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In box is diam.
of stump.

Data Form No. 24

Plant Ecology Research

Univ. of Wisconsin

1512

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 12

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		45	27				40	40	50	1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.				30						60
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot				16	30 14 16	35	35		1	1
Quercus alba	95 70 120	65		50 70	1 35 15 20	45 21 21 65	130 16 35	130 45	35 40	50 140 35
Q. ellipsoid										
Q. macrocarpa								140	70	
Q. rubra										
Q. velutina	85 20	100	180 16 18+1 16+1	16	1		23	16	20	17
Tilia amer		20								
Ulmus amer										
Ulmus fulva										
Sap.	33	9	18	34	11	11	46	22	33	38
Distance	9 10 25 38	10 23 25 37	50 37 27 28	29 33 18 21	10 21 20 22	18 26 28 26	17 33 39 40	50 60 80 50	18 22 26 38	14 18 19 36
Stump	16	8	6	9	11	6	11	17	14	14

next to 1513 & 1085

Bot. 164 paper done in this stand + 1531

1512

AVE BA.

Tree	No. : Pts.	No. : Tr.	Dom.	No. Pts. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	II. : Seed	F. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. : I. I.	C. I. : C. I.	Trees : TAK
Acerrubrum															
A. saccharum															
Carya cord.															
C. ovata	5	5	202	1	1	11.1	11.1	33.3	149.8	19.2	12.5	8.6	40.3	181.3	40.4
Celtis occiden.															
Fagus grand.															
Fraxinus amer.															
F. lanceolata															
F. pennsylvani															
Juglans cinere	2	2	90							7.7	5	3.8	16.5	125.4	45
J. nigra			90												
Ostrya virgin.															
Populus grand.															
P. tremuloides															
Prunus serotin	3	5	111	3	3	33.3	33.3	99.9	359.6	11.5	12.5	4.7	28.7	103.3	22.2
Quercus alba	9	19	1291	2	2	22.2	22.2	66.6	239.8	34.6	47.5	55	137.1	493.6	14.6
Q. ellipsoidalis															
Q. macrocarpa	2	2	210							7.7	5	9	21.7	21.7	105
Q. rubra															
Q. velutina	3	5	399	3	3	33.3	33.3	99.9	249.7	11.5	12.5	17	41	102.5	79.8
Tilia american	2	2	43							7.7	5	1.8	14.5	105.8	21.5
Ulmus american															
U. rubra															
	26	40	2346	9	9				998.9					1133.6	

1.02 stems/tree

-134.7

[illegible]

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 12
Quadrat No.

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata 7101213
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis 4
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 6
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 12345671213
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 13
Claytonia virginiana
Cornus alternifolia
C. femina 3567101213
C. rugosa
Corylus americana 7
Cryptotaenia canadensis
Cyripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 2467
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine 10
G. circaeazans 3
G. concinnum 1112
G. lanceolatum
G. triflorum 357
Geranium maculatum 4681013
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 12312
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 135610
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 10
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 510111213
Phlox divaricata
Phryma leptostachya 451112
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba 2
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 5
Ribes americanum
R. cynosbati 2
R. missouriense
Rosa sp.
Rubus allegheniensis 5691013
R. occidentalis
R. strigosus 134512
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa 10
S. stellata
Smilax ecirrhata 6
S. herbacea
S. tamnoides
Solidago altissima
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 4611
V. pubescens
Vitis aestivalis
V. riparia 711
Xanthoxylum americ.
Zizia aurea

Additional species:

Q. velut. 16712
Q. alba 24578
Poa compressa 12314
P. prat. 45689
Carya ovata 2358
Prunus serot. 2610

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 12
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
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina 18
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 15/16/18/19
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 19/20
Claytonia virginiana
✓ Cornus alternifolia
C. femina 16
C. rugosa 14/15/17/18
✓ Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 14/15/16/20
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

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

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

Additional species:

Prunus serot 14
Juglans sp. 14
Quercus alba 17

~~14/15/16/17/18~~
Xanthium strumarium 14/16/17
Arctium 16
Cheerifodum 18

A. Brass 14/17
B. " 17

Stand No. 15
Quadrat No.

SOUTHERN UPLAND HARDWOODS

Presence or frequency
(Common species only)

Polypodium canadense
Polypodium pubescens
Potentilla stiplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus typhina
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Saxifraga canadensis
Sanicula virginica
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. ternstroemia
Solidago altissima
S. flexicaulis
S. umbellata
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Tristemon perfoliatum
Urtica grandiflora

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeum
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Germ. canadense
Goodenia pubescens
Habenaria bracteata
Hackelia virginica
Hammamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum heterophyllum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera proflera
Lysimachia quadrifolia
Matricaria canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oxyropis racemosa
Osmorhiza clyton
O. longistylis

Actaea pauciflora
Adiantum pedatum
Agrimonia eupatoria
Allium tricoccum
Ampelopsis racemosa
Anemone quinquefolia
A. virginiana
Anemone thymifolia
Apocynum androsaemifolium
Apocynum cannabinum
Aralia nudicaulis
A. racemosa
Aronia latifolia
Aster altissimus
Aster canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrium filix-femina
Botrychium virginicum
Brachyotum erectum
Campylopus americanus
Carex alpestris
C. pensylvanica
Centropogon thalictroides
Celastrus scandens
Circaea quadrangulata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cypripedium canadensis
Cypripedium pubescens
Cypripedium tuckermanni
Dactylis glomerata
Desmodium illinoense
D. nudiflorum
Dicentra cucullata
Dodecatheon meadia
Dryopteris argentea
Elymus canadensis
Eragrostis canadensis
Eupatorium rugosum
Fragaria virginiana
Galium aparine
G. circaeum
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Germ. canadense
Goodenia pubescens
Habenaria bracteata
Hackelia virginica
Hammamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum heterophyllum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera proflera
Lysimachia quadrifolia
Matricaria canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oxyropis racemosa
Osmorhiza clyton
O. longistylis

Palba
80 yrs.

Quadrat
95
radus =

92

98

Quadrat 19 on edge of +20 inside
clump of Poplar + Prun. serot.

19, all yellowish
20, slightly greener

Corylus, Cornus rugosa, Athyrina felix, femina - Holding out where a few
Desmodium, Parthenocissus, Rhus, Geranium, Aster simplex, tops left standing, & brachy
Sanicula virginica, Vitis - getting a faded yellow
color from sun

1512

Presence List
(Uncommon species)

SOUTHERN UPLAND HARDWOODS

Stand No. 12

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 23 13 19

A. prenanthoides

Athyrum thelypter.

Boehmeria cylindr.

Botrychium multif.

Bromus purgans

Cantosorus rhizop.

Carex convoluta 11 13

Ceanothus americ.

Chimaphila umbell.

Cirsium altissim. 46710111213

Clematis virgin. 14 16 17 18

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 19

Pteretis pensylvanica

Pyrus coronaria

P. ioensis

Ranunculus fascicul.

R. rhomboideus

Rhus glabra 3

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.

Taeniidia integerr.

Taxus canadensis

Thalictrum dasycarp.

Thaspium aureum

Tradescantia ohio.

Uvularia sessilif.

Vaccinium myrtilloides

Veronica serpyllif.

Viburnum lentago

V. trilobum

Vicia americana

Viola conspersa

V. incognita

Wulfenia bullii

Additional Species:

Cut last summer (1955)

Tried to determine which are
 last buds to hold out in the open
 or, which increase with out tree

Some tree tops left. Under edge of these plus
NE slope + thick heavy patch, several woodland
herbs persist.

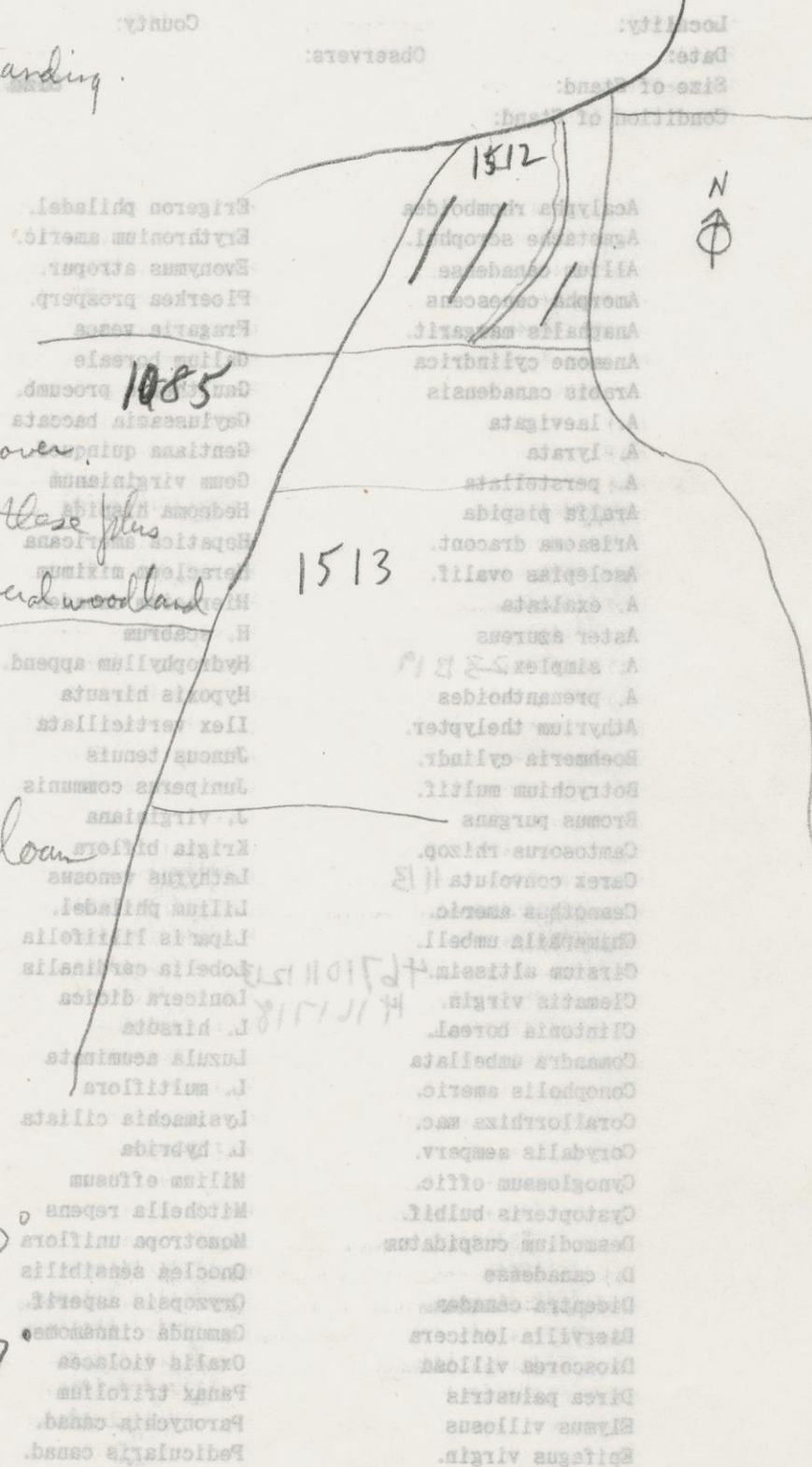
Soil - A. $\frac{1}{8}$ " $\frac{1}{8}$ " silt loam

A 1-12 1 1/2"

B yellow clay

Temp Soil 21° C 20°

air 24,5° C 27°



SOUTHERN UPLAND HARDWOODS

1958
Presence

1512

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

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

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

Additional species:

Verbascum thapsus

Not very complete,
Chased out by some
okie squatters' dogs.