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POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 30

STATION NO.	21	2	3	4	5	6	7	8	9	30
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	18 2	4	3	3	24 13	3 30 24	4 22 14	4 17 20	3 23 30	3 23 4
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra		260 220				20				
Ostrya virg										
Populus gran										35
P. tremul										
Prunus serot							14			
Quercus alba			160							
Q. ellipsoid										
Q. macrocarpa					76					
Q. rubra				15 19 14+21	28 45					28 18 18
Q. velutina										18 25
Tilia amer										
Ulmus amer										
Ulmus fulva	29 35 25	100 60 16	50 75	50 35	60 14 50 45	1	85	28 40	60 23	
	16 13 6 14	3 8 12 15	9 10 11 14	11 18 9 14	7 14 8 14	6 6 6 8	6 6 8 9	11 9 4 12	9 6 8 14	8 13 12 15
Distance	7 9 7 13	10 12 17 20	7 12 16 22	13 7 15 17	20 13 12 13	14 18 8 21	17 6 7 16	9 14 8 19	8 17 12 22	6 25 8 32

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 30

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	1	1	2 15+1	2 23+1 14	4 16	1	1	2 13	1	3
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra	60 19 14	1	1 15 16	1			160		19	
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot			1	1		1	1		21	1 75
Quercus alba	55	135 20		1				110 130 120 18		1
Q. ellipsoid										
Q. macrocarpa										
Q. rubra				15 28 17+4	17 19	1 15+3				1
Q. velutina										
Tilia amer										
Ulmus amer										
Ulmus fulva	2	45 17	2 100 14	45 35+1 28	16	90 120 45	1 50+1 70	2 28	2 29 19	18 35 90
	6 12 11 12	9 6 6 13	7 12 10 20	11 13 10 6	15 17 13 17	11 6 15 7	11 24 11 24	9 5 17 20	7 22 6 21	10 15 6 10
Distance	13 9 23 16	8 15 15 21	12 15 13 16	14 11 19 16	9 12 16 14	19 15 16 21	11 13 7 26	8 13 12 14	22 15 7 26	17 9 14 15

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 30

STATION NO.	31	2	3	4	5	6	7	8	9	40			
Acer rubrum													
A. saccharum													
Betula papy.													
Carpinus car													
Carya cord	(14+1) 1	1	4	3	22	3	2	3	25	4	17	2	3
C. ovata													
Celtis occ													
Crataegus sp.													
Fagus grand													
Fraxinus am													
F. nigra													
Juglans cin.													
J. nigra						stmp SPRT.	1						
Ostrya virg													
Populus gran		25	2	15	15	1		45 45	1	13		14	1
P. tremul													
Prunus serot					13	12							
Quercus alba	28	120 200 80 95	*		55				45		(65 +1)		
Q. ellipsoid	28												
Q. macrocarpa	55											23	
Q. rubra	(21 27 20)				stmp	1	Acorn	1	(15+2)			(16 16 +5)	
Q. velutina		14											
Tilia amer													
Ulmus amer											stmp		
Ulmus fulva	3		1 13	30	19	(12 19)	40	13	55		21		
			(40 50) 55	45 65	24	140	40	90					
	17 17	7 20	6 7	5 8	4 5	7 7	7 10	2 10	5 10	15 9			
	17 12	14 25	7 16	6 9	7 10	8 12	19 15	8 13	9 17	15 24			
Distance	11 13	7 6	15 19	8 14	8 22	11 10	6 9	6 13	4 9	13 12			
	10 17	15 12	18 22	13 20	10 14	11 28	7 13	12 18	6 19	10 10			

Saw
some
cherry
stumps
too★
open
ground
440
stump
sap

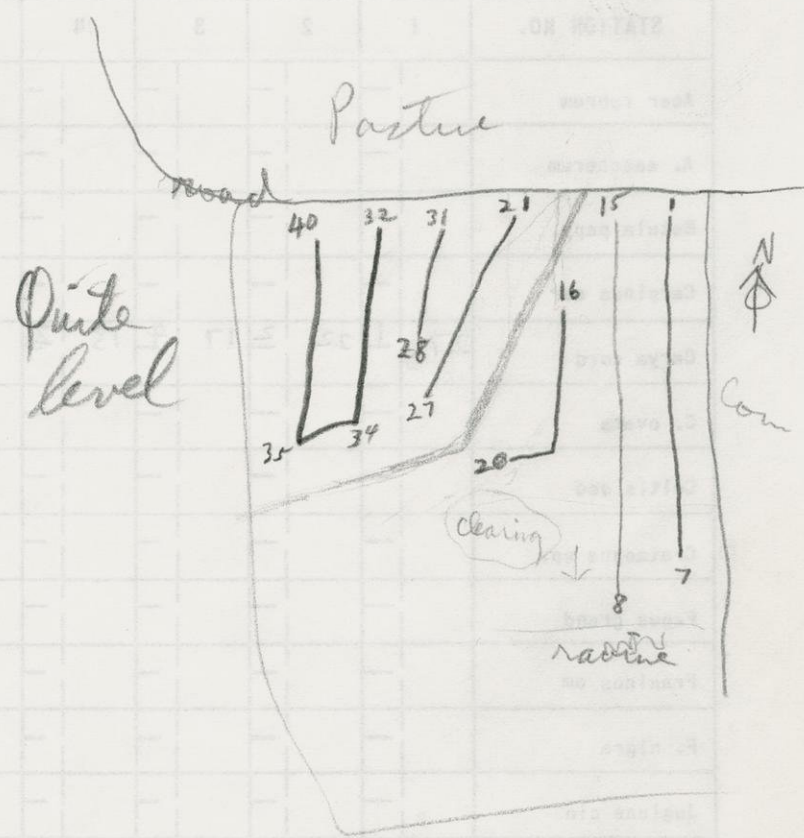
POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 30

STATION NO.	1	2	3	4	5	6	7	8	9	10								
Acer rubrum																		
A. saccharum																		
Betula papy.																		
Carpinus car																		
Carya cord	27	1	22	2	17	4	13	2	1	2	3	3	1	27				
C. ovata																		
Celtis occ																		
Crataegus sp.																		
Fagus grand																		
Fraxinus am																		
F. nigra																		
Juglans cin.																		
J. nigra																		
Ostrya virg																		
Populus gran																		
P. tremul																		
Prunus serot	1												1	45 20				
Quercus alba				170	135 160	140 230 45		40 130	40	180 55				95 40+1				
Q. ellipsoid																		
Q. macrocarpa																		
Q. rubra				70	26	1												
Q. velutina		35 20	1	30 25 28														
Tilia amer																		
Ulmus amer					120													
Ulmus fulva	45 55 120	2	30	1	150 13	23 19 12	2	30	1	13	2	17 120 130	40+1	70	1	24 14	2	2
Robinia p-a.		12																
	13 19 16 19	15 16 19 19	6 12 7 27	18 16 17 14	6 22 22 34	14 7 10 13	7 12 14 25	7 9 14 18	3 15 10 19	14 21 23 18								
Distance	7 19 15 20	11 8 8 16	13 9 14 27	17 9 18 28	5 27 6 14	11 14 12 16	7 21 9 12	26 11 11 14	21 9 10 20	16 12 7 17								

Selec. ctng of red & wht oaks,
 walnut, cherry, elm.
 20-40, cut nearly all oaks.



Stump

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No.

1534

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
4-9 7.7 8.6 24.5 J. nigra 154.3							C-4	(B-3) 2sp	(B-4) 2sp	B-3
Ostrya virg										
Populus gran										
P. tremul										
1-1 1.9 1 4.4 Prunus serot 15.8				A-4						
15-30 28.8 28.6 86.1 Quercus alba 310	(B-4) sp	B-3 B-4	B-3 B-4	A-2 A-4	A-4 C-3			C-5	C-4 B-3	C-4
Q. ellipsoid	B-3	(A-3) sp								
Q. macrocarpa										
20-43 38.4 40.9 119 Q. rubra 666.4	C-4 T35+27			C-4 T20	A-5 C-4	B-4 sp	A-4 B-5	(B-4) 2sp	B-4 B-5	(B-5) 2sp
2-4 3.8 3.8 11.4 Q. velutina 28.5	B-5 B-4 T22+17	B-5	B-4	B-5 T32+27	2sp B-5	B-4	B-4 sp	B-4 sp		C-4
Tilia amer										
Ulmus amer										
10-18 19.2 17.1 54.5 Ulmus fulva 446.9	B-3	A-4 A-3 A-5 T18					B-4 C-4	B-5 B-4 (A-3) sp	C-4	
Canopy	80	70	60	65	75	55	80	80	55	80
Distance	13 35 21 45	11 24 25 25	25 41 12 28	17 48 22 19	10 18 20 30	17 19 13 16	13 19 22 29	8 19 13 23	10 18 16 25	17 20 17 30

CT = 1621.9

ave

70%

21.3'

96/ac

1534

Ave BA.

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. Pts. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	F. % : Seed	D. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. : I. I.	C. I. : C. I.	Tree : Tree	Stem : Stem
Acerrubrum																
A. saccharum																
Carya cord.	20	27	543	39	96	42.9	60	154.3	1327	19	16.9	6	41.9	360.3	20.1	Ave. Dist. Btw'n Trees
C. ovata																13.8 ^{SAP} 12.1
Celtis occiden.																
Fagus grand.																
Fraxinus amer.																Ave. BA (Total PA ÷ 80)
F. lanceolata																
F. pennsylvani																THICK STEM 56.9 48.2
Juglans cinere																No. Trees Per acre
J. nigra	6	9	803	4	4	4.4	2.5	10.3	64.9	5.7	5.6	8.8	20.1	126.6	89.2	80.3 228.7 ^{SAP} 297.5
Ostrya virgin.																
Populus grand.	6	7	192	5	6	5.5	3.7	13.8	59.3	5.7	4.4	2.1	12.2	52.5	27.4	Dom. per acre
P. tremuloides																
Prunus serotin	6	6	200	9	9	9.9	5.6	23.2	83.5	5.7	3.7	2.2	11.6	41.8	33.3	28.6 13,013
Quercus alba	15	25	2896	3	3	3.3	1.9	7.8	28.1	14.3	15.6	31.8	61.7	222.1	115.8	99.9
Q. ellipsoidalis																
Q. macrocarpa	3	3	148							2.9	1.9	1.6	6.4	6.4	49.3	
Q. rubra	11	12	530	11	11	12.1	6.9	28.5	159.6	10.5	7.5	6	24	134.4	45.8	22.9
Q. velutina	3	3	152	1	1	1.1	.6	2.5	6.3	2.9	1.9	1.7	6.5	16.2	10.7	25.3
Tilia american																
Ulmus american	1	1	120							1	.6	1.3	2.9	13.3	120	
U. rubra	33	66	3496	19	30	20.9	18.7	59.4	487.1	31.4	41.2	38.4	111	910.2	53	47.2
Robinia ps-ac.	1	1	12							1	.6	.1	1.7	1.7	12	
	105	160	9112	91	160	100.1	99.9	299.8	2215.8	100.1	99.9	100	300	1885.5		

1.18 stems/tree

+ 330.3

	12-22	23-33	34-44	45-55	56-66	67-77	78-88	89-99	100-124	125-149	150-174	175-199	200-249	250-299
Carya cord	17	10												
Jug. nigra	6				1									
Pop. grand.	3	1	1	2										
Pr. serot.	5			1		1								
Q. alba	2	1	3	5	1		1	2	3	5	3	1	2	
Q. mac		1		1		1								
Q. rub.	16	6		1		1								
Q. velut.	2	3	1											
Ulm. AMER.									1					
Ulm. rubra	20	12	9	13	4	3	2	3	5	2	1	2		
Rob. ps-Ac.	1													
Don. per	72	34	14	23	6	6	3	5	9	7	5	1	3	1
SCOT														
				163							26			
				86.2%							13.8%			
STEMS	1	2	3	4	single	mult.	tree	stem	% mult.	stem/tree				
Q. alba	22	2	1		22	3	25	29	12	1.16				
Q. mac	3				3	0	3	3	0	1				
Q. rubra	5	3	3	1	5	7	12	24	58.3	2				
Q. velut.	1	1	1		1	2	3	6	66.7	2				
					31	12	43	162	27.9	1.44				

CI = 1885

14.4%

	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		
1534	1																		
Pop. trem.																			
Quercus ellip.																			
Q. macrocarp.			1			1	1											4	3
Q. velut.	2	1	1	2③														4	3③ 4
Robinia ps-ac.		1																1	1
Prun. serot.	17	9	3	1	10		1											9	6① 1
Querc. alba	6	3	1	2	5	3	1	1		3	3①	3①	2③	1				36	25④ 6
Pop. grand.	11	6	3	1	1	2												10	7
Carya ovata																			
Querc. rubra	20	11	5④	5⑦	10		1											17	12①② 18
Juglans nig.	7	4	5	1		1						1			10①			13	9① 1
Frax. amer.																			
Acer rubrum																			
Tilia amer.																			
Jug. cinerea																			
Ulmus amer.										1								1	1
Celtis occ.																			
Ulm. rubra	56	30	13①	9②	9⑦	12②	6①	4	5	2	4①	2						95	66⑧ 11
Carya cord.	178	96	13	12	2													39	27
Ostrya virg.																			
Acer sacc.																			
	160																		160②⑨
Sap CI =	2216																		41
Av dist	13.8																		
Av BA	48.2	56.9																	
Trees/acre	228.7																		
Dom/acre	13,013																		
#/acre	297	130.1			57.2				22.9		15.7		2.9						229

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Actaea pachypoda
Adiantum pedatum
Agrimonia grypsosepala 9
Allium tricoccum
Amphicarpa braceata 10
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 189
A. shortii 410
Athyrum filix-femina
Botrychium virginianum 1710
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 134578910
Caulophyllum thalictroides
Celastrus scandens 1258910
Circaea quadrisulcata 12456910
Claytonia virginiana
Cornus alternifolia
C. femina 4510
C. rugosa
Corylus americana 235910
Cryptotaenia canadensis 5610
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 6910
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa 5
Fragaria virginiana 5
Galium aparine 2
G. circaeazans
G. concinnum 14578910
G. lanceolatum
G. triflorum
Geranium maculatum 3678
Gerardia grandiflora
Geum canadense 27910
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 178910
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 2569
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 234568
O. longistylis 3
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 2456789
Phlox divaricata
Phryma leptostachya 5678910
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum 68
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis 7
Rhus radicans 3
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis 35
R. occidentalis 4710
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa 234679
S. stellata
Smilax ecirrhata 3
S. herbacea
S. tamnoides
Solidago altissima 13589
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 29
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

- Carya cord 1210
- Prunus serot 15910
- Ulmus fulva 1567910
- Conoclinium
- Poa comp 6
- Quercus alba 9
- Crataegus 10
- Robinia pseudo-acacia 10

Actaea pachypoda
 ✓ Adiantum pedatum
 ✓ Agrimonia gryposepala 5
 Amelanchier spp.
 ✓ Amphicarpa bracteata 20
 Anemonella thalictroides
 ✓ Apocynum androsaemifolium
 Aralia nudicaulis
 A. racemosa
 Arenaria lateriflora
 ✓ Arisaema atrorubens 5
 Aster macrophyllus
 ✓ A. sagittifolius 20
 ✓ A. shortii 30
 Athyrium filix-femina
 ✓ Botrychium virginianum 30
 Brachyelytrum erectum
 Carex albursina
 ✓ C. convoluta 40
 ✓ C. pensylvanica 85
 Caulophyllum thalictroides
 ✓ Celastrus scandens 50
 ✓ Circaea quadrisulcata 65
 Cornus alternifolia
 ✓ C. femina 25
 C. rugosa
 ✓ Corylus americana 30
 ✓ Cryptotaenia canadensis 40
 Desmodium glutinosum 30
 D. nudiflorum
 ✓ Dioscorea villosa 5
 Eupatorium purpureum
 E. rugosum
 ✓ Festuca obtusa 5
 ✓ Fragaria virginiana 5

Additional species:

- Cirsium
 - Ambrosia trifida
 - Erigeron pulchellus
 - Convolvulus 5
 - Botrychium multif 5

✓ Galium aparine 5
 G. circaezans
 ✓ G. concinnum 60
 G. lanceolatum
 G. triflorum
 ✓ Geranium maculatum 35
 ✓ Geum canadense 35
 Hackelia virginiana
 ✓ Helianthus strumosus 50
 Hepatica acutiloba
 Hydrophyllum virginianum
 ✓ Hystrix patula 40
 Impatiens biflora
 ✓ Lactuca biennis 40
 Laportea canadensis
 Lathyrus ochroleucus
 ✓ Lonicera prolifera
 Lysimachia quadrifolia
 Monarda fistulosa
 ✓ Osmorhiza claytoni 80
 ✓ O. longistylis 5
 Oxalis violacea
 ✓ Panicum latifolium 15
 Parietaria pensylvanica
 ✓ Parthenocissus vitacea 60
 Phlox divaricata
 ✓ Phryma leptostachya 50
 ✓ Podophyllum peltatum
 Polemonium reptans
 ✓ Polygonatum canaliculatum 60
 P. pubescens
 Polygonum virginianum
 Potentilla simplex
 Prenanthes alba
 ✓ Prunus virginiana 10

- Scrophularia marilandica
 - Poa compressa 15

Pteridium aquilinum
 Pyrrola elliptica
 ✓ Ranunculus abortivus 10
 ✓ R. recurvatus
 ✓ R. septentrionalis 20
 ✓ Rhus radicans 5
 ✓ R. cynosbati
 R. missouriense
 Rosa sp.
 ✓ Rubus allegheniensis 10
 ✓ R. occidentalis 20
 ✓ R. strigosus 5
 Sambucus canadensis
 ✓ Sanguinaria canadensis
 ✓ Sanicula gregaria
 S. marilandica
 ✓ Smilacina racemosa 50
 S. stellata
 ✓ Smilax ecirrhata 5
 ✓ S. herbacea 15
 ✓ Solidago canadensis 35
 ✓ S. flexicaulis 15
 ✓ S. ulmifolia
 Thalictrum dioicum
 ✓ Triosteum perfoliatum 5
 ✓ Uvularia grandiflora 15
 Veronicastrum virginicum
 Viburnum acerifolium
 ✓ V. lentago 5
 ✓ V. rafinesquianum
 ✓ Viola cucullata 10
 V. pubescens
 Vitris aestivalis
 ✓ V. riparia 5
 ✓ Zanthoxylum americanum

- Crataegus 10
 - Carya cord 50
 - Prunus serot 30
 - Q alba 10
 - Q rubra 5
 - Robinia 15
 - Ulmus Rubra 65

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 30
Quadrat No.

Page 2

Actaea pachypoda
Adiantum pedatum
Agrimonia grypsosepala
Allium tricoccum
Amphicarpa braceata 679
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 3
A. shortii 34610
Athyrum filix-femina
Botrychium virginianum 239
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 1234567810
Caulophyllum thalictroides
Celastrus scandens 26710
Circaea quadrisulcata 1458910
Claytonia virginiana
Cornus alternifolia
C. femina 210
C. rugosa
Corylus americana 6
Cryptotaenia canadensis 356810
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 357
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeazans
G. concinnum 35679
G. lanceolatum
G. triflorum
Geranium maculatum 5610
Gerardia grandiflora
Geum canadense 789
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 123710
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula 135678910
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 3469
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 12345678910
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium 267
Parietaria pennsylvanica
Parthenocissus inserta 246810
Phlox divaricata
Phryma leptostachya 47810
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus 49
R. recurvatus
R. septentrionalis 2510
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis 3
R. strigosus 2
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa 1289
S. stellata
Smilax ecirrhata
S. herbacea 136
S. tamnoides
Solidago altissima 510
S. flexicaulis 127
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum 5
Uvularia grandiflora 489
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia 9
Xanthoxylum americ.
Zizia aurea

Additional species:

- Crataegus 1
- Querc. alba 1
- Carya cord 1356789
- Prunus serot 25
- Ulmus fulva 12457810
- Robinia 29
- Poa conf 59
- Prunus virgin 9

Presence List
(Uncommon species)

SOUTHERN UPLAND HARDWOODS

Stand No. 30

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. 7
Bromus purgans
Camptosorus rhizop.
Carex convoluta 17 9 13 14 15 18
Ceanothus americ. 20
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 7
Dirca palustris
Elymus villosus
Epifagus virgin.

Erigeron philadel.
Erythronium americ.
Evonymus atropur.
Floerkea prosperp.
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 6
V. trilobum
Vicia americana
Viola conspersa
V. incognita
Wulfenia bullii

Additional Species:

Temp Soil 18
Air 21.5

1534

CI = 1885

Sap - 2216 + 1

H - 314 S

