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Site 1189: Heger City, Pierce County, Township 25N, Range 18W, Section 35. 1952-07-24

[s.l.]: [s.n.], 1952-07-24

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STAND RECORD

FORESTS

Stand No. 1189

Name: *Heger City*
 County: *Pierce*
 Date: *July 24, 1952*
 Size of Stand: *5 acres*
 Forest Type: *Oak opening*
 Topography: *sloping to steep*

Locality:
 T: *25N* R: *18W* Sec: *35 SE NW*
 Observers: *Bray Ward Ware*
 Size of Area Sampled:
 Soil Type: *sand & loam*
 Slope: *20-30°* Directions *South*

Condition of Stand: *Excellent*
no cutting some burning + lightning or wind damage

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									

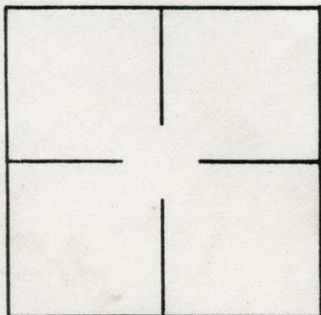
DEPTH *more steep*
open slope

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	<i>1/4 m</i>	<i>grass</i>	<i>shaded less steep</i>
A ₁	<i>1-2 m</i>	<i>grey to black sand loam</i>	<i>2-4 m grass + leaves</i>
A ₂			<i>black loam little sand</i>
B		<i>parent rock</i>	<i>4 m brown loamy sand</i>
		<i>sand stone</i>	<i>with black worm casting</i>

Parent Material:

Map:



Heger City

Saplings

Sap

Seed

1189

Tree	No.	No.	Size Class	sq. in.	No.	F.%	F.%	D.%	Dom.%	D F D	Station No.		
	Pts.	Tr.	12-80	81-320	321+	Dom	Sap.	Seed	Seed	Tr.	Tr.	Trees	Index
Acerrubrum													Total Length of Transect
A. saccharum													Total Length of Transect
Carya cord.													Ave. Dist. Btw'n Trees 21.7
C. ovata													Saplings/unit area
Fagus grand.													Ave. BA (Total BA: 80 91.8
Fraxirus amar.													No. Trees/acre 107.8
F. pennsylvani.													Dom./acre 9, 896
Juglans cinere.													
J. nigra													
Ostrya virgin.													
Populus grand.													
P. tremuloides													
Prunus serotin													
Quercus alba	2	4				24.7			7.1	10	6.7	23.8	71.4 23.8
Q. macrocarpa	10	15	3	4	23.1	104.9	23.5	46.6	35.7	37.5	28.5	110.7	254.4 305.1 101.7
Q. rubra									21.4				272.8 136.4
Q. velutina	11	16	3	3	23.1	210.5	17.6	40.7	48.6	39.2	40.0	57.2	56.5 37.7
Tilia american.													655.1 299.6
Ulmus american:													105.8
U. fulva			1	1	7.7	15.9	13.6	7.1					2.18, 2.35
Betula papyrifera	5	5	5	7	38.5	273	41.1	79.6	117.8	12.5	7.4	37.7	
Juniperus vic			1	2	7.7	11.7	18.4						
	28	40	13	17		3674	15	14					

71.4 23.8
 254.4 305.4 101.7
 272.8 136.4
 56.5 37.7
 655.1 299.6
 705.8
 2.18, 2.35

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1189

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum				211						
Betula papy.	1			20						
Carpinus car				16						
Carya cord				20						
C. ovata				15						
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin										
J. nigra										
Ostrya virg										
Populus gran									128	
P. tremul									6	
Prunus serot	69	270	93	270	793	245	710	69	14	
Quercus alba	4	4	4	3	4			6	14	564
Q. ellipsoid	13	20	12	21	11	18	15	12	12	12
Q. macrocarpa	20	50	20	45	310	20	40	13	8	32
Q. rubra	20		14		310	60	502	10	110	190
Q. velutina	7	50	3		37	20	24	10		7
Tilia amer	315	11	211		10	7	7	93		4
Ulmus amer		8			1,011	325	374			41
Ulmus fulva		111								
Distance	20	18½	22	25	13	18½	27	19	16	16

Akron Typewriter

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1189

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum	5									
Betula papy.	55 29	19	2		30	120	1		1	
Carpinus car	12 18	13 16			11 18	15 18				
Carya cord	5	7			7	12				
C. ovata	145	166			135	173				
Celtis occ	1									
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans										
J. nigra										
Ostrya virg										
Populus gran								211		
P. tremul								4 20		
Prunus serot			135	128				16 75		
Quercus alba			2 15	7 15			135	80 14	128	
Q. ellipsoid			14	13			8	22	5	145
Q. macrocarpa		75	60 16	50 30	356	270	15 14	6	15 13	60
Q. rubra	110 18	12 5	5 7	10 15	170	90	80 110	221	55 30	15 15
Q. velutina	17 2			4	22 25	19 22	16 19		10 10	6
Tilia amer			20		5	11	12		4	
Ulmus amer	97	93		97			197		20	
Ulmus fulva										
Juncus		2								
Distance	12	52	34	26	25	20	10	18	9	31

ave canopy
coverage
210.4ave basal
area 40.8
ave diam
21.7
ave diam
16.87190
17
22
6
245

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

Achillea millefolium
 Ambrosia artemisifolia
 Ambrosia psilostachya
 Amorpha canescens 1° 1234°
 Andropogon gerardi 2°
 Andropogon scoparius
 Anemone canadensis
 Anemone cylindrica x
 Anemone patens
 Antennaria sp. 4°
 Apocynum androsaemifolium
 Apocynum cannabinum
 Arenaria stricta
 Artemisia caudata
 Asclepias amplexicaulis
 Asclepias syriaca x
 Asclepias tuberosa
 Asclepias verticillata
 Asclepias viridiflora
 Aster azureus
 Aster ericoides
 Aster laevis
 Aster novae-angliae
 Aster oblongifolius
 Aster ptarmicoides
 Aster sericeus
 Baptisia leucantha
 Baptisia leucophaea
 Bouteloua curtipendula 13°
 Bouteloua hirsuta
 Cacalia tuberosa
 Calamagrostis canadensis
 Ceanothus americanus x
 Cicuta maculata
 Cirsium discolor
 Comandra richardsiana 1°
 Convolvulus sepium
 Coreopsis palmata
 Cornus femina 4°
 Corylus americana x
 Desmodium canadense
 Desmodium illinoense
 Dodecatheon meadia
 Elymus canadensis
 Equisetum arvense
 Equisetum kansanum
 Erigeron strigosus
 Eryngium yuccifolium
 Euphorbia corollata 13°

Fragaria virginiana x
 Galium boreale x
 Gentiana andrewsii
 Gentiana puberula
 Geranium maculatum x
 Geum triflorum
 Hedeoma hispida
 Helianthemum sp.
 Helianthus grosseserratus
 Helianthus laetiflorus
 Helianthus occidentalis
 Helianthus strumosus
 Heliopsis helianthoides x
 Heuchera richardsonii x
 Hieracium longipilum
 Hypoxis hirsuta
 Iris virginica
 Koeleria cristata x
 Krigia biflora
 Kuhnia eupatorioides
 Lactuca canadensis
 Lactuca ludoviciana
 Lathyrus palustris
 Lathyrus venosus
 Lespedeza capitata
 Liatris aspera
 Liatris cylindracea
 Liatris pycnostachya
 Lilium michiganense
 Lilium philadelphicum
 Linum sulcatum
 Lithospermum canescens
 Lithospermum croceum
 Lithospermum incisum
 Lobelia spicata
 Monarda fistulosa 4°
 Muhlenbergia cuspidata
 Muhlenbergia racemosa
 Oenothera biennis
 Oxalis violacea
 Oxypolis rigidior
 Panicum leibergii 4°
 Panicum oligosanthos
 Panicum perlongum
 Panicum virgatum
 Petalostemum candidum 134°
 Petalostemum purpureum 23°
 Phlox pilosa x
 Physalis heterophylla

Physalis subglabrata
 Physalis virginiana
 Polygala senega
 Polytaenia nuttallii
 Potentilla arguta
 Potentilla canadensis
 Prenanthes racemosa
 Psoralea esculenta
 Pycnanthemum virginicum
 Pyrus melanocarpa
 Quercus macrocarpa
 Ratibida pinnata
 Rhus glabra 1° typhina x
 Rhus radicans 4°
 Rosa sp.
 Rudbeckia hirta x
 Salix humilis
 Saxifraga pennsylvanica
 Scutellaria parvula 2°
 Silphium integrifolium
 Silphium laciniatum
 Silphium terebinthinaceum
 Sisyrinchium campestre
 Smilacina stellata
 Solidago altissima spr x
 Solidago gigantea
 Solidago graminifolia
 Solidago juncea x
 Solidago missouriensis
 Solidago nemoralis
 Solidago rigida
 Solidago speciosa
 Sorghastrum nutans
 Spartina pectinata
 Spiraea alba
 Sporobolus heterolepis
 Stipa spartea 3°
 Tephrosia virginiana
 Thalictrum dasycarpum
 Tradescantia ohioensis
 Verbena stricta
 Veronicastrium virginicum
 Vicia americana
 Viola pedata 23°
 Viola pedatifida
 Vitis vulpina x
 Zizia aptera
 Zizia aurea

Additional species:

Campanula rotundifolia 1° x

Anemone hepatica 4° x

Solidago basal leaves 4°

Blue grass 1 23°
Prenanthes alba 4°

1, 2 10,000
 points 1,000
 4 1-2-50

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

Achillea millefolium
Ambrosia artemisifolia
Ambrosia psilostachya
Amorpha canescens
Andropogon gerardi 56
Andropogon scoparius
Anemone canadensis
Anemone cylindrica 6
Anemone patens
Antennaria sp.
Apocynum androsaemifolium 67
Apocynum cannabinum
Arenaria stricta
Artemisia caudata
Asclepias amplexicaulis
Asclepias syriaca 6
Asclepias tuberosa
Asclepias verticillata
Asclepias viridiflora
Aster azureus
Aster ericoides
Aster laevis
Aster novae-angliae
Aster oblongifolius
Aster ptarmicoides
Aster sericeus
Baptisia leucantha
Baptisia leucophaea
Bouteloua curtipendula 5
Bouteloua hirsuta
Cacalia tuberosa
Calamagrostis canadensis
Ceanothus americanus
Cicuta maculata
Cirsium discolor
Comandra richardsoniana
Convolvulus sepium
Coreopsis palmata
Cornus femina 7
Corylus americana 6
Desmodium canadense
Desmodium illinoense
Dodecatheon meadia
Elymus canadensis
Equisetum arvense
Equisetum kansanum
Erigeron strigosus
Eryngium yuccifolium
Euphorbia corollata 6

Fragaria virginiana
Galium boreale
Gentiana andrewsii
Gentiana puberula
Geranium maculatum
Geum triflorum
Hedeoma hispida
Helianthemum sp.
Helianthus grosseserratus
Helianthus laetiflorus
Helianthus occidentalis
Helianthus strumosus
Heliopsis helianthoides
Heuchera richardsonii
Hieracium longipilum
Hypoxis hirsuta
Iris virginica
Koeleria cristata
Krigia biflora
Kuhnia eupatorioides
Lactuca canadensis
Lactuca ludoviciana
Lathyrus palustris
Lathyrus venosus
Lespedeza capitata
Liatris aspera
Liatris cylindracea
Liatris pycnostachya
Lilium michiganense
Lilium philadelphicum
Linum sulcatum
Lithospermum canescens
Lithospermum croceum
Lithospermum incisum
Lobelia spicata
Monarda fistulosa
Muhlenbergia cuspidata
Muhlenbergia racemosa
Oenothera biennis
Oxalis violacea
Oxypolis rigidior
Panicum leibergii
Panicum oligosanthos
Panicum perlongum
Panicum virgatum
Petalostemum candidum 56
Petalostemum purpureum
Phlox pilosa
Physalis heterophylla

Physalis subglabrata
Physalis virginiana
Polygala senega
Polytaenia nuttallii
Potentilla arguta
Potentilla canadensis
Prenanthes racemosa
Psoralea esculenta
Pycnanthemum virginicum
Pyrus melanocarpa
Quercus macrocarpa
Ratibida pinnata
Rhus glabra 6
Rhus radicans
Rosa sp.
Rudbeckia hirta
Salix humilis
Saxifraga pennsylvanica
Scutellaria parvula
Silphium integrifolium
Silphium laciniatum
Silphium terebinthinaceum
Sisyrinchium campestre
Smilacina stellata
Solidago altissima
Solidago gigantea
Solidago graminifolia
Solidago juncea
Solidago missouriensis
Solidago nemoralis
Solidago rigida
Solidago speciosa
Sorghastrum nutans
Spartina pectinata
Spiraea alba
Sporobolus heterolepis
Stipa spartea
Tephrosia virginiana
Thalictrum dasycarpum
Tradescantia ohioensis
Verbena stricta
Veronicastrum virginicum
Vicia americana
Viola pedata
Viola pedatifida
Vitis vulpina
Zizia aptera
Zizia aurea

Additional species:

5 600
 6 400
 7 450

Anemone 567
 Parthenocissus 67
 Phryma 7
 Desmod glut 7
 Blue grass 57
 Thall. dioriceum 7

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

Achillea millefolium
Ambrosia artemisifolia
Ambrosia psilostachya
Amorpha canescens
Andropogon gerardi
Andropogon scoparius
Anemone canadensis
Anemone cylindrica 89°
Anemone patens
Antennaria sp.
Apocynum androsaemifolium 810°
Apocynum cannabinum
Arenaria stricta
Artemisia caudata
Asclepias amplexicaulis
Asclepias syriaca
Asclepias tuberosa
Asclepias verticillata
Asclepias viridiflora
Aster azureus
Aster ericoides
Aster laevis
Aster novae-angliae
Aster oblongifolius
Aster ptarmicoides
Aster sericeus
Baptisia leucantha
Baptisia leucophaea
Bouteloua curtipendula
Bouteloua hirsuta
Cacalia tuberosa
Calamagrostis canadensis
Ceanothus americanus 8°
Cicuta maculata
Cirsium discolor
Comandra richardsiana
Convolvulus sepium
Coreopsis palmata
Cornus femina
Corylus americana
Desmodium canadense
Desmodium illinoense
Dodecatheon meadia
Elymus canadensis
Equisetum arvense
Equisetum kansanum
Erigeron strigosus
Eryngium yuccifolium
Euphorbia corollata

Fragaria virginiana 9°
Galium boreale 10.9°
Gentiana andrewsii
Gentiana puberula
Geranium maculatum
Geum triflorum
Hedeoma hispida
Helianthemum sp.
Helianthus grosseserratus
Helianthus laetiflorus
Helianthus occidentalis
Helianthus strumosus
Heliopsis helianthoides 8°
Heuchera richardsonii
Hieracium longipilum
Hypoxis hirsuta
Iris virginica
Koeleria cristata
Krigia biflora
Kuhnia eupatorioides
Lactuca canadensis
Lactuca ludoviciana
Lathyrus palustris
Lathyrus venosus
Lespedeza capitata
Liatris aspera
Liatris cylindracea
Liatris pycnostachya
Lilium michiganense
Lilium philadelphicum
Linum sulcatum
Lithospermum canescens
Lithospermum croceum
Lithospermum incisum
Lobelia spicata
Monarda fistulosa
Muhlenbergia cuspidata
Muhlenbergia racemosa
Oenothera biennis
Oxalis violacea
Oxypolis rigidior
Panicum leibergii
Panicum oligosanthos
Panicum perlongum
Panicum virgatum
Petalostemum candidum
Petalostemum purpureum
Phlox pilosa
Physalis heterophylla

Physalis subglabrata
Physalis virginiana
Polygala senega
Polytaenia nuttallii
Potentilla arguta
Potentilla canadensis
Prenanthes racemosa
Psoralea esculenta
Pycnanthemum virginicum
Pyrus melanocarpa
Quercus macrocarpa
Ratibida pinnata
Rhus glabra
Rhus radicans
Rosa sp.
Rudbeckia hirta
Salix humilis
Saxifraga pensylvanica
Scutellaria parvula
Silphium integrifolium
Silphium laciniatum
Silphium terebinthinaceum
Sisyrinchium campestre
Smilacina stellata
Solidago altissima
Solidago gigantea
Solidago graminifolia
Solidago juncea
Solidago missouriensis
Solidago nemoralis
Solidago rigida
Solidago speciosa
Sorghastrum nutans
Spartina pectinata
Spiraea alba
Sporobolus heterolepis
Stipa spartea
Tephrosia virginiana
Thalictrum dasycarpum
Tradescantia ohioensis
Verbena stricta
Veronicastrum virginicum
Vicia americana
Viola pedata
Viola pedatifida
Vitis vulpina
Zizia aptera
Zizia aurea

Additional species:

Solidago basal leaved

Collected 89/10

Amphicarpa 89°

Partheno 9°

Blue grass 89°
Thal. divar. 8°

Circa 8°

81,500

96,000

104,000

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

agave P.
 Achillea millefolium
 Ambrosia artemisifolia
 Ambrosia psilostachya
 Amorpha canescens
 Andropogon gerardi 13.
 Andropogon scoparius
 Anemone canadensis
 Anemone cylindrica
 Anemone patens
 Antennaria sp.
 Apocynum androsaemifolium
 Apocynum cannabinum
 Arenaria stricta
 Artemisia caudata
 Asclepias amplexicaulis
 Asclepias syriaca
 Asclepias tuberosa
 Asclepias verticillata
 Asclepias viridiflora
 Aster azureus
 Aster ericoides
 Aster laevis
 Aster novae-angliae
 Aster oblongifolius
 Aster ptarmicoides
 Aster sericeus
 Baptisia leucantha
 Baptisia leucophaea
 Bouteloua curtipendula
 Bouteloua hirsuta
 Cacalia tuberosa
 Calamagrostis canadensis
 Ceanothus americanus
 Cicutula maculata
 Cirsium discolor
 Comandra richardsiana 13.
 Convolvulus sepium
 Coreopsis palmata
 Cornus femina 13.
 Corylus americana
 Desmodium canadense
 Desmodium illinoense
 Dodecatheon meadia
 Elymus canadensis
 Equisetum arvense
 Equisetum kansanum
 Erigeron strigosus
 Eryngium yuccifolium
 Euphorbia corollata 12 13.

Fragaria virginiana
 Galium boreale 11.
 Gentiana andrewsii
 Gentiana puberula
 Geranium maculatum 11 12.
 Geum triflorum
 Hedeoma hispida
 Helianthemum sp.
 Helianthus grosseserratus
 Helianthus laetiflorus
 Helianthus occidentalis
 Helianthus strumosus
 Heliopsis helianthoides
 Heuchera richardsonii
 Hieracium longipilum
 Hypoxis hirsuta
 Iris virginica
 Koeleria cristata 13.
 Krigia biflora
 Kuhnia eupatorioides
 Lactuca canadensis
 Lactuca ludoviciana
 Lathyrus palustris
 Lathyrus venosus
 Lespedeza capitata
 Liatris aspera
 Liatris cylindracea
 Liatris pycnostachya
 Lilium michiganense
 Lilium philadelphicum
 Linum sulcatum
 Lithospermum canescens 13.
 Lithospermum croceum
 Lithospermum incisum
 Lobelia spicata
 Monarda fistulosa
 Muhlenbergia cuspidata
 Muhlenbergia racemosa
 Oenothera biennis
 Oxalis violacea
 Oxypolis rigidior
 Panicum leibergii
 Panicum oligosanthos
 Panicum perlongum
 Panicum virgatum
 Petalostemum candidum
 Petalostemum purpureum
 Phlox pilosa
 Physalis heterophylla

Physalis subglabrata
 Physalis virginiana
 Polygala senega
 Polytaenia nuttallii
 Potentilla arguta
 Potentilla canadensis
 Prenanthes racemosa
 Psoralea esculenta
 Pycnanthemum virginianum
 Pyrus melanocarpa
 Quercus macrocarpa
 Ratibida pinnata
 Rhus glabra
 Rhus radicans
 Rosa sp.
 Rudbeckia hirta
 Salix humilis
 Saxifraga pensylvanica
 Scutellaria parvula
 Silphium integrifolium
 Silphium laciniatum
 Silphium terebinthinaceum
 Sisyrinchium campestre
 Smilacina stellata
 Solidago altissima
 Solidago gigantea
 Solidago graminifolia
 Solidago juncea
 Solidago missouriensis
 Solidago nemoralis
 Solidago rigida
 Solidago speciosa
 Sorghastrum nutans
 Spartina pectinata
 Spiraea alba
 Sporobolus heterolepis
 Stipa spartea
 Tephrosia virginiana
 Thalictrum dasycarpum
 Tradescantia ohioensis
 Verbena stricta
 Veronicastrum virginicum
 Vicia americana
 Viola pedata 13.
 Viola pedatifida
 Vitis vulpina
 Zizia aptera
 Zizia aurea

Additional species:

Carex collected 11 12
 Virginiana 11.
 Amphe 11 12 13.
 Solidago basal 11 12 13

Bluegrass 11 12 13.

11 10 000
 12 1 100
 13 2 000

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

Achillea millefolium
 Ambrosia artemisifolia
 Ambrosia psilostachya
 Amorpha canescens
 Andropogon gerardi 14 15 16°
 Andropogon scoparius 14 15 16°
 Anemone canadensis
 Anemone cylindrica 16°
 Anemone patens
 Antennaria sp. 14
 Apocynum androsaemifolium
 Apocynum cannabinum
 Arenaria stricta
 Artemisia caudata
 Asclepias amplexicaulis
 Asclepias syriaca
 Asclepias tuberosa
 Asclepias verticillata
 Asclepias viridiflora
 Aster azureus
 Aster ericoides
 Aster laevis
 Aster novae-angliae
 Aster oblongifolius
 Aster ptarmicoides
 Aster sericeus
 Baptisia leucantha
 Baptisia leucophaea
 Bouteloua curtipendula 14 15°
 Bouteloua hirsuta
 Cacia tuberosa
 Calamagrostis canadensis
 Ceanothus americanus
 Cicutula maculata
 Cirsium discolor
 Comandra richardsiana
 Convolvulus sepium
 Coreopsis palmata
 Cornus femina
 Corylus americana
 Desmodium canadense
 Desmodium illinoense
 Dodecatheon meadia
 Elymus canadensis
 Equisetum arvense
 Equisetum kansanum
 Erigeron strigosus
 Eryngium yuccifolium
 Euphorbia corollata 16°

Fragaria virginiana
 Galium boreale 15 16°
 Gentiana andrewsii
 Gentiana puberula
 Geranium maculatum
 Geum triflorum
 Hedeoma hispida
 Helianthemum sp.
 Helianthus grosseserratus
 Helianthus laetiflorus
 Helianthus occidentalis
 Helianthus strumosus
 Heliopsis helianthoides
 Heuchera richardsonii
 Hieracium longipilum
 Hypoxis hirsuta
 Iris virginica
 Koeleria cristata
 Krigia biflora
 Kuhnia eupatorioides
 Lactuca canadensis
 Lactuca ludoviciana
 Lathyrus palustris
 Lathyrus venosus
 Lespedeza capitata
 Liatris aspera
 Liatris cylindracea
 Liatris pycnostachya
 Lilium michiganense
 Lilium philadelphicum
 Linum sulcatum
 Lithospermum canescens 14 16°
 Lithospermum croceum
 Lithospermum incisum 16°
 Lobelia spicata
 Monarda fistulosa
 Muhlenbergia cuspidata
 Muhlenbergia racemosa
 Oenothera biennis
 Oxalis violacea
 Oxypolis rigidior
 Panicum leibergii 15°
 Panicum oligosanthos
 Panicum perlongum
 Panicum virgatum
 Petalostemum candidum 14°
 Petalostemum purpureum 14 15 16°
 Phlox pilosa 15 16°
 Physalis heterophylla

Physalis subglabrata
 Physalis virginiana
 Polygala senega
 Polytaenia nuttallii
 Potentilla arguta
 Potentilla canadensis
 Prenanthes racemosa
 Psoralea esculenta
 Pycnanthemum virginicum
 Pyrus melanocarpa
 Quercus macrocarpa
 Ratibida pinnata
 Rhus glabra
 Rhus radicans
 Rosa sp. 16°
 Rudbeckia hirta
 Salix humilis
 Saxifraga pensylvanica
 Scutellaria parvula
 Silphium integrifolium
 Silphium laciniatum
 Silphium terebinthinaceum
 Sisyrinchium campestre
 Smilacina stellata
 Solidago altissima
 Solidago gigantea
 Solidago graminifolia
 Solidago juncea
 Solidago missouriensis
 Solidago nemoralis
 Solidago rigida
 Solidago speciosa
 Sorghastrum nutans
 Spartina pectinata
 Spiraea alba
 Sporobolus heterolepis
 Stipa spartea
 Tephrosia virginiana
 Thalictrum dasycarpum
 Tradescantia ohioensis
 Verbena stricta
 Veronicastrum virginicum
 Vicia americana
 Viola pedata
 Viola pedatifida
 Vitis vulpina
 Zizia aptera
 Zizia aurea

Additional species:

14 10,000
 15 10,000
 16 1,000

Bromus Kalmii 14 16° Blue grass 14 16°
 Solidago racem 14 16° Thalictrum
 Amp hircarp 14° do 16°

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

Agnes 1718. Rubus cuneatus 17

anem 1718

Campylopus 1718

Achillea millefolium
Ambrosia artemisifolia
Ambrosia psilostachya
Amorpha canescens
Andropogon gerardi 17
Andropogon scoparius
Anemone canadensis
Anemone cylindrica 1718
Anemone patens
Antennaria sp. 1819
Apocynum androsaemifolium 1718
Apocynum cannabinum
Arenaria stricta
Artemisia caudata
Asclepias amplexicaulis
Asclepias syriaca
Asclepias tuberosa
Asclepias verticillata
Asclepias viridiflora
Aster azureus
Aster ericoides
Aster laevis
Aster novae-angliae
Aster oblongifolius
Aster ptarmicoides
Aster sericeus
Baptisia leucantha
Baptisia leucophaea
Bouteloua curtipendula
Bouteloua hirsuta
Cacalia tuberosa
Calamagrostis canadensis
Ceanothus americanus
Cicuta maculata
Cirsium discolor
Comandra richardsoniana
Convolvulus sepium
Coreopsis palmata
Cornus femina
Corylus americana
Desmodium canadense
Desmodium illinoense
Dodecatheon meadia
Elymus canadensis
Equisetum arvense
Equisetum kansanum
Erigeron strigosus
Eryngium yuccifolium
Euphorbia corollata 19

Fragaria virginiana
Galium boreale 171819
Gentiana andrewsii
Gentiana puberula
Geranium maculatum
Geum triflorum
Hedeoma hispida
Helianthemum sp.
Helianthus grosseserratus
Helianthus laetiflorus
Helianthus occidentalis
Helianthus strumosus
Heliopsis helianthoides
Heuchera richardsonii 18
Hieracium longipilum
Hypoxis hirsuta
Iris virginica
Koeleria cristata
Krigia biflora
Kuhnia eupatorioides
Lactuca canadensis
Lactuca ludoviciana
Lathyrus palustris
Lathyrus venosus
Lespedeza capitata
Liatris aspera
Liatris cylindracea
Liatris pycnostachya
Lilium michiganense
Lilium philadelphicum
Linum sulcatum
Lithospermum canescens
Lithospermum croceum
Lithospermum incisum
Lobelia spicata
Monarda fistulosa
Muhlenbergia cuspidata
Muhlenbergia racemosa
Oenothera biennis
Oxalis violacea
Oxypolis rigidior
Panicum leibergii
Panicum oligosanthos
Panicum perlongum
Panicum virgatum
Petalostemum candidum
Petalostemum purpureum
Phlox pilosa
Physalis heterophylla

Physalis subglabrata
Physalis virginiana
Polygala senega
Polytaenia nuttallii
Potentilla arguta
Potentilla canadensis
Prenanthes racemosa
Psoralea esculenta
Pycnanthemum virginianum
Pyrus melanocarpa
Quercus macrocarpa
Ratibida pinnata
Rhus glabra 19
Rhus radicans
Rosa sp.
Rudbeckia hirta
Salix humilis
Saxifraga pensylvanica
Scutellaria parvula
Silphium integrifolium
Silphium laciniatum
Silphium terebinthinaceum
Sisyrinchium campestre
Smilacina stellata 17
Solidago altissima
Solidago gigantea
Solidago graminifolia
Solidago juncea
Solidago missouriensis
Solidago nemoralis
Solidago rigida
Solidago speciosa
Sorghastrum nutans
Spartina pectinata
Spiraea alba
Sporobolus heterolepis
Stipa spartea
Tephrosia virginiana
Thalictrum dasycarpum
Tradescantia ohioensis
Verbena stricta
Veronicastrum virginicum
Vicia americana
Viola pedata
Viola pedatifida
Vitis vulpina
Zizia aptera
Zizia aurea

Additional species:

17 10,000 at base of rock
18 300
19 200

amphi 171819
Carex penn 1718
Solidago basal 19

Thal dis 19
Blue grass 19

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1189
Quadrat No.

Achillea millefolium
 Ambrosia artemisifolia
 Ambrosia psilostachya
 Amorpha canescens
 Andropogon gerardi 22
 Andropogon scoparius 22
 Anemone canadensis
 Anemone cylindrica 20 22
 Anemone patens
 Antennaria sp. 21
 Apocynum androsaemifolium
 Apocynum cannabinum
 Arenaria stricta
 Artemisia caudata
 Asclepias amplexicaulis
 Asclepias syriaca
 Asclepias tuberosa
 Asclepias verticillata
 Asclepias viridiflora
 Aster azureus
 Aster ericoides
 Aster laevis
 Aster novae-angliae
 Aster oblongifolius
 Aster ptarmicoides
 Aster sericeus
 Baptisia leucantha
 Baptisia leucophaea
 Bouteloua curtipendula
 Bouteloua hirsuta
 Cacalia tuberosa
 Calamagrostis canadensis
 Ceanothus americanus
 Cicuta maculata
 Cirsium discolor
 Comandra richardsonii
 Convolvulus sepium
 Coreopsis palmata
 Cornus femina 21
 Corylus americana
 Desmodium canadense
 Desmodium illinoense
 Dodecatheon meadia
 Elymus canadensis
 Equisetum arvense
 Equisetum kansanum
 Erigeron strigosus
 Eryngium yuccifolium
 Euphorbia corollata

Campanula 20

Fragaria virginiana
 Galium boreale 20 21
 Gentiana andrewsii
 Gentiana puberula
 Geranium maculatum
 Geum triflorum
 Hedeoma hispida
 Helianthemum sp.
 Helianthus grosseserratus
 Helianthus laetiflorus
 Helianthus occidentalis
 Helianthus strumosus
 Heliopsis helianthoides
 Heuchera richardsonii
 Hieracium longipilum
 Hypoxis hirsuta
 Iris virginica
 Koeleria cristata
 Krigia biflora
 Kuhnia eupatorioides
 Lactuca canadensis
 Lactuca ludoviciana
 Lathyrus palustris
 Lathyrus venosus
 Lespedeza capitata
 Liatris aspera
 Liatris cylindracea
 Liatris pycnostachya
 Lilium michiganense
 Lilium philadelphicum
 Linum sulcatum
 Lithospermum canescens
 Lithospermum croceum
 Lithospermum incisum
 Lobelia spicata
 Monarda fistulosa
 Muhlenbergia cuspidata
 Muhlenbergia racemosa
 Oenothera biennis
 Oxalis violacea
 Oxypolis rigidior
 Panicum leibergii 22
 Panicum oligosanthos
 Panicum perlongum
 Panicum virgatum
 Petalostemum candidum 22
 Petalostemum purpureum
 Phlox pilosa 20
 Physalis heterophylla

Physalis subglabrata
 Physalis virginiana
 Polygala senega
 Polytaenia nuttallii
 Potentilla arguta
 Potentilla canadensis
 Prenanthes racemosa
 Psoralea esculenta
 Pycnanthemum virginianum
 Pyrus melanocarpa
 Quercus macrocarpa
 Ratibida pinnata
 Rhus glabra 21
 Rhus radicans
 Rosa sp.
 Rudbeckia hirta 20
 Salix humilis
 Saxifraga pennsylvanica
 Scutellaria parvula
 Silphium integrifolium
 Silphium laciniatum
 Silphium terebinthinaceum
 Sisyrinchium campestre
 Smilacina stellata
 Solidago altissima
 Solidago gigantea
 Solidago graminifolia
 Solidago juncea 22
 Solidago missouriensis
 Solidago nemoralis
 Solidago rigida
 Solidago speciosa
 Sorghastrum nutans
 Spartina pectinata
 Spiraea alba
 Sporobolus heterolepis
 Stipa spartea
 Tephrosia virginiana
 Thalictrum dasycarpum
 Tradescantia ohioensis
 Verbena stricta
 Veronicastrium virginicum
 Vicia americana
 Viola pedata
 Viola pedatifida
 Vitis vulpina 20 22
 Zizia aptera
 Zizia aurea

Additional species:

20 300
 21 6700
 22 10,000

Campanula 20 21 22
 Carex 20 21
 Solidago Smooth leaves
 Cole 21 22

Blue grass 20 22
 Thal div 20