeye at
Buckeye
occupies lowest slopes
& flats of Clinch ^{east} ~~west~~
on slope ^{south} ~~west~~ of Buckeye

Coming down slopes
of Elk Mt. toward
Marlinton (picture 7-8)
all the upper slopes are

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M.M., some of the lower
esp. S.W. are mostly
dead chestnut. These
lower slopes are part
of the rolling lower
level, sort of terrace,
in the Greenbrier valley.

Around Remsburg is
limestone region with
many sink holes.
Lots of scattered large
white oaks

L

L

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$$\begin{array}{r} 136 \\ 173 \\ \underline{52} \\ 361 \\ 704 \\ \hline 1065. \end{array}$$
$$\begin{array}{r} 78 \\ 44 \\ 91 \\ 50 \\ 99 \\ 188 \\ 154 \\ \hline 704 \end{array}$$