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Site 3043: Wisconsin Rapids, Wood County. 1949-07-29

[s.l.]: [s.n.], 1949-07-29

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IV

3043

FOREST SURVEY

STATION RECORD

3043

Stand No:

Name:

w. Rapids - pt Edwards woods

County:

Wood

T: 22 N

R: 5 E

Sec: 24

Locality:

along Hwy 73

Date:

July 24-49

Observers:

Aulen & Brown

Size of Stand:

10-20 acres

Size of Area Sampled:

Forest Type:

Pine

Soil Type:

73 Between
w Rapids +
pt Edwards

Topography:

roadside - relatively low & flat

Condition of Stand:

Excellent

Open Grown Trees:

Stumps:

1.
2.
3.
4.
5.6.
7.
8.
9.
10.

Soil

Sample No:

pH

N

P

K

Colloids

Vol/wt

WHC

A₀_____

—

—

—

—

—

—

—

A₁_____

—

—

—

—

—

—

—

A₂_____

—

—

—

—

—

—

—

Depth

Characteristics (Color, texture, etc.)

A₀_____A₁_____A₂_____

B _____

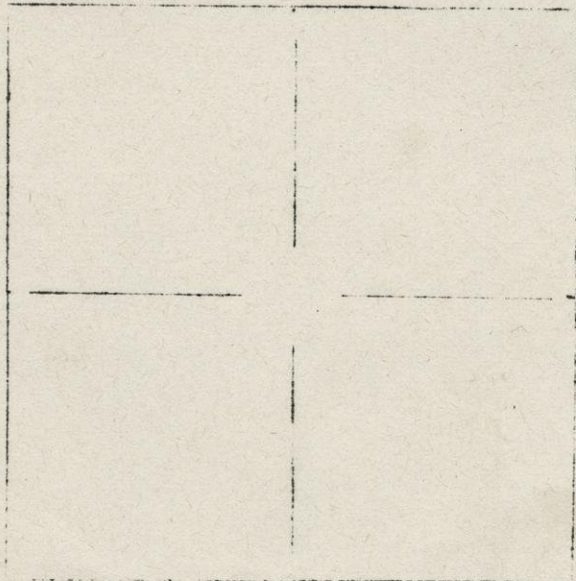
See bag 1

Parent Material:

Remarks:

2 areas were sampled -
 20 ft. each -
 along Hwy 73 between
 W. Rapids + Pt. Edwards

Map



Tree	# Pts	# Tr.	Size Cl. sq. in. -80:-320:321:Dom.	# Sap	# Seed	F.% Seed	F.% Tr.	D.% Tr.	Dom % Tr.	D F D Index	Station No.
45 Acer rubrum	18	21	17/3 662/350/350	1362	8	32	25.4	26.25	13.2	64.9	389
2.5 A. sacchar.	1	1	40	40			1.4	1.25	0.4	3.1	31
2.5 Carya cord.	1	1	1/2	12	1	4	1.4	1.25	0.1	2.8	22
C. ovata											
Fagus gran.											
2.5 Fraxinus	1	1	24	24			1.4	1.25	0.2	2.9	17
F. penn.											
5.0 Juglans cin	2	2	50/40	190			2.8	2.5	1.8	7.1	36
J. nigra											
2.5 Ostrya vir.	1	1	20	20	1	4	1.4	1.25	0.2	2.9	26
2.5 Populus gr.	1	2	20	130			1.4	1.25	1.3	5.2	10
P. tremuloi											
Prunus sero					2	8					
27.5 Quercus al.	11	11	6/5 195/855	1050			15.5	15.25	10.2	39.5	158
C. macrocar											
12.5 C. rubra	5	5	5/5 9/5	9/5	3	12	7.0	6.25	8.9	22.2	133
C. velutina											
2.5 Tilia amer.	1	1	30	30	3	12	1.4	1.25	0.3	3.0	24
10 Ulmus amer.	4	5	1/5 3/45	790	2	8	5.6	6.25	7.7	19.6	157
U. fulva											
57.5 Pinus Strobu	23	27	3/2 229/3675	5585			32.4	33.75	54.3	120.5	603
5.0 Betula p.p.	2	2	1/40	140			2.8	2.5	1.4	6.7	37
Crataegus					1	4					
177.5 Carpinus					4	16					
Totals	80		37 37 6 154/3 6280 2465	10288	25		100.0	300.4		1640	

Station No. 3043

Total Length of Transect. 684.5

Total Area of Transect. 4449 ft²

Ave. Dist. Btw'n Trees 17.1 ft

Saplings/unit area 245/acre

Ave. BA (Total BA=80) 129

No. Trees/acre 172

Dom./acre 22188

1500
1700

Pine Woods Survey 3043
Summary of Seedlings

Summary of Seedlings

Station No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	F	
Trees:																						
Acer negundo																						
Acer rubrum						✓					✓			✓	✓		✓				25	
Acer saccharinum																						
Acer saccharum										✓											5	
Acer spicatum																						
Amelanchier spp.																						
Betula lutea																						
Betula nigra																						
Betula papyrifera																						
Carpinus caroliniana						✓															5	
Carya cordiformis										✓											5	
Carya ovata																						
Celtis occidentalis																						
Crataegus spp.						✓																
Fraxinus americana						✓															5	
Fraxinus nigra																						
Fraxinus pennsylvanica																						
Fraxinus lanceolata																						
Juglans cinerea																						
Juglans nigra																						
Juniperus communis																						
var. depressa																						
Juniperus virginiana																						
Larix laricina																						
Ostrya virginiana											✓										5	
Pinus Banksiana																						
Pinus resinosa																						
Pinus Strobus								✓													5	
Populus grandidentata																						
Populus tremuloides																						
Prunus pensylvanica																						
Prunus serotina						✓				✓	✓	✓					✓				20	
Prunus virginiana	✓							✓		✓								✓			15	
Quercus alba										✓											5	
Quercus ellipsoidalis																						
Quercus macrocarpa																						
Quercus rubra						✓				✓				✓	✓						20	
Quercus velutina																						
Quercus spn.																						
Robinia Pseudo-Acacia																						
Sorbus decora																						
Tilia americana															✓						5	
Tsuga canadensis																						
Ulmus americana						✓															5	
Ulmus fulva																						
Herbs & Shrubs:																						
Achillea millefolium																						
Actaea rubra																						
Adiantum pedatum																						

J.C.	140, 50	10 20	11	2
A.A.	2, 25, 245, 95, 25, 45, 60, 22, 145 18, 145, 35	 	11	18
A.R.	40, 40, 60, 25, 55, 60, 12, 140, 35 65, 350, 20, 50, 120, 18, 90, 75 14, 35, 30, 28	 		23
P.S.	70, 120, 140, 145, 120, 445, 315 85, 290, 225, 150, 150, 325	 		
G.R.	440, 280, 145, 145, 475 270, 235, 75, 80, 170, 185 105, 205, 195	 		
D.V.	20			
A.S.	40			
Q.R.	200, 180, 155, 190, 190	 		5
B.P.	80, 60			2
C.C.	12			
U.A.	110, 430, 90, 15, 145			4
F.A.	24			
T.A.	30			
P.G.	70, 60			

A IIII IIII IIII IIII 20

IIII IIII IIII IIII

P IIII IIII IIII IIII IIII 23

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HERBS:																							
Actaea pachypoda																							
Actaea rubra	✓																						1
Adenocaulon bicolor																							
Adiantum pedatum	✓																						1
Agrimonia gryposepala																							
Allium tricoccum																							
Alnus incana																							
Alnus rugosa																							
Amphicarpa bracteata	✓																						1
Anemone canadensis																							
Anemone cylindrica																							
Anemone quinquefolia	✓																						1
Antennaria sp.																							
Apocynum androsaemifolium																							
Apocynum cannabinum																							
Aquilegia canadensis																							
Aralia hispida																							
Aralia nudicaulis	✓				✓	✓	✓	✓		✓	✓												6 30
Aralia racemosa	✓																						1
Arctostaphylos uva-ursi	✓																						1
Arisaema atrorubens	✓																						
Asarum canadense																							
Asclepias exaltata																							
Aster cordifolius																							
Aster lateriflorus																							
Aster macrophyllus	✓			✓				✓		✓			✓				✓						5 25
Aster prenanthoides																							
Aster sagittifolius																							
Aster shortii																							
Aster umbellatus																							
Athyrium filix-femina	✓																						1
Athyrium thelypteroides																							
Boehmeria cylindrica																							
Botrychium lanceolatum																							
Botrychium matricariaefolium																							
Botrychium virginianum	✓																						1
Brachyelytrum erectum	✓			✓							✓												2 10
Bromus purgans																							
Campanula americana																							
Campanula rotundifolia																							
Cardamine pensylvanica																							
Carex albursina																							
Carex pensylvanica																							
Carex plantaginea																							
Caulophyllum thalictroides																							
Ceanothus ovatus																							
Celastrus scandens	✓	✓																					1 5
Chimaphilia umbellata																							
Cicuta maculata	✓																						1
Circaea alpina																							
Circaea quadrisulcata	✓																						1

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3043

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Cirsium altissimum</i> sp.	✓																						1
<i>Claytonia caroliniana</i>																							
<i>Claytonia virginica</i>																							
<i>Clematis verticillaris</i>																							
<i>Clintonia borealis</i>	✓								✓														15
<i>Comandra richardsiana</i>																							
<i>Comptonia peregrina</i>																							
<i>Convolvulus spithameus</i>																							
<i>Coptis groenlandica</i>	✓																						1
<i>Corallorhiza maculata</i>																							
<i>Corallorhiza striata</i>																							
<i>Corallorhiza trifida</i>																							
<i>Coreopsis palmata</i>																							
<i>Cornus alternifolia</i>	✓																						1
<i>Cornus canadensis</i>																							
<i>Cornus foemina</i>	✓																						1
<i>Cornus rugosa</i>	✓									✓													15
<i>Corydalis</i> sp.										✓													
<i>Corylus americana</i>	✓				✓				✓	✓				✓									420
<i>Corylus cornuta</i>																							
<i>Cryptotaenia canadensis</i>	✓																						1
<i>Cynoglossum boreale</i>																							
<i>Cypripedium acaule</i>																							
<i>Cypripedium parviflorum</i>																							
<i>Cypripedium pubescens</i>																							
<i>Cystopteris fragilis</i>																							
<i>Danthonia spicata</i>																							
<i>Dentaria diphylla</i>																							
<i>Desmodium glutinosum</i>	✓																						1
<i>Desmodium nudiflorum</i>																							
<i>Dicentra canadensis</i>																							
<i>Dicentra cucullaria</i>																							
<i>Diervilla lonicera</i>	✓									✓	✓												210
<i>Dirca palustris</i>																							
<i>Dryopteris boottii</i>																							
<i>Dryopteris cristata</i>																							
<i>Dryopteris goldiana</i>																							
<i>Dryopteris disjuncta</i>																							
<i>Dryopteris phegopteris</i>																							
<i>Dryopteris spinulosa</i>																							
<i>Epifagus virginiana</i>																							
<i>Epigaea repens</i>																							
<i>Equisetum arvense</i>																							
<i>Equisetum hyemale</i>																							
<i>Equisetum sylvaticum</i>																							
<i>Erigeron philadelphicus</i>																							
<i>Erythronium albidum</i>																							
<i>Erythronium americanum</i>																							
<i>Eupatorium rugosum</i>																							
<i>Festuca obtusa</i>																							
<i>Fragaria virginiana</i>																							

Stand No. 3043

[illegible]

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Lycopodium annotinum																							
Lycopodium clavatum																							
Lycopodium complanatum																							
Lycopodium lucidulum																							
Lycopodium obscurum																							
Lycopodium tristachyum																							
Lycopus americanus																							
Lycopus uniflorus																							
Lysimachia ciliata																							
Lysimachia quadrifolia																							
Maianthemum canadense	✓		✓	✓					✓			✓	✓	✓		✓	✓		✓		✓	10	50
Malaxis unifolia																							
Medeola virginiana																							
Melampyrum lineare																							
Menispermum canadense																							
Milium effusum																							
Mitchella repens	✓												✓			✓						2	10
Mitella diphylla																							
Mitella nuda																							
Monarda fistulosa	✓	✓																				1	5
Moneses uniflora																							
Monotropa hypopithys																							
Monotropa uniflora	✓																						1
Nemopanthus mucronata																							
Onoclea sensibilis	✓																						1
Orchis spectabilis																							
Oryzopsis asperifolia																							
Oryzopsis racemosa																							
Osmorhiza claytoni	✓	✓										✓								✓	✓	4	20
Osmunda claytoniana	✓				✓		✓			✓	✓							✓	✓	✓	✓	7	35
Osmunda cinnamomea																							
Osmunda regalis	✓		✓				✓															2	10
Oxalis montana																							
Panax quinquefolius																							
Panax trifolius																							
Panicum latifolium																							
Parietaria pensylvanica																							
Parthenocissus inserta	✓																		✓		✓	2	10
Pedicularis lanceolata																							
Phlox divaricata																							
Phlox pilosa																							
Phyrma leptostachya	✓																						1
Pilea pumila																							
Podophyllum peltatum																							
Polemonium reptans																							
Polygala paucifolia																							
Polygonatum canaliculatu	✓																						1
Polygonatum pubescens																							
Polypodium virginianum																							
Potentilla arguta																							
Potentilla simplex	✓																						1

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3043

[illegible]

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3043

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Trientalis borealis</i>	✓																						1
<i>Trillium cernuum</i>												✓											
<i>Trillium grandiflorum</i>	✓											✓					✓						2 10
<i>Uvularia grandiflora</i>																							
<i>Uvularia sessilifolia</i>	✓		✓				✓	✓				✓	✓	✓	✓		✓						8 40
<i>Vaccinium angustifolium</i>	✓							✓															1 5
<i>Vaccinium myrtilloides</i>																							
<i>Veronicastrum virginicum</i>																							
<i>Viburnum acerifolium</i>	✓				✓			✓										✓	✓				4 20
<i>Viburnum rafinesquianum</i>	✓																						1
<i>Viburnum lentago</i>																							
<i>Viola adunca</i>																							
<i>Viola blanda</i>																							
<i>Viola canadensis</i>																							
<i>Viola conspersa</i>																							
<i>Viola cucullata</i>																							
<i>Viola pensylvanica</i>																							
<i>Viola incognita</i>	✓																						1
<i>Viola pallens</i>																							
<i>Viola pubescens</i>	✓																✓						1 5
<i>Viola renifolia</i>																							
<i>Vitis aestivalis</i>																							
<i>Vitis riparia</i>																							
<i>Waldsteinia fragarioides</i>																							
<i>Xanthoxylum americanum</i>	✓																						1
<i>Zizia aurea</i>																							
Additional species:																							
<i>Dioscorea villosa</i>	✓						✓																1 5
<i>Symplocarpus</i>	✓																						1

335
447

3043

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
✓ Acer rubrum			Fraxinus lance			Quercus ellips		
✓ Acer saccharum			✓ Juglans cinere			Quercus macroc.		
Acer spicatum			✓ Ostrya virgin.			✓ Quercus rubra		
✓ Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
✓ Betula papyrifera			✓ Pinus Strobus			✓ Tilia amer.		
✓ Carpinus carol.			✓ Populus grand.			✓ Tsuga canad.		
✓ Carya cordif.			✓ Populus trem.			✓ Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
✓ Crataegus sp.			✓ Prunus serotin			✓ Fraxinus nigra		
✓ Fraxinus amer.			✓ Prunus virgin.					

Distance:

Shrubs & Herbs			
Achillea millefolium	Euphorbia corol.	Polygonella artic.	
Agrimonia gryposepala	✓ Fragaria spp.	Polypodium virg.	
Agropyron trachycaulon	Galium boreale	✓ Potentilla simplex	
var. glaucum	✓ Galium triflorum	✓ Prenanthes alba	
Alnus rugosa	Gaultheria procum.	✓ Pteridium aquilinum	
Amorpha canescens	Gaylussacia baccata	var. latiusculum	
✓ Amphicarpa bracteata	✓ Geranium maculatum	✓ Pyrola elliptica	
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia	
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda	
Anemone virginiana	var. micradenium	Ranunculus fasc.	
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.	
Apocynum androsaem.	Helianthemum can.	Rhus glabra	
Aquilegia canadensis	✓ Helianthus occident. sp.	✓ Rhus radicans	
Arabis lyrata	Heliopsis scabra	Rhus typhina	
✓ Aralia nudicaulis	✓ Hepatica americana	✓ Ribes americanum?	
Arctostaphylos Uva	Heuchera Richardsonii	✓ Rosa spp.	
Aronia melanocarpa	Hieracium canadense	✓ Rubus-blackberry	
Artemisia caudata	Hieracium scabrum	✓ Rubus-deadberry	
Aster azureus	Houstonia longifolia	✓ Rubus-raspberry	
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta	
var. pendulus	✓ Hystrix patula	Salix discolor	
Aster laevis	Juncus Greenii	var. latifolia	
✓ Aster microphyllus	Koeleria crisata	Sambucus canadensis	
Aster ptarmicoides	Krigia biflora	✓ Sanicula gregaria	
Aster sagittifolius	✓ Lactuca canadensis?	Sisyrinchium camp.	
✓ Athyrium angustatum	Lathyrus ochroleucus	✓ Smilacina racemosa	
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata	
Bromus ciliatus	Lithospermum canes.	✓ Smilax ecirrhata	
var. intonsus	Lithospermum croceum	Smilax herbacea	
Calamagrostis	Lupinus perennis	✓ Smilax hispida	
Carex Crawfordii	Lycopodium complan.	Solidago canadensis	
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.	
Carex siccata	Lysimachia quadrif.	Solidago juncea	
Ceanothus ovatus	✓ Maianthemum can.	Solidago nemoralis	
✓ Celastrus scandens	✓ Mitchella repens	Solidago speciosa	
Chimaphila umbellata	✓ Monarda fistulosa	var. angustata	
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana	
Comandra umbellata	✓ Onoclea sensibilis	Tradescantia ohien.	
Convolvulus spitham.	✓ Osmorhiza Claytoni	✓ Trientalis borealis	
Coreopsis palmata	✓ Osmunda Claytoniana	Uvularia grandiflora	
✓ Cornus alternifolia	✓ Osmunda regalis	✓ Uvularia sessilif.	
Cornus canadensis	Oxalis violacea	✓ Vaccinium angustif.	
✓ Cornus femina	Panicum implicatum	Vaccinium canadense	
Cornus stolonifera	✓ Parthenocissus vitacea	Vicia americana	
✓ Corylus americana	Pedicularis lanc.	Vicia villosa	
Cypripedium acaule	Phlox pilosa	Viola canadensis	
✓ Desmodium acuminatum	✓ Phryma leptostachya	Viola cucullata	
Desmodium canadense	Physalis virginiana	Viola pedata	
✓ Diervilla lonicera	Poa compressa	var. lineariloba	
Dryopteris sp. n.	Polygala polygama	Biola sagittata	
✓ Eriogonum repens	Polygonatum biflorum	Vitis rotundifolia	
✓ Eriogonum repens		✓ Zizia aurea	

Polygala communis

II Pine Wood Survey

Point Record

Stand No.:

- | | | |
|---------------------------------|-------------------------------|--------------------------------|
| ✓ <i>Actaea rubra</i> | <i>Erysimum cheir.</i> | <i>Physocarpus opulif.</i> |
| ✓ <i>Adiantum pedatum</i> | <i>Erythronium albidum</i> | <i>Podophyllum peltatum</i> |
| <i>Aletris farinosa</i> | <i>Eupatorium perf.</i> | <i>Polemonium reptans</i> |
| <i>Anemone canadensis</i> | <i>Galium aparine</i> | <i>Polygala sanguinea</i> |
| <i>Anemone cylindrica</i> | <i>Galium asperellum</i> | <i>Polygonatum pubescens</i> |
| ✓ <i>Anemone quinquefolia</i> | <i>Galium Claytoni</i> | <i>Potentilla arguta</i> |
| <i>Apocynum cannabinum</i> | <i>Galium concinnum</i> | <i>Prunella vulgaris</i> |
| <i>Arabis canadensis</i> | <i>Galium lanceolatum</i> | <i>Pteretis nodulosa</i> |
| <i>Aralia hispida</i> | <i>Gerardia Gattingeri</i> | <i>Pycnanthemum virg.</i> |
| <i>Arenaria lateriflora</i> | <i>Habenaria psycodes</i> | <i>Ranunculus abortivus</i> |
| ✓ <i>Arisaema strobiliferum</i> | ✓ <i>Hamamelis virginiana</i> | <i>Ranunculus acris</i> |
| <i>Asarum canadense</i> | <i>Helianthemum Bick.</i> | <i>Ranunculus pensylv.</i> |
| <i>Asclepias amplexic.</i> | <i>Hepatica acutiloba</i> | <i>Rhus copallina</i> |
| <i>Asclepias phytolac.</i> | <i>Hydrophyllum virg.</i> | <i>Rhus glabra</i> |
| <i>Asclepias syriaca</i> | <i>Hypericum Kalmianum</i> | var. <i>borealis</i> |
| <i>Asclepias tuberosa</i> | ✓ <i>Ilex verticillata</i> | <i>Rhus Vernix</i> |
| <i>Aster caeruleus</i> | ✓ <i>Impatiens biflora</i> | ✓ <i>Ribes cynosbati</i> |
| <i>Aster puniceus</i> | <i>Iris virginica</i> | <i>Ribes hirtellum</i> |
| <i>Aster sericeus</i> | var. <i>Shrevei</i> | <i>Ribes missouriense</i> |
| <i>Baptisia leucantha</i> | <i>Isopyrum biternatum</i> | <i>Rudbeckia laciniata</i> |
| <i>Baptisia leucophaea</i> | <i>Juncus tenuis</i> | ✓ <i>Sambucus pubens</i> |
| <i>Boehmeria cylindrica</i> | <i>Laportea canadensis</i> | <i>Sanguinaria can.</i> |
| ✓ <i>Botrychium virginianum</i> | <i>Lechea intermedia</i> | <i>Sanicula marilandica</i> |
| <i>Promus Kalmii</i> | <i>Ledum groenlandicum</i> | <i>Scutellaria epilob.</i> |
| <i>Campanula aparinoides</i> | <i>Lespedeza capitata</i> | <i>Scutellaria parvula</i> |
| <i>Campanula rotundif.</i> | <i>Liatris aspera</i> | var. <i>Leonardi</i> |
| <i>Ceanothus americanus</i> | <i>Liatris cylindrica</i> | <i>Silphium perfoliatum</i> |
| <i>Chamaedaphne caly.</i> | <i>Liatris pycnostachya</i> | <i>Solidago castrensis</i> |
| ✓ <i>Circaea latifolia</i> | <i>Lilium michiganense</i> | <i>Solidago graminifolia</i> |
| <i>Claytonia virginica</i> | <i>Linaria canadensis</i> | var. <i>remota</i> |
| ✓ <i>Clintonia borealis</i> | <i>Liparis lilifolia</i> | <i>Solidago hispida</i> |
| <i>Conopholis americana</i> | <i>Lobelia cardinalis</i> | <i>Solidago missouriensis</i> |
| ✓ <i>Coptis trifolia</i> | <i>Lobelia inflata</i> | var. <i>glaberrima</i> |
| ✓ <i>Cornus rugosa</i> | <i>Lobelia spicata</i> | <i>Specularia perfoliata</i> |
| <i>Corydalis aurea</i> | ✓ <i>Lonicera dioica</i> | <i>Spiraea alba</i> |
| <i>Corydalis semperv.</i> | <i>Lonicera oblongif.</i> | <i>Spiraea tomentosa</i> |
| <i>Corylus cornuta</i> | <i>Lonicera prolifera</i> | var. <i>rosea</i> |
| ✓ <i>Cryptotaenia can.</i> | <i>Lychnis alba</i> | <i>Sporobolus crypt.</i> |
| <i>Cystopteris fragilis</i> | <i>Lycopodium clavatum</i> | <i>Steironema lanc.</i> |
| <i>Cyperus filiculmis</i> | <i>Lycopus americana</i> | <i>Stellaria media</i> |
| <i>Cyperus Schweinitzii</i> | <i>Lysimachia terrestris</i> | <i>Symphoricarpos albus</i> |
| <i>Danthonia spicata</i> | <i>Menispermum can.</i> | <i>Taenidia integ.</i> |
| <i>Dentaria laciniata</i> | <i>Mitella diphylla</i> | ✓ <i>Thalictrum dioicum</i> |
| <i>Desmodium nudiflorum</i> | <i>Monarda punctata</i> | ✓ <i>Trillium grandiflorum</i> |
| <i>Dicentra canadensis</i> | ✓ <i>Monotropa uniflora</i> | <i>Verbena stricta</i> |
| ✓ <i>Dioscorea villosa</i> | <i>Oenothera biennis</i> | <i>Veronica americana</i> |
| <i>Dodecatheon Meadia</i> | <i>Oenothera muricata</i> | <i>Veronicastrum virg.</i> |
| <i>Dryopteris cristata</i> | <i>Optunia Rafinesquii</i> | ✓ <i>Viburnum acerif.</i> |
| <i>Dryopteris Linnaeana</i> | <i>Orobancha uniflora</i> | ✓ <i>Viburnum affine</i> |
| <i>Dryopteris marg.</i> | <i>Osmunda cinnamomea</i> | <i>Viburnum Lentago</i> |
| <i>Dryopteris Pheg.</i> | <i>Oxypolis rigidier</i> | <i>Viola eriocarpa</i> |
| <i>Equisetum arvense</i> | var. <i>longifolia</i> | ✓ <i>Viola incognita</i> |
| <i>Equisetum hyemale</i> | <i>Pedicularis canadensis</i> | <i>Viola pallens</i> |
| var. <i>affine</i> | <i>Pellaea glabella</i> | ✓ <i>Viola pubescens</i> |
| <i>Erechtites hier.</i> | <i>Pentstemon gracilis</i> | <i>Woodsia ilvensis</i> |
| | var. <i>wisconsinensis</i> | |

✓ *Cirsium* sp✓ *Stachys* sp✓ *Brachyotum*
var. *virgata*✓ *Impatiens* sp
var. *racemosa*

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		225
Acer rubrum			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere	140		Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance:

27 ft

Shrubs & Herbs

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-deadberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster microphyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex penxylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohio.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypripedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris spm.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis coarctata
Erigeron ramosus		Zanthoxylum amer.

Ribes cynosbati

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	40		Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	70		Tilia amer.		
Campinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus scrocin					
Fraxinus amer.			Prunus virgin.					

Distance: 18 ft.

Shrubs & Herbs		
Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	✓ Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	✓ Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla Lonicera	Poa compressa	var. lineariloba
Dryopteris spin.	Polygala polygama	Viola sagittata
Erigeron repens	Polygonatum biflorum	Vitis coestivalis
Erigeron ramosus		Zanoxylum amer.

Tree	BA	S	Tree	BA	S	Tree	BA	S	
Acer negundo			Fraxinus penn.			Quercus alba	245		3
Acer rubrum	40		Fraxinus lance			Quercus ellips			
Acer saccharum			Juglans cinere			Quercus macroc.			
Acer spicatum			Ostrya virgin.			Quercus rubra			
Amelanchier sp.			Pinus Banksian			Quercus sp.			
Betula lutea			Pinus resinosa			Sorbus decora			
Betula papyrifera			Pinus Strobus			Tilia amer.			
Carpinus carol.			Populus grand.			Tsuga canad.			
Carya cordif.			Populus trem.			Ulmus amer.			
Carya ovata			Prunus pensyl.			Ulmus fulva			
Crataegus sp.			Prunus scrocin						
Fraxinus amer.			Prunus virgin.						

			Shrubs & Herbs	Distance:	
Achillea millefolium			Euphorbia corol.		Polygonella artic.
Agrimonia gryposepala			Fragaria spp.		Polypodium virg.
Agropyron trachycaulon			Galium boreale		Potentilla simplex
var. glaucum			Galium triflorum		Prenanthes alba
Alnus rugosa			Gaultheria procum.		✓ Pteridium aquilinum
Amorpha canescens			Gaylussacia baccata		var. latiusculum
Amphicarpa bracteata			Geranium maculatum		Pyrola elliptica
Andropogon Gerardi			Geum canadense		Pyrola rotundifolia
Andropogon scoparius			Gnaphalium obtusif.		Pyrola secunda
Anemone virginiana			var. micradenium		Ranunculus fasc.
Antennaria plantag.			Goodyera pubescens		Ranunculus rhomboid.
Apocynum androsaem.			Helianthemum can.		Rhus glabra
Aquilegia canadensis			Helianthus occident.		Rhus radicans
Arabis lyrata			Heliopsis scabra		Rhus typhina
Aralia nudicaulis			Hepatica americana		Ribes americanum
Arctostaphylos Uva			Heuchera Richardsonii		Rosa spp.
Aronia melanocarpa			Hieracium canadense		Rubus-blackberry
Artemisia caudata			Hieracium scabrum		Rubus-dewberry
Aster azureus			Houstonia longifolia		Rubus-raspberry
Aster lateriflorus			Hypoxis hirsuta		Rudbeckia hirta
var. pendulus			Hystrix patula		Salix discolor
Aster laevis			Juncus Greenii		var. latifolia
✓ Aster microrhyllus			Koeleria crisata		Sambucus canadensis
Aster ptarmicoides			Krigia biflora		Sanicula gregaria
Aster sagittifolius			Lactuca canadensis		Sisyrinchium camp.
Athyrium angustatum			Lathyrus ochroleucus		Smilacina racemosa
Aureolaris pedic.			Lathyrus venosus		Smilacina stellata
Bromus ciliatus			Lithospermum canes.		Smilax ecirrhata
var. intonsus			Lithospermum croceum		Smilax herbacea
Calamagrostis			Lupinus perennis		✓ Smilax hispida
Carex Crawfordii			Lycopodium complan.		Solidago canadensis
Carex pennsylvanica			Lycopodium obscurum		var. gilvocan.
Carex siccata			Lysimachia quadrif.		Solidago juncea
Ceanothus ovatus			✓ Maianthemum can.		Solidago nemoralis
Celastrus scandens			Mitchella repens		Solidago speciosa
Chimaphila umbellata			Monarda fistulosa		var. angustata
Clematis virginiana			Myrica asplenifolia		Tephrosia virginiana
Comandra umbellata			Onoclea sensibilis		Tradescantia ohien.
Convolvulus spitham.			Osmorhiza Claytoni		Trientalis borealis
Coreopsis palmata			Osmunda Claytoniana		Uvularia grandiflora
Cornus alternifolia			Osmunda regalis		✓ Uvularia sessilif.
Cornus canadensis			Oxalis violacea		Vaccinium angustif.
Cornus femina			Panicum implicatum		Vaccinium canadense
Cornus stolonifera			Parthenocissus vitacea		Vicia americana
Corylus americana			Pedicularis lanc.		Vicia villosa
Cypripedium acaule			Phlox pilosa		Viola canadensis
Desmodium acuminatum			Phryma leptostachya		Viola cucullata
Desmodium canadense			Physalis virginiana		Viola pedata
Diervilla lonicera			Poa compressa		var. lineariloba
Dryopteris spin.			Polygala polygama		Viola sagittata
Eriogonum repens			Polygonatum biflorum		Vitis positivallis
Eriogonum ramosus					Zanthoxylum amer.

✓ Brachyglottis

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba	95	
Acer rubrum			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	120		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance: 23 ft

Shrubs & Herbs

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-deadberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohioen.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris sp.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis rotundifolia
Eriogonum repens		Zanthoxylum amer.

Viburnum acerifolium

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	60		Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	140		Tilia amer.		
Campinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance: 19 ft

Shrubs & Herbs

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster microphyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohio.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris sp.	Polygala polygama	Viola sagittata
Elymus repens	Polygonatum biflorum	Vitis rotundifolia
Eriogonum racemosus		Zanthoxylum amer.

✓ Sleyvester

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
✓Acer rubrum	25	55	Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
✓Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crotaegus sp.			✓Prunus scrocin					
Fraxinus amer.			Prunus virgin.					

Shrubs & Herbs

Distance:

17 ft

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia grynosepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amygdala canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
✓Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	✓Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	✓Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypripedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris spm.	Polygala polygama	Viola sagittata
✓Eriogonum repens	Polygonatum biflorum	Vitis rotundifolia
Erigeron annuus		Zanthoxylum amer.

✓Discorea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba	25	
Acer rubrum			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	145		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus scrocin					
Fraxinus amer.			Prunus virgin.					

Shrubs & Herbs

Distance:

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dearberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster microphyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex penxylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris spm.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis coarctata
Eriogonum xanthosus		Zanthoxylum amer.

Vib. acerifol

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	60		Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	120		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance:

Achillea millefolium
 Agrimonia gryposepala
 Agropyron trachycaulon
 var. glaucum
 Alnus rugosa
 Amorpha canescens
 Amphicarpa bracteata
 Andropogon Gerardi
 Andropogon scoparius
 Anemone virginiana
 Antennaria plantag.
 Apocynum androsaem.
 Aquilegia canadensis
 Arabis lyrata
 Aralia nudicaulis
 Arctostaphylos Uva
 Aronia melanocarpa
 Artemisia caudata
 Aster azureus
 Aster lateriflorus
 var. pendulus
 Aster laevis
 Aster microrhyllus
 Aster ptarmicoides
 Aster sagittifolius
 Athyrium angustatum
 Aureolaris pedic.
 Bromus ciliatus
 var. intonsus
 Calamagrostis
 Carex Crawfordii
 Carex penxylvanica
 Carex siccata
 Ceanothus ovatus
 Celastrus scandens
 Chimaphila umbellata
 Clematis virginiana
 Comandra umbellata
 Convolvulus spitham.
 Coreopsis palmata
 Cornus alternifolia
 Cornus canadensis
 Cornus femina
 Cornus stolonifera
 Corylus americana
 Cypropedium acaule
 Desmodium acuminatum
 Desmodium canadense
 Diervilla lonicera
 Dryopteris spm.
 Eriogonum repens
 Eriogonum ramosus

Shrubs & Herbs

Euphorbia corol.
 Fragaria spp.
 Galium boreale
 Galium triflorum
 Gaultheria procum.
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusif.
 var. micradenium
 Goodyera pubescens
 Helianthemum can.
 Helianthus occident.
 Heliopsis scabra
 Hepatica americana
 Heuchera Richardsonii
 Hieracium canadense
 Hieracium scabrum
 Houstonia longifolia
 Hypoxis hirsuta
 Hystrix patula
 Juncus Greenii
 Koeleria crisata
 Krigia biflora
 Lactuca canadensis
 Lathyrus ochroleucus
 Lathyrus venosus
 Lithospermum canes.
 Lithospermum croceum
 Lupinus perennis
 Lycopodium complan.
 Lycopodium obscurum
 Lysimachia quadrif.
 Maianthemum can.
 Mitchellia repens
 Monarda fistulosa
 Myrica asplenifolia
 Onoclea sensibilis
 Osmorhiza Claytoni
 Osmunda Claytoniana
 Osmunda regalis
 Oxalis violacea
 Panicum implicatum
 Parthenocissus vitacea
 Pedicularis lanc.
 Phlox pilosa
 Phryma leptostachya
 Physalis virginiana
 Poea compressa
 Polygala polygama
 Polygonatum biflorum

Polygonella artic.
 Polypodium virg.
 Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 var. latiusculum
 Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus fasc.
 Ranunculus rhomboid.
 Rhus glabra
 Rhus radicans
 Rhus typhina
 Ribes americanum
 Rosa spp.
 Rubus-blackberry
 Rubus-dewberry
 Rubus-raspberry
 Rudbeckia hirta
 Salix discolor
 var. latifolia
 Sambucus canadensis
 Sanicula gregaria
 Sisyrinchium camp.
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Solidago canadensis
 var. gilvocan.
 Solidago juncea
 Solidago nemoralis
 Solidago speciosa
 var. angustata
 Tephrosia virginiana
 Tradescantia ohien.
 Trientalis borealis
 Uvularia grandiflora
 Uvularia sessilif.
 Vaccinium angustif.
 Vaccinium canadense
 Vicia americana
 Vicia villosa
 Viola canadensis
 Viola cucullata
 Viola pedata
 var. lineariloba
 Viola sagittata
 Vitis rotundifolia
 Zanthoxylum amer.

✓ Clintonia borealis

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lance			Quercus ellips	45	
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra	200	
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus scrocin					
Fraxinus amer.			Prunus virgin.					

Shrubs & Herbs

Distance: 20 ft

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypripedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris spin.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum officinum	Vitis coarctata
Eriogonum tomentosum		Zanthoxylum amer.

Cornus rugosa

Panicum

Viola

Tree	BA	S	Tree	BA	S	Tree	BA	S	
Acer negundo			Fraxinus penn.			Quercus alba			10
Acer rubrum			Fraxinus lance			Quercus ellips			
✓Acer saccharum			Juglans cinere			Quercus macroc.			
Acer spicatum			Ostrya virgin.			Quercus rubra			
Amelanchier sp.			Pinus Banksian			Quercus sp.			
Betula lutea			Pinus resinosa			Sorbus decora			
Betula papyrifera			Pinus Strobus	445		Tilia amer.			
Carpinus carol.			Populus grand.			Tsuga canad.			
✓Carya cordif.			Populus trem.			Ulmus amer.			
Carya ovata			Prunus pensyl.			Ulmus fulva			
Crataegus sp.			✓Prunus serotin						
Fraxinus amer.			Prunus virgin.						

Shrubs & Herbs

Distance: 28 ft

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Audone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
✓Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster microphyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	✓Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Oncoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	✓Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
✓Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris sp.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis rotundifolia
Eriogonum ramosus		Zanthoxylum amer.

✓Brachyotum

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	12		Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	315		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance:

Shrubs & Herbs			Distance:
Achillea millefolium	Euphorbia corol.	Polygonella artic.	
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.	
Agropyron trachycaulon	Galium boreale	Potentilla simplex	
var. glaucum	Galium triflorum	Prenanthes alba	
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum	
Amorpha canescens	Gaylussacia baccata	var. latiusculum	
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica	
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia	
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda	
Anemone virginiana	var. micradenium	Ranunculus fasc.	
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.	
Apocynum androsaem.	Helianthemum can.	Rhus glabra	
Aquilegia canadensis	Helianthus occident.	Rhus radicans	
Arabis lyrata	Heliopsis scabra	Rhus typhina	
Aralia nudicaulis	Hepatica americana	Ribes americanum	
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.	
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry	
Artemisia caudata	Hieracium scabrum	Rubus-dewberry	
Aster azureus	Houstonia longifolia	Rubus-raspberry	
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta	
var. pendulus	Hystrix patula	Salix discolor	
Aster laevis	Juncus Greenii	var. latifolia	
Aster microphyllus	Koeleria crisata	Sambucus canadensis	
Aster ptarmicoides	Krigia biflora	Sanicula gregaria	
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.	
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa	
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata	
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata	
var. intonsus	Lithospermum croceum	Smilax herbacea	
Calamagrostis	Lupinus perennis	Smilax hispida	
Carex Crawfordii	Lycopodium complan.	Solidago canadensis	
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.	
Carex siccata	Lysimachia quadrif.	Solidago juncea	
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis	
Celastrus scandens	Mitchella repens	Solidago speciosa	
Chimaphila umbellata	Monarda fistulosa	var. angustata	
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana	
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.	
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis	
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora	
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.	
Cornus canadensis	Oxalis violacea	Vaccinium angustif.	
Cornus femina	Panicum implicatum	Vaccinium canadense	
Cornus stolonifera	Parthenocissus vitacea	Vicia americana	
Corylus americana	Pedicularis lanc.	Vicia villosa	
Cypripedium acaule	Phlox pilosa	Viola canadensis	
Desmodium acuminatum	Phryma leptostachya	Viola cucullata	
Desmodium canadense	Physalis virginiana	Viola pedata	
Diervilla lonicera	Poa compressa	var. lineariloba	
Dryopteris spin.	Polygala polygama	Viola sagittata	
Eriogonum repens	Polygonatum biflorum	Vitis coarctata	
Eriogonum repens		Zanthoxylum amer.	

Sill. grandiflora

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum — 140			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus — 85			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus scrota					
Fraxinus amer.			Prunus virgin.					

Distance:

Shrubs & Herbs			Distance:
Achillea millefolium	Euphorbia corol.	Polygonella artic.	
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.	
Agropyron trachycaulon	Galium boreale	Potentilla simplex	
var. glaucum	Galium triflorum	Prenanthes alba	
Alnus rugosa	Gaultheria procum.	✓ Pteridium aquilinum	
Amorpha canescens	Gaylussacia baccata	var. latiusculum	
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica	
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia	
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda	
Anemone virginiana	var. micradenium	Ranunculus fasc.	
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.	
Apocynum androsaem.	Helianthemum can.	Rhus glabra	
Aquilegia canadensis	Helianthus occident.	Rhus radicans	
Arabis lyrata	Heliopsis scabra	Rhus typhina	
Aralia nudicaulis	Hepatica americana	✓ Ribes americanum	
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.	
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry	
Artemisia caudata	Hieracium scabrum	Rubus-dewberry	
Aster azureus	Houstonia longifolia	Rubus-raspberry	
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta	
var. pendulus	Hystrix patula	Salix discolor	
Aster laevis	Juncus Greenii	var. latifolia	
✓ Aster macrophyllus	Koeleria crisata	Sambucus canadensis	
Aster ptarmicoides	Krigia biflora	Sanicula gregaria	
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.	
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa	
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata	
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata	
var. intonsus	Lithospermum croceum	Smilax herbacea	
Calamagrostis	Lupinus perennis	Smilax hispida	
Carex Crawfordii	Lycopodium complan.	Solidago canadensis	
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.	
Carex siccata	Lysimachia quadrif.	Solidago juncea	
Ceanothus ovatus	✓ Maianthemum can.	Solidago nemoralis	
Celastrus scandens	✓ Mitchellia repens	Solidago speciosa	
Chimaphila umbellata	Monarda fistulosa	var. angustata	
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana	
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.	
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis	
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora	
Cornus alternifolia	Osmunda regalis	✓ Uvularia sessilif.	
Cornus canadensis	Oxalis violacea	Vaccinium angustif.	
Cornus femina	Panicum implicatum	Vaccinium canadense	
Cornus stolonifera	Parthenocissus vitacea	Vicia americana	
Corylus americana	Pedicularis lanc.	Vicia villosa	
Cypripedium acaule	Phlox pilosa	Viola canadensis	
Desmodium acuminatum	Phryma leptostachya	Viola cucullata	
Desmodium canadense	Physalis virginiana	Viola pedata	
Diervilla lonicera	Poa compressa	var. lineariloba	
Dryopteris spm.	Polygala polygama	Viola sagittata	
Erigeron repens	Polygonatum biflorum	Vitis pestivalis	
Erigeron annuus		Zanthoxylum amer.	

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	35		Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.	20		Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance:

Shrubs & Herbs		
Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypripedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris spin.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis rotundifolia
Eriogonum repens		Zanthoxylum amer.

Shrub linca

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
✓ Acer rubrum	65	350	Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			✓ Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Shrubs & Herbs			Distance:
Achillea millefolium	Euphorbia corol.	Polygonella artic.	
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.	
Agropyron trachycaulon	Galium boreale	Potentilla simplex	
var. glaucum	Galium triflorum	Prenanthes alba	
Alnus rugosa	Gaulthoria procum.	✓ Pteridium aquilinum	
Amorpha canescens	Gaylussacia baccata	var. latiusculum	
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica	
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia	
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda	
Anemone virginiana	var. micradenium	Ranunculus fasc.	
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.	
Apocynum androsaem.	Helianthemum can.	Rhus glabra	
Aquilegia canadensis	Helianthus occident.	Rhus radicans	
Arabis lyrata	Heliopsis scabra	Rhus typhina	
Aralia nudicaulis	Hepatica americana	Ribes americanum	
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.	
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry	
Artemisia caudata	Hieracium scabrum	Rubus-dewberry	
Aster azureus	Houstonia longifolia	Rubus-raspberry	
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta	
var. pendulus	Hystrix patula	Salix discolor	
Aster laevis	Juncus Greenii	var. latifolia	
Aster macrophyllus	Koeleria crisata	Sambucus canadensis	
Aster ptarmicoides	Krigia biflora	Sanicula gregaria	
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.	
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa	
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata	
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata	
var. intonsus	Lithospermum croceum	Smilax herbacea	
Calamagrostis	Lupinus perennis	Smilax hispida	
Carex Crawfordii	Lycopodium complan.	Solidago canadensis	
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.	
Carex siccata	Lysimachia quadrif.	Solidago juncea	
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis	
Celastrus scandens	Mitchella repens	Solidago speciosa	
Chimaphila umbellata	Monarda fistulosa	var. angustata	
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana	
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.	
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis	
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora	
Cornus alternifolia	Osmunda regalis	✓ Uvularia sessilif.	
Cornus canadensis	Oxalis violacea	Vaccinium angustif.	
Cornus femina	Panicum implicatum	Vaccinium canadense	
Cornus stolonifera	Parthenocissus vitacea	Vicia americana	
Corylus americana	Pedicularis lanc.	Vicia villosa	
Cypripedium acaule	Phlox pilosa	Viola canadensis	
Desmodium acuminatum	Phryma leptostachya	Viola cucullata	
Desmodium canadense	Physalis virginiana	Viola pedata	
Diervilla lonicera	Poa compressa	var. lineariloba	
Dryopteris spm.	Polygala polygama	Viola sagittata	
Eriogonum repens	Polygonatum biflorum	Vitis coarctata	
Eriogonum repens		Zanthoxylum amer.	

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus - 290			Tilia amer.		
Campinus carol.			Populus grand.	226		Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus scroton					
Fraxinus amer.			Prunus virgin.					

Shrubs & Herbs

Distance: 20.5 ft

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	✓ Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	✓ Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster microphyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	✓ Maianthemum can.	Solidago nemoralis
Celastrus scandens	✓ Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohioen.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris spin.	Polygala polygama	Viola sagittata
Erigeron repens	Polygonatum biflorum	Vitis aestivalis
Erigeron ramosus		Zanthoxylum amer.

Tree	: BA	: S	Tree	: BA	: S	Tree	: BA	: S	
Acer negundo			Fraxinus penn.			Quercus alba			16
Acer rubrum			Fraxinus lance			Quercus ellips			
Acer saccharum			Juglans cinere			Quercus macroc.			
Acer spicatum			Ostrya virgin.			Quercus rubra			
Amelanchier sp.			Pinus Banksian			Quercus sp.			
Betula lutea			Pinus resinosa			Sorbus decora			
Betula papyrifera			Pinus Strobus	150	150	Tilia amer.			
Carpinus carol.			Populus grand.			Tsuga canad.			
Carya cordif.			Populus trem.			Ulmus amer.			
Carya ovata			Prunus pensyl.			Ulmus fulva			
Crataegus sp.			Prunus serotin						
Fraxinus amer.			Prunus virgin.						

Shrubs & Herbs

Distance:

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster microphyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Oncoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypropedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla lonicera	Poa compressa	var. lineariloba
Dryopteris sp.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis rotundifolia
Eritrichon ramosus		Zanthoxylum amer.

Viburnum

Succ. granulifer

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
✓ Acer rubrum — 20 — 1			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus — 325			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			✓ Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Distance:

Shrubs & Herbs

Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex pennsylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	✓ Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypripedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla Lonicera	Poa compressa	var. lineariloba
Dryopteris spin.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis cestralis
Eriogonum repens		Zanoxylum amer.

Vib. acerifol

Tree	BA	S	Tree	BA	S	Tree	BA	S	
Acer negundo			Fraxinus penn.			Quercus alba			18
Acer rubrum	50		Fraxinus lance			Quercus ellips			
Acer saccharum			Juglans cinere			Quercus macroc.			
Acer spicatum			Ostrya virgin.			Quercus rubra			
Amelanchier sp.			Pinus Banksian			Quercus sp.			
Betula lutea			Pinus resinosa			Sorbus decora			
Betula papyrifera	80		Pinus Strobus			Tilia amer.			
Carpinus carol.			Populus grand.			Tsuga canad.			
Carya cordif.			Populus trem.			Ulmus amer.			
Carya ovata			Prunus pensyl.			Ulmus fulva			
Crataegus sp.			Prunus scrocin						
Fraxinus amer.			Prunus virgin.						

Distance:

Shrubs & Herbs		
Achillea millefolium	Euphorbia corol.	Polygonella artic.
Agrimonia gryposepala	Fragaria spp.	Polypodium virg.
Agropyron trachycaulon	Galium boreale	Potentilla simplex
var. glaucum	Galium triflorum	Prenanthes alba
Alnus rugosa	Gaultheria procum.	Pteridium aquilinum
Amorpha canescens	Gaylussacia baccata	var. latiusculum
Amphicarpa bracteata	Geranium maculatum	Pyrola elliptica
Andropogon Gerardi	Geum canadense	Pyrola rotundifolia
Andropogon scoparius	Gnaphalium obtusif.	Pyrola secunda
Anemone virginiana	var. micradenium	Ranunculus fasc.
Antennaria plantag.	Goodyera pubescens	Ranunculus rhomboid.
Apocynum androsaem.	Helianthemum can.	Rhus glabra
Aquilegia canadensis	Helianthus occident.	Rhus radicans
Arabis lyrata	Heliopsis scabra	Rhus typhina
Aralia nudicaulis	Hepatica americana	Ribes americanum
Arctostaphylos Uva	Heuchera Richardsonii	Rosa spp.
Aronia melanocarpa	Hieracium canadense	Rubus-blackberry
Artemisia caudata	Hieracium scabrum	Rubus-dewberry
Aster azureus	Houstonia longifolia	Rubus-raspberry
Aster lateriflorus	Hypoxis hirsuta	Rudbeckia hirta
var. pendulus	Hystrix patula	Salix discolor
Aster laevis	Juncus Greenii	var. latifolia
Aster macrophyllus	Koeleria crisata	Sambucus canadensis
Aster ptarmicoides	Krigia biflora	Sanicula gregaria
Aster sagittifolius	Lactuca canadensis	Sisyrinchium camp.
Athyrium angustatum	Lathyrus ochroleucus	Smilacina racemosa
Aureolaris pedic.	Lathyrus venosus	Smilacina stellata
Bromus ciliatus	Lithospermum canes.	Smilax ecirrhata
var. intonsus	Lithospermum croceum	Smilax herbacea
Calamagrostis	Lupinus perennis	Smilax hispida
Carex Crawfordii	Lycopodium complan.	Solidago canadensis
Carex penxylvanica	Lycopodium obscurum	var. gilvocan.
Carex siccata	Lysimachia quadrif.	Solidago juncea
Ceanothus ovatus	Maianthemum can.	Solidago nemoralis
Celastrus scandens	Mitchella repens	Solidago speciosa
Chimaphila umbellata	Monarda fistulosa	var. angustata
Clematis virginiana	Myrica asplenifolia	Tephrosia virginiana
Comandra umbellata	Onoclea sensibilis	Tradescantia ohien.
Convolvulus spitham.	Osmorhiza Claytoni	Trientalis borealis
Coreopsis palmata	Osmunda Claytoniana	Uvularia grandiflora
Cornus alternifolia	Osmunda regalis	Uvularia sessilif.
Cornus canadensis	Oxalis violacea	Vaccinium angustif.
Cornus femina	Panicum implicatum	Vaccinium canadense
Cornus stolonifera	Parthenocissus vitacea	Vicia americana
Corylus americana	Pedicularis lanc.	Vicia villosa
Cypripedium acaule	Phlox pilosa	Viola canadensis
Desmodium acuminatum	Phryma leptostachya	Viola cucullata
Desmodium canadense	Physalis virginiana	Viola pedata
Diervilla Lonicera	Poa compressa	var. lineariloba
Dryopteris sp.	Polygala polygama	Viola sagittata
Eriogonum repens	Polygonatum biflorum	Vitis coarctata
Eriogonum repens		Zanthoxylum amer.

✓ Hemerocallis

✓ Vib. acerifol

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	120	1	Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	440		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin					
Fraxinus amer.			Prunus virgin.					

Achillea millefolium
 Agrimonia gryposepala
 Agropyron trachycaulon
 var. glaucum
 Alnus rugosa
 Amorpha canescens
 Amphicarpa bracteata
 Andropogon Gerardi
 Andropogon scoparius
 Anemone virginiana
 Antennaria plantag.
 Apocynum androsaem.
 Aquilegia canadensis
 Arabis lyrata
 Aralia nudicaulis
 Arctostaphylos Uva
 Aronia melanocarpa
 Artemisia caudata
 Aster azureus
 Aster lateriflorus
 var. pendulus
 Aster laevis
 Aster microphyllus
 Aster ptarmicoides
 Aster sagittifolius
 Athyrium angustatum
 Aureolaris pedic.
 Bromus ciliatus
 var. intonsus
 Calamagrostis
 Carex Crawfordii
 Carex penxylvanica
 Carex siccata
 Ceanothus ovatus
 Celastrus scandens
 Chimaphila umbellata
 Clematis virginiana
 Comandra umbellata
 Convolvulus spitham.
 Coreopsis palmata
 Cornus alternifolia
 Cornus canadensis
 Cornus femina
 Cornus stolonifera
 Corylus americana
 Cypropedium acaule
 Desmodium acuminatum
 Desmodium canadense
 Diervilla lonicera
 Dryopteris sp.
 Eriogonum repens
 Eriogonum repens

Shrubs & Herbs
 Euphorbia corol.
 Fragaria spp.
 Galium boreale
 Galium triflorum
 Gaultheria procum.
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusif.
 var. micradenium
 Goodyera pubescens
 Helianthemum can.
 Helianthus occident.
 Heliopsis scabra
 Hepatica americana
 Heuchera Richardsonii
 Hieracium canadense
 Hieracium scabrum
 Houstonia longifolia
 Hypoxis hirsuta
 Hystrix patula
 Juncus Greenii
 Koeleria crisata
 Krigia biflora
 Lactuca canadensis
 Lathyrus ochroleucus
 Lathyrus venosus
 Lithospermum canes.
 Lithospermum croceum
 Lupinus perennis
 Lycopodium complan.
 Lycopodium obscurum
 Lysimachia quadrif.
 Maianthemum can.
 Mitchella repens
 Monarda fistulosa
 Myrica asplenifolia
 Onoclea sensibilis
 Osmorhiza Claytoni
 Osmunda Claytoniana
 Osmunda regalis
 Oxalis violacea
 Panicum implicatum
 Parthenocissus vitacea
 Pedicularis lanc.
 Phlox pilosa
 Phryma leptostachya
 Physalis virginiana
 Poa compressa
 Polygala polygama
 Polygonatum biflorum

Distance: 33 ft
 Polygonella artic.
 Polypodium virg.
 Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 var. latiusculum
 Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus fasc.
 Ranunculus rhomboid.
 Rhus glabra
 Rhus radicans
 Rhus typhina
 Ribes americanum
 Rosa spr.
 Rubus-blackberry
 Rubus-dewberry
 Rubus-raspberry
 Rudbeckia hirta
 Salix discolor
 var. latifolia
 Sambucus canadensis
 Sanicula gregaria
 Sisyrinchium camp.
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Solidago canadensis
 var. gilvocan.
 Solidago juncea
 Solidago nemoralis
 Solidago speciosa
 var. angustata
 Tephrosia virginiana
 Tradescantia ohien.
 Trientalis borealis
 Uvularia grandiflora
 Uvularia sessilif.
 Vaccinium angustif.
 Vaccinium canadense
 Vicia americana
 Vicia villosa
 Viola canadensis
 Viola cucullata
 Viola pedata
 var. lineariloba
 Viola sagittata
 Vitis coarctata
 Zanthoxylum amer.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lance			Quercus ellips		
Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus - 280			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus scrota					
Fraxinus amer.			Prunus virgin.					

Distance:

			Shrubs & Herbs			
Achillea millefolium			Euphorbia corol.			Polygonella artic.
Agrimonia gryposepala			Fragaria spp.			Polypodium virg.
Agropyron trachycaulon			Galium boreale			Potentilla simplex
var. glaucum			Galium triflorum			Prenanthes alba
Alnus rugosa			Gaultheria procum.			Pteridium aquilinum
Amorpha canescens			Gaylussacia baccata			var. latiusculum
Amphicarpa bracteata			Geranium maculatum			Pyrola elliptica
Andropogon Gerardi			Geum canadense			Pyrola rotundifolia
Andropogon scoparius			Gnaphalium obtusif.			Pyrola secunda
Anemone virginiana			var. micradenium			Ranunculus fasc.
Antennaria plantag.			Goodyera pubescens			Ranunculus rhomboid.
Apocynum androsaem.			Helianthemum can.			Rhus glabra
Aquilegia canadensis			Helianthus occident.			Rhus radicans
Arabis lyrata			Heliopsis scabra			Rhus typhina
Aralia nudicaulis			Hepatica americana			Ribes americanum
Arctostaphylos Uva			Heuchera Richardsonii			Rosa spp.
Aronia melanocarpa			Hieracium canadense			Rubus-blackberry
Artemisia caudata			Hieracium scabrum			Rubus-deadberry
Aster azureus			Houstonia longifolia			Rubus-raspberry
Aster lateriflorus			Hypoxis hirsuta			Rudbeckia hirta
var. pendulus			Hystrix patula			Salix discolor
Aster laevis			Juncus Greenii			var. latifolia
Aster macrophyllus			Koeleria crisata			Sambucus canadensis
Aster ptarmicoides			Krigia biflora			Sanicula gregaria
Aster sagittifolius			Lactuca canadensis			Sisyrinchium camp.
Athyrium angustatum			Lathyrus ochroleucus			Smilacina racemosa
Aureolaria pedic.			Lathyrus venosus			Smilacina stellata
Bromus ciliatus			Lithospermum canes.			Smilax ecirrhata
var. intonsus			Lithospermum croceum			Smilax herbacea
Calamagrostis			Lupinus perennis			Smilax hispida
Carex Crawfordii			Lycopodium complan.			Solidago canadensis
Carex pennsylvanica			Lycopodium obscurum			var. gilvocan.
Carex siccata			Lysimachia quadrif.			Solidago juncea
Ceanothus ovatus			Maianthemum can.			Solidago nemoralis
Celastrus scandens			Mitchella repens			Solidago speciosa
Chimaphila umbellata			Monarda fistulosa			var. angustata
Clematis virginiana			Myrica asplenifolia			Tephrosia virginiana
Comandra umbellata			Onoclea sensibilis			Tradescantia ohioen.
Convolvulus spitham.			Osmorhiza Claytoni			Trientalis borealis
Coreopsis palmata			Osmunda Claytoniana			Uvularia grandiflora
Cornus alternifolia			Osmunda regalis			Uvularia sessilif.
Cornus canadensis			Oxalis violacea			Vaccinium angustif.
Cornus femina			Panicum implicatum			Vaccinium canadense
Cornus stolonifera			Parthenocissus vitacea			Vicia americana
Corylus americana			Pedicularis lanc.			Vicia villosa
Cypripedium acaule			Phlox pilosa			Viola canadensis
Desmodium acuminatum			Phryma leptostachya			Viola cucullata
Desmodium canadense			Physalis virginiana			Viola pedata
Diervilla lonicera			Poa compressa			var. lineariloba
Dryopteris spin.			Polygala polygama			Viola sagittata
Eriogonum repens			Polygonatum biflorum			Vitis coarctata
Eriogonum repens						Zanthoxylum amer.

✓ Helict dioica

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea	-50		Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	-18		Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.	-110	
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.	-430	
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	-145		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	90		Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa	145		Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		16 ft
Acer negundo			Fraxinus penn.			Quercus alba	18	
Acer rubrum	75		Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		12 1/2 ft
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	14		Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra	180	
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		12 ft
Acer negundo			Fraxinus penn.			Quercus alba	145	
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	475		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		20 ft

III Pine Woods Survey

Point Record - Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra — 155		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus — 270			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer. — 90		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum — 35, 30			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus — 235			Tilia amer. — 30 — 1		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

III Pine Woods Survey

Point Record - Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceo .			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra	190	
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	75		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		18 1/2 ft
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceo .			Quercus ellipsoi		
Acer saccharum	40		Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra	190	
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		15 ft
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceo			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	80, 170		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		16 ft
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	185, 105		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					
						Distance:		21 ft

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum	28		Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus	205		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

9 1/2 ft

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.	15, 145	
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

10 1/2 ft

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera	60		Pinus Strobus	195		Tilia amer.		
Carpinus carol.			Populus grand.			Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

11 ft

Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lanceol.			Quercus ellipsoi		
Acer saccharum			Juglans cinerea			Quercus macroc.		
Acer spicatum			Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksiana			Quercus sp.		
Betula lutea			Pinus resinosa			Sorbus decora		
Betula papyrifera			Pinus Strobus			Tilia amer.		
Carpinus carol.			Populus grand.	70, 60		Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotina					
Fraxinus amer.			Prunus virgin.					

Distance:

16 ft