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Site 1510: 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. 1510

Name:

County: Green

Date: July 1956

Size of Stand: 25 acres

Forest Type: red-black-birch, white oak

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: N

Condition of Stand: Clear cut, c. 20 yrs.

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	6.5								94.4
A ₂									
B									

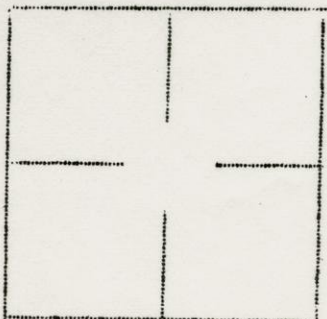
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	4-1/2"	
A ₁	12-2"	silt loam (little sand)
A ₂		
B		

Parent Material:

Map:



1510 Stand #

Clear

Stand #

1510

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 10

STATION NO.	1	2	3	4	5	6	7	8	9	30
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>										
<i>C. ovata</i>										
<i>Celtis occ</i>										
<i>Crataegus sp.</i>										
<i>Fagus grand</i>										
<i>Fraxinus am</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>										
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>	(27) (30)	29	1		(28) (15)		1	20	1	(12) (13)
<i>Quercus alba</i>		2 40	1	2 35		75		23		2 (50) (22)
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>		(40) (23+2)	1	(45) (40)	2 27 28 23	2 18 40	3 (15+1) 22	4 (27) (18)	3 (20) (16)	(24) (29) (13+1)
<i>Q. rubra</i>	(26+2) 24	2 95	1 (45) (19)	1 (35) (35)	1 (60) (16)	1 (24) (29)	1 (60) (15)			(24) (30) (40) (23)
<i>Q. velutina</i>	21		(15+2)			(60) (23)	22 22	45		45
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>										
<i>Acer negundo</i>										
	6 18 7 13	13 16 14 15	17 28 7 24	7 12 17 30	13 17 8 7	15 23 5 17	22 8 15 20	3 7 9 28	17 7 15 9	14 13 7 15
Distance	10 18 7 10	7 8 10 14	14 21 8 13	8 13 11 19	7 7 15 8	7 10 17 20	5 15 14 13	7 10 11 11	6 10 9 7	6 7 5 16
	I	II	IIII	II	I III	I	II	II	III	IIII

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 10

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

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 10

STATION NO.	1	2	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	15	(25+2)	23	(19 12) (29 15) (35 27 19)		13		30	(19) (35 26) (15 28)	
Quercus alba	30	2 (21 18) +1	1	1	1			1		1
Q. ellipsoid										
Q. macrocarpa	(40+2) 24	1	3	2	3	30	2 29 25 18	4 14	2 14	2 24 (18+1) (40 19)
Q. rubra	1		(17 13) (29 35)	1	19	2	(25 85) 70	1 30 70	1	
Q. velutina		(55 18) 40	(35 35)	(35) 29	(13+3) 50		40		1 (35) 29 95	1 (16) 19 29
Tilia amer										
Ulmus amer										
Ulmus fulva										
	3 7 8 27	2 15 22 14	21 14 17 16	3 10 8 27	29 10 18 11	4 5 22 36	15 17 7 23	17 9 23 11	14 7 17 25	14 10 18 16
Distance	7 3 7 12	17 10 8 18	10 16 7 7	18 9 9 20	5 14 8 7	2 13 10 8	4 8 11 11	8 5 17 6	11 8 22 20	12 8 7 13

1510

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 10

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata									70	1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot			35							
Quercus alba	3	14	1		40+1		16	2		2 45 1
Q. ellipsoid										
Q. macrocarpa	12 16		1 13 15	2 24 25 40	2 35 17	3 19+2	3	1 16		1
Q. rubra	26	1 55	1 75	1 65	2		28+1	1 40 26 24	4 35 15 12 45	15 45
Q. velutina	35	26 45	1	1 27 17 20	24+1	50 27 17	1 35 35		130 55	1 17
Tilia amer										
Ulmus amer										
Ulmus fulva					1					
Sep	3 14 7 13	15 14 17 9	18 22 19 14	3 9 5 6	7 14 3 17	5 10 21 11	10 13 27 7	10 14 8 8	16 12 16 17	18 11 9 10
Distance	8 7 7 7	3 4 5 6	11 7 10 7	10 15 12 11	3 14 10 11	7 7 26 16	9 20 7 8	4 5 16 11	7 18 9 19	5 11 8 16

Stamp

163.8
116.64
20724

CI 1510

CI=1000

ACER
NEGUNDO

	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.	3	2	1															2	1
Quercus ellip.	2	1																	
Q. macrocarp.	131	29	20(2)	11(2)	6(2)	4(1)												96	41(8) 19
Q. velut.	12	7	4	12(8)	6(3)	9(2)	3(2)	1		1(1)								84	36(16) 38
Prun. serot.	12	7	5(2)	7(4)	8(7)													47	20(13) 31
Querc. alba	55	33	6	4(1)	2	5(1)	1											42	18(2) 5
Pop. grand.																			
Carya ovata	3	2					1											2	1
Querc. rubra	46	28	5(1)	11(6)	8(10)	10(9)	3(2)	4	2(1)									100	43(29) 67
Juglans nig.																			
Frax. amer.																			
Acer rubrum																			
Tilia amer.																			
Jug. cinerea																			
Ulmus amer.																			
Celtis occ.																			
Ulm. rubra	2	1																	
Carya cord.																			
Ostrya virg.																			
Acer sacc.																			

160

Sap CI = 838

160(68)
160

#/acre

266

270.3

93.2

9.3

373

Ave. B.A.

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	F. % : Seed	D. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. :	C. I. :	TREE : TAPER	STEM : STEM
Acerrubrum																
A. saccharum																
Carya cord.																
C. ovata	1	1	70	2	2	2	1.2	4.8	21.6	.9	.6	1	2.5	11.2	70	70
Celtis occiden.																
Fagus grand.																
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere																
J. nigra																
Ostrya virgin.																
Populus grand.																
P. tremuloides	1	1	19	2	2	2	1.2	4.8	4.8	.9	.6	.3	1.8	1.8	19	19
Prunus serotin	17	20	741	6	7	5.9	4.4	15.4	55.4	15.6	12.5	11.1	39.2	141.1	37	225
Quercus alba	15	18	593	25	33	24.5	20.6	67.6	243.4	13.8	11.2	8.9	33.9	122	32.9	29.6
Q. ellipsoidalis																
Q. macrocarpa	24	41	1085	37	79	36.3	49.4	128.5	128.5	22	25.6	16.3	63.9	63.9	26.5	22.1
Q. rubra	24	43	2417	21	28	20.6	17.5	57.1	319.8	22	26.9	36.2	85.1	476.6	56.2	33.1
Q. velutina	27	36	750	7	7	6.9	4.4	16.9	42.2	24.8	22.5	26.2	73.5	183.7	48.6	33.7
Tilia american																
Ulmus american																
U. rubra																
Acer negundo																
	109	160	6675	102	160	100.2	99.9	299.9	837.8	100	99.9	100	299.9	1000.3		

Ave. Dist.
Btw'n Trees Sap
10.8 12.8

Ave. BA
(Total
PA ÷ 80)
TREE STEM
41.7 29.1
No. Trees
Per acre Sap
373.5 265.9

Dom. per
acre
15,574.9

1.43 stems/tree

-162.5

Trunks except Q. arw. stem trees s/t stem 12-22
 84 63 1.33 45

Size Classes

	12-22	23-33	34-44	45-55	56-66	67-77	78-88	89-99	100-124	125-149
Carya ovata						1				
Pop. trem.	1									
Pr. serot.	17	13	3							
Q. alba	11	2	3	3		1				
Q. mac.	27	16	6							
Q. rubra	21	21	13	8	3	4	1	1		
Q. velut.	17	13	10	8	2			1	1	
total	95	65	35	19	5	6	1	2	1	228

99.6%

.4%

	1	2	3	4
C. ovata	1			
Pop. trem.	1			
Pr. serot.	10	7	3	

Q. ALBA	1									
Q. P. TREM.	1									
PR. SEROT.	10	7	3	singles	mult.	trees	stems	% mult.	stem/tree	
Q. ALBA	16	2		16	2	18	20	11.1	1.11	
Q. MAC	35	4	2	35	6	41	49	14.6	1.2	
Q. RUBRA	24	11	6	2	24	19	43	72	44.2	1.67
Q. VELUT.	23	10	3		23	13	36	52	36.1	1.44
					98	40	138	193	29	1.4

No Q. mac 34 97 144 35.1 1.48

Q. Rub-vel. 47 32 79 124 40.5 1.57

converted size

$$\frac{518}{19} = 27.3$$

$$\frac{3942}{122} = 32.3$$

split origin

#	% split	% mult.
6	33.3	33.3
11	26.8	54.5
22	51.2	86.4
16	44.4	81.2
34	81	2.38
32	77	2.41
38	48.1	84.2

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 10
Quadrat No.

Actaea pachypoda
 Adiantum pedatum
 Agrimonia gryposepala 69
 Allium tricoccum
 Amphicarpa braceata
 Anemone quinquefolia
 A. virginiana
 Anemonella thalictroides
 Antennaria sp.
 Aplectrum hiemale
 Apocynum androsaemifolium 7
 Aquilegia canadensis
 Aralia nudicaulis
 A. racemosa
 Arenaria lateriflora
 Arisaema atrorubens
 Asarum canadensis
 Aster macrophyllus
 A. sagittifolius 123456789
 A. shortii
 Athyrium filix-femina
 Botrychium virginianum
 Brachyelytrum erectum
 Campanula americana
 Carex albursina
 C. pensylvanica 12610
 Caulophyllum thalictroides
 Celastrus scandens
 Circaea quadrisulcata 124567910
 Claytonia virginiana
 Cornus alternifolia
 C. femina 1345610
 C. rugosa
 Corylus americana 68
 Cryptotaenia canadensis
 Cypripedium pubescens
 Cystopteris fragilis
 Dentaria laciniata
 Desmodium glutinosum
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum
 Eupatorium purpureum

Eupatorium rugosum 3
 Festuca obtusa
 Fragaria virginiana 2
 Galium aparine 10
 G. circaeans
 G. concinnum 8
 G. lanceolatum
 G. triflorum 39
 Geranium maculatum 9
 Gerardia grandiflora
 Geum canadense 3
 Goodyera pubescens
 Habenaria bracteata
 Hackelia virginica
 Hamamelis virginiana
 Helianthus strumosus 510
 Hepatica acutiloba
 Heuchera richardsonii
 Hydrastis canadensis
 Hydrophyllum virginianum
 Hystrix patula 6
 Impatiens capensis
 I. pallida
 Isopyrum biternatum
 Lactuca biennis
 Laportea canadensis
 Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia 467
 Maianthemum canadensis
 Menispermum canadensis
 Mitella diphylla
 Monarda fistulosa
 Orchis spectabilis
 Oryzopsis racemosa
 Osmorhiza clayton. 4
 O. longistylis
 Osmunda claytoni
 Panax quinquefolia
 Panicum latifolium
 Parietaria pennsylvanica 356
 Parthenocissus inserta 125789
 Phlox divaricata
 Phryma leptostachya 37
 Podophyllum peltatum
 Polemonium reptans

Polygonatum canaliculatum 247
 Polygonatum pubescens
 Potentilla simplex
 Prenanthes alba
 ✓ Pteridium aquilinum 9
 Pyrola elliptica
 Ranunculus abortivus 3
 R. recurvatus
 R. septentrionalis
 Rhus radicans 1469
 Ribes americanum
 R. cynosbati 1, 2
 R. missouriense 1
 Rosa sp.
 Rubus allegheniensis 67910
 R. occidentalis 124710
 R. strigosus
 Sambucus canadensis
 Sanguinaria canadensis
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa 145689
 S. stellata 8
 Smilax ecirrhata 79
 S. herbacea
 S. tamnoides
 Solidago altissima
 S. flexicaulis
 S. ulmifolia 1257
 Thalictrum dioicum
 Tovar virginiana
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virginicum
 Viburnum acerifolium
 V. rafinesquianum
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia 9
 Xanthoxylum americ.
 Zizia aurea

Additional species:

• Prunus serot. 149
 • Quercus velut. 3, 510 - Carya ovata 7
 • Quercus alla 1
 • P. mac. 8
 • Acer negundo 15
 • Poa pratensis 57
 • P. compressa 7
 • Convolvulus sepium 7
 • Conoclinium

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 10
Quadrat No.

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata 19
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium 14
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 12 16 19
A. shortii
Athyrium filix-femina
Botrychium virginianum 17
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 11 12 16 19 20
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 11 12 13 16 20
Claytonia virginiana
Cornus alternifolia
C. femina 11 12 15 16 19 20
C. rugosa
Corylus americana 14 18
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
✓ Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

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

Polygonatum canaliculatum 13
Polygonatum pubescens
Potentilla simplex
Prenanthes alba 19
Pteridium aquilinum 13 14 16 20
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 13 14 15 17 18 19 20
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis 11 12 14 15 20
R. occidentalis 12 13 15
R. strigosus 16 17
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 17
S. marilandica 17 19
Smilacina racemosa 11 13 16 18 20
S. stellata 11 15 18 19 20
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima 12 13
S. flexicaulis
S. ulmifolia 18 19
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 16
V. pubescens
Vitis aestivalis
V. riparia 13 16 17
Xanthoxylum americ.
Zizia aurea

Additional species:

- Acer negundo 11
- Quercus velut. 12
- Pinus virgin. 13
- Q. alba 16
- Poa compressa 12 17
- Taratacum sp. 12

- Aster prenanthoides 15
- Cirsium altiss. 5, 10

Presence List
(Uncommon species)

SOUTHERN UPLAND HARDWOODS

Stand No. 10

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
Athyrum thelypter.
Boehmeria cylindr.
Botrychium multif.
Bromus purgans
Cantosorus 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
Pteris 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 pauperulus
Silene stellata
Solanum nigrum
Solidago speciosa
Staphylea trifolia
Streptopus roseus
Symplocarpus foet.
Taenidia integerr.
Taxus canadensis
Thalictrum dasycarp.
Thaspium aureum
Tradescantia ohio.
Urtica sessilif.
Vaccinium myrtilloides
Veronica serpyllif.
Viburnum lentago
V. trilobum
Vicia americana
Viola conspersa
V. incognita
Wulfenia bullii

Additional Species:

7000

Increment boring taken
of *P. alba* + *P. mac.*
Found to be 18-22 yrs.
old.
17-18" B.A.

19
28 67.9%

Am 28

soil A, $0 \frac{1}{4} - \frac{1}{2}$ "
A, $1 \frac{1}{2} - 2$ "

Little sandy, mostly silt loam
sand & stand 9

Water perm. 50 cc

20 sec.
30 sec.

25 Apr

SOUTHERN UPLAND HARDWOODS

Presence

N. side of rd.
1510

- | | | |
|--------------------------------|--------------------------------|---------------------------|
| Actaea pachypoda | ✓ Galium aparine 10 | ✓ Pteridium aquilinum 25 |
| Adiantum pedatum | G. circaeazans | Pyrola elliptica |
| ✓ Agrimonia gryposepala 10 | ✓ G. concinnum 10 | ✓ Ranunculus abortivus 5 |
| Amelanchier spp. | ✓ G. lanceolatum 5 | R. recurvatus |
| ✓ Amphicarpa bracteata 5 | ✓ G. triflorum 10 | R. septentrionalis |
| Anemonella thalictroides | ✓ Geranium maculatum 5 | ✓ Rhus radicans 55 |
| ✓ Apocynum androsaemifolium 10 | ✓ Geum canadense 5 | ✓ R. cynosbati 10 |
| Aralia nudicaulis | Hackelia virginiana | R. missouriense |
| A. racemosa | ✓ Helianthus strumosus 25 | Rosa sp. |
| Arenaria lateriflora | Hepatica acutiloba | ✓ Rubus allegheniensis 45 |
| Arisaema atrorubens | Hydrophyllum virginianum | ✓ R. occidentalis 40 |
| Aster macrophyllus | ✓ Hystrix patula 5 | ✓ R. strigosus 10 |
| ✓ A. sagittifolius 60 | Impatiens biflora | Sambucus canadensis |
| A. shortii | ✓ Lactuca biennis | Sanguinaria canadensis |
| Athyrium filix-femina | Laportea canadensis | ✓ Sanicula gregaria |
| ✓ Botrychium virginianum 5 | ✓ Lathyrus ochroleucus | ✓ S. marilandica 10 |
| Brachyelytrum erectum | ✓ Lonicera prolifera 5 | ✓ Smilacina racemosa 55 |
| Carex albursina | ✓ Lysimachia quadrifolia 35 | ✓ S. stellata 30 |
| C. convoluta | ✓ Monarda fistulosa | ✓ Smilax ecirrhata 10 |
| ✓ C. pennsylvanica 45 | ✓ Osmorhiza claytoni 20 | S. herbacea |
| Caulophyllum thalictroides | O. longistylis | ✓ Solidago canadensis 10 |
| ✓ Celastrus scandens | Oxalis violacea | S. flexicaulis |
| ✓ Circaea quadrisulcata 65 | Paricum latifolium | ✓ S. ulmifolia 30 |
| Cornus alternifolia | ✓ Parietaria pennsylvanica 35 | Thalictrum dioicum |
| ✓ C. femina 60 | ✓ Parthenocissus vitacea 40 | Tricostemum perfoliatum |
| C. rugosa | Phlox divaricata | Uvularia grandiflora |
| ✓ Corylus americana 20 | ✓ Phryma leptostachya 50 | Veronicastrum virginicum |
| Cryptotaenia canadensis | Podophyllum peltatum | Viburnum acerifolium |
| ✓ Desmodium glutinosum | Polemonium reptans | V. lentago |
| D. nudiflorum | ✓ Polygonatum canaliculatum 20 | ✓ V. rafinesquianum |
| Dioscorea villosa | P. pubescens | ✓ Viola cucullata 5 |
| Eupatorium purpureum | Polygonum virginianum | V. pubescens |
| ✓ E. rugosum 5 | Potentilla simplex | Vitis aestivalis |
| Festuca obtusa | ✓ Prenanthes alba 5 | ✓ V. riparia 20 |
| ✓ Fragaria virginiana 15 | ✓ Prunus virginiana 5 | Zanthoxylum americanum |

Additional species:

- Arctium minus
- Bromus pumilus
- Helianthus sp.
- Aster laterif 5
- Cirsium alt. 10
- Convolvulus 5

- Poa comp 10
- Poa pratensis 10 } 20
- Taraxacum 5
- Heuchera rich. 5

- Acer neg. 15
- Prun serot. 15
- Q alba 10
- Q mac. 5
- Q velut 20
- Ulmus rubra 10
- Carya ovata 5

74.3%

65 - 70 - 90

Canopy 75 - 80 - 70 - 60 - 70 - 75 - 55 - 80 - 80 - 80 - 90

1510

CI = 1000

Sap 838-1

H-242 S

750

550

350

250

150

100

50

25

1

4

7

10

13

16

19

22

25

