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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.

1942 MICH
1942

Memorandum

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13

E. LUCY BRAUN
UNIV. of MICH.

BIOL. STATION
CHEBOYGAN, MICH.

and

2702 MAY ST.

CINCINNATI, OHIO

July 31. Colonial Pt., Burt Lake
Aug. 1. Colonial Pt. Burt Lake
Aug. 3. "Scenic Drive" - Pellston
Levering - Cross village -
Harbor Springs - Conway
31 to Pellston

Colonial Point, Burr Lake
July 31

Thal. divisi

Urtica grand

Trich. can

Urtica, sm y

Juglans grand

Hepatica acut

Aralia nudica - not much

Solidago caesia

Dem. ... small ...

Nyctag. (on margin)

Sambucus rac

Galium 4 lob

9 ...

Macranthem

Polygonat. pub

Actea big leaf

Aquilegia

Aspid. spec

Larger trees are
 beech one very large
 maple red oak
 red oak
 a few old white birch
 hemlock - very large
 Lilia wh. pine
 Betula lutea

Smaller: -
 Acer sacch. - Juniper
 Prunus serot. Ribes cyn.
 (a few small) Prunus
 Ostrya Prunus
 Fugus Sambucus
 white ash red rasp.
 red elm - Corylus rostr.
 Lilia bl. acerif.
 Acer penn.
 hemlock
 Y. birch very few & no very
 a few red maple small

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Mitchella
 Streptopus
 Habenaria orb.
 Corolloniza
 Actaea alba
 Aralia rac.
 Monarda
~~Tridentata~~ very few
 one dead - big
 tridentata, very few
 Cercocarpus luteol.
 Conopholis
 Cypripedium
 Humulus (from
 former streptopus bed)
 with Pycnobryum
 Asplenium
 Lycopodium

Pycnobryum
 Asplenium
 Lycopodium

Apparently, there
were former diff
in stage of devel
wh. resulted in
diff. in cutting

Where beech is largest
little disturbed

Lower areas with
mod. old white pine
& oak, & about 6 in D
beech just more
succ. less developed
& more cut
(most of large oak)

Clintonia (where white pine
is

Old part of forest -
near ledge oak
has very large beech
& here beech is dominant
w. b. & p. m. dom in
underst

Colonial Point

Aug 1

(These notes transferred to 2nd #10
Community up which
large beech are prom

(1) near entrance on
beech trail to right

beech	10, ### ### ### ### ### ### ### ###	53
s. maple	###	3
red oak	### ###	10
hemlock	###	3
red maple	###	3
		<hr/>
		72

middle size #1-10

beech	### ### ### ### ###	Ostrya 1
s. maple	### ### ###	
red oak	###	
Ostrya	###	
Tilia		

red maple	###
hemlock	
Betula lutea	###

Small

s. maple	Trillium
beech	Polygonum
Ostrya	Stachys
Tilia	Carex <u>spines</u>
Sax. amer	Sol. caesa
Amelanchier	Vib. acerif
Acer penn	Mitchell's
Y. lutea (young)	Lonicera
Hemlock	Epipagium
Prunus ser.	Thalictrum
	J. Corollaria

Convolvulus, red + green
Pyrola with peduncle
Chenopodium umb.
Asp. spec.
Ascia *nudica*
Macarochloa
Polypodium *paucif*
Melaleuca
Monotropa
Asp. spec.
Clintonia
Pectis *alba*

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Soils - 2 or 3 in. of duff
② 2 or 3 in. of pale
sand slightly
darkened or brown
③ then yellow sand

To left of road - (2)
 Sloped perceptibly
 to left (to lake)

BIG

Beech		57
sm. maple		5
red oak		8
hemlock		1
red maple		18
wh. birch		1
y. birch		3
wh. ash		2
<u>Middle size</u>		<hr/> 95

beech	
sm. maple	

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red oak		
Ostrya		
wh. birch		
Fraxinus		
hemlock		
y. birch		
Prunus serot		crop
Small		Sonchus
Sm. maple		Polygonum
beech		Tilia
ash		maianth
Ostrya		mitche
Acer pens		Hab. orb
Prunus pers		Staph
Amel		viol. spec
red oak		Medeola
Frax americana		Aralia nudica
Tilia		medeola
y. birch		Quercus
		Ros. spic
		Glyc. nerr
		Pan. recur

Assemitry
Urol. grand
Dambikya
Baty. vasy
Sol. Saesid
Viola blanda
Cisslonkya, red
Went. hettis
Lyc. lucid
Hab. orb

Further west *Aspen* *trich*
 small *W. Spruce*
 Big (3) *Open*
Berry *very*

Beech		45
Small maple		2
red oak		8
red maple		5
y birch		4
hemlock stump (old)		*
		<hr/> 64

2nd layer

beech |||||
 small maple ||||
 y birch |||

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red oak ||||
 Prunus serot. ||
 Frax americana ||
 red maple |||

s maple	(Trillium
beech	,	medeol
acer penn	,	mitella
Prunus ser	,	Arabis nutt
Amel	,	
Frax	,	
Ilia	,	

old Hemlock Co

lake



An old secondary area
trees about 10 in - ④

beech #####

red maple #####

y birch ##

wh ash 1

s maple ###

Ostrya 1

wh pine #####

red oak #####

Prunus ser. 1

hemlock 1

Only an occ. larger beech 1

" old y birch 1

Long slightly elevated
ridges where were
very old logs.

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This place has
something happen to it
long ago

not much herb. growth

Medusa

Epipactis pub (lots)

Smilacina pro

Arctia nocte

Conopholis

Abies - 3 ft

Acer penn

Lonicera

Asplenium

Hab. orbis

Stems (very little)

Cyperus parv

Pedicularis can

Refutaria - Platense

Agrostis

Folia

s maple

beech

Ostrya

⑤ Just to right of
 rd & road to
 || to just to "Old
 Hemlock Trail." ||

(rather hummocky)

Beech ###
 Hemlock ###
 Red Oak ###

red maple ### 19

s maple |||| 4

y birch ### |||| 9

Tilia | 1

wh elm | 1

Smaller 184 + 45

Beech ### |||| 229
 red oak |||

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s maple ### ||||

red maple ### ||||

ash |

y birch ### |

Hemlock ### ||

Prunus serot |

elm |

3
10

Small

S. maple	bt. acery
Beech	
Hemlock	
Prunus serot	Maianch
Acer penn	Araticus nudic
Abies	Medeola
red oak	Pyrula
Amel	Strep
Tilia	Tullia Lycop huc
	Clentonia
Possibly, Taxus	Ab. orlos
	Trentales

A younger area of
apparently same
thing 10m ±

beech ############

red maple ######

hemlock #########

y. larch ###

sm. maple

big beech ###

Lots of small hemlock

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Lower places - rained? -
that would be boggy
if it had rained recently -

more small Abies
" Thuja
Drosera
Osmunda Clayt
Frag. virgin
Aster sp.

72 229
95
64

231

Aug 3

Lake Shore Drive
Cross village to Harbor Springs
Cross village

2nd Beach ridge has
beech, s maple,
Tilia
y birch.

Under is	See also "Parkinsonia"
s maple	
beech	
acer penn	
Ostrya	
hickory	
fir	
spice	
red oak	
red maple	
Amel	

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- Clastus
- maianthemum
- mitchella
- Troutale
- Taxus
- Populus (w mosses)
- Thalictrum
- Streptopus
- Rhus tree

Front Ridge, trees
much smaller, are

- red oak - juniperus
- s maple
- Populus balsam

Then, in front of
this are dunes with
w^h ~~brush~~ brush & poplar
& dune herbs & grasses
as:

Tanacetum
Artemisia Pelechere
Artemisia caudata
Lithosp Gmelin
grasses & Ammophila
Agropyron, open fields
Equisetum spp. Equis
Junco balt. Junco

Massy depr. back
of fore dunes with
thugs
less wet - thick
with small lobes

Beach dunes -
Aspen
Wh birch
balsam poplar
Salix spp - bushes
Mel. sylvatica
Rose

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Low dune back of
first mes with
white pine, fir, small
Thuja, red oak
aspen
juniperus mats
Linnæa
Chamaeph. umb.

Back to rd.

A higher ridge - also
beech - maple - y birch

In some places where
the beech is there
soo much fir for some
that it looks as if fir
might replace beech!

The slope of the higher
ridge has some large
beech with small
hemlock under

Smilacina rac
Botrych. virg

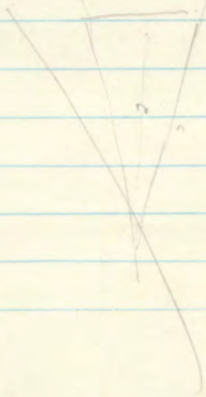
Querc. penn. is here a
middle-sized tree

The slope of the highest
ridge has some large
beech with small
hemlock under

Spiraea pinnatifida

Botrychium very

Acacia fern as a middle-
size tree



$$\frac{2}{12} = \frac{16}{36}$$

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Wild cherry *Ornyssis*
mine \rightarrow cocoon

About 1-2 mi further
on

Good hardwood forest

beech the dominant

Area rather
red maple flat

red oak
w. cherry tall as beech
but slender

y. birch
hemlock (local)

Under

sugar maple
beech + birch sprouts

Ostrya w. cherry
hemlock red oak

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Vib. acerif

Lonicera (var) Hib. orbis

Aralia nudicaulis Cham. umb

Scheuchzeria

Polygonatum pub

Triplicata Symplocos

Clintonia Medea

Marianth-

Beech is definitely
dominant & larger
than all except the
big hemlock + 1 big grade of

red maple pretty large

Beech 2 yr olds very
plentiful

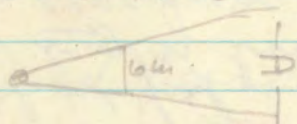
big y. birch

A spruce part, i.e.

spruce, has white

birch + lots of
smaller hemlock

a big red oak with
about 3 ft + D
bark like a white oak



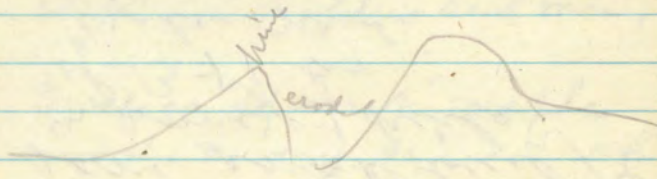
D at 12 ft
from eye

All this separated
by a high sand
ridge from shore
where red oak intersects
this ridge + is on
top of it -
(a picture)

- Norway pine
- White pine
- wh. birch
- red oak
- an occ. Thuja

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- Prunus. very
small Tilia
- S. maple
- Amelanchier
- Aster laevis



bearberry, Diervilla
Shepherdia on sand
sand slopes

Through long area
that was badly
wind blown down
& then cut -

was beech, maple
oak

Tilia, red oak
& hickory

A good deal of
Tilia

Then - go along
top of bluffs
through red oak
with some Tilia
& a maple &
much small stuff
some small birch
& some of herbs
of B-M as
Aralia nudica
Streptopus
Vib. acerif
Sul. caespit
lots of big leaf aster
Corylus

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Along the lake-shore

cut-off rd. - the narrow
sand rd. - go through
lots of woods, mostly
beech, s. maple, red oak,

Some is "sprout" maple
woods & very dense

White pine in some places.

Aug 5

Lake Shore - west
from Camp Lake

Old Dunes

beech, red maple,
hemlock, y. birch

Amel. Lonicera
Corylus rostrata var. penn
Quercus penn. Taxus
Arbutus along edge
Abies

Maranth.
Riparian not v. high
Chenopodium umb.
Cornus can.
Aralia nudica
Tridentata

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Clintonia
Medeola
Drosera
~~Grass~~ Samb. ^{rare}
Polygala paucifl.

Shore
Dunes - lots of
bearberry
creeping juniper
poised beach with
low bush grass

Drosera
Junceus sp.
Saffordii glab.
Spiranthes
Pyrola 37 m
Prenella
Gentiana
Solidago
Lacustris

Melanthaceae

Myrica

Lobelia palmarum

Shrub ~~of~~ Hypericum

Lilium (fls)

Pearly evel

Melampyrum

Fumaria

Parnassia

Going south from
noticed Lassefres on
south side of Potage
E. (Mr. One house)
just before going to 100

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Mich.

Aug. 14, 1942

Glen Lake area -
(Day forest +)

very hilly - some
of the first hills we
came to had some
clay + boulders + sand
There, near Sleeping
Bear, hills are high
first dunes

Whole area is hardwood
(except low places with
swamps, Larch + Thuja)

Wood are beech, maple (+)
+ birch + in some
places, hemlock. The

hemlock appears -
to be more abundant in
lower part. The perfect
buds are B-M
with y. birch, Tilia,
& in lower places,
white elm; a few
wh. ash.

In undergrowth
Tupis, locally

Cornus altern ~~leaf~~
Prunus serot
Acer spicata
also maple +
beech

Jack
Asp. spum
Aralia nudica
Solidago latif

Back Cover

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