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Site 1509: Green County, Township 4N, Range 9E, Section 16. 1956-07

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 1509

Name:

County: Green

Date: July 1956

Size of Stand: 25 acres

Forest Type: Quail - Palmetto

Topography: rolling

Locality: Dayton

T: 4N

R: 9E

Sec: NE of SW 16

Observers: Rogers

Size of Area Sampled: 10 acres

Soil Type:

Slope: 10°

Directions: S

Condition of Stand:

Clear cut c 22 yrs. ago
(3rd growth - 1st cut c. 54 yrs. ago)

Open Grown Trees:

None

% Canopy:

65

Stumps:

1.

4.

7.

10.

2.

5.

8.

11.

3.

6.

9.

12.

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁	6								87.7
A ₂									
B									

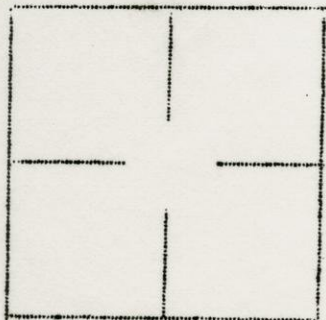
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/4 - 1/2	
A ₁	2 1/4 - 2 1/2"	sandy loam
A ₂		
B		

Parent Material:

Map:



POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 9

STATION NO.	21	2	3	4	5	6	7	8	9	30
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		1					(19+3)	19	1	1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul	23	1		16	1		1			1
Prunus serot			15				14	1		
Quercus alba	3 14		13	1 (25+1)	20 (21+1)		1 (14 30+1)		(24 22)	1 (19 40)
Q. ellipsoid										
Q. macrocarpa	13	2			2		1		1	2
Q. rubra		70 40	28 45			27 25		50 24 13	26 35	40 40
Q. velutina	{ 80 35 23 19 40	28 40 75	35 45 45 40 26	21+1 20 21+1	45 40 23 35 40 45+1	30 50 40 35+1 13 20 24+1	40 35 20 30+1	35 21 30+1	20 27 75	35 14 15 22 30
Tilia amer										
Ulmus amer										
Ulmus fulva										
	10		22	24	26	26	26	22	24	
	5 8 14	12 13 15 24	11	12	13	21	13 19	11	12	3 8
	2 19 15 9	10 8 5 21	11 14 7 14	3 6 18 17	11 19 7 16	7 9 14 7	9 9 8 25	6 7 9 21	2 5 13 18	7 12 10 15
Distance	11	1	11	11	11	11	11	1	11	11

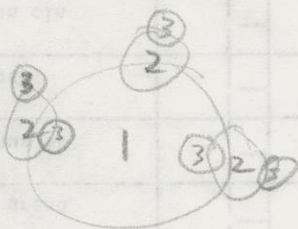
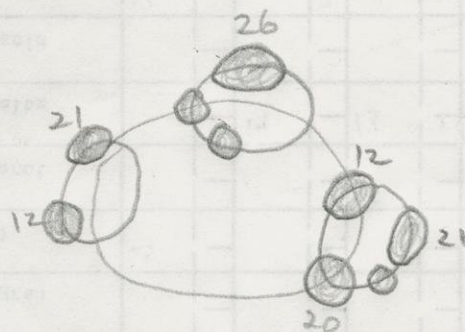
Many of these *Q. velut.* may be *Q. ellipsoid.*

The *Q. velut.* over a certain size, probly c. 60 B.A.

are mostly 2nd growth stump sprouts. Those < 60 are 3rd growth.

(There should be a broad, evident dividing line.)

There wasn't tho.



1509

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 9

STATION NO.	31	2	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata			1				1			1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul	1	21 19	2						1	1 16
Prunus serot					26		1	15		13 1
Quercus alba			35 20	1	18	3 50	2 14	13	1 50	21+1
Q. ellipsoid									24 28+1 22+1 15+1	
Q. macrocarpa	15	1						1		1
Q. rubra		16	35	16+1		20 15				
Q. velutina	21 20 26 30 45 55 18	22 21 15	13 13 45 45 12 30+1	55 12 28 19 40 19 25 18 40	30 35 15	22 40 20 23 40	45 70 30	22 35 50 55		27 40 14 13
Tilia amer										
Ulmus amer										
Ulmus fulva										
	40	20	10	36		32	6	10	6	26
Soil Dist	20	14 22 10	5 17 24	18 24	18 16 6 6	16 26 20	3 23	5 18	3	13 20 21
Distance	10 15 9 18	5 19 11 11	9 20 7 8	17 24 10 12	7 18 8 23	4 10 10 8	10 13 12 23	5 16 12 20	9 17 7 16	7 10 5 17
	111	11	111	111	1111	1111	11	11	11	

1509

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 9

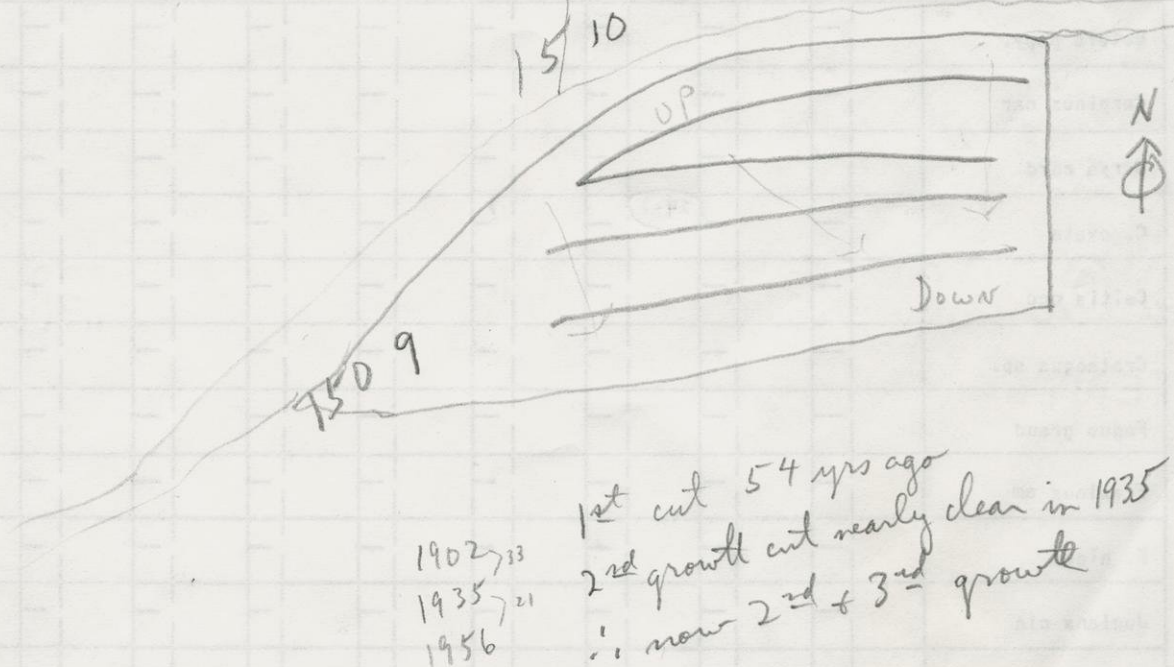
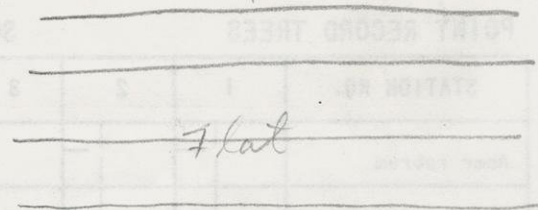
STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata			24+1	1						
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul		1								
Prunus serot	15+1	21+2						24 27 35	1	1
Quercus alba	17	28 23 55 +1	1 28 19 25	2			23 45	18 30 45	30 35	
Q. ellipsoid										
Q. macrocarpa		24+2	15 23	2 19	1 19	13	1	1 19	1	19 2
Q. rubra				35 21	40 27	40 60 35 +1	28		22 30 45	
Q. velutina	30 55 45 35	1		17+1 16 30	35 35 40	35 55 55 45 50	12 35 29 22 35 20	40	25 26 26+1	30 25 30 35 18
Tilia amer										
Ulmus amer										
Ulmus fulva										
	14	38		32	30	22	36	34	30	16
Adp.	9 7 30	23 19	17 14 7 22	16 22 22	15	11 31	18 21	17 20	15 19	8 14
Distance	13 16 17 18	4 8 7 12	3 12 9 21	6 8 12 14	3 16 18 30	9 13 22 19	10 8 8 12	7 18 12 16	16 14 7 11	7 10 11 15

Hitchcock property.

Bought from Jack Lamb 12 yrs ago.

Clear cut
1937-38

Down



seedling
< 1"

sapling
1"-4"

pole
4"-10"

young timber
10"-20"

> 20"

1509

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 9

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata			25+1	1						
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul			1	1 27 3	1 19	1	1 16	2	1	1
Prunus serot		21 19 30 35	20	17			15 14+1	2	2	30 16 30
Quercus alba	19	20 23 15 24 19	3 30 40 +1	14	40	2 23+1 30 30	3 29	65 28 15+1 30 28+1	1 20	3
Q. ellipsoid										
Q. macrocarpa	14	1		1			1			
Q. rubra					23 20 40					
Q. velutina	1+ 45 35 1+ 30 21		35 13 13	22 19	65 80 35	1 22 25+1	50+2	18 23 13 40 45 35 30 25 21 12	30 18 22 28+1	
Tilia amer										
Ulmus amer										
Ulmus fulva										
	20		46						14	
	10	5 18 21 12	23 30 30	9 11 15 15	15 20 25 14	3 22 14 22	13 16 15 30	14 15 17 24	7 5	15 14 11 17
Distance	8 17 6 19	6 11 9 13	10 13 6 23	3 16 6 11	14 8 10 19	14 17 10 11	14 3 7 18	9 15 9 19	14 12 17 9	11 7 7 24

1365
72349.69
141.61

1340

One evidence of 3rd growth. *Querc. velutina*

3rd growth stump sprouts coming up from what were
evidently 2nd growth stump sprouts.

30 18



1509

Ave. B.A.

AVE. B.A.																
	No. :	No. :	No. Pts. :	No. :	F. % :	D. % :	II :	F. % :	D. % :	Dom. % :						
Tree	Pts. :	Tr. :	Dom. :	Sap. :	Sap. :	Sap. :	Sap. :	Seed :	Seed :	Tr. :	Tr. :	Trees :	I.I. :	C.I. :	Tree :	Stem :
Acerrubrum																
A. saccharum																
Carya cord.																
C. ovata	4	4	87	8	8	9.9	7.6	26.2	117.9	4.2	2.5	1.1	7.8	35.1	21.7	21.7
Celtis occiden.																
Fagus grand.																
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere																
J. nigra																
Ostrya virgin.																
Populus grand.																
P. tremuloides	7	9	174	18	22	22.2	21	64.8	64.8	7.3	5.6	2.2	15.1	15.1	19.3	19.3
Prunus serotin	11	12	324	10	12	12.3	11.4	35.5	127.8	11.5	7.5	4	23	82.8	27	20.2
Quercus alba	29	42	1592	17	30	21	28.6	74.4	267.8	30.2	26.2	19.8	76.2	274.3	37.9	26.5
Q. ellipsoidalis																
Q. macrocarpa	10	11	222	20	25	24.7	23.8	72.7	72.7	10.4	6.9	2.8	20.1	20.1	20.2	18.5
Q. rubra																
Q. velutina	35	82	5648	8	8	9.9	7.6	26.3	65.7	36.5	51.2	70.2	157.9	394.7	68.9	31.7
Tilia american																
Ulmus american																
U. rubra																
	96	160	8047	81	105	100	100	299.9	716.7	100.1	99.9	100.1	200.1	822.1		

Ave. Dist.	
Btw'n Trees	SAP
11.9	18.7
Ave. BA	
(Total	
PA ÷ 80)	
50.3	28.8
No. Trees	
Per acre	SAPS
307.6	124.6
Dom. per	
acre	
15,472.3	

Ave. Dist.
Btw'n Trees $\frac{SAP}{11.9}$ $\frac{STEM}{18.7}$

Ave. BA
(Total
PA $\div$ 80)
 $\frac{TREE}{50.3}$ $\frac{STEM}{28.8}$
No. Trees
Per acre $\frac{SAPS}{307.6}$ $\frac{STEM}{124.6}$

Dom. per
acre

15,472.3

1.74 stems/tree

- 105.4

1002

Trees except *Q. arn.* stems trees s/t stems 12-22
41 36 1.14 29

Size Classes

	12-22	23-33	34-44	45-55	56-66	67-77	78-88
CARYA OVATA	2	2					
Pop. TREM.	7	2					
PR. SEROT.	11	4	1				
QUERC. ALBA	26	22	6	5	1		
Q. MAC.	9	3					
Q. VELUT.	57	43	45	25	2	4	2
Total	112	76	52	30	3	4	2
%	40.1	27.2	18.6	10.8	1.1	1.4	.7
# Stems	1	2	3	4	5		

	1	2	3	4	5	singles	mult.	trees	stems	% mult.	stems tree
CAR. OVAT.	4										
Pop. trem.	9										
PR. SEROT.	10	2									
Q. ALBA	27	12	3			27	15	42	60	35.7	1.43
Q. MAC.	10	1				10	1	11	12	9.1	1.09
Q. VELUT.	23	31	21	5	2	23	59	82	178	72	2.17
TOTAL	60	75	135	250	55.6	1.85					
No Q. mac.	74	124	238	59.7	1.92						

Acetabulum
A. saccharum
Carya cord.
C. ovata
Celtis occident.
Fagus grand.
Fraxinus amer.
T. lanceolata
T. pennsylvanica
L. nitida
L. styraciflua
Populus
Ulmus american
U. rubra

split origin

	mult.	stem	stems tree	% mult.	% split
Q. ALBA	15	33	2, 2	66.22	52.4
Q. MAC.	1	2	2	50	18.2
Q. VELUT.	59	155	2, 63	90.86	79.3
TOTAL	74	188	2.54		

4.201 -

1.74 stems/tree

1509
CI = 822

	Sap.	12- 19	20- 28	29- 38	39- 50	51- 63	64- 78	79- 95	96- 113	114- 132	133- 153	154- 176	177- 201	202- 254	255- 314	315- 380	381- 452	
Pop. trem.	26	22	6	3														17 9
Quercus ellip.																		21 11 2
Q. macrocarp.	30	25	8	20	1													158 82 96
Q. velut.	10	8	4	15(14)	22(26)	28(42)	6(8)	5(4)	2(2)									23 12 4 8
Prun. serot.	14	12	7	3	2(4)													81 42 18 35
Querc. alba	35	30	10	16(6)	7(7)	7(4)	1(0)	1										
Pop. grand.																		
Carya ovata	10	8	2	2														8 4
Querc. rubra																		
Juglans nig.																		
Frax. amer.																		
Acer rubrum																		
Tilia amer.																		
Jug. cinerea																		
Ulmus amer.																		
Celtis occ.																		
Ulm. rubra																		
Carya cord.																		
Ostrya virg.																		
Acer sacc.																		

Sap CI = 105
717

160 (119)
228

#/ave

125

211.7

92.4

3.8

308

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 9
Quadrat No.

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala 6789
Allium tricoccum
Amphicarpa braceata 14810
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium 4
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 234710
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 1234578
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 68
Claytonia virginiana
Cornus alternifolia
C. femina 12389
C. rugosa
Corylus americana 123456
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus 3
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana 23467910
Galium aparine 9
G. circaezans
G. concinnum 9
G. lanceolatum
G. triflorum
Geranium maculatum 24678
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 79
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia 34
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa 6910
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 8
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium 5
Parietaria pennsylvanica 7
Parthenocissus inserta 4
Phlox divaricata
Phryma leptostachya 46710
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum 3
Polygonatum pubescens
Potentilla simplex 5710
Prenanthes alba 3
Pteridium aquilinum
Pyrola elliptica 7
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 7
Ribes americanum
R. cynosbati 7
R. missouriense
Rosa sp. 27
Rubus allegheniensis 235610
R. occidentalis 238910
R. strigosus 46
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 79
S. marilandica 10
Smilacina racemosa 27
S. stellata 8
Smilax ecirrhata 36
S. herbacea
S. tamnoides
Solidago altissima 14
S. flexicaulis
S. ulmifolia 2
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 2479
V. pubescens
Vitis aestivalis
V. riparia 5
Xanthoxylum americ.
Zizia aurea

Additional species:

Quercus velut. 14, 10
Q. alba 5
Acer negundo 1
Panicum serot. 2356
Poa compressa 6910
Bryophila fruticosa 6910
Ulmus fulva 7
Amelanchier sp. 10

Convolvulus sepium 7
Ambrosia artemisiifolia 9 12 14 18 20
C. canad. 9 12 14 18

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 9
Quadrat No.

Actaea pachypoda
✓ Adiantum pedatum
Agrimonia grypsossepala
Allium tricoccum
Amphicarpa braceata 11 18 19
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium 20
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 14 17 18 20
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 11 14 16 18 20
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 11 17 18 19
Claytonia virginiana
Cornus alternifolia
C. femina 11 16 17 18 19 20
C. rugosa
Corylus americana 13 14 15 17 19
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 14
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa 11
Fragaria virginiana 20
Galium aparine
G. circaezans
G. concinnum 13 18
G. lanceolatum
G. triflorum
Geranium maculatum 12 14 18 20
Gerardia grandiflora
Geum canadense 13
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 14 15 18
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa 16
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium 14
Parietaria pennsylvanica 11 17
Parthenocissus inserta 15 16 19
Phlox divaricata
Phryma leptostachya 11 15 16 17
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 14 20
Prenanthes alba
✓ Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 12 13 15 16 20
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis 12 16 18 19 20
R. occidentalis 12
R. strigosus 16 19
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa 13 14 16
S. stellata 11 12 16 18
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia 12
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
✓ Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 14 15 18 19
V. pubescens
Vitis aestivalis
V. riparia 15
Xanthoxylum americ.
Zizia aurea

Additional species:

- Querc. velut. 13 16 18 20
- Prunus serot. 16 20
- Poa compressa 17 18

- Blechnum sp. 16
- Amelanchier 17 19
- Ulmus fulva 20

- Amorpha canescens 20 21 22
- Ceanothus americ. 16
- Opalis violae 9
- Viburnum lentago 20

Presence List
(Uncommon species)

SOUTHERN UPLAND HARDWOODS

Stand No. 9

Locality:

County:

Sec:

T:

R:

Date:

Observers:

Size of Stand:

Size of Area Sampled:

Condition of Stand:

Type:

Acalypha rhomboidea

Agastache scrophul.

Allium canadense

Amorpha canescens

Anaphalis margarit.

Anemone cylindrica

Arabis canadensis

A. laevigata

A. lyrata

A. perstellata

Aralia pispida

Arisaema dracont.

Asclepias ovalif.

A. exaltata

Aster azureus

A. simplex

A. prenanthoides

Athyrium thelypter.

Boehmeria cylindr.

Botrychium multif.

Bromus purgans

Camptosorus rhizop.

Carex convoluta

Ceanothus americ.

Chimaphila umbell.

Cirsium altissim.

Clematis virgin.

Clintonia boreal.

Comandra umbellata

Conopholis americ.

Corallorrhiza mac.

Corydalis semperv.

Cynoglossum offic.

Cystopteris bulbif.

Desmodium cuspidatum

D. canadense

Dicentra canad.

Diervilla lonicera

Dioscorea villosa

Dirca palustris

Elymus villosus

Epifagus virgin.

Erigeron philadel.

Erythronium americ.

Evonymus atropur.

Floerkea proserp.

Fragaria vesca

Galium boreale

Gaultheria procumb.

Gaylussacia baccata

Gentiana quinquef.

Geum virginianum

Hedeoma hispida

Hepatica americana

Heracleum maximum

Hieracium canad.

H. scabrum

Hydrophyllum append.

Hypoxis hirsuta

Ilex verticillata

Juncus tenuis

Juniperus communis

J. virginiana

Krigia biflora

Lathyrus venosus

Lilium philadel.

Liparis liliifolia

Lobelia cardinalis

Lonicera dioica

L. hirsuta

Luzula acuminata

L. multiflora

Lysimachia ciliata

L. hybrida

Miliun effusum

Mitchella repens

Monotropa uniflora

Oenoclea sensibilis

Oryzopsis asperif.

Osmunda cinnamomea

Oxalis violacea

Panax trifolium

Paronychia canad.

Pedicularis canad.

Physocarpus opul.

Phytolacca americana

Pilea pumila

Polymnia canad.

Polypodium vulgare

Prunella vulgaris

Pteretis pensylvanica

Pyrus coronaria

P. ioensis

Ranunculus fascicul.

R. rhomboideus

Rhus glabra

R. typhina

Rubus hispidus

R. pubescens

Rudbeckia laciniata

Salix sp.

Sambucus pubens

Saxifraga pennsylv.

Scrophularia lan.

S. marilandica

Senecio pauperculus

Silene stellata

Solanum nigrum

Solidago speciosa

Staphylea trifolia

Streptopus roseus

Symplocarpus foet.

Taenidia integerr.

Taxus canadensis

Thalictrum dasycarp.

Thaspium aureum

Tradescantia ohio.

Uvularia sessilif.

Vaccinium myrtilloides

Veronica serpyllif.

Viburnum lentago

V. trilobum

Vicia americana

Viola conspersa

V. incognita

Wulfenia bullii

Additional Species:

Soil A₀ $\frac{1}{4} - \frac{1}{2}$ " Sandy loam

A, $2\frac{1}{4} - 2\frac{1}{2}$ "

Temp. Soil $20\frac{1}{2}^{\circ}\text{C}$

air 28°C

$$19\frac{1}{2}$$
 $27\frac{1}{2}$

Light 8500 FC, outside - 2300

220 240

130 170

210 15A

210 140

250 300

1020	1000
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2020

Soil water permeability

50 cc

60 sec

10 sec.

270

35

SOUTHERN UPLAND HARDWOODS

Presence

S. side of rd.
1589

Actaea pachypoda	✓ Galium aparine 5	✓ Pteridium aquilinum
✓ Adiantum pedatum	G. circaeazans	✓ Pyrola elliptica 5
✓ Agrimonia gryposepala 30	✓ G. concinnum 10	Ranunculus abortivus
✓ Amelanchier spp. 15	G. lanceolatum	✓ R. recurvatus
✓ Amphicarpa bracteata 35	G. triflorum	R. septentrionalis
Anemonella thalictroides	✓ Geranium maculatum 45	✓ Rhus radicans 30
✓ Apocynum androsaemifolium 10	✓ Geum canadense 5	✓ R. cynosbati 5
Aralia nudicaulis	Hackelia virginiana	R. missouriense
A. racemosa	✓ Helianthus strumosus 25	✓ Rosa sp. 10
Arenaria lateriflora	Hepatica acutiloba	✓ Rubus allegheniensis 50
Arisaema atrorubens	Hydrophyllum virginianum	✓ R. occidentalis 30
Aster macrophyllus	Hystrix patula	✓ R. strigosus 20
✓ A. sagittifolius 45	Impatiens biflora	Sambucus canadensis
A. shortii	✓ Lactuca biennis	Sanguinaria canadensis
Athyrium filix-femina	Laportea canadensis	✓ Sanicula gregaria 10
✓ Botrychium virginianum	✓ Lathyrus ochroleucus	✓ S. marilandica 10
Brachyelytrum erectum	Lonicera prolifera	✓ Smilacina racemosa 25
Carex albursina	✓ Lysimachia quadrifolia 10	✓ S. stellata 25
C. convoluta	✓ Monarda fistulosa 20	✓ Smilax ecirrhata 10
✓ C. pensylvanica 60	✓ Osmorhiza claytoni 5	S. herbacea
Caulophyllum thalictroides	✓ O. longistylis	✓ Solidago canadensis 10
✓ Celastrus scandens	✓ Oxalis violacea 5	S. flexicaulis
✓ Circaea quadrisulcata 30	✓ Panicum latifolium 10	✓ S. ulmifolia 10
Cornus alternifolia	✓ Parietaria pensylvanica 5	Thalictrum dioicum
✓ C. femina 55	✓ Parthenocissus vitacea 20	Triosteum perfoliatum
C. rugosa	Phlox divaricata	Uvularia grandiflora
✓ Corylus americana 55	✓ Phryma leptostachya 40	Veronicastrum virginicum
Cryptotaenia canadensis	Podophyllum peltatum	Viburnum acerifolium
✓ Desmodium glutinosum 5	Polemonium reptans	✓ V. lentago 5
D. nudiflorum	✓ Polygonatum canaliculatum 5	✓ V. rafinesquianum
Dioscorea villosa	P. pubescens	✓ Viola cucullata 40
Eupatorium purpureum	Polygonum virginianum	V. pubescens
E. rugosum	✓ Potentilla simplex 25	Vitris aestivalis
✓ Festuca obtusa 5	✓ Prenanthes alba 5	✓ V. riparia 10
✓ Fragaria virginiana 40	✓ Prunus virginiana 5	Zanthoxylum americanum

Additional species:

- Erigeron pulchellus 5
- Arctium minus
- Poa comp. 25
- Poa palustris
- Dodecatheon meadia
- Ambrosia artem. 25
- Convolvul. spith 5
- Amorph. 5
- Ceanothus 5

- Acer neg. 5
- Prun. serot. 30
- Q. alba 5
- Q. velut. 35
- Ulmus rub. 10

70 - 70 - 75 - 60

Canopy 75 - 65 - 75 - 60 - 80 - 55 - 70 - 80 - 65 - 65 - 85

ave 70%

1509

CI = P22

Sap - 7175

H - 227 + 1

