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Data Form No. 20 | Plant Ecology Research | Univ. of Wisconsin

STAND RECORD | FORESTS | Stand No. 1P04

Name:
Locality:
County: Green
T: 3N R: 7E Sec: 15
Date:
Observers:
Size of Stand:
Size of Area Sampled:
Forest Type:
Soil Type:
Topography:
Slope:
Directions:

Condition of Stand:

Open Grown Trees:
% Canopy:
Stumps:

1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

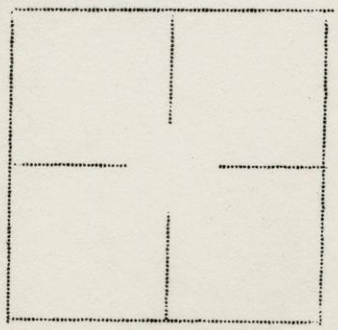
Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A_0									
A_1									
A_2									
B									

	DEPTH	CHARACTERISTICS (Color, Texture, Structure, etc.)
A_0		
A_1		
A_2		
B		

Parent Material:

Map:



6 sp.

21

Stand 1804

Tree	No. Pts.	No. Tr.	Dom.	No. Pts. Sap.	No. Sap.	F.% Sap.	D.% Sap.	Seed	F.% Seed	F.% Tr.	D.% Tr.	Dom.% Trees	I.I.	C.I.			
Acerrubrum																	
A. saccharum																	
Carya cord.	2	2	49	9	11	13	14			4	2	0.42	6.4	55			
C. ovata																	
Celtis occiden.				11	16	17	17										
Fagus grand.																	
Fraxinus amer.																	
F. lanceolata																	
F. pennsylvani																	
Juglans cinere																	
J. nigra	4	6	990	3	5	4	6			9	7	8.	24	151.2			
Ostrya virgin.																	
Populus grand.																	
P. tremuloides																	
Prunus serotin																	
Quercus alba	8	13	950	6	9	9	11			18	16	8	42	151.2			
Q. ellipsoidalis																	
Q. macrocarpa																	
Q. rubra	16	40	7960							35	50	68	153	856.8			
Q. velutina																	
Tilia american	9	12	1125	11	19	17	23			20	15	10	45	328.5			
Ulmus american																	
U. rubra fulva	6	7	578	13	20	20	25			13	9	5	27	221.4			
Crataegus sp				13	16	20	20										
	45	80	11649	66	80									1764.1			

Ave. Dist. Btw'n Trees
13.8
190.4

Ave. BA (Total BA ÷ 80)
145.6

No. Trees Per acre
228.8

Dom. per acre
33313.

Sap
26.2
686.4
63.5 sq/acre

Data Form No. 24 | Plant Ecology Research | Univ. of Wisconsin 1804 ~~1505~~

POINT RECORD TREES | SOUTHERN HARDWOODS | Stand No. ~~44~~

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	1	14	1	1				1	35 1	3
C. ovata										
Celtis occ										
Crataegus sp.	1	1	2	1		2	1	2	2	1
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra						170	180 140 110 1	110	280	
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot										
Quercus alba	120 1	1		2	3	40		60 35	45 45	210 180 45 35
Q. ellipsoid										
Q. macrocarpa										
Q. rubra		280 75	210 120 240 180	210 240 320 85	340 220	35	310			
Q. velutina										
Tilia amer	140 100 45 1	280 2								
Ulmus amer										
Ulmus fulva			1		140 240 1	20 3	2	75 1	1	
	14,16 22,29	26,30 35,24	10,12 22,14	5,35 10,43	18,24 32,40	15,8 20,50	40,25 38,49	19,14 22,60	21,22 25,50	20,35 42,10
Distance	31,8 12,18	26,17 22,8	14,10 12,20	10,14 16,20	5,7 30,18	19,13 8,22	26,12 25,17	12,13 5,17	12,14 7,17	17,5 18,13

Grazing Indicator Species

Stand No. 1804
Index No.

10	D	GV	-10	D	GV
Caulophyllum thalictroides			Ambrosia artemis.	2.1	21
Cornus femina			Arctium minus	1.0	10
Cornus rugosa			Bidens sp.	1.5	15
Impatiens pallida			Cirsium arvense	2.1	21
Polygonatum caniculatum			Oxalis erecta	1.9	19
Vitis aestivalis			Picea pumila	3.2	32
Vitis riparia			Plantago sp.	4.5	45
Prunus serotina			Poa. pratense	10.5	105
9			Prenanthes alba		
Uvularia grandiflora			Taraxacum off.	8.3	83
Rubus allegheniensis			-9		
~~Desmodium glutinosum~~			Cryptotaenia canadensis	4.8	43.2
8			Ranunculus abortivus	4.5	40.5
Osmorhiza claytoni	1.5	12.	Agrimonia grypsosepala	.3	2.7
7			-8		
Rubus occidentalis			Eupatorium rugosum	2.6	20.8
6			Lactuca biennis	.3	2.4
Geranium maculatum	1.1	6.6	-7		
Celastrum scandens			Amphicarpa bracteata	6.3	44.1
Eupatorium purpureum			Mulenbergia schreberi	.3	2.1
~~Festuca obtusa.~~			Solidago ulmifolia	5.1	35.7
5			-6		
Discorea villosa	.1	.5	Galium triflorum	.8	4.8
Parthenocissus inserta	1.0	5	Viola cucullata		
4			~~Parietaria pennsylvanica~~		
Botrychium virginianum					

Total 24.1

Total -547.3

Index
UG - G
24.1 - 547.3 = -523.2

$\frac{UG}{G}$ $\frac{24.1}{547.3}$ = .04

$\frac{\text{Difference}}{\text{Total units}} \times 100$

$\frac{-523.2}{571.4}$ = -91%

STAND NO. 16 SPECIES LIST FOR GRAZED STANDS DATE ~~1505~~ 1804

Acalypa virginica
Adiantum pedatum
Agrostis alba
Ambrosia artemisiifolia 3 4 5 9,10,12
Aralia racemosa
Aspidium spinulosum
Aster sagittifoluis 2 4 7 8,13
Bidens discoides 3 4,14,16,18,19,20
Bidens frondosa
Brachyelytrum erectum
Carex albursina
Carex rosea 3 6 8 9,10,13,14,15,16,18,20
Cardamine pennsylvanica
Circaea intermedia 1 2 7,14,15
Circaea latifolia
Corylus americana
Dryopteris spinulosa
Epifogus virginiana
Epilobium glandulosom
Erigeron philadelphicus 3 5 9
Eupatorium rugosum 3 6 7 8 9,10,14,19
Fragaria virginiana 16
Galium concinnum 11,12,13,16,19
Galium triflorum
Gaultheria procumbems
Geranium maculatum 1 5 8 9
Geum canadense 2 4 7 9,10,12,13,14,15,16,17,18
Hackelia ~~virginiana~~ 19
Helianthus tracheliifolius
Hepatica acutiloba
Hieracium aurantiacum
Juncus tenuis
Lapobtea canadensis
Lobelia inflata
Maeanthemum canadense
Mitchella repens
Monotropa uniflora
Nepeta cataria
Osmorhiza Claytoni 6,16,18,19
Osmorhiza longistylis
Osmunda claytoniana
Oxalis acetosella
Oxalis stricta 3 5 6 9,10,16,17
Parietaria pennsylvanica 2 3 8,17,18
Parthenocissus vitacea 1
Phleum pratense
Phytolacca decandra
Pilea pumila 3 4,14,15,16,17,19,20
Plantago sp. 3 4 5 9,10,13,14,15,16,17,18,20
Poa spp. 1 2 3 4 5 6 7 8 9,10,11,12,13,14,15,16,17,18
Podophyllum peltatum 19,20
Polygonum convolvus 12
Polygonum hydropiper 4,13,17
Polygonum persicaris
Potentilla canadensis
Potentilla ~~reota~~ anglica 13

Prunella vulgaris
Rubus allegheniensis
Rubus hispidus
Rubus occidentalis
Rumax acetosella
Rumex obstusifolius
Ranunculus ~~acris~~ abortivus 1 2 3 4 8,10,11,13,16,18,19
Sanguinaria canadensis 9,13,14
Sanicula gregaria 6 7 8 9,13,15
Smilax ecirrhata
Stellaria media
Taraxacum officinale 2 3 5 6 7 8 9,10,11,12,13,14,15,16,17
~~Trientalis~~ americana 18
Trifolium hybridum 3,13
Trifolium pratense
Trillium grandiflorum
Tycop odium lucidulum
Urtica gracilis
Uvularia grandiflora
Veronica officinalis
Viburnum acerifolium
Viola papilionacea
cucullata 1,12,14,17

Impatiens pallida
Onoclea sensibilis
Sambucus canadensis
Sambucus racemosa
Vaccinium pennsylvanicum
Sol. ulmifolia 1 2 4 6 8 9,10,11,12,13,14,17,18,19,20
Cryptotaenia canaden 1 2 3 4,11,14,15,16,17
Amphicarpa bract 2 3 4 5 7 8 9,11,12,13,15,18
Phryma lept. 2 3 4 6 7 8,11,14,16
Burdock 2,14,20
aster sloriki 3 5 9,10,11,12,14,15,16
Monarda clad med 3,12
A 3 Scrophularia marilandica
Ribes cynosbati 4 8,12,13,19
Circium arvense 4 2 9,10,12,14,15,18,19
Ulmus tul. 1 3 6 7 8
Discorea 6
Iteria 6
Antennaria plantaginifolia 9,18
" neglecta 9,10,14,16,17
Anemonella thalictroides 10
Aquilegia 10
Amelanchier lobelina 11
Arabis canadensis
B 12
Sactica 12
Agrimonia gryposepala 14

STAND NO. 166 SPECIES LIST FOR GRAZED STANDS DATE ~~1806~~ 1804

Acalypa virginica
Adiantum pedatum
Agrostis alba
Ambrosia artemisiifolia 9,10,12,13,15,16
Aralia racemosa
Aspidium spinulosum
Aster sagittifoluis 4,9
Bidens discoides 25
Bidens frondosa
Brachyelytrum erectum
Carex albursina
Carex rosea 1 2 3 5 7 8 9,10,13,14,15,17
Cardamine pennsylvanica
Circaea intermedia 4,14,17
Circaea latifolia
Corylus americana
Dryopteris spinulosa
Epifogus virginiana
Epilobium glandulosom
Erigeron philadelphicus 7,10,14
Eupatorium rugosum 7 8 9,13,17,20
Fragaria virginiana
Galium concinnum 3 4 6 8,17
Galium triflorum 6,12,16,17,18
Gaultheria procumbems
Geranium maculatum 7,8,20
Geum canadense 3 6,11,20
Hackelia virginiana 14
Helianthus trachelifolius
Hepatica acutiloba
Hieracium aurantiacum
Juncus tenuis
Lapobtea canadensis
Lobelia inflata
Maeanthemum canadense
Mitchella repens
Monotropa uniflora
Nepeta cataria
Osmorhiza Claytoni 2 3 6,12,15
Osmorhiza longistylis
Osmunda claytoniana
Oxalis acetosella
Oxalis stricta 3 5,15,16
Parietaria pennsylvanica 2
Parthenocissus vitacea 2,11,16,18,20
Phleum pratense
Phytolacca decandra
Pilea pumila 2 3,12,13,14,15,16,17,18,
Plantago sp. 3 4 7 8,12,13,14,15,20
Poa spp. 2 3 4 5 7 8 9,10,11,12,13,14,15,16,20
Podophyllum peltatum
Polygonum convolvus
Polygonum hydropiper 2
Polygonum persicaris 14,?
Potentilla canadensis
Potentilla recta

Prunella vulgaris 20
Rubus allegheniensis
Rubus hispidus
Rubus occidentalis
Rumex acetosella
Rumex obstusifolius
Ranunculus ~~ensis~~ abortivus 4 6 7 8,12,14,15,17,18,20
Sanguinaria canadensis 14 6,18,20
Sanicula gregaria 4,8,12,13,14
Smilax ecirrhata
Stellaria media
Taraxacum officinale 1 3 5,6 7 8 9,10,11,12,14,15,16,20
Trientalis americana
Trifolium hybridum 7 8
Trifolium pratense
Trillium grandiflorum
Tycop odium lucidulum
Urtica gracilis
Uvularia grandiflora
Veronica officinalis
Viburnum acerifolium
Viola papilionacea
cuculata 1 3 4 7 9,18,20

Impatiens pallida
Onoclea sensibilis
Sambucus canadensis
Sambucus racemosa
Vaccinium pennsylvanicum

Smilacina racem. 1
Actea pach 1
Sol. unifolia 2, 6 8,9,10,14,18,20
Cryptotaenia 2 3,6,7,8,11,12,13,14,15,16,17,18
Aster chotii 2 7,8 9,10,12,20
Antennaria neglecta 2 5 6,10,12,14,15
Amphicarpa bracteata 2 3 7 8 9,10,11,12,13,15,16,17,18,20
Anemone quinq 3 5,12,16
Phryma 3 6,12,14,20
Burdock 3 7,11
Circaea arvena 4,14,17
Mulenbergia sobolifera 4,11
Check weed 7 9,10,12,13,14,15
Lactuca 8
agrimonia gryposepal 10
Fenorus 12
Ground cherry 12,18
Sol. carolini
C-13 Polygonum hydro piper
Aster sp. 14
~~D-14 Hackellia virginiana~~ Ribes 19

Check w Ford
Proper

Grazing Indicators
Presence

1804

Extreme +2 Decreasers

Carya ovata
Quercus alba
Aralia nudicau.
A. racemosa
Caulophylum thal.
Hystrix patula
Sanicula mariland.
Vitis astevalis

Moderate +1 Decreasers 3

Acer saccharum
Prunus serotina
P. virginiana
Quercus rubra
Tilia americania
Actaea Sp. ✓
Adiantum pedatum
Anthrium angusti.
Campanula americana
Celastrus scandens
Cornus femina
C. rugosa
Corylus americama
Desmodium glutinosum
Dioscorea villosa ✓
Eupatorium purpur.
E. rugosum ✓
Polygonatum canic.
Rhus radicans
Rubus alleghen.
R. occidentalis
Smilax hebacea
Triosteum perfol.
Uvularia grandiflorum
Vitis riparia

Invaders -2 13 = 26

Fraxinus americana
Ambrosia artemisifolia ✓
Antenaria sp. ✓
Aquilegia canadense ✓
Arctium minus ✓
Aster lateriflorus ✓
Bidens sp. ✓
Cerastium vulgatum ✓
Cirsium arvense ✓
Erigeron philadel. ✓
Lithospermum latiflorum
Monarda fistulosa
Oxalis stricta ✓
Panicum lebergi
Pilea pumila ✓
Plantago sp. ✓
Poa compressa
Smilax hispida
Taraxacum off. ✓
Tovara virginiana

Increasers -1 12

Ulmus fulva ✓
Agrimonia gryposep. ✓
Botrychium virginiana ✓
Cryptotania canadensis ✓
Galium aparine
G. triflorum ✓
Lactuca biennis ✓
Hemispermum can.
Muhlenbergia schreberi ✓
Parietaria penn. ✓
Poa pratense ✓
Ranunculus abortivus ✓
Sanicula gregaria ✓
Smilacina racemosa ✓
Solidago ulmifolia ✓

Sum of Indicators

3 - 38

$\frac{U-G}{\text{Tot units}}$ $\frac{3-38}{41} = \frac{-35}{41} = .85$

CI 1764 1804

Data Form No. II | Plant Ecology Research | Univ. of Wisconsin

TABULATION FORM | SOUTHERN HARDWOODS | Stand No. ~~1505~~

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
TREES:								% F															
Acer negundo																							
A. rubrum																							
A. saccharinum																							
A. saccharum																							
Amelanchier sp.																							
Betula lutea																							
B. nigra																							
B. papyrifera																							
Carpinus carol.																							
Carya cordiform.																							
C. ovata																							
Celtis occident.																							
Crataegus sp.																							
Fagus grandif.																							
Fraxinus americ.																							
F. nigra																							
F. pennsylvanica																							
Gleditsia tria.																							
Gymnocladus dio.																							
Juglans cinerea																							
J. nigra																							
Ostrya virgin.																							
Platanus occid.																							
Populus deltoid.																							
P. grandident.																							
P. tremuloides																							
Prunus american.																							
P. nigra																							
P. pennsylvan.																							
P. serotina																							
P. virginiana																							
Quercus alba																							
Q. bicolor																							
Q. ellipsoid.																							
Q. macrocarpa																							
Q. rubra																							
Q. velutina																							
Robinia pseudo.																							
Salix nigra																							
Sorbus americana																							
Tilia americana																							
Ulmus americana																							
U. fulva		5		12.5		12.5		1.0															
U. thomasii																							
SHRUBS & HERBS:																							
Actaea sp. Pachipoda		1		2.5		2.5		.2															
Adiantum pedat.																							
Agastache scrophul.																							
Agrimonia gryp.		2		5		5		.4															
Aletris farin																							

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (Cont'd)																							
Allium canaden.																							
A. tricoccum																							
Amorpha canescens																							
Amphicarpa brac.		26		65		105		5.2															
A. b. v. comosa																							
Anaphalis marg.																							
Anemone cylindr.																							
A. quinquefolia		4		10		11		.8															
A. virginiana																							
Anemonella thal.		1		2.5		2.5		.2															
Antennaria ~~sp.~~ neglecta		12		30		35		2.4															
~~Aplectrum hiem.~~ pltcquitous		2		5		5		.4															
Apocynum andros.																							
Aquilegia cana.		1		2.5		2.5		.2															
Arabis canadens.		1		2.5		2.5		.2															
A. laevigata																							
A. lyrata																							
A. perstellata																							
Aralia hispida																							
Aralia nudicaul.																							
A. racemosa																							
Arenaria laterif.																							
Arisaema atror.																							
A. dracontium																							
Asarum canaden.																							
Asclepias ovalif.																							
A. phytolaccoides																							
Aster azureus																							
A. lateriflorus		1		2.5		2.5		.2															
A. macrophyllus																							
A. paniculatus																							
A. Prenanthoides																							
A. sagittifolius		7		17.5		19		1.4															
A. shortii		16		40		51		3.2															
Athyrium angust.																							
A. pycnocaroon																							
A. thelypter.																							
Aureolaria gran.																							
Besseya bullii																							
Boehmeria cylin.																							
Botrychium multif																							
v. intermedium																							
B. virginianum																							
Brachyelytrum er.																							
Bromus purgans																							
Campanula americ.																							
Camptosorus rhizop.																							
Carex albursina																							
C. convoluta																							
C. pennsylvan.		23		57.5		85		4.6															
Castilleja coccin.																							

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (cont'd)																							
Caulophyllum thal.																							
Ceanothus americ.																							
Celastrus scand.																							
Chimaphila umbel.																							
Circaea alpina																							
Circaea latifolia		8		20		22		1.6															
Cirsium altissim.		12		30		35		2.4															
Claytonia virg.																							
Clematis virgin.																							
Clintonia boreal.																							
Comandra umbell.																							
Conopholis amer.																							
Corallorrhiza mac.																							
C. odontorrhiza																							
Cornus alternif.																							
C. canadensis																							
C. femina																							
C. rugosa																							
Corydalis semper.																							
Corylus americana																							
Cryptotaenia can.		22		55		80		4.4															
Cynoglossum virg.																							
Cypripedium pub.																							
Cystopteris bulb.																							
C. fragilis																							
Dentaria lacin.																							
Desmodium acumin.																							
D. bracteosum																							
D. canadense																							
D. nudiflorum																							
Dicentra canad.																							
D. cucullaria																							
Diervilla lonic.																							
Dioscorea villosa		1		2.5		2.5		.2															
Dirca palustris																							
Dodecatheon mead.																							
Dryopteris Goldiana																							
D. spinulosa																							
D. thelypteris																							
Ellisia nyctelea																							
Elymus villosa																							
Epifagus virgin.																							
Erigeron philadel.		6		15		16		1.2															
E. pulchellus																							
Erythronium alb.																							
E. americanum																							
Eupatorium pur.																							
E. rugosum		14		35		43		2.8															
Euphorbia corollata																							
Evonymus atrop.																							
Festuca obtusa																							

Hardwood Survey (Cont'd)

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (Cont'd)																							
Floerkea proserp.																							
Fragaria vesca																							
F. v. var. amer.																							
F. virginiana		1		2.5		2.5		.2															
Galium aparine																							
G. boreale																							
G. circaezans																							
G. concinnum		10		25		29		2.0															
G. lanceolatum																							
G. triflorum		5		12.5		13.5		1.0															
Gaultheria proc.																							
Gaylussacia bacc.																							
Gentiana quinq.																							
Geranium maculat.		7		17.5		19		1.4															
Geum canadense		16		40		51		3.2															
G. virginianum																							
Goodyera pubesc.																							
Habenaria bract.																							
H. hyperborea																							
H. hookeri																							
Hamamelis virg.																							
Hedeoma hispida																							
Helianthemum canadense																							
Helianthus strum.																							
Hepatica acutil.																							
H. americana																							
Heracleum lanatum																							
Heuchera richard																							
Hieracium canad.																							
H. scabrum																							
Hydrastis canad.																							
Hydrophyllum appendiculatum																							
H. vir.																							
Hypoxis hirsuta																							
Hystrix patula																							
Ilex verticillata																							
Impatiens biflor																							
I. pallida																							
Isopyrum bitern.																							
Jeffersonia diphylla																							
Juncus tenuis																							
Juniperus communis																							
J. virginiana																							
Krigia biflora																							
Lactuca spicata		2		5		5		.4															
Laportea canad.																							
Lappula virgin.																							
Lathyrus ochroleucus																							
L. venosus																							
Lilium philadel.																							
Liparis liliif.																							

~~1905~~ 1804

Hardwood Survey (cont'd)

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (cont'd																							
Lithospermum latifolium																							
Lobelia cardin.																							
L. spicata																							
Lonicera canadense																							
L. dioica																							
L. hirsuta																							
L. prolifera																							
Luzula acuminata																							
L. multiflora																							
Lycopodium lucidulum																							
L. obscurum																							
Lysimachia quadrifolia																							
Maianthemum can.																							
Menispermum can.																							
Milium effusum																							
Mitchella repens																							
Mitella diphylla																							
Monarda fistul.																							
Monotropa uniflora																							
Morus rubra																							
Muhlenbergia ~~frondosa~~ schreberi		2		5		5		.4															
Oenothera biennis																							
Onoclea sensib.																							
Orchis spectab																							
Oryzopsis asper.																							
O. racemosa																							
Osmorhiza clayt.		9		22.5		25.5		1.8															
O. longistylis																							
Osmunda cinnam.																							
O. claytoniana																							
Oxalis ~~violacea~~ crenata		11		22.5		32		2.2															
Panax quinquef.																							
P. trifolium																							
Panicum latifol.																							
Parietaria penn.		6		15		16		1.2															
Paronychia cana.																							
Parthenocissus vitacea		6		15		16		1.2															
Pedicularis can.																							
Phlox divaricata																							
Phryma leptost.		14		35		43		2.8															
Physocarpus opul.																							
Phytolacca dec.																							
Pilea pumila		17		42.5		53		3.4															
Poa ~~palustris~~ pratense		33		82.5		174		6.6															
Podophyllum pel.		2		5		5		.4															
Polemonium rep.																							
Polygonatum com.																							
P. pubescens																							
Polygonum ~~virg.~~ convolvus		1		2.5		2.5		.2															
~~Polymnia canaden.~~ hydropiper		6		15		16		1.2															
Polypodium virgin.																							

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (Cont'd)																							
Potentilla simpl.		3		7.5		7.5		.6															
Prenanthes alba																							
Prunella vulgaris		1		2.5		2.5		.2															
Pteridium aquil.																							
Pteretis nodulosa																							
Pyrola elliptica																							
Pyrus coronaria																							
P. ioensis																							
Ranunculus abort.		21		52.5		74		4.2															
R. fascicularis																							
R. recurvatus																							
R. rhomboideus																							
R. septentrion.																							
Rhus glabra																							
R. radicans																							
R. typhina																							
Ribes americanum																							
R. cynosbati		6		15		16		1.2															
R. missouriense																							
Rosa sp.																							
Rubus alleghen.																							
R. hispidus																							
R. occidentalis																							
Rubus pubescens																							
R. strigosus																							
R. triflorus																							
Rudbeckia laciniata																							
Salix sp.																							
Sambucus canad.																							
S. pubens																							
Sanguinaria can.		8		20		22		1.6															
Sanicula gregar.		11		27.5		32		2.2															
S. marilandica																							
Saxifraga penns.																							
Scrophularia lan.																							
S. marilandica		1		2.5		2.5		.2															
Senecio balsam.																							
Silene stellata																							
Smilacina racem.		1		2.5		2.5		.2															
S. stellata																							
Smilax ecirrhata																							
S. herbacea																							
S. hispida																							
Solanum nigrum																							
Solidago latif.																							
S. ~~speciosa~~ caesia		1		2.5		2.5		.2															
S. ulmifolia		23		57.5		85		4.6															
Staphylea trif.																							
Steironema cili.																							
S. lanceolatum																							
Streptopus ros.																							

Hardwood Survey (Cont'd)

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (Cont'd)																							
Symplocarpus foetidus																							
Taenidia integ.																							
Taxus canadensis																							
Thalictrum dio.																							
Thaspium aureum																							
Tradescantia oh.																							
Trientalis borealis																							
Trillium cernuum																							
T. flexipes																							
T. grandiflorum																							
T. recurvatum																							
Triosteum perf.																							
Uvularia grandif.																							
U. sessilifolia																							
Vaccinium angustifolium																							
Vaccinium canad.																							
Verbena urticaefolia																							
Veronica serphyll.																							
Veronicastrum vir.																							
Viburnum acerifol.																							
V. affine																							
V. lentago																							
V. trilobum																							
Vicia americana																							
Viola conspera																							
Viola cucullata		11		27.5		32		2.2															
V. incognita																							
V. pubescens																							
Viola sagittata																							
Vitis aestivalis																							
V. a. var. argent.																							
V. riparia																							
Woodsia ilvensis																							
Zanthoxylum amer.																							
Zizia aurea																							
Additional sp.																							
Ambrosia artemis.		12		30		35		2.4															
Bidens sp		9		22.5		25.5		1.8															
Hackelia virginiana		2		5		5		.4															
Plantago sp		21		52.5		74		4.2															
Taraxacum off		30		75		139		6.0															
Trifolium hybridum		4		10		11		.8															
Arctium minus		6		15		16		1.2															
Cerastium vulgatum		9		22.5		25.5		1.8															
~~Bidens sp.~~		~~1~~		~~2.5~~		~~2.5~~																	
Physalis heterophylla		2		5		5		.4															
Setaria lutescens		1		2.5		2.5		.2															
Medicago lupulina		1		2.5		2.5		.2															
Leonurus cardiaca		1		2.5		2.5		.2															

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