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POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. ¹⁵⁰⁸ ~~116~~

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum						1	1			
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.						1				
Fagus grand										
Fraxinus am	160	1		20	70	30 120			120	
F. nigra										
Juglans cin.								18 35 380		
J. nigra				50		270				
Ostrya virg	20	1 85	2 18		1				1 35	2
Populus gran										
P. tremul										
Prunus serot										
Quercus alba										
Q. ellipsoid										
Q. macrocarpa										
Q. rubra	130	320			70					140
Q. velutina										
Tilia amer	60	1	1			120	1		2	1 110 1 30
Ulmus amer										
Ulmus fulva		2 30 70	20 23 35	4 45 30	3 85	2 17	2 20 25 27 95	2 40	3 18 85	2 50 2
	25,9 12,12	5,30 10,15	35,5 25,10	30,5 20,4	15,12 8,5	7,35 15,20	15,30 23,40	20,24 30,10	30,8 14,5	5,15 12,2
Distance	20,9 14,22	10,23 15,20	25,3 8,4	8,10 15,8	8,10 12,20	5,10 25,20	12,10 25,30	8,12 27,10	5,15 6,15	7,10 12,25

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. ~~1508~~ 1807

STATION NO.	1	2	3	4	5	6	7	8	9	10							
Acer rubrum																	
A. saccharum								75 25	1								
Betula papy.																	
Carpinus car																	
Carya cord																	
C. ovata																	
Celtis occ																	
Crataegus sp.					1												
Fagus grand																	
Fraxinus am	3	25 22			35	1	1	85 25	2	45 30 50							
F. nigra																	
Juglans cin.																	
J. nigra	45	60		65													
Ostrya virg						70	2			60							
Populus gran																	
P. tremul																	
Prunus serot				35													
Quercus alba																	
Q. ellipsoid																	
Q. macrocarpa																	
Q. rubra																	
Q. velutina																	
Tilia amer		15	4	40 80	4	90	3	100	2	70	1	15	2	120 70	2	95 25 70	3
Ulmus amer								420									
Ulmus fulva	35 40 30	1		90	35	1	30 120	50	95			1	740				
	18,25 19,12	15,20 25,18	3,10 25,15	11,15 25,14	10,25 25,15	5,19 30,15	5,25 3,15	15,20 8,15	5,20 8,15	10,10 20,15							
Distance	17,20 5,10	8,17 14,12	5,3 8,15	14,12 11,5	17,19 24,16	5,15 10,8	8,3, 5,7	10,15 4,8	12,5 10,20	24,5 14,4							

Grazing Indicator Species

Stand No. 1807
Index No.

	D	GV	-10		D	GV
10 <i>Caulophyllum thalictroides</i>				<i>Ambrosia artemis.</i>	.2	2
<i>Cornus femina</i>				<i>Arctium minus</i>		
<i>Cornus rugosa</i>				<i>Bidens sp.</i>		
<i>Impatiens pallida</i>				<i>Cirsium arvense</i>		
<i>Polygonatum caniculatum</i>				<i>Oxalis erecta</i>		
<i>Vitis aestivalis</i>				<i>Pilea pumila</i>		
<i>Vitis riparia</i>				<i>Plantago sp.</i>		
<i>Prunus serotina</i>				<i>Poa. pratense</i>	.2	2
9				<i>Prenanthes alba</i>		
<i>Uvularia grandiflora</i>	.7	6.3		<i>Taraxacum off.</i>	2.4	24
<i>Rubus allegheniensis</i>				-9		
8 <i>Aemodium glutinosum</i>				<i>Cryptotaenia canadensis</i>	2.4	21.6
<i>Osmorhiza claytoni</i>	.2	1.6		<i>Ranunculus abortivus</i>	3.0	27
7				<i>Agriomania grypsosepala</i>		
<i>Rubus occidentalis</i>	1.8	12.6		-8		
6				<i>Eupatorium rugosum</i>	2.4	19.2
<i>Geranium maculatum</i>	1.0	6		<i>Lactuca binnis</i>	.7	7
<i>Celastrum scandens</i>				-7		
<i>Eupatorium purpureum</i>	.4	2.4		<i>Amphicarpa bracteata</i>	6.8	47.6
5 <i>Festuca obtusa</i>	.4	2.4		<i>Mulenbergia schreberi</i>	.2	1.4
<i>Discorea villosa</i>				<i>Solidago ulmifolia</i>	.7	4.9
<i>Parthenocissus inserta</i>	15.0	75		-6		
4				<i>Galium triflorum</i>		
<i>Botrychium virginianum</i>	1.0	4		<i>Viola cucullata</i>	5.5	33.0
				<i>Parietaria pennsylvanica</i>		

Total 110.3

Total 189.7

Index
UG - G

$$110.3 - 189.7 = -79.4$$

$$\frac{UG}{G} = \frac{110.3}{189.7} = 0.58 = 58\%$$

Diffe
total units

$$\frac{79.4}{300} = -26\%$$

$$\frac{G}{T.V} = \frac{189.7}{300} = 63\%$$

1807
1500

STAND NO. 146

SPECIES LIST FOR GRAZED STANDS

DATE

Acalypha virginica		Prunella vulgaris	
Adiantum pedatum		²³ Rubus allegheniensis	4, 6, 12, 13, 14
Agrostis alba		Rubus hispidus	
Ambrosia artemisiifolia		Rubus occidentalis	
Aralia racemosa		Rumax acetosella	
Aspidium spinulosum		Rumex obtusifolius	
Aster sagittifolius		³ Ranunculus alis	2, 5, 6, 11, 16, 19
Bidens discoides		⁵ Sanguinaria canadensis	20
Bidens frondosa		⁴⁰ Sanicula gregaria	2, 10, 11, 14, 15, 16, 17, 18, 20
Brachyelytrum erectum		²⁰ Smilax ecirrhata	17, 18, 19
¹⁰ Carex albursina	3*	Stellaria media	
³⁵ Carex rosea	1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	⁵ Taraxacum officinale	15
Cardamine pennsylvanica	19	Trientalis americana	
Circaea intermedia		Trifolium hybridum	
²⁰ Circaea latifolia	2, 11, 15, 16	Trifolium pratense	
⁵ Corylus americana	5	Trillium grandiflorum	
Dryopteris spinulosa		Tycopodium lucidulum	
Epifogus virginiana		Urtica gracilis	
Epilobium glandulosum		⁵ Uvularia grandiflora	1
Erigeron philadelphicus		Veronica officinalis	
¹⁰ Eupatorium rugosum	3, 12	Viburnum acerifolium	
Fragaria virginiana		⁴⁵ Viola papilionacea	
²⁵ Galium concinnum	4, 6, 9, 11, 12	<i>cuscuta</i>	1, 2, 8, 10, 11, 13, 14, 15, 17
^x Galium triflorum		Impatiens pallida	
Gaultheria procumbens		Onoclea sensibilis	
¹⁰ Geranium maculatum	6, 7, 11	Sambucus canadensis	
²⁰ Geum canadense	7, 11, 15, 16, 20	Sambucus racemosa	
Hackelia virginiana		Vaccinium pennsylvanicum	
Helianthus trachelifolius		⁴⁰ Saxifraga	1, 2, 4, 5, 9, 15, 16, 19
Hepatica acutiloba		²⁰ Podagropatum	1, 13, 14, 20
⁵ Hieracium aurantiacum	11	¹⁰ Xyrorhylon	1, 9
Juncus tenuis		⁵⁵ Amphicarpa	26, 11, 13, 14, 15, 17, 18, 19, 20
Laportea canadensis		³⁵ Ononispermum	2, 3, 10, 12, 18, 19, 20
Lobelia inflata		⁵⁵ Aster	2, 3, 5, 7, 8, 14, 15, 16, 18, 19, 20
Maeanthemum canadense		²⁵ Forsteria	3, 11, 17, 19, 20
Mitchella repens		¹⁰ Ribes	3, 6, 7, 9
Monotropa uniflora		²⁰ B	3, 6, 7, 9
Nepeta cataria		⁵ Frag	5
Osmorhiza Claytoni		¹⁵ Green brier	5, 18, 19
¹⁰ Osmorhiza longistylis	8, 19	⁵ Amulenbergi	3
Osmunda claytoniana		¹⁰ Eupatorium	10, 12, 13, 14, 20
Oxalis acetosella		¹⁰ Elmus	6, 15
Oxalis stricta		¹⁰ Sol. utri	8, 10
Parietaria pennsylvanica		¹⁵ Buttrichium	5, 8, 12
¹⁵ Parthenocissus vitacea	1, 4, 5, 6, 7, 9, 10, 11, 12, 13	¹⁰ Lactuca	10, 11
Phleum pratense	15, 16, 17, 18, 19, 20	⁴⁵ Cryptolania	7, 8, 10, 11, 12, 13, 15, 16, 20
Phytolacca decandra		¹⁰ Festuca	obtus 15, 18
Pilea pumila		⁵ Phryma	16
Plantago sp.		⁵ Panicum	latergi 1
Poa spp.			
Podophyllum peltatum			
Polygonum convolvus			
Polygonum hydropiper			
Polygonum persicaris			
Potentilla canadensis			
Potentilla recta			

1807
~~1507~~

STAND NO. 14d

SPECIES LIST FOR GRAZED STANDS

DATE 9/18/56

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

- Prunella vulgaris
- Rubus allegheniensis 2,17
- Rubus hispidus
- Rubus occidentalis
- Rumex acetosella
- Rumex obtusifolius
- Ranunculus ~~scris~~ 1,7,10,11,14
- Sanguinaria canadensis
- Sanicula gregaria 7,12,13,14,19
- Smilax ecirrhata 13,16
- Stellaria media
- Taraxacum officinale 1,3,4,5,6,8,9,15
- Trientalis americana
- Trifolium hybridum
- Trifolium pratense
- Trillium grandiflorum
- Tyctopodium lucidulum
- Urtica gracilis
- Uvularia grandiflora 12,15
- Veronica officinalis
- Viburnum acerifolium
- Viola papilionacea
- ~~Cucullaria~~ 1,4,5,8,9,11,13,19,20
- ~~Pubescens~~ 14
- Impatiens pallida
- Onoclea sensibilis
- Sambucus canadensis
- Sambucus racemosa
- Vaccinium pennsylvanicum
- 4,16 Triosteum perfoliatum
- Polygonatum comatum 4,5,6,10,18
- Aster chartii 12,5,6,7,8,10,11,14,15
- Amphicarpus bracteatus 2,3,4,7,8,10,13,14,16,17
- Elm 2
- Ribes cynosbati 3,6
- Botrychium 4
- Greenbrier 4,15
- Smilax 5,6,8,9,11,12
- B, C, 8, 10
- Lithospermum? latiflorum
- Solidago ulifolia 7
- Burdock 7,11
- Lactuca 8
- Cornus femina 9
- Franx. americana 15,16
- Festuca obtusa 11,13,19
- Menispermum 13,18
- Phryma leptost. 15,19
- antra
- Xanthoxyla 18
- Acer sacchar 18,20

Grazing Indicators
Presence

1807

Extreme +2
Decreasers

Invaders -2 7214

Carya ovata
Quercus alba
Aralia nudicaul.
A. racemosa
Caulophyllum thal.
Hystrix patula
Sanicula mariland.
Vitis astevalis

Fraxinus americana ✓
Ambrosia artemisifolia ✓
Antennaria 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 ✓

Moderate +1 10
Decreasers

Increasers -1 10

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

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

Sum of indicators

10

24

$$\frac{U-G}{\text{Tot units}} = \frac{10-24}{34} = \frac{-14}{34} = .41$$

1807
~~1508~~

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)																					
<i>Symplocarpus foetidus</i>																					
<i>Taenidia integ.</i>																					
<i>Taxus canadensis</i>																					
<i>Thalictrum dio.</i>																					
<i>Thaspium aureum</i>																					
<i>Tradescantia oh.</i>																					
<i>Trientalis borealis</i>																					
<i>Trillium cernuum</i>																					
<i>T. flexipes</i>																					
<i>T. grandiflorum</i>																					
<i>T. recurvatum</i>																					
<i>Triosteum perf.</i>																					
	2		5		5			.6													
<i>Uvularia grandif.</i>																					
	3		7.5		7.5			.9													
<i>U. sessilifolia</i>																					
<i>Vaccinium angustifolium</i>																					
<i>Vaccinium canad.</i>																					
<i>Verbena urticaefolia</i>																					
<i>Veronica serpyll.</i>																					
<i>Veronicastrum vir.</i>																					
<i>Viburnum acerifol.</i>																					
<i>V. affine</i>																					
<i>V. lentago</i>																					
<i>V. trilobum</i>																					
<i>Vicia americana</i>																					
<i>Viola conspersa</i>																					
<i>Viola cucullata</i>																					
	18		45		60			5.5			45										
<i>V. incognita</i>																					
<i>V. pubescens</i>																					
	1		2.5		2.5			.3													
<i>Viola sagittata</i>																					
<i>Vitis aestivalis</i>																					
<i>V. a. var. argent.</i>																					
<i>V. riparia</i>																					
<i>Woodsia ilvensis</i>																					
<i>Xanthoxylum amer.</i>																					
	3		7.5		7.5			.9			10										
<i>Zizia aurea</i>																					
Additional sp.																					
<i>Ambrosia artemisia</i>																					
	1		2.5		2.5			.3													
<i>Traxacum off.</i>																					
	9		22.5		25.5			2.7			5										
<i>Toxera virginiana</i>																					
	5		12.5		13.5			1.5			25										