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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.

1943-11

(Sept.)

Memorandum



24

E. LUCY BRAUN
2702 MAY ST
CINCINNATI
OHIO

Sept 27. Kinsman - Chagrin
Riv. - Wooster

Sept 28. Graber's Woods;
Wooster - Lancaster

Sept 29. Hooking valley:-
Cantwell Cliffs; Rock-
house; Conkle's Hollow;
Ash Cove.

Sept 30. Lancaster -
Wash. C. H. - Leesburg -
Cin.

Sept. 27.

Kensman -

On 322 just W. of intersec
of rd from Kensman

Flat - slightly below intersec

Big trees; - middle size

red maple	}	bush
bush		s maple
s. maple		cherry (large)
Tilia		Ostrya (large)
wh ash		red oak (large)
		red elm
		American
	Cornus flor	
	white oak	

Continuing west on 322,
S. maple & bush prevail
in primary stands;

where slightly hilly, usually
not much else; where
flatter, red maple + white
elm intermixed.

Sh. h. hickory scattered
in flat + hilly parts
Carya sp. on occ. steep
slopes.

White oak scattered -
sometimes on flats, some-
times on low creek bluffs.
Near Grand River, few
oak.

Secondary stands - flat
+ hilly, have much
hickory + oak.
Walnut

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Pottsville Ogl. at Fowler's
Mill
quite hilly
sugar maple } Cup. vertic.
ash }
the slip }
red oak }
white oak }
chestnut }
Tilia }

North Chagrin
Reservation

by: -

Beech (with Lith's)
Wh. ash S. maple
red oak Sassafras ①
Wh oak
tulip
hemlock
Nyssa
cherry
cucumber
middle size: -
beech cherry
red oak Carya sp
tulip Tilia
hemlock red elm
S. maple
ash
cucumber
Nyssa

31

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Small: -

tulip wh ash
S maple Tilia
beech red maple
cherry red oak
Carya cord chestnut
cucumber Amel
Nyssa

Herbs + shrubs: -

maianth. vib. acerif
Urtica persed Asp spec^{ml}
Epifagus Medica^{ml}
ps. ivy Zambucus
Polygon. pul Eonymobor
vitis bicol Psedera
Disporum lan Ham
Mullella Cornifera
Smilacina Pilea^{all}
Solidago caesi Alcea^{all}
Arisae mayl Polygony
Viola pallens Podophyl

Gaultheria at edge of
steep bank - where
chestnut grows

Humus - in some
places mull, in
others duff over pale
podsol

One area is beech-hemlock
^{flat but} has a deep ravine to N
under - not much m.
more open low forest in
val. more beech than on
the sp.
much Maianth.
A layer of duff of w
depth with ^{matted leaf} fibrous black
then pale, podsol.
Some gaultheria

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On gently sloping &
dissected part -
big SM with the beech,
less hemlock
a Tilia

A Rubus odoratus at
woods margin

Lyc. daratum at
edge of woods

Solidago bicolor in grassy
open spots
Blueets

A yellow birch near dry
run - north slope
Asp. marg.
Aster macro
Aralia nudica
Aralia rac

(top & south slope)

beech	###	###	####	###	###	###	###
	###	###	###	###	###	###	
	###	###	###	###	###		
wh ash	1						
red oak	###	###					
wh oak	###						1
tulip	###	###	1				
hemlock	###	###	###	1		###	###
						###	###
						###	###
nyssa							
cherry	1						1
chestnut stump	###						
umuler	###	1					
walnut	1						
S. maple	###	###			###	###	
"							

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red elm		1
Sassafras		1
Tilia		
Carya cord		1

A sunny spot (muffled +
dendroica) - little tulip
trees growing 2-3 ft per yr
S. maple & wh ash also

giving away locally
on flat and flat of
spurs to B-H

& farther back - to
beech maple
with lots of small
SM

clips here are
mull

Tullium cernuum

Along bridge trail
at top of north
slope

Forest includes
steeply marginal
down

beech			
hemlock			
lulup			
sugar maple			
red maple			
Ostrya			
y birch			
red oak			
Carya cord			
Bet. lenta			
cherry			

becoming B - Hunt
SM with occ cherry

This continues well
upstream - to end
of primary forest.
Immediately adj.
is young hickory we
rather forest stand

Drive around to
head & south & down

Steep banks;
North slope

hemlock
s maple
red oak
Tilia
beech -

Dryopteris pulchella
Viburnum rotundifolium
Asp. mary
Solidago caesia
Hesperis *Hepatica acuta*
Tiarella *Geranium*

little red oak, chestnut
Harranensis, 12 m.
tulip

Coming around to
westerly slope: -

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Tilia *hemlock*
5 m.
beech

Asplenium *Compositae*
Arctostaphylos
Rubus odoratus
Cirsium
Eup. vertic.
Sol. caesia
Hesperis

These steeper slopes,
unless eroded are mud

deep pannes -
Benzoin
N. violacea - put
Hydrophyllum
Rhynchospora
Eup. vertic.

regular wood
gray brown sap
with most of
humus in sap

Polygonum
Bitternut

Rubus occ

Saxifraga

Phryma

Viburnum cusp or parh²

Viburnum canadense?

lots of little myrtils

Pilea

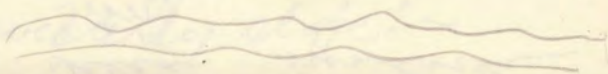
Arisaema

Adiantum

Big - SM

Juniper

Psectera



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From Chesapeake Reserve
south on 174 to
322, west of 322
to 91, south on 91
to 88 west on 82,
to 3. South on 3

on Chippewa Cr. at
Puckerville: (on 82)

Humus like N. Chagrin
Reserve, but apparently
more white oak on
higher parts.

Immediately adjacent
on flats of 40
shallow ravines, old
second growth, white
oak. - in what

probably was leader maple

Cuts + eroded banks
are deep shade. ~~deposits~~
This ~~wood~~ would
mean erosion of
all soil after
clearing. May account
for white oak second
growth.

E. of route 3 + S. of
N. Poylton on
west of a steep slope
of Cr., is a
woods that looked like
a primary stand.

Sept 28

Graber's Woods
1/2 mi. S. + 1/2 mi. N. W.
Marshallville (N.E.
of Wooster)

Flat area -
with duff-like humus
mat (as in our report)
~~obs~~ but more decom-
posed + blacker -
about 1-2 inch
Then pale grayish
podsol's soil

No Litch's on beech
in this woods

Flat: -

Wh. oak	###	###	
red maple	###	###	###
red oak	###		###
wh. ash	###		
beech			
wh elm.			
cherry			
Ostrya			
Nyssa			
Duro			

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Small: -

beech	
s. maple	Nyssa
wh elm	Sassa
wh ash	wh oak
cherry	chestnut
red oak	Carpinus
Ostrya	
dogwood	
red maple	

Undergrowth: -

p. viny	Polemonium
Rebstockia	Euphorbia
Sambucus	Aster cord
Pseuder	Pilea
	Aspl fl
	Carex fl
asp. nb	Demoliza sm
	Presacm fl
	Onoclea

y. violifera
 Lycopodium
 Samolus
 Geum car
 Polypogon
 Boraginifera
 Epipogon
 Urtica sessile
 Galium com
 " sp
 Mitchellia
 Phlox der

A depression

has
 Oak high !!!
 white oak 1
 red maple ###
 white elm ###
 pin oak 1
 small Carya ovata

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low swells: -

white oak ###

beech !!!

!!!

red maple ###

white oak 1

||

Carya ovata 1

white elm

||

Carya (sp.)

1

2 maple

1

Smilacina

M. violet - puberula

Geranium

Cyrtandra

Lupinus

Geranium

Polypogon

White Birch

White Birch

Phlox

Podophyllum

Smilacina

Aspen

Another low level,
with no big trees -
stumps - has
middle size beech.

Small s maple
beech
ash
red oak
chestnut
cherry
dogwood

Polygonatum com
Rubs

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Swells, cont

wh oak	###	###	###	###	###	###	###
###	###	###	###	###	###	###	###
beech	1						
red maple	###	###	###	###	###	###	###
wh ash	###						
Carya ovata	###						
.. sp. cord							
Carya sp							
wh elm							
s maple	###						
tulip	1						
nyssa							
red oak	1						

2 violet	Oxalis
Trillium	Pilea
Smilacina	Polygonum
Carex	
Arisaema	Woodruff
Medeola	Asplenium
Galium	Calceolaria
Phlox	Polygonum
Mitchell	Geranium
Psedera	Polygonum
Less P. my	Dentaria
	Euphorbia
beech	Calluna
Ostrya	Amphicarp
S. maple	Pilea
wh. ash	Salix
Carya	Phryma
Cornus	Arisaema
elm	
Caryophyll	

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Humus - 2 inch -
somewhat matted,
but soil is dark

This part where large
wh. oak is down, has
some 2nd size wh. oak.
In the 3-4 in class
lots of S. maple & beech,
& " " smaller " & "
Here, pretty good

Woods varies from place
to place -

In some places, wh. oak
very large, ph. to beech, large
beech (10 in size) - much
like some of our wh. oak
upland.

In other places - a few
large beech.

Both such places
have some or less
small hemlock +
the most of the wild
flowers.

In some places -
white oak & red maple (the
red larger, but red m.
also large) dominant

In lower & wetter
places - mixed maple

Some of the higher
places are white oak
or red oak & no beech
except a few real small;
some small hem.

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	(mull)
white oak	
red maple	
beech +	### ##
white ash	
Carya ovata	
green maple	
Carya cordata	
red oak	
cherry	
Hemlock	
Aster macro	green maple
Phlox	beech
Arisaema	red oak
Geranium	dogwood
pink sweet	dogwood
midchella	
Sol. caesia	
Trill. striat.	midchella
Dem. hairy	Epiphyas

oak area; -

wh oak -		
red oak		
red maple		
s maple		
elm, wh		
ash		
ostrea		
nyssa		
cherry		
Carya		

Succession indicated here is similar to that of Ill. Toll Plain: see below

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North of rd:

wh oak	Smaller
bl. oak	In beds
red maple	dogwood
wh ash	Carya
wh elm	red maple
Nyssa	pin oak
Carya	
" wita	
red elm	

This is a wetter part of woods, wh oak - B

	wh oak or beech
red maple - B - wood	wh ash
red maple - pin oak	
dogwood	small

E of Smithville -
cucumber,

Grubers woods is repr.
of large area of moraine
country in Webster
area.

Moraines of stringer
type - more oak.
Flatter (wetter) more
red maple

B-M is absent

B-M extended about to
Medina (?) and does
not appear again south-
ward.

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Webster to Lancaster

Route 3.

S. of Webster, very
hilly, moraine
zone of woods all
oak.)

The prevalence of oak
woods is notable.

Probably correlated
with moraines

At glacial margin
in northeast of the
Michigan park -
aspect is that of
plateau foothills
part - M.M. See notes

Mohican Forest

NW to N slope at
Clear Fork of Mohican
River

Hamamelis	Taraxacum
Smilax hisp	Polystich
Urtica	Euphorbia
" (dwarf)	Sedum
Lapides on bluff	Polypogon
Rubus v. n.	C. hirsutus
bush - Caprif	Waldsteinia
	Hepatica ^{alt}
Adiantum	Circaea ^{alt}
Asp. n. l.	Mitella
Gonolobus	Euphyasia
Osm. Clayt	Solidago
Corollaria	Asarum
Piper	Asp. marg
Gaultheria	Mitchella

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Big trees - middle -

beech	beech
hemlock	hemlock
Fern	red maple
red oak	cherry
red maple	Carya
chestnut	
Nyssa	

Much hemlock on
bluff facing N

Aster macro
Viola blanda

Small -

red maple	red oak
red maple	dogwood
beech	Ostrya
white ash	Nyssa
lily	

medusa Lips obsc
Aranea rac

Mossy banks with
mitchella
Epigaea
Ardisia

Higher become
more oak (secondary)
& hemlock
+ a few young ferns
& a " " " beech
" " " hemlock

Desert nude
Gayl
Epigaea

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Opp way from
bridge, NE slope

hemlock
beech
red maple
oak oak
tulip

A natural slope ^{|||} ^{|||} ^{|||}
w. hemlock ^{||||} ^{||||} ^{||||} ^{||||}
beech ^{|||} ^{|||} ^{|||}
tulip ^{|||}
s. maple ^{||||}
cherry, asp open
red oak ^{||||} ^{||||}
Cypripis bush ^{||||} ^{||||}
Benzoin ^{||||} ^{||||}
Redwoods ^{||||} ^{||||}
Other plants are H-B

Arisaema gl. Spiraea
 Trillium Gr.
 Rye lucid Disporum
Burkell.
Medeola
Sanguinaria
Trillium
Asarum
Polypodium
Hydro. v. v.
Polypod
Callispermum

The more ripened head of
 slope (count on pines
 p.) has a lot of herb
 stems

The H-B, very few
 (Pottsville outcrops)

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Across river, a
 west facing slope
 of secondary oak
 + a largeish white pine
 striking out

On 97 or 3, on
 west bluff of
 creek at jet with
 striking pine bluff.
 lots of big white pine.

Across River from
 jet of 97 or 3
 lots of white pine
 white oak ++
 red maple
 buckeye
 black 2 lower part
 S. maple

Big dead Chestnut
on the ridge top
(after road crosses
the river + 1 to 1 1/2 mi.
n. of Ashland - Knox Co.
line.

Recent glacial topog. it
about County line -
but rock in road cuts.

Back into oak type
of woods

on 13, 5 mi. S. of
Mt. Vernon, on moraine
an area of a maple beech

Sugar maple

beech

elm

hickory

} quite
red

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SW 79 - S. of Harrods
lot of a maple & beech
+ on a west slope
across the valley

SW 37 south of
157 - nearly flat.

Illinoisan? plain
good growth, pecan
elm - hickory

10 mi. N. of Sarsen
is flat + looks like Ill. T. P.

Bay trees: -

elm

ash, white oak

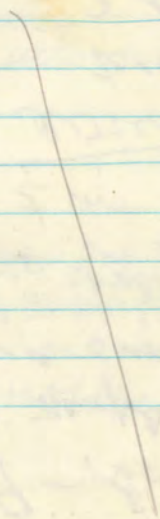
- oak

(over)

beech
aspect of our upland
a giant tree of about
10 feet, all beech

Becomes slightly
more rolling

changes as *Laminate*



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Sept. 29.

Cantwell Cliffs:-

S.S. cliffs with

Salicet rot

Panicum flor

Hydrangea

Sambucus^{rac}

Aster div

Hept acute

Hollow:-

Buttercup

But. linta

hemlock

bulb

beech

sun

Asimina

Arbaceus

Hammocks

Aspl. acrost

Asp. spec

Asplen

Pilea

Hydroph. can

p. vry

Papaver

Impati fall

Ginger

Diabella

Linnaea
Grass Trees were
Montella very large
Bernonia a stump 4 ft D
Polypodium
Phlox div
Geranium
Bern. clay
Cornus alt
Polypodium old
Collinsonia
Adiantum In hollow,
Hesperis matronalis starting up
Sol. caesia W.S.W slope
Epipactis Chestnut
Asp. rub wh oak
Ch. *Carpinus*
Medeola red oak
Oryza *Kalmia*
Physalis *beech*
 Larger are wh oak, tulip
 hemlock, hick, red oak

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Flat, valley
Cypripedium *Cherry*
Sil. lentago
Kalmia

A secondary slope -
P. virginica Not West
P. virginica
 tulip
 red maple
 wh oak
Carya sp
Oryza
 dogwood

Higher -
 more *Kalmia*
Epigaea
Geranium

Brandy hollow near
head - ordinary trees
etc

Upper west slopes -
oak
In mont
P. vng
Oxyd
& herbs

Into another hollow
upper W slopes

In mont
Hemlock

Phloxes variegata
P. vng Chestnut
In woods mont
Hemlock

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oak & hazel
Eranthis cuneata
Gaultheria
Halep
Oxyd

From Lookout Pt -
gen. aspect -

Summit
tulip
hemlock
beech
oaks
red maple
hack
birch

Slopes above cliffs -
NE

lily / dogwood
Pines

Smaller
red maple
ash

Rockhouse

Platanus

Big trees: -

Black oak - vel
red oak
wh oak
Carya glabra
chestnut (stumps)

Smaller -

black
Carya glabra

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dogwood dyd

Cherry
red maple
lily

bitis
Celastrus
Corylus

Upper slopes: -

Medium large: -

In mount & big woods
A. velutina
Red maple
lily

Big: -
Carya glabra

Smaller: - In mount

In mount beech
dogwood lily
Carya sp. hickory
elm - amer
Betula

Underage
 Vib. acerif. Cassia
 Pinus Plesm aqu
 Hydrog. Smelton
 Geranium
 Polygonum

Half way down -
 East slope - to NE

Big trees are -

On road

Nyssa D. barney

tulip wh ash

Carya gl

Tilia

oak vel.

2nd layer

beech cherry

oak road Tilia

oak vel red maple

Smaller! -

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dogwood red maple Benzoin

beech Hydro

Carya ginger

hemlock blackberry

ash Polygonum

cliffs:

Sullivantia Arisaema gl

~~Thal. Aquilegia~~ Adiantum

Cyst. blkt. Pteris

Sm clay

Ger.

Rollinsia

Tussella

Orla can

Big In gorge! -

hemlock Smaller

Tilia hemlock

tulip tulip

beech ash

Black locust

Imp. pallida beech

Asp. spai

Hydroph. can

North Cove below
cliffs very messy.
Big - defect
hemlock
beech
Q. mont

2nd layer -
hemlock
beech
red maple
Betula

Small
hemlock
lily
Betula
ash
Hamam
beech
Adiantum
Codyl
Drosera

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Coming out near
top; convex north
slope -

Q. montana

Plateau - sloping
margin

Large secondary; -

Q. montana ~~Q. mont.~~

" cooc

Smaller

dogwood

red oak

red maple

Q. mont

hemlock

pass

Dryad

vt. acorn

North slope above cliff

Big: -

Q. mont

Nyssa

Red maple

red oak

Chestnut (spruce stumps)

Smaller -

Nyssa

Q. mont

Q. alba

beech

red maple

hemlock

Little

hemlock

red maple

Carya sp glabra

Q. mont ash

Sassa

dogwood

Dryd

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Dead chestnut probably
accounts for Q. mont
layer & less Dryd

Shallow reserve on
sloping top - & mainly
a big beech N facing
ch. stumps; Carya gl.

Middle size

red maple

wh ash

cherry

Carya ovata

wh oak

Small -

red maple, Dryd

s maple

Cherry dogwood

Conkle's Hudson

Flats of *Bet. nigra*
a few with *elm*, *elm*
Carya lac, *maple*
syc, *Polygonum*, *fast*
butternut, *Aster*, *pen*
alder, *Penicillium*, *dead*
Lower west slopes -
beech, *Sen. acer*
hemlock

Flats, where trenched -
big syc.
small Bet. nigra
beech, *Humam.*
red maple, *Benzoin*
Bet lenta
syc
maple, *hemlock*
butternut, *Carya lac*
red oak

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vib. lentago
Still older stream flat

(veg. secondary)

tulip, *butternut*
hemlock
beech, *occ. big beech*
cherry, *y. birch*
Bet lenta, *carpinus*
much mess herb.:

Juncella

Phlox, *aster*

Aspl. sp.

Senecio, *aur*

Hydroph. can

Aspl. aur

Polemon. reptans

Arisa. stricta?

Lower gorge slopes -
beech, *hemlock*

Deep cold gorge -
 hemlock - beech Bet.
 lutea + at head, Bet lutea
 ferns, L. arida ✓
 woods, Arsenum
 maderia

Upon side of cliff -
 Aralia sp.

ASH CAVE

South facing ^{GN} core
 of ^{GN} valley floor
 red maple
 wh oak } wh elm
 beech } sec int
 Tilia

Small

Small

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Betula lutea	Carpinus
Oxy	hemlock
beech	beech
wh elm	elm
tulip	tulip
hemlock	Bet lutea
walnut	red maple
Tilia	butternut
Sol. latif	Benzoin
Mechanica	Asman
Aster macro	Asp rh
" div	
Artemisia	Ritlenia
Laportea	
Orp. pallida	Pilea
Collinsonia	Laportea
Pony	
Trichella	
Phlox repens	

Slopes: - ^{from bottom} lower, as seen

- Large
- S. maple
- Carya ovata
- beech
- hemlock
- Lilia
- red maple

- Smaller
- S.M.
- beech
- lulip

- | | |
|-------------|-----------|
| Mitchella | Bet lenta |
| Quercus | Chestnut |
| Hepat. acut | Logan |
| Asp. spen | Smilacina |
| Phytol | |

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Lower slope: -

hemlock			
beech			
S. maple			
wh oak			
Lilia			
Bet lenta			
red maple			
Oxyd			
Carya ovata			

In places becoming
dominant all

Creek flat above fall
near care: -

gray hemlock	Smaller
red maple	hemlock
chestnut	red oak
Quercus	beech
lulip	nyssa
wh oak	lulip
	ash
	wh oak

In places becoming
dominant all

Iris crist. Benzoin
 Phlox repens Smilax
 Asterids Hamam.
 Senecio aurea
 Rudb lac Gyn
 Callunum Herbert
 Amphicarpia Vib lantay
 Drosera
 Aster spren. Gajyl

Slopes adj. are
 hemlock mitchella
 chestnut Epigaea
 wh oak Kalmia
 Dogwood
 G. of ...

(A higher up -
 Picea + oak)

Epipactis Iris crist.
 mitchella
 Aster ...

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Antennaria sal?
 medeola

Flat - valley floor
 (notes at beginning of ad. line)

tulip || ~~||||~~ ~~||||~~

red maple |
 s. maple | ||
 wh oak

beech ||| ||| |||

sycamore || |

white oak ||| |||

hemlock ||| |||

myrtle | |

ash | |

S. of Wash. C. H. on 6 2 - ^{Sept 30} ~~7~~

+ N. of 1st little town
 rolling morainial -
 oaks (wh. +), wh ash,
 hickories, + wh. elm;

S. of —

a flatter part -
 red oak, sw. wh. oak,
 red maple, walnut
 wh ash, wh ash, wh oak

1 mi. N. of Leesburg -
 morainial -

wh oak, wh ash,
 elm, s. maple (on rise)
 + red maple in depr.
Lees Creek - slopes

with s. maple, walnut
hick, ash, elm.

On 25, W. edge of
Reesburg, small w, all
S. maple.

W. of Highland -
→ a creek: slopes with
many S.M.. Rest of
area; wh. oak, S.M.,
hick, elm, nyssa -
pretty well dissected

W. facing creek bluff:
much Dilia.

Rolling, mostly sugar maple
& sycamore, with

6400 c 70

II

wh. oak, hickory, walnut
 wh. oak, wh. elm.

(.5 mi. E. of Clinton Co.

1.6 mi. W. of county line,
 swell, with much sugar
 maple. also oak, hickory,
 wh. oak.

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Coming down slope
 west of Martinsville -
 pin oak flats of Ill. to
 S. Practically at edge
 of country with some
 relief - a small creek -
 s. m., ash, beech.
 over

Loose Material

The first beech seen
since we left the hills.

no more extensive
corn fields. A lot of
just grassy fields