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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.

1943-7

Personal
Notes

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20

E. LUCY BRAUN
2702 MAY ST.
CINCINNATI
OHIO

1943-7

- Aug. 12. Flambeau River --
St. Croix Falls, Wis.
Aug. 13. St. Croix Falls --
Red Wing - Humboldt -
Rochester - Winona, Minn.
Aug. 14. Winona, Minn. --
La Crosse (down Miss. R. via
14061) - Madison, Wis.

Aug 12.

Leaving the Flambeau
River

High ridges west of the
Flambeau are maple-
basswood, with lots of
Ostrya; some elm in places,
an occ. white ash &
red oak. No hemlock in
this community except
as we approach a spruce-
tamarack flat.

(A similar maple-bass-
wood area was crossed
on Aug 10. on way in to
the Flambeau)

About 12 mi along on E
come down hill overlooking
extensive lower land
to west.

Y. birch dropped out -
not noted just where -
but about where oak woods
* About 7 mi. w. of Hunter
on 70, - *Ratibida pinnata*

* *Lepidium perfoliatum*
at (72.6) ~~on west~~
~~of road on 70 + 70~~
at ~~mid~~ east of
Secondary slope w.
wh. pine, aspen, red
oak, bur oak, Pteris,
Pop. grand, 'Siles'
Spruce near river
The slope is near
the river, Powderay R.
just before crossing
It. Sandy soil

Leave river + go up
on moraine hills.
First, secondary woods
is maple-basswood

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with red oak
* Then mostly oak,
red oak + white oak
(first time noted), with
some s. maple + *Lilium*
These must be moraine
hills forming divide
between Chipewyan drainage
+

Pass Whitefish Lake
on right + Holly Lake
on left

Big red oak trees
secondary woods looks
like oak woods.
* Enter - *Desmodium* ^{Canadense}, showy
northern one. (spn)

Lots of white oak w. red oak
* *Desmodium acuminata*
them under oak tree
Gaultheria

Cornus circanata
Some small sp. + red
mistle with the v. v. v.
Comptonia

* *Spiraea tomentosa*
with *Nemophanes*
& *Saxif.* (Hally b.
swamp)

Sand Lake -
good stands of
red pine
Oak woods - red, white
& bur. Aspect totally
unlike anything found
Then some white pine
with the oaks

* *Liatris scariosa* ?

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just W. of Stone Lake
(Metcalf)

E. of Spooner 9 mi.
92.2.

oak woods: red & bur
continuous, but
dwarfed looking
* *Uranium repens*
at edge of oak woods
entire oak, hill
& hollows, sand
some with some
gravel in it
Ponds in the hollows,
with some wh pine
near them
Some *Tilia* with the
oak
aspens around

Greatly big trees
bur & red oak here
scattered.

elm

Old white pines, 30 or
times as tall as the oaks,
in the oak woods.

White oak mixed with
the other oaks, a
few mi. further on
red pine, white pine
& jack pine.

Sum, Spruce & Chamae
Cyp.

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Spencer, (23708)
& Grindelia & Sistris

We see no sugar
maple in this oak
woods, but *Lilia*
sometimes with oaks.

Seen a gam. of Shell
Lake, large wh. pine,
peeling off of oak wood
(on p. 63)

In some places trees
around houses look
like they had been partly
killed by drought.

at Cumberland, Sugar
maple mixed with
red wh. oaks; red
maple also; & white
ash

These are woods of oak
country. Like second
growth oak on the
black shale, except
that the trees are
squatter. More like
the northern red oak

South of Cumberland

Larger:
red oak
wh pine
wh oak
s maple
wh ash
elm

Smaller:
strya
s maple
Tilia
wh ash
red oak
red maple
Sambucus
Acerella
elm

Somewhat of red oak
Largest tree here is wh pine

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is 8 ft 3 circ.
Red oak 4 ft 3.
a flatter place has
more wh oak, red
maple & elm.

Soil has changed;
it was observed when
the sugar maple came
in. Good farm
land, best corn
fields & grain fields

another low oak
ridge with wh pine above
the oak woods trees.
of the woods. This is
just to the south side
of Abieshoe L.

SW 8 W. of 63

Round-crowned oaks
on moraine hills.

a mixed woods, with
oak, sugar maple, Tilia
& wh. pine on rolling
land.

Space stand on lower
land to south.

Another low place is
wh. pine, larch, white
birch

on rolling land: —
sugar maple, elm
Tilia, bur oak, red
oak, wh. pine, white oak
This is the remains
of a primary stand

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Some places a lot of
sugar maple

Cross apple R.
much white pine
in woods

When there are oaks
there is juniper and
in betula. That was
on it?

Probably maple

Conversation at St Croix: —
lumber mill as falls
over 100 yrs ago.

Lots of pine, scattered in
with the oak.

Aug. 13.

St. Croix - Interstate Park
Minnesota side

elm
box elder

in
river

s. maple | red oak | better
Hickory | red maple | locations

wh. ash

wh. pine

bur oak

Ostrya

elm

red cedar

wh. pine

Ostrya

among
rocks

Carya cordifolia | butternut
Aspen
wh. birch

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Rhus typhina + intermediate
chokecherry

Sambucus racemosa | Diervilla

old grape | Juniperus

Pseuderacacia | (tall mats)

Amelanchier. bush | Celastrus

bl. raspberry

blackberry

Andropogon furcatus

Houstonia longifolia | Orolanum?

Eup. verticillatus

Aralia nudicaulis

Menispermum

bloodroot

Corydalis sempervirens in
rock crevices

Polypodium + Cheilanthes

Campanula rot

a pot hole. depth 60 ft.

diam at surface 12 ft.

base 25 ft below surface of river

Bidens vulgata (2)
Leersia nat. rec. eq
Cercaria lutea
Solidago latif
Polygonatum f. comm
Polygonum
Lappula, f. comm
Lupinus
Polygonum
Lolium sp. latif
Rudbeckia
Boehmeria
Carex spp
Polygonum sp.
Panicum septent
Scutellaria latif
Cephalanthus
Larix
Scirpus atris
Solidago sp.
Lycopus

Wet

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Aster sp. - cordiflorus
Aquilegia can.

Wisconsin side of Interstate Park

White & red pine
 pine stand groves of
 young white pine

elm, wh. & pink & red
Tilia

s. maple
 red maple

wh. ash
 red oak, wh. oak, bur oak
 hickberry

Populus grandiflora
 butternut
 bl. walnut


Impatiens pall & *lutea*
pleurocline sp.
Pinguicula
Euphorbia
Corylus
Ostrya
Anemone *virg* & *can*
Amphicarpus
Solidago *laef*
Smilacina
Aster *novus*
Aster *laevis*
Geranium *mac*
Melancholus spp

A black ash swamp
 w. *Imp.* *lutea* & *red*
 + grasses + *Ostrya* fern
 + *Urtica* *sp.*
Sparganium
Imp. *lutea* *Aster* *umb*

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Astragalus *carol.*
 bloodroot
Smilax *hisp*

A grove of large ~~maple~~
 wh. pine with large
Lilium
Lilium + red oak slope woods!
Carpinus w. red oak
 + *Lilium* + *Carya* *cord*
 on slope + red oak
Tanacetum } *walnut*
Adiantum } *Smilax*
Urtica *grand*
aspl. *ff*
Amphicarpus
Ostrya
Cardiophyllis
Geranium *mac*
Solidago *laef*
 bloodroot

Apoc (in net report)
Iron. clay
Cryptanthus
Corymbus altern
Phryma
Bromus sp
Veronica very
Allsmodium album
Aster novus
Arctium nudum
Clematis very
Smilax hirta
Monarda fist
Salvia (?) tall, light blue


Leane park.

(above notes not close to river)

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S. on W 35.

Rolling land (nr W.S. 8)
with more s maple.
Then a flattish area
of bur oak - elm or
elm - bur oak.
Rolling again: oaks
prevail - mostly bur &
red.

Here the oaks are on
soil derived from the
basal lava intr. (dark
trap rock); yesterday
we saw oak woods on
sand.

Oak ∴ climatic.

At Dresser - Euph cor
& tall gray Artemisia

Sugar maple sprouts
still in evidence a
little south of Oscoda

Come up onto high
hill - deep sand,
(before this in cross
some of the way north of
woods is oak -

incl: -

"black oak" - farmer's ^{oak} ~~oak~~
white oak (all marked
by oak

occ. Tilia

Ostrya - one small red wing
Corylus - white bird fl
Job. arif
Crataegus
Zanthox
Ribes

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Smilacina

Ceanothus amer

vermicis arg

* Petalostema south of
Jannington
with Andropogon
furcatus, Elphot.
Carol. Liatris scariosa

Oak woods on & on
apparently same as
farm land here.

(Somerset)

* Asclepias tuberosa
* Solidago rigida
respendens

Even the woods in
the depressions look
different sagittaria
& calceol

x Helianthus occidentalis

Fairly deep ravine slopes
are oak woods

Ratibida

* Amelanchier canadensis

Bur oak sprouts 6 ft
tall with acorns

Tilia on ravine slopes
at Hudson

white pine dropped
out soon after we
left St. Louis

Prairie strip bet
rd + rd. -

Stipa

Ratibida

Carex

Soil - 1 ft of black
prairie soil.
then brown
not sand - but
fine soil.

Solidago
Amelanchier
Leaves

Solidago of gravelly

Agriculture :-

oats, corn, red
clover, hay, potatoes
all land, etc. some
of upper hills is culti-
vated

High hills near River
falls show rock
outcroppings high on
the slope oak
woods just the same

South of River road
saw a Tilia & a sugar
maple. Some Tilia
& s. maple, elm
& walnut with the
oaks, rock outcrops
on undercut bank,
prob. galena dolomite
Beyond Beldenville same
things on same formation

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coming down steep
hills oak woods (red & wh)
some Tilia on ravine
slopes. Toward Miss. R. bridge

Miss. R. flood plain Redwing
lots of water
Silver maple elm +
cottonwood

Hillside of white birch
at Day Creek, just
west of Red Wing, Minn.

U.S. 52. n. from
Zumbrota, for 10 miles
through rolling farm
land. Few trees left -
what there are, are birch
oak - - elm. Turn back
to Zumbrota, + S. on 52.

22.5.52 S of Zumbro River

Tilia, bur oak, "black oak"
elm.

Cross Zumbro River.

+ go up hill to top; -

Flattish, a few W ft from
slope - then slopes up to

Tilia ^{ridge (from S)}
then down to river

elm maple

white oak

wh oak

Ostrya

Carya cord

2 maple

choke cherry

Lonicera (div)

Trollius cerni

Geranium

Bloodroot

Sonchum

Agrostis

Pteris

Zinnula

Amphicarpa

Ribes

Lathyrus

Tanacetum

Allium

Cryptota

Hepatica ^{acuta}

Urtica ^{obtus}

Urtica ^{grac}

Hesperis ^{acum}

Phryma

Solidago ^{late}

Anemone ^{virg}

Cercaria ^{lutea}

Thalictrum ^{dec}

Galium ^{con}

Solidago ^{ulmif}

Polemonium ^{rep}

Impatiens ^{ps}

Lappula ^{virg}

Hystrix

Goes up to maple-
 basswood; see also oak
 with *Ostrya* butternut
Hicoria (musk)

+ some herb plants
 but more fine *Carex*
Solidago more
Solidago leaf
Geranium

Smaller underlayer of
 S maple
Ostrya
 red elm *Carpinus*
Carya cord red oak
Tilia
 white oak

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Cornus alba
Celastrus
Adiantum ~~white~~ puber
 (i.e. thin peduncles)
Glumacra
Phlox div
Corallorhiza
 Good smell, going
 down into black
 earth becoming brownish
 + hard at 4 in.
Adiantum
Orchis spectabilis
Aspl. sp.
Caulophyllum
Mitella diphylla
Trillium
Gracilium
Smilax exoni? + herb.
Agropyron molle
Polypodium dentat
Arabis nudicaulis

This could be called a maple-oak mixed community.

Although not really primary there are a few good sized trees, & the larger & some maples may be sprouts; more oak on side army from river.

Aspect of undergrowth & humus is similar to some of our woods.

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E. of Rochester

Oak prairie

E. of Egypta; good prairie strip bet. road & R.R. with *Silphium lac*
" " per

Ranunculus

Sistris spicata, several

Andr. fere

In places going down to wet developmental stages, with *Spartina*

But. Does + Whiteoak, some of hills (with rock on surface) appear to be prairie on S.W. side & bur oak elsewhere

Oak woods cover
much of the slopes of
the hills for 5 miles
as we go down toward
Winona.

Looking across
valley (to northerly slopes)
- woods seems to be
mostly oak (lots of bur
oak); looks like a few
s. maple in ravines
on north slope.

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Aug. 14.

Winona, Minn. -

Miss. R. hills:

Steep slopes
rocky gullies like the
rock hills

elm near these

Tilia

A little higher becom-
ing dominantly red oak

No big trees; largest
about 5-10 in. Much
like on our river hill

In the ravine as
we cont. up - mostly
Tilia & smaller maple
& some red oak

Patches of wh. birch

Pseuder
Rhamnus car. - looks like
Aralia rac
Vitis cordif } *Aspl. fl.*
Asarum } *Chaulioph*
Sol. latif } *Alchemilla*
Eup. verticif } *Hesperocallis*
Aster cordif } *Celastrus*
Helianthus - comm road
v. petiol
Botrych virg } *Anemone*
Aquilegia } *Carex. fine*
Cyprip. bulb. } *in rocky*
Phryma } *Macaroth.*
Hydroph. virg. } *in rocky*
Actaea, slender ped.
Viola sor. } *Silene stell*
p. roy } *in rocky*
Cornus altern } *Chokecherry*

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Mentha perr } *Linus circ*
Sanguinaria } *Trillium circ*
Urtica grand } *Staphygn*
Plesm. acum } *in rocky*
Ribes cyn } *in rocky*
Thalictr. disc
Viola canadens ?
Aralia nud
Smilacina
Smilax hisp
Xanthox
Galium com
Hepatica acutely
Arisaema trij. flavum
Osmunda hairy
Adiantum
Osmunda clay
Saxifraga
Geranium mac
Gonolobus
Mulle
Monarda

Small - understory

Ostrya

Lilium

wh ash

elm (wh or par)

red elm

mulberry

Carya ovata

red oak

Middle size:

Lilium

red elm

elm

Carya cord

Black leaf mold, like
Good mul humus ^{Peruside}

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Big: - (v.e. comparison)

Lilium III

3

red oak IIII

8

bur oak

Carya ovata I

1

elm I

1

wh ash

Occ. red oak + Lilium as
much as 15 in dbh;
some even bigger.

Cont. from 1st p. of general
Then on the ridge (by convexity)
Lilium becomes dominant

In concavities -

mostly Lilium + s maple

Some of the Lilium big.

" s maple - 8-10 in

a Carya cord - 15 in

Acer spicatum - on
talus below ~~the~~ cliffs

Just below these cliffs
in concavity & in woods
is Tilia - simple

Tilia	###	###		13
2 maple	###			5
Cornus				2
Pop (delt)				2
Juglans cin.				1
red oak	###			6
				<hr/>
				29

Grandidentata

Sambucus rac

Circaea lutea

~~Delpheodermis~~

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Stems intimately
mixed - into a sandy
(somewhat) soil -

Tullium corn

Cryptotaenia

Ginseng

Laportea

All of the above
concerns hills rising
directly from river
& facing nearly N.
a little E of N.

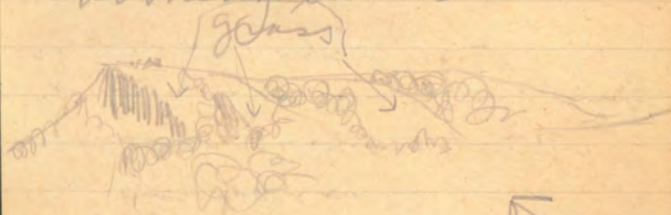
This place 4 - 4.5 mi.
out of Winona; 6.4 mi
from cottage at inter. of ~~the~~ ^{cliff}
24 & 61.



Just below highway -
big elm, big walnut
bur oak, White oak
+ 1 large oak

Nr La Malle - a few
small pieces of terrace
(aboard, + perhaps rock
contorted) are bur oak
& prairie plants.

Looking ahead



Wedge of grass comm. +
woods

Another hill look like Half-dome

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Crossing ^{Miss R} to La Crosse
miles of floodplain

with Bayoues.

Trees are Silver maple
Cottonwood, yellow (black)
elm + river birch

In water - Sagittaria
perched weed, white
water lilies.

Slightly higher parts + with
elm, are some hackberry

U.S. 16 east out of La Crosse
Wisconsin -

In La Crosse, great big
hackberry trees

Outward terraces of
sand near La Crosse
have - bur oak "bl. oak",
Coryza ovata, C. V. dif.,

+ box elder. (sample at lunch)
+ elm in low spots
Terrace ~~rolling~~ rolling level
comp. to Sparta. Where
not farmed or in pasture
(+ most of it is) oaks -
esp. hick oak.

Outside of Sparta, run
into sand plains -
Jack pine + scrubby
oaks, + lots of prairie
plants as Andr. fusc
Liatris, Helianthus occ;
also pink bract mounds

These sand plains
cont. thru 60 miles of
military land - to slopes of
a high ridge with oak
woods: -

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Top of highest ridge
rd cut thru road

big red oak + ^{2ndary} hick
+ white birch

Corylus	Adiantum
Blackberry	Urtica
apple with bright yellow fruit 1/2 in + in diam.	Aster macro Sambucus Osm. Claytoni Aspl. f.
m stems 1 in + lvs	Desm. illinoensis Pyrola

red oak + white oak
Soil, so far as can
be ascertained looks
like sandy areas
in Cen. Wood

oak,
esp. bur.

East of this ridge, rolling
good farm land again,
then a ridge (not so high)
rd. cut in p.s. -

On this ridge, oaks, + pine -
red pine Jack pine + wh. pine
E. of J.C. of A with 16 (near Tomah)
white pine on slopes +
interspersed wet flats - lots
get.

Jack pine abundant in
wet flat

E. of Tomah, some larch
where hills stick up
rock outcrops + oak
woods. Flat at Tomah
in island S. Wisconsin

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Mill Bluff roadside
park.

Here high rocky
bluffs rise out of
side of gl lake

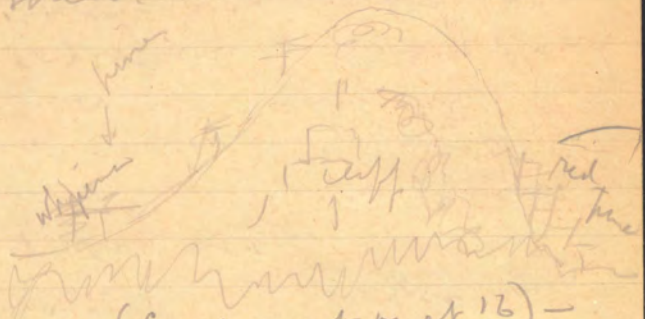
Lower slopes.

- | | |
|--------------------|------------------------------|
| <i>Q. velutina</i> | <i>Phlox copalata</i> |
| Jack pine | <i>Tradesc. rep.</i> |
| "bl. oak | <i>Polygonatum com.</i> |
| wh oak | <i>Gaultheria procumbens</i> |
| | <i>Frax. sp.</i> |
| | <i>Andr. rep.</i> |

SS bluff itself is
mostly red pine +
some oak

- | | |
|----------------------------|---------------------|
| <i>Helianthemum</i> | <i>Vida pedata</i> |
| <i>Lithospermum canes.</i> | <i>Ant. parlini</i> |
| <i>Leucos. sp.</i> | " plant |
| <i>Erigeron</i> | <i>Andr. furc.</i> |

These bluffs stand up
thus:-



(Cont. east mt. 16) -

Bluffs very prominent
at Camp Douglas
approaching from
Lisbon, high bluff
to right - much rock is
not glaciated
Gravel strip bet. road
& RR

near Lisbon.

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lot of new trees

3 mi. out of New Lisbon
road hills with oak,
white pine on flats

An oak woods -

wh. oak *Corylus*

In velvet *Chokeberry*

oak or put redishubs

and *Time oak* *Smilacina*

Small *Geranium*

Prunus serot *Maianth*

Amel *Heerocum*

Grass

Chromolaena and *Pteris*

Pyrola *Amphicarp*

Yucca *Aster sp*

Helianthus

Not present

S. of Lyndon, rolling
land, getting higher,
rocks and cut for the road
cut — secondary oak-
fast pine

Bar oak seems to have
dropped out.

approaching the Dells, where
pine

Rosky Arbor roadside
Park — white pine, oak
red maple

Bar oak with white oak +
a B.T. oak, *Carya ovata*
on US 16 E. of the Dells

a Bog to South west

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larch +

also to north, larch,
alder, poison sumac,
Petula pumila, *Phragmites*
Cornus

Eastward, a moraine ridge
with oaks.

Followed by another extension
Savix bog

another moraine
ridge w. red + white oak
River birch (not in bog)
but in good farm land

S-E after 23 of open
oak with lots of prairie
things.

River birch at Postage,
black locust abundantly
naturalized.

astyr 16 leaves 51
abstru serie bay with
much poison sudrac.

at Rio
A lot of hickory with the
bur oak between the
ridges
These ridges are sand

S. of Madison (A. J. N.)
a prairie slope
with much walnut &
tulsa with oak
oak & hickory just
beyond on hills

nr. Cambridge, still
occasional groves of Jack pine

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just S. of Cambridge
a white oak ^{chick} hick
grove with some BT oak
On a drift hill, a white
oak woods with some
D. C. hick, BT oak,
black cherry, grape
vines, Cornus
Polygonatum com.

On a gently ridge,
bur oak

Just N. of J. O. to Sa prairie
(A. J. N.) cross a ^{wide} gravel ridge
woods is oak hick.
Prairie plants: Silphium ter
Sol. rig. Ratanha, And. furc.
etc.

Mr. S. Sunderland, wh, oak
& lower in same grove, BT
oak, but oak

J. D.

Between ridges, black soil
(clay)

E. of separation of 12 & 31,
an occasional *Tilia*
& *Prunus serot.* mixed
with the oak &
hickory

A *Tilia* on a short northerly
slope above a swampy *Tilia*
Fairfax bog at Vauconda

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on 27 E of S. Junction, some
white ash with the oaks & hick