



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

Note Book

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R-440

Name _____

34

E. LUCY BRAUN
SALEM PIKE, MT WASHINGTON
R. R. 13. BOX 41 C
CINCINNATI, 30, OHIO

34

1946-3

- June 21 Tionderoga - Lake
Placid + Adirondack Lodge
" 22 Indian Pass
23 Mt. Macdougall
24 Avalanche Lake
25 En Route: Adirondack
Lodge - Burlington
- Waterbury - Montpelier
- Long Trail Lodge
26 Gifford Woods F. Park
+ (PM) ^{DD} Long Trail S.
27 Long Trail - Twin Mt
N. H. via

28. Mt. Washington
29 Circle into Maine
via Berlin - pto 16

— — — — — U.S. 2

June 30. Randolph N.H. -
— Conway — Me.

34

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June 21

Ticonderoga - Paradise Lake
- Lake Placid - Adirondack
Very rocky slopes
many vert. exposures

Large quant. of white
pine
Arborescens was on some
slopes
Mostly decid. or dec.
w. w. h. pine & hemlock,
or pine groves.
Lots of w. h. brush
Under large trees
many ferns
much Japan

Red oak, Filix, butternut
ash & cherry are

here with the smaller
red maple & birch
- beech?

Saw a few red pine
w. & white pine

at Paradise Lake
Camp -

Wester - gull ⁴
type of Heim.

W. boundary w. pine
hemlock, white pine
& others

Lots of deer signs

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Some Thuja on
slopes

Abundant of Linnæa

Sapins

Aster macro

Cornus

Transect

Here

Maple white pine
of birch hemlock
Holly Arbutus
whort

Red maple

Black ash in pairs

to U.S. 9, & north -
lots of ponderosa pine
of all ages

56A. Steep young
sandy slopes by
aspect & brush, &
after severe fires

Keene valley -
precipitous sides,
did have some
big pine on ledge

I found beyond
the fire,
the steep slopes
(cliffs almost)
are white pine &

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hemlocks, ponderosa
with some y. birch

Lower, talus areas,
more hardwoods
w. beech, maple,
y. birch, ponderosa
& ponderosa pine

Elm, ponderosa, arborescens

Keene Valley Village

Flats have lots of large
white elm, & ponderosa
maple near a stream

Slender maple & Elm
border the river

Red oak on a sand

hill just north
of J.C. 86799
(Car Keene)

Climbing up out of
Valley beyond Keene
on sand slopes -
Juniper mostly
above village in old
field
meadow 8679

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Indian Pass trail

Ascending, via
Heart Lake -
thru
S. Maple
beech
y. birch
forest

acc penn Lib aln
" spic ^{and} Pennac
Dunell
asp. spm Trill erect
Rygg luc Shepl sp
The gophy Violace
medula
Cornus var Scarella
Asteraceae
Cypracaul

Clintonia Curex sp
Cirsium ulf. Persicaria
Polyg. bif. Adiantum
Prenanthes sp. Galium
Galio Smilacina sp
Rubus am. macul.

and larger trees -
beech
maple
birch
spruce

then some big
spruce w. v. birch

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changes to mostly
spruce

Undergo no summs
diff but less
var. &
more bet aln
& little (2 ft) spruce

Changes back to more
hardwoods again
but with less beech
(at 35 men)

now more spruce again

more hardwoods again
almost all

Erythronium

Hardwoods (with beech)
& hemlock & spruce
(457mm)

A ravine (1hr)
hemlock,
spruce
& birch

Up a little,
more birch
& hemlock drops out
Viburnum in wet
spots

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A beech & maple spruce
with lower layer of
spruce & fir (dense)
& only large birch

Into and growth at 65m
y birch (small ones)
w. Macaunt more

back into primary
(beech spruce below)

More and yr. with
much red maple
fir
y birch one cherry

(at clearing)
Cross rocky bank

Second steep slope
with primary
maple-blech oak
some birch
+ mostly m. + b.
inter, but some birch

+ lots of $\frac{3}{4}$ maple
+ lots of birch litter

At 5' 50"

Arbor vitae (large)

near bank

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Woods on mostly
spruce,
y birch

m. arbor vitae

Lots of tullefer.

Coptis enters

Much maerth

Spenalalis

Opalis +

Clust

Comus

bit also

Spruce-fir forest
int near pass

fir
spruce
var. y. birch

Cypripedium, Cornus, Maianthemum
luc. moss + bryozoa
Clad. mang. on rocks

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Mt MacIntyre trail

- ① Hundreds -
- ② 2ndary red maple -
y birch - cherry
spruce
- ④ 40yr hem
pink-bark birch
cherry
Sorbus 3± in dbh

Cornus can ^{the} ^{claw} ^{relief} ^{off}
Actea racem ^{Maian}
Sol. of ^{bar} ^{sp}
etc

ferns - Phegopt poly

Small spruce fir
(cut over)

fir

pink-bark bush

Salix Spruce sec.

pencherry with bark

very uneven floor of
bulldozer logs, moss

covered - Sphagnum

Bryozoa Hylcomia

Lichens - Cladonia

Polypodium

Hypnum - Durum

asp spruce del (always
under high up)

Lyc luc.

By alio

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Chimney Phegopt. poly

Cornus

Transect

Asteraceae

Chrysoidea

Eric. shrub

v. matted hairs bush

A shrub - Ilex ??

v. cel. ?

Amel.

(or not much of very

dense

Strept. amplex

Becomes primary

but not different

more leaf ferns.

Veratrum

masses of Asp. sp. det
Suzula wide blades
Lvs

Cyrtis

(things listed p. before)

Alnus of timber

more of a bog was
the granite

much. Sphagnum

Chrys.

Sedum (some)

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Cyrtis

Cornus

Arbutus sp

Vice

Sheep apple

Becoming less ~~of~~

for

+ notes of shrubs - -

Sedum

Kalmia

Vacc

+ under that: -

Cornus, Maack

Sphagnum

Dwarf fir
" of wh birch

Eye sedge(?)

Rehens

Strept. roseum

Linnaea

Arenaria

Heapenaria

Eriophorum

dwarf Sedge

Chamaedaphne

Shrub that looks like
a little Hypericum = pink
eye anemone fl. erect

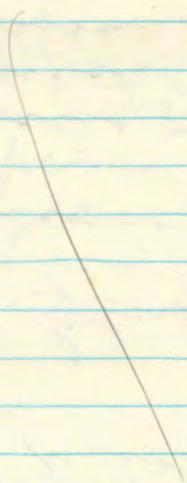
Empetrum to heath

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Grass & sedge

Potentilla? tridentata

Cetraria islandica
& Clad rang in
the heath mats



June 24

Mary trail +
trail to Avalanche
Lake

In the hdnd -
brn - beech - maple
+ spruce

Habenaria orb, a
large patch

Trillium

In quest + und

vislax

Clint

Of albs

maconia

Actaea alb

Smilax

Rays lvs

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Cypracaulis

Medeola (lots)

strep

Laportea

Aster acun

Asp. sp

Low can but also

over pen + sp

Wood sess locally

abund
in s m - b.

June 25

En Route to vt.

ash & elm before
Chatham town
Road cap bet. Chas.
& Westport,

mech. Elm, butternut,
ash, Cherry, & sweet
bet. Chas. & Westport

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Rolling hills of
L. Champlain

white oak
shell bark hick,
s. maple
elm
ash

a secondary white
pine stand on the
tongue of land on
road 8.

The bigger trees are
oak & sh. b. hick.

~~Champlain~~
Cross bridge
flats.

(over)

white oak
sh. v. Tuck

elm
Tilia

ash
red oak

— oak = ? a. bicolor

— ¹⁰ — 10 macro.

Coccoloba

on ex 8 7

slopes of hills

beech

s. maple

boxwood

ash

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June 23

Champlain Valley
to Burlington

Broad flat to rolling
valley, apparently
mostly sand, but
locally with meta.
stratified + dipping
(east) rock exposed

Silver maple - elm - cotton
wood bordering water

Extensive marshes of
cuttail or dry sedge
low woods with much
elm (+ D. bicolor?)

not low, is dominantly
sh. v. sh. b. hick, w.
other oaks (red, black,
macro?) + occ. maple

Some slopes which rise above plain are maple
a dry steep slope (rock)
is red cedar.

Cross mts. on US 2 from
Burlington to Waterbury

All low (a pine goes
thru) & rocky, but
was beech-birch-maple

Waterbury - Montpelier
- Long Trail Lodge on
US 2, Rt. 12, 107, 100,

Shows variations
with valley & slopes -
Rich soil on dark rock
& on till; more pine
on sand & white rock

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Rich east slope

S. of rd. to Roybury

maple

birch

elm

ash

Iron

beech

butternut

Acer spic

Rubris purple

ferns

Goldie ^{Iron} ~~mountain~~

Cypl. aceris Adiantum

Oxalis; Ostrich

Aspl. W. Cyst. frag

W. C. C. Nutella

Impatiens

arisaema

Laportea
Phegop. poly

Tayus

Osmorh. pub.
Assum. can

Jullun. great

Adiantum

Hepatica

Smilacina

Deep Soil weathered
from a black

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slaty but missen
rock

Spence old field
slopes

nearing Bethel a
lot of wh. pine on
slopes, some hemlock

Beyond Bethel on
— P. (route 107)
red oak - a few.
much white pine

June 26 - AM
 St. Pl. 100. n. 7 ft US A
 Gifford Woods
 State of Park
 Lower slopes, east
 side from Sherburne
 Pass

beech	###	###	###	###	###	###	###
	###	###	###	###	###	###	###
	###	###	###	###	###	###	###
					44		
Y beech	###	###	###	###	###	###	###
	###	###	###	###	###	###	###
					23		
hemlock	###	###	###	###	###	###	###
cherry (lg)					1		
maple	###	###	###	###	###	###	###
	###	###	###	###	###	###	###
	###	###	###	###	###	###	###
					43		
white ash	###				3		
elm	###				2		

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Filipia 1 1
 Ser. large dead beech
 vib alnus
 Acer palm x spic Tapes
 Cornus alt
 Sambucus par
 Lon. can.
 Asp. n. f. maple
 Asp. spin beech
 Picea luc ash
 Polystichum hemlock
 Arisaema cherry
 Marnanth brych
 Oxalis Medeola
 Bullum ten 2 erect
 Aralin Streptopus
 Ceanothus Erythron
 Viola blue prot.
 Uoul. sess
 Smilacina asteraceae
 sm. y. violet

leaf litter +
deep brown black
soft humus

Aspl. aurost
Asarum can
Viburnum
Roripha
Osmorhiza, short
Sapota

Incipient prairie
slopes have more
herb. com, more
Sapota, Can. rodex
Aspl. aurost
Hydro. virg
Caulophyll

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Epifagus
Acladia alba + rubra

Aralia rac
Rubus purple

Adiantum
Polygon, trif

Allium tree
scaly fern (on rock)

Carex wide leaf

~~Adiantum~~
~~Caulophyll~~
Oenothera dep

going down slope
+ steeper

maple	###	###	###	###	###	###	###	
	###	###	###	###	###	###	###	20
				42				
beech						###		5
birch								
elm								

3rd. s. maple, beech, hemlock
 dent. ^{holly} ^{elm} ^{maple}
 Gyp. ^{maple}
 more ^{maple} ^{beech} ^{hemlock}
 Golden fern

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Apparently no dent,
 or macanth
 + more of v small meso
 a mudl ^{maple}
 more ^{maple} ^{beech} ^{hemlock} ^{maple}
 + Jacks
 aster div
 Brachyot
 Solidago latif

Representative area
 and there are areas
 which are dominantly
 sugar maple in
 both canopy + mid
 layers

1 = A. of Rob.

2 = Gilford

3 = King's Head

Green Mts.

Viola can 1 2 3
" *blue* 2
" *not* 2 3
" *sm. y.* 2

list of herb. sp.

Mullein 1
Hydroph. virg 1 2 3
Arsenalum 1 2
Impatiens
Laportea 1 2 3

Osmorhiza pub 1 2 3
Asarum can 1 2
Trillium erect 1 2 3
Actaea alba 1 2 3
" *rubra* 2
Hepatica acut 1

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Asp. spur 2 3
Lys. luc 2 3
Polytrichum 2
Marianthem 2 3
Oxalis 2 3
Trillium und 2 3
Aralia ^{nut} 2 3
Clematis 2 3
Violaria sess 2
Medeola 2 3
Habenaria sp 2
Streptopus 2 3
Erythron 2 3

Acer spic 1 2
Rubus purple 1 2
Taxus 1 2

Cornus alt 2 3
Vib. almy 2 3
Acer penn 2
Sambucus rac 2 3
Lonicera can 2 3
Redoubt. 3
Rubus 3

Aster acum 2 3
Caulophyllum 2 3
Polygonatum bifl 2 3
Allium tri 2 3
Plantagin 2
Eup. vert. 2 3
Solid. lalif 2
Brachyel. 2 3
Scarella 3

In wet areas along lakes
 or slow streams, extensive cut-tail marshes
 and Iris-sedge communities are conspicuous
 with here and there a
 marginal forest community of silver
 maple, elm, and cottonwood. Remnants
 of elm, ash and red maple woods ~~but~~
 originally contained arbor vitae, white pine
 and hemlock as well. are indicative of
 lowland swamp forests (which originally
 contained arbor vitae, white pine and hemlock
 as well). ~~Some hardwood swamp~~
~~forests are frequently overtopped by white~~
~~pinus.~~ Tall white pines are frequently
 seen projecting above the secondary
 hardwood swamp forests. In the
 Champlain valley, the admixture of
 oak in the swamp forest is conspicuous

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1 = N. of Rox.

2 = glfnd

3 = Phylog Trail

Viola can 1 2
" blue 2
" rot 2 3
" sm. y. 2

Mitella 1

Hydroph. virg 1 2

Arcaloma 1 2

Impatiens 1

Laportea 1 2

Osmorhiza pub

Asarum can

Trollius erect

Aclaea alba

" rubra 2

Hepatica acutif.

Smilacina

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P.M. - Long Trail

south from " " Lodge

s. maple, beech, y. birch
spruce

acc penn + spec

Vit. ulmif	asp. spec
Samb. rac	Ornithog
red rasp.	Aspl ff
Cornus alb	Lys. tree
Ribes	Phlegm poly
Conium mac	Aspl. acrost
Oxalis	Scroph
Trollius	Carex spp
Macrorhiza	Trollius
Smilacina	Laportea
Aster bicolor	Hydroph. virg
Polyg. biflor	Chama

Streptopus Osmint,
Arctostaphylos Adaxial
Viburnum Arceuthobium
Osmorhiza Meibomia
Prunella Gypsophylla
Brachyglottis Erythronium

(wet spots w. Aster purpureus
Veratrum, Lupinus
Impatiens, Carex

Herbaceous layer more
or less continuous

Tub. and
Solitary rather large
Violet rot

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Allium tree

+ slope
secondary ridge - Top of bark
w. much Oakes
mountain, Clintonia, Eye
asp. spirit vit alb.

A band is mostly
beech + y birch
very few maple

A pink-bark birch +
y birch secondary
fir + spruce under
berry
+ green spur + pen
vit alb.

Oxalis Clintonia
Aster Eye, Aster
asp

After a ways, some
maple w. i beech
& birch

Quantities of
Hydrang. var.
(white, pink, light &
dark purple)

Canada wild
w. Trillium

Full. erect! Golden

Cauloph. Dept of

Demolys Osm. lute

Sapota

Alum. v. ~~Strept~~
Erythr
Smilax

Leaf, & complete

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ground cover

Strept ampel. pr.
spruce & y birch



June 29.

Spruce reproducing
in slope pastures
along the fire
part of U.S.H.

Just east of Bridge-
water, red oak
appears. ~~to some~~
Spruce reprod.
ended before
this.

White pine in one
place before Bridge-
water & becomes
plentiful after
Woodstock

White pine old fields
sandy deposits

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Considerable ^{white} red oak
with a few, white birch,
maple, white pine,
butternut, hemlock,
ash, elm,
cherry

White R. Jct.
N. on U.S. 5

rocky slopes of Conn R.
red oak
burr oak
elm
butternut + or walnut
maple
wh. pine
hemlock

white pine / leafy
on terraces +
terrace slopes

(The Sambucus racemosa
has red berries here
(not ripe anywhere before this)
Sambucus racemosa slopes
have some mixture
of rocky slopes
white birch &
a few in rock
youth areas

where is the
beech. ?

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Enter x 14.

Beach logs seen
in Luskon

June 28

The sequence is
observed in white
spots by the extensive
amount of lumbering
these spots have
suffered

Secondary white
birch is seen in
the birch-beech zone
& in the spruce-
fir as well

Remnants of
B-B-M in
the notch (Crawford)

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June 29

at & near Quad 1000,
considerable area of
swampy type with
spruce & birch (&
Spiraea field)

N. of Berlin
Conifer slope
(Secondary)
Spruce
fir
Birch
arbutus
White pine
(along Anecroft Gully)

In Milan
Hills of Palms
with spruce
reproduction

The aspect in
places is domin-
antly coniferous
sometimes a few
mixed with
conifers
Deadly area
with sparse
hard wood
etc, ash & cherry

In Dammes

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Extensive marshy
lands & shrub
swamp on bog &
conifer swamp

~~at~~ Cambridge

Black & red spruce
fir
red maple
white birch
black ash
rob. pine
white birch
(elm on river)
yellow birch
hemlock
~~beech~~

(all) hardwoods
present:
beech
yellow birch
red maple
elm
wh. birch
black oak

Enter Creek

All of above was
on broad flat

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valley of Adirondack
R.

Slopes: enter & map
in the hardwood
white birch &
aspen omnipresent

Turns onto 216 &
go up hill away
from river

secondary spruce fir
slope with occasional
red sugar maple
& yellow birch.
also present:
beech

On 26, just before
going down hill
to lakes -
(Lake Umbagog)
stand - about 1/4 mile
natural looking stand
of brush
ash or birch
red spruce
hemlock

Under -
Acer sp. | fir
" beech | spruce
" spic | Sorbus

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- Aralia nudic
- Cornus can
- Cyprip
- Diervilla
- Quercus
- Oxalis
- Staph

An older stand
across the rd -
(upper primary)
red spruce IIII 6
hemlock IIII 4
beech IIIII 8
y brush IIII 5
red maple I 1
w. a similar adm. 24
of mid layer - ~~fir~~

A undergr -

Acer penn s. maple

fir

beech

Vib. alnif

P. mucronata

Clintonia Mariah

Trillium Piper

Aralia Smilac. rac

Streptopus Polyg. sp.

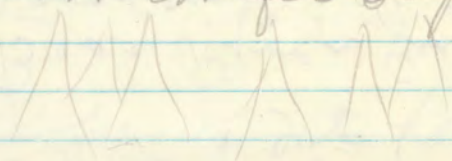
M. h. C. p. ac. ac.

very little herb cover

beech leaf litter

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This apparently was
sort of forest which
occupied what are
now conifer slopes



Down to Lake Umbagog

with its swamp forest
& ~~low~~ gentle
bordering slopes
or "spruce flats"

Tall white pines
project above other
trees -

Lots of spruce conifers

On steep slope + into
maine.

Three' Grafton Gap -
(very rugged, + granite
cliffs)
large white birch
stand up on the mt.
slope. Patches of
"spruce slope" especially
higher

"Bear River, Grafton Mt"

[road sign]

yellow birch

hemlock

hemlock

wh. oak

red maple

~~maple~~

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with few spruce
underlying, +

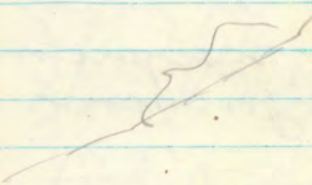
acer penn + spic

Vib. alnif

Slopes of mt (mostly
less steep than in N H)

show a band of ~~decid~~
hardwoods / Spruce

white birch



hardwoods w. some rhodod

Saw a few red oaks on 2

Get U.S. 2 in Norway
Bethel, Maine

Sunday River, trail to
Androscoggin -
lined w. silver maple
& elm.

Androsc. R. - banks
less flat -
wh. birch, elm,
s. maple in low parts

Broad pine flats w.
stands of wh. pine

Red oak common
at edge of terrace

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+ sometimes w. white
pine. Wh. ash here, too
Young ~~down~~ Androsc.
R. w. of jet at Bethel

Much white pine
on sand terrace
Also, some Jack(?) pine
& a coarse pine - red
(~~W. pitch??~~)

Lots of aspen &
birch stands, also
& white spruce fields

Young oak till where
rock exposed in
beech, birch etc

June 30

Hardwoods there
pink hem notak & on
down. some with
some white pine

Conway (No. 168302)

sandy flats
mixed low pine
red pine & some
red oak + ~~pitch pine~~ ^{pitch pine}

a young *Comptonia*
aspens, white birch
pin cherry, red
maple, *Q. macro*

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Butternut

white pine - red
pine & pitch pine (?)

Fryeburg, Me (west of
it)

~~Comptonia~~ later name
Comptonia

Hardwood & hemlock

Hardwood stands
with beech, red

~~oak~~ maple
on sand flats
east of Saco R.
remnants of old
trees & sprout
stands :-

A. P. 1
R. maple
red oak
hickory
hemlock
beech
yellow birch

Route 304 to J. 702
was to much
white pine & sand
plains

Then turning S. W. on
202 slightly higher &
more wooded & had
more forest with
admixture of pine
& hemlock.

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Rid to Ticond.
at Chilson, turn south
then good strip

(basket)
Chief Wawa
Abenaki Tribe

(spms)
Kalmia angustifolia
June 29 (spms)
n. of Berlin
in Miller
Sambucus racemosa
Rudbeckia hirta
Asplenium platyneuron
97
32 - P -
21 - N - P
44 - B - N

Humboldt, 1934 - Forest type
 studies in the Adirondacks

- A. Subalpine Series - 3200 - 4900 ^{low} ^{line}
1. *Hylocomium* - *Cornus* type
 Balsamfir & bl. spruce dom.
 Humus - deep fibrous mor, or bedrock
 or strongly podsol. grassy sand
 2. *Oxalis* - *Hylocomium* type
 Balsamfir & farther down, red spruce
 Humus - thick grassy mor
 3. *Aspidium* - *Oxalis* type

- B. Western Series - *occipitus major*
- a. ~~Stop at~~ ^{Stop at} *Aspen* ^{many} ^{types}
 4. *Hylocomium* - *Aspidium* ^{type}
 Red pine & white pine, w. ^{all} ^{the} ^{fire}
 scattered w. birch & aspen
 5. *Cornus* - *Maianthemum*
 Red pine, w. pine, or w. birch
 aspen, + adm. of pine, fir, red spr.
 6. *Hylocomium* type
 Mainly spruce
 7. *Bazania* - *Oxalis* type
 Red spruce & adm. of red spruce
 fir, red maple, w. pine,
 & occ. poor f. birch & beech
 Humus - leached grassy mor. ^{of} ^{the} ^{spruce} ^{forest}
 8. *Oxalis* - *Cornus* type
 9. *Viburnum* - *Oxalis* type
 Shrubs impart ^{to} ^{the} ^{type}
 Red spr., spruce, beech, & birch

some trees of Craig's zone B.
 a. Softwood mixed-wood types

13. *Hylocomium* - *Myrica* type
 Flat open slope, & *Aspen*
 Rich pine, w. pine with red oak,
 aspen, fir, w. birch, red maple,
 & w. spruce
 Humus - fibrous mor
 On outleaked plains
14. *Cornus* - *Pyrola* type
 Forest is 2nd gr. stand of
 w. pine & spruce
15. *Maianthemum* - *Carex* type
 Forest - Maple, with hemlock,
 red spruce, fir, red maple, w.
 birch & red oak
 Humus - fibrous mor
 On lake point, delta, gl. terrace
16. *Aster* - *Aspidium* type
 Burnt grey rocky country
 east of Schroon Lake
 Aspen, w. birch, w. pine
Aspidium
 Larger adm. of hardwood
 than 16.
 On better - drained lake
 sandy & shallow dry till
- b. Hardwood types
 17. *Aster* - *Oxalis* type
 Low, & w. spruce origin
 Splendid ^{of} ^{the} ^{type}
 on ^{the} ^{lake} ^{point}

B. Hardwood types
 S. maple + beech predom.
 10. Tuberum type
 ground veg. scanty
 S. maple + beech in adm. of birch, ash, hick
 Humus - light mor ranging
 to detritus mull
 11. Dakessian type
 Richwood
 Hardwood repr. + shrubs prom.
 S. maple - beech, w. wh. ash, wh. oak
 Elm + basswood
 Humus - root mor + detritus mull
 Brown soil profile
 12. Arasinus type
 very rich + varied veg, chiefly
 4' spring-flowering cherries,
 Redstart, ferns,
 Rich + Hardwood plants
 S. maple, beech, wh. ash, wh. elm
 basswood, bl. cherry, w. ash
 4' birch, scatt. hophornbeam + fr.
 Humus - usually detritus mull
 sometimes thin shell - cumb mull

C. Eastern Series
 valley of extreme eastern
 part - 800 - 2500 ft.
 many plants rare or absent in
 western area.
 Above 2500, same as west. series
 Forest ...

Humus - detritus mull
 much more just by fire + cut
 19. Dakessian type
 veg. scanty esp. in opening
 An eastern variation of
 usual maple-hickories +
 scatt. birches + low glauc.
 S. maple + hickory + hickory
 white beech - hickory
 w. S. maple + beech, w. scatt. 11' 4' birch
 Humus - mor to mull
 20. Arasinus type
 very rich site
 Red wh. with basswood,
 wh. ash, S. maple, hickory
 21. Dakessian type
 most favored localities at
 lower elev.
 Rich-hardwood forest
 w. varied + abundant veg, esp.
 S. maple, white birch, hickory,
 bl. cherry, beech, wh. elm,
 4' wh. ash
 mull (detritus) + sandstone
 by brown soil
 22. Tuberum type
 Sand. sp. cut
 Rich, many ferns
 Forest - S. maple, basswood,
 4' wh. ash; some hickory
 Rich mull in brown soil