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9 Apr

67 say/acre

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. ~~4507~~ 126

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord		1	2		1	1				
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am	85	40	320 130	1		1		220	130	1
F. nigra										
Juglans cin.										
J. nigra				80	170 35	15				95
Ostrya virg							35 20	22	1	
Populus gran										
P. tremul										
Prunus serot										
Quercus alba			80	120 120		45	85			
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina										
Tilia amer	45 110 270	4 85 95	2 45	2	3	60	2 95 70	1 140	3 70	95 65
Ulmus amer										
Ulmus fulva		70	1	45	310	1		3 210 40	12 85	3 45
	35,22 8,50	10,25 40,25	15,20 38,15	5,25 30,12	60,30 45,70	15,8 24,28	15,15 5,10	30 30,25 5	5,45 30,25	35,20 45,30
Distance	13,21 8,5	10,19 8,23	3,16 20,25	7,8 9,14	15,8 21,17	8,3 22,15	8,20 18,19	10,10 5,24	3,12 8,14	12,15 7,10

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 192

STATION NO.	1	2	3	4	5	6	7	8	9	10						
Acer rubrum																
A. saccharum																
Betula papy.																
Carpinus car																
Carya cord			2		1		2	25		1						
C. ovata																
Celtis occ																
Crataegus sp.			1	2	2	1		1	1							
Fagus grand																
Fraxinus am	35	2	20	1	1	110	1		45	14						
F. nigra																
Juglans cin.																
J. nigra	18	180	30 80	75	210 80		70		85	30 40						
Ostrya virg																
Populus gran																
P. tremul																
Prunus serot																
Quercus alba		220				20 95	30 85	35								
Q. ellipsoid																
Q. macrocarpa								90								
Q. rubra						35										
Q. velutina																
Tilia amer	15		1	1	35 45 80	1	45 100	1	2	270	2	2	80	3	45	3
Ulmus amer																
Ulmus fulva	90	2	270	2	55 65				210							
	25,27 15,30	25,17 19,22	5,35 15,30	40,120 35,10	15,25 12,20	35,20 25,20	80,22 40,35	9,45 35,30	30,75 30,25	170,20 55,30						
Distance	10,13 15,7	22,10 12,13	22,15 14,16	13,14 11,15	17,21 17,22	23,12 27,25	20,16 15,20	9,15 14,19	5,8,5 14,	3,10 15,8						

Grazing Indicator Species

Stand No. 1806
Index No.

10	D	GV	-10	D	GV
Caulophyllum thalictroides			Ambrosia artemis.		
Cornus femina			Arctium minus	2.1	21
Cornus rugosa			Bidens sp.	.2	2
Impatiens pallida			Cirsium arvense	1.2	12
Polygonatum caniculatum			Oxalis erecta		
Vitis aestivalis			Pilea pumila	2.1	21
Vitis riparia			Plantago sp.	.4	4
Prunus serotina			Poa. pratense	6.6	66
9			Prenanthes alba	1.6	16
Uvularia grandiflora			Taraxacum off.	3.4	34
Rubus allegheniensis			-9		
Desmodium glutinosum			Cryptotaenia canadensis	1.4	12.6
8			Ranunculus abortivus	4.5	40.5
Osmorhiza claytoni			Agriomania grypsosepala	4.0	36.
7			-8		
Rubus occidentalis	.5	3.5	Eupatorium rugosum	3.1	24.8
6			Lactuca binnis	.4	3.2
Geranium maculatum			-7		
Celastrum scandens			Amphicarpa bracteata	10.8	75.6
Eupatorium purpureum			Mulenbergia schreberi	2.1	14.7
Festuca obtusa			Solidago ulmifolia	.7	2.8
5			-6		
Discocrea villosa	.9	4.5	Galium triflorum	.5	3
Parthenocissus inserta	5.8	29.	Viola cucullata	4.9	29.4
4			Parietaria pennsylvanica		
Botrychium virginianum	.5	2.			

Total 39

Total 418.6

Index

VG - G

$$39 - 418.6 = -379.6$$

$$\frac{VG}{G} = \frac{39}{418.6} = .09$$

9.

Diff
Total units x 100

$$\frac{-379.6}{520.6} = -73\%$$

G
TV

1916
1507
1806

STAND NO. _____ SPECIES LIST FOR GRAZED STANDS DATE _____

Acalypha virginica
 Adiantum pedatum
 Agrostis alba
 Ambrosia artemisiifolia
 Aralia racemosa
 Aspidium spinulosum
 Aster sagittifolius 12 458, 11, 15, 19
 Bidens discoides
 Bidens frondosa
 Brachyelytrum erectum
 Carex albursina
 Carex rosea 12 3458, 15, 16, 17, 18, 19, 20
 Cardamine pennsylvanica
 Circaea intermedia
 Circaea latifolia 359, 10, 15, 16, 20
 Corylus americana
 Dryopteris spinulosa
 Epifogus virginiana
 Epilobium glandulosum
 Erigeron philadelphicus
 Eupatorium rugosum 12 345, 10, 15, 17, 20
 Fragaria virginiana
 Galium concinnum 20
 Galium triflorum
 Gaultheria procumbens
 Geranium maculatum
 Geum canadense 12 5679, 10, 12, 13, 14, 15, 18, 20
 Hackelia virginiana
 Helianthus scaberrimus 12
 Hepatica acutiloba
 Hieracium aurantiacum
 Juncus tenuis
 Laportea canadensis
 Lobelia inflata
 Maeanthemum canadense
 Mitchellia repens
 Monotropa uniflora
 Nepeta cataria
 Osmorhiza Claytoni
 Osmorhiza longistylis
 Osmunda claytoniana 7
 Oxalis acetosella
 Oxalis stricta
 Parietaria pennsylvanica
 Parthenocissus vitacea 13 4589, 13, 14, 16, 17
 Phleum pratense 10, 19
 Phytolacca decandra
 Pilea pumila
 Plantago sp. 14
 Poa spp. 16, 78, 10, 11, 12, 14, 16
 Podophyllum peltatum 2
 Polygonum convolvulus
 Polygonum hydropiper
 Polygonum persicaris
 Potentilla canadensis
 Potentilla recta

Prunella vulgaris
 Rubus allegheniensis 16
 Rubus hispidus
 Rubus occidentalis
 Rumex acetosella
 Rumex obtusifolius
 Ranunculus acris 13 45679, 12, 14, 17
 Sanguinaria canadensis
 Sanicula gregaria 12, 18
 Smilax ecirrhata
 Stellaria media
 Taraxacum officinale 479, 13, 17, 19
 Trientalis americana
 Trifolium hybridum
 Trifolium pratense
 Trillium grandiflorum
 Tycopodium lucidulum
 Urtica gracilis
 Uvularia grandiflora
 Veronica officinalis
 Viburnum acerifolium 6, 17
 Viola papilionacea
 cuculata 3459, 10, 12, 15, 17, 18, 19
 Impatiens pallida
 Onoclea sensibilis
 Sambucus canadensis
 Sambucus racemosa
 Vaccinium pennsylvanicum
 mulenbergi schubert 1, 9, 10, 11
 torrea 1, 17, 18
 aster shorte 13 568, 9, 14, 15, 20
 phryna lepl. 12 789, 10, 12, 14, 15, 16, 17, 20
 Discoria 1, 14
 Prenanthes 12, 13, 16, 17, 19
 Amphiscampa bracteata 2 456789, 10, 11, 12, 13, 15, 16, 20
 Pilica 23 45, 15, 17, 18, 19
 Cryptotaenia 23 7, 14, 15, 18
 xanthoxylum 34, 13, 14, 18, 20
 Burdock 3, 16, 20
 Ranunculus lebergii 3, 10
 Ribes cynosbati 47, 15
 C - 5, 14
 agrimonis 6 78, 11, 12, 13, 19
 Solidago multifida
 Smilacina 7, 13
 Clematis 7, 10
 Botrychium 7, 17
 Sactura 10
 Monarda punctata 11
 Helianthus 1
 Circumcincta 1, 18

STAND NO.

SPECIES LIST FOR GRAZED STANDS

DATE

1507
1806

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

Prunella vulgaris
Rubus allegheniensis 7, 16
Rubus hispidus
Rubus occidentalis
Rumex acetosella
Rumex obtusifolius
Ranunculus acris 5, 7, 9, 10, 13, 15, 17, 18, 20
Sanguinaria canadensis
Sanicula gregaria 5, 7, 8, 10, 16, 20
Smilax ecirrhata 2, 3, 12
Stellaria media
Taraxacum officinale 2, 6, 7, 9, 10, 14, 16, 18, 19
Trientalis americana
Trifolium hybridum
Trifolium pratense
Trillium grandiflorum
Tycopodium lucidulum
Urtica gracilis
Uvularia grandiflora
Veronica officinalis
Viburnum acerifolium 13
Viola papilionacea
cuscuta 1, 2, 3, 4, 9, 15, 16, 17, 19, 20

Smilax (S. rac. br.) 12
Impatiens pallida
Onoclea sensibilis
Sambucus canadensis
Sambucus racemosa
Vaccinium pennsylvanicum
Mulenbergia schubertii 1, 9, 11, 13, 15, 17
Amphicarpa bracteata 1, 2, 3, 4, 5, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18
Cryptotaenia canadensis
Ribes cynosbati 2, 4, 8, 13, 14, 15
Aster alba 10, 12, 13, 14, 18, 19
Argemone 2, 5, 6, 7, 8, 9, 11, 12, 13, 14
Xanthoxylum 2, 4, 11, 17, 18, 20 more dead wood 17
Linum 2, 5, 12, 15, 19
Cercium arvense 2, 5, 7, 14
Burdock 3, 4, 6, 10, 13, 15, 18
Taraxacum 16
Lactuca 3
Fragaria 4
A - 5, 11 *Ranunculus recurvatus* *C - 12* *E - 15*
Bostrychia 6 *sericea* 13
Antennaria neglecta 6
Prenanthes alba 8, 15
B - 8, 13 *Silene latifolia* *Pilea* 15, 16
Corydalis 8
Phytolacca leptostachya 10, 14, 20
Silene latifolia 11
Dicentra 12, 13, 16

Grazing Indicators
Presence

1806

Extreme +2
Decreasers

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

Moderate +1 3
Decreasers

Acer saccharum
Prunus serotina
P. virginiana
Quercus rubra
Tilia americana
Actaea Sp.
Adiantum pedatum
Anthrium angustl.
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 hebecea
Triosteum perfol.
Uvularia grandiflorum
Vitis riparia

Invaders -2 13 = 26

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 ✓

Increasers -1 //

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

Sum of Indicators

3

- 37

$$\frac{U-G}{\text{Tot units}} = \frac{3-37}{40} = -\frac{34}{40} = .85$$

TABULATION FORM

SOUTHERN HARDWOODS

Stand No. ~~7507~~

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
TREES:																							
Acer negundo																							
A. rubrum																							
A. saccharinum																							
A. saccharum																							
Amelanchier sp.																							
Betula lutea																							
B. nigra																							
B. papyrifera																							
Carpinus carol.																							
Carya cordiform.		1		2.5		2.5		.3															
C. ovata																							
Celtis occident.																							
Crataegus sp.																							
Fagus grandif.																							
Fraxinus americ.		1		2.5		2.5		.3															
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																							
U. thomasi																							
SHRUBS & HERBS:																							
Actaea sp.																							
Adiantum pedat.																							
Agastache scrophul.																							
Agrimonia gryp.		17		42.5		55		4.4															
Aletris farin																							

[illegible]

[illegible]

[illegible]

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		2		5		5		.5													
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.		1		2.5		2.5		.3													
Monotropa uniflora																					
Morus rubra																					
Muhlenbergia ^{Schubert} frondosa		10		25		29		2.6													
Oenothera biennis																					
Onoclea sensibil.																					
Orchis spectab.																					
Oryzopsis asper.																					
O. racemosa																					
Osmorhiza clayt.																					
O. longistylis																					
Osmunda cinnam.																					
O. claytoniana		1		2.5		2.5		.3													
Oxalis violacea																					
Panax quinquef.																					
P. trifolium																					
Panicum latifol.																					
Parietaria penn.																					
Paronychia cana.																					
Parthenocissus vitacea		22		55		80		5.7													
Pedicularis can.																					
Phlox divaricata		2		5		5		.5													
Phryma leptost.		15		37.5		47		3.9													
Physocarpus opul.																					
Phytolacca dec.																					
Pilea pumila		10		25		29		2.6													
Poa palustris ^{provense}		24		60		91		6.2													
Podophyllum pel.		1		2.5		2.5		.3													
Polemonium rep.																					
Polygonatum com.																					
P. pubescens																					
Polygonum virg.																					
Polymnia canad.																					
Polypodium virgin.																					

[illegible]

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