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Site 1124: Chippewa County, Township 32N, Range 8W, Section 21. 1949

[s.l.]: [s.n.], 1949

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Stand No: **IT 21** Name:County: *Chippewa*T: *32 N* R: *8 W* Sec: *21*Locality: *town of Sampson*Date: *July 25*Observers: *Brown & Anderson*Size of Stand: *10-15 acres*Size of Area Sampled: *10-15 acres*Forest Type: *maple-red oak woods*

Soil Type:

Topography:

Condition of Stand: *on a very slight hill on a moraine**Good -*

Open Grown Trees:

Stumps:

- | | |
|----|-----|
| 1. | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

Soil

Sample No:	pH	N	P	K	Colloids	Vol/wt	WHC
A ₀ _____	---	---	---	---	---	---	---
A ₁ _____	---	---	---	---	---	---	---
A ₂ _____	---	---	---	---	---	---	---
Depth	Characteristics (Color, texture, etc.)						

A₀_____A₁_____A₂_____

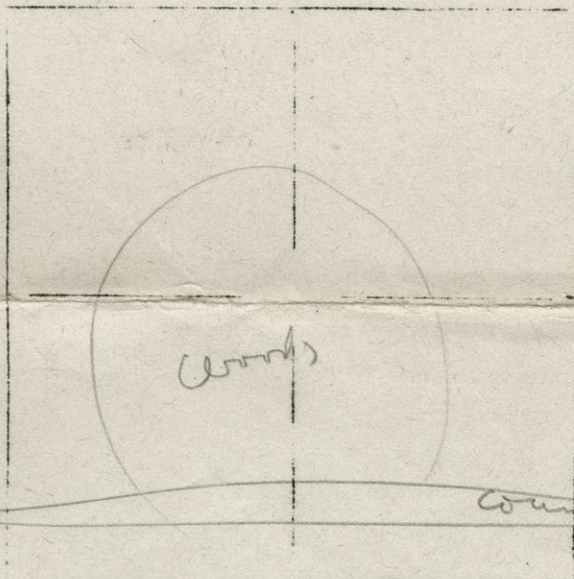
B _____

Parent Material:

Remarks:

Map

X Not called a pine woods - tho' it had a white pine, but it was approximately 2 inches high!



7.5

Tree	# Pts	# Tr.	Size Cl. sq in	# Sap	# Seed	F.% Seed	F.% Tr.	D.% Tr.	Dom % Tr.	D F D Index	C.I	Station No.
10.0 Acer rubrum	4	4	$\frac{4}{95}$	196	1		5.3	5.0	2.3	12.6	88	Total Length of Transect. 605'
10.0 A. sacchar.	4	4	$\frac{4}{118}$	118	2		5.3	5.0	2.9	13.2	13.2	Total Area of Transect. 3993.04 sq ft
12.5 Carya cord.	4	5	$\frac{2}{93}$	93			6.7	6.25	2.3	15.2	12.9	Ave. Dist. Btw'n Trees 15.1'
C. ovata												
Fagus gran.												
7.5 Fraxinus am	3	3	$\frac{3}{137}$	137			4.0	3.75	3.4	11.1	71	Saplings/unit area
F. penn.												
5.0 Juglans cin	2	2	$\frac{2}{95}$	95			2.7	2.5	2.3	7.5	49	Ave. BA (Total BA=80) 51.0 sq in.
J. nigra												No. Trees/acre 221
Ostrya vir.												Dom./acre 11,271
12.5 Populus gr.	5	6	$\frac{4}{169}$ $\frac{2}{185}$	354			6.7	7.5	8.7	22.9	23	
P. tremuloi												
2.5 Prunus sero	1	1	$\frac{1}{50}$	50			1.3	1.25	1.2	3.7	19	
17.5 Quercus al.	7	7	$\frac{6}{144}$ $\frac{1}{85}$	229			9.3	8.75	5.6	23.6	94	
Q. macrocar												
55.0 C. rubra	22	25	$\frac{18}{820}$ $\frac{7}{790}$	1610	2		29.3	31.25	39.4	99.9	599	
C. velutina												
32.5 Tilia amer.	13	14	$\frac{11}{450}$ $\frac{3}{425}$	875	1		17.3	17.5	21.4	56.2	421	
2.5 Ulmus amer.	1	1	$\frac{1}{55}$	55			1.3	1.25	1.3	3.8	15	
12.5 U. fulva	5	5	$\frac{3}{94}$ $\frac{1}{185}$	279			6.7	6.25	6.8	19.7	138	
Prunus virgin					1							
7.5 Betula papyr.	3	3	$\frac{3}{92}$	92			4.0	3.75	2.3	10.0	15	
187.5												
Totals		80	$\frac{65}{2412}$ $\frac{15}{1670}$	4082	7		✓	✓	✓	✓	1789	✓

CI = 1787

1124 (Chiffon)

	Sap.	12- 19	20- 28	29- 38	39- 50	51- 63	64- 78	79- 95	96- 113	114- 132	133- 153	154- 176	177- 201	202- 254	255- 314	315- 380	381- 452	
Pop. trem.																		
Quercus ellip.																		
Q. macrocarp.																		
Q. velut.																		
Prun. serot.					1													1
Querc. alba		2	3	1				1										7
Pop. grand.		1		1	1		1	2										6
Carya ovata																		
Betula papyrif.		1		1	1													3
Querc. rubra	2	2	1	3	5	3	3	1	3	4								25
Juglans nig.																		
Frax. amer.			1		1		1											3
Acer rubrum	1	2	1		1													4
Tilia amer.	1		4	2	1	3	1	2						1				14
Jug. cinerea					2													2
Ulmus amer.						1												1
Celtis occ.																		
Ulm. rubra		1		1	1			2										5
Carya cord.		2	3															5
Ostrya virg.																		
Acer sacc.	2	1	1		2													4
	6																	80

Av dist 15.1

Av BA 51.0

Trees/acre 221

Dom/acre 11,271

{ silt hill on moraine
 { Good

III Hardwood Survey

Station Record-Trees

Stand No.

TT 24
20 24

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	55	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	14	
Crataegus sp.			P. serotina			Distance:		21 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	240	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	30	
Crataegus sp.			P. serotina			Distance:		12 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	120	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.	95		Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance:		11 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	28	
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	60	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance:		13 ft

III Hardwood Survey

Station Record-Trees

Stand No.

21 24
20 24
20 24

Tree	BA	S	Tree	BA	S	Tree	BA	S	17 24
Acer negundo			Fagus grandif.			Prunus virgin.			
A. rubrum	45	1	Fraxinus amer.			Quercus alba	85		
A. saccharinum			F. nigra			Q. bicolor			
A. saccharum			F. pennsylvan.			Q. ellipsoid.			
Amelanchier sp.			Juglans cinere			Q. macrocarpa			
Betula lutea			J. nigra			Q. rubra			
B. nigra			Ostrya virgin.			Q. velutina			
B. papyrifera			Populus deltoi			Robinia pseudo			
Carpinus carol			P. grandident.			Sorbus americ.			
Carya cordifor			P. tremuloides			Tilia american			
C. ovata			Prunus americ.			Ulmus american			
Celtis occiden			P. pennsylvan.			U. fulva			
Crataegus sp.			P. serotina						
						Distance:			18 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.			
A. rubrum			Fraxinus amer.			Quercus alba			
A. saccharinum			F. nigra			Q. bicolor			
A. saccharum			F. pennsylvan.			Q. ellipsoid.			
Amelanchier sp.			Jugland cinere			Q. macrocarpa			
Betula lutea			J. nigra			Q. rubra			
B. nigra			Ostrya virgin.			Q. velutina			
B. papyrifera			Populus deltoi			Robinia pseudo			
Carpinus carol			P. grandident.			Sorbus americ.			
Carya cordifor	20		P. tremuloides			Tilia american	20		
C. ovata			Prunus americ.			Ulmus american			
Celtis occiden			P. pennsylvan.			U. fulva			
Crataegus sp.			P. serotina						
						Distance:			12 ft
Acer negundo			Fagus grandif.			Prunus virgin.			
A. rubrum			Fraxinus amer.			Quercus alba			
A. saccharinum			F. nigra			Q. bicolor			
A. saccharum			F. pennsylvan.			Q. ellipsoid.			
Amelanchier sp.			Juglans cinere			Q. macrocarpa			
Betula lutea			J. nigra			Q. rubra	40		
B. nigra			Ostrya virgin.			Q. velutina			
B. papyrifera			Populus deltoi			Robinia pseudo			
Carpinus carol			P. grandident.			Sorbus americ.			
Carya cordifor			P. tremuloides			Tilia american	35		
C. ovata			Prunus americ.			Ulmus american			
Celtis occiden			P. pennsylvan.			U. fulva			
Crataegus sp.			P. serotina						
						Distance:			15 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.			
A. rubrum			Fraxinus amer.			Quercus alba			
A. saccharinum			F. nigra			Q. bicolor			
A. saccharum			F. pennsylvan.			Q. ellipsoid.			
Amelanchier sp.			Juglans cinere			Q. macrocarpa			
Betula lutea			J. nigra			Q. rubra			
B. nigra			Ostrya virgin.			Q. velutina			
B. papyrifera			Populus deltoi			Robinia pseudo			
Carpinus carol			P. grandident.	45	14	Sorbus americ.			
Carya cordifor			P. tremuloides			Tilia american			
C. ovata			Prunus americ.			Ulmus american			
Celtis occiden			P. pennsylvan.			U. fulva			
Crataegus sp.			P. serotina						
						Distance:			6 1/2 ft

III Hardwood Survey

Station Record-Trees

Stand No.

24

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere	40		Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.	35		Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

15 ft

Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	25	
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	12"	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

13 ft

Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	35	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	60	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

13 ft

Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	40	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	25	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

12 1/2 ft

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.	75		Quercus alba	14	
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		23 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	12	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor	14		P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		12 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	30	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.	75		Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		11 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	115	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		33 ft

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	65	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	90	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

14 1/2 ft

Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	35, 20	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

10 1/2 ft

Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.	22		Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere	45		Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

21 ft

Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.	40		Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum	40		F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

8 ft

Tree : BA : S : Tree : BA : S : Tree : BA : S

✓ Acer negundo
✓ A. rubrum
✓ A. saccharinum
✓ A. saccharum
✓ Amelanchier sp.
✓ Betula lutea
✓ B. nigra
✓ B. papyrifera
✓ C. carolinensis
✓ C. cordifolia
✓ C. ovata
✓ Celtis occidentalis
✓ Crataegus sp.

✓ Fagus grandifolia
✓ Fraxinus americana
✓ F. nigra
✓ F. pennsylvanica
✓ Juglans cinerea
✓ J. nigra
✓ Ostrya virginica
✓ Populus deltoides
✓ P. grandidentata
✓ P. tremuloides
✓ Prunus americana
✓ P. pennsylvanica
✓ P. serotina

✓ Prunus virginiana
✓ Quercus alba
✓ Q. bicolor
✓ Q. ellipsoides
✓ Q. macrocarpa
✓ Q. rubra
✓ Q. velutina
✓ Robinia pseudoacacia
✓ Sorbus americana
✓ Tilia americana
✓ Ulmus americana
✓ U. fulva

Distance:

8 ✓ Actaea sp. *padhyphol*
✓ Adiantum pedatum
✓ Anemone hepatica
✓ Anemone quinquefolia
✓ Anemone virginiana
✓ Anemone thalictroides
✓ Antennaria sp.
✓ Apocynum androsaemifolium
✓ Aquilegia canadensis
✓ Aralia nudicaulis
✓ A. racemosa
✓ Arenaria lateralis
✓ Arisaema atrorhizon
✓ Asarum canadense
✓ Aster macrophyllum
✓ A. sagittifolius
✓ A. shortii
✓ Athyrium angustum
✓ Aureolaria grandifolia
✓ Botrychium virginicum
✓ Brachyelytrum
✓ Campanula americana
✓ Carex albursina
✓ C. pennsylvanica
✓ Caulophyllum thalictroides
✓ Celastrus scandens
✓ Circaea latifolia
✓ Claytonia virginica
✓ Cornus alternifolia
✓ C. femina
✓ C. rugosa
✓ Corylus americana
✓ Cryptotaenia canadensis
✓ Cypripedium pubescens
✓ Cystopteris fragilis
✓ Dentaria laciniata
✓ Desmodium acuminatum
✓ D. nudiflorum
✓ Dicentra cucullaria
✓ Dodecatheon meadia
✓ Dryopteris spinulosa
✓ Erigeron pulchellus
✓ Erythronium albidum

Shrubs & Herbs
✓ Eupatorium purpureum
✓ Eupatorium rugosum
✓ Festuca obtusa
✓ Fragaria virginiana
✓ Galium aparine
✓ G. circaeazans
✓ G. concinnum
✓ G. lanceolatum
✓ G. triflorum
✓ Geranium maculatum
✓ Geum canadense
✓ Goodyera pubescens
✓ Habenaria bracteata
✓ Hamamelis virginica
✓ Helianthus strumosus
✓ Hepatica acutiloba
✓ Heuchera richardsonii
✓ Hydrastis canadensis
✓ Hydrophyllum virginicum
✓ Hystrix patula
✓ Impatiens biflora
✓ I. pallida
✓ Isopyrum biternatum
✓ Lactuca spicata
✓ Laportea canadensis
✓ Lapolla virginica
✓ Lathyrus ochroleucus
✓ Lonicera proclivata
✓ Lysimachia quadrangularis
✓ Maianthemum canadense
✓ Menispermum canadense
✓ Mitella diphylla
✓ Monarda fistulosa
✓ Orchis spectabilis
✓ Oryzopsis racemosa
✓ Osmorhiza claytonii
✓ O. longistylis
✓ Osmunda claytonii
✓ Panax quinquefolium
✓ Panicum latifolium
✓ Parietaria pennsylvanica
✓ Parthenocissus vitacea
✓ Phlox divaricata
✓ Phryma leptostachya
✓ Podophyllum peltatum
✓ Polemonium reptans

✓ Polygonatum commutatum
✓ Polygonatum pubescens
✓ Polygonum virginicum
✓ Potentilla simplifolia
✓ Prenanthes alba
✓ Pteridium aquilinum
✓ Pyrola elliptica
✓ Ranunculus abortivus
✓ R. recurvatus
✓ R. septentrionalis
✓ Rhus radicans
✓ Ribes americanum
✓ R. cynosbati
✓ R. missouriense
✓ Rosa sp.
✓ Rubus alleghensis
✓ R. occidentalis
✓ R. strigosus
✓ Sambucus canadensis
✓ Sanguinaria canadensis
✓ Sanicula gregaria
✓ S. marilandica
✓ Smilacina racemosa
✓ S. stellata
✓ Smilax ecirrhata
✓ S. herbacea
✓ S. hispida
✓ Solidago altissima
✓ S. latifolia
✓ S. ulmifolia
✓ Thalictrum dioicum
✓ Trillium cernuum
✓ T. flexipes
✓ T. grandiflorum
✓ T. recurvatum
✓ Triosteum perfoliatum
✓ Uvularia grandiflora
✓ Veronicastrum virginicum
✓ Viburnum acerifolium
✓ V. affine
✓ Viola cucullata
✓ V. pubescens
✓ Vitis aestivalis
✓ V. riparia
✓ Zanthoxylum americanum
✓ Zizia aurea

Agastache scrophul.
 Allium canadense
 Amorpha canesc.
 Anaphalis marg.
 Anemone cylindrica
 Arabis canadensis
 A. laevigata
 A. lyrata
 A. perstellata
 Aralia hispida
 Arisaema dracont.
 Asclepias ovalif.
 ✓ A. phytolaccoides
 Aster azureus
 A. paniculatus
 A. prenanthoides
 Athyrium thelypter.
 Besseyia bullii
 Boehmeria cylindr.
 Botrychium multif.
 Bromus purgans
 Camptosorus rhizop.
 Carex convoluta
 Ceanothus americ.
 Chimaphila umbell.
 Cirsium altissim.
 Clematis virgin.
 Clintonia boreal.
 Comandra umbellata
 Conopholis americ.
 Corallorrhiza mac.
 Corydalis semperv.
 Cynoglossum offic.
 Cystopteris bulbif.
 Desmodium bracteos.
 D. canadense
 Dicentra canadens.
 ✓ Diervilla lonicera
 ✓ Dioscorea villosa
 ✓ Dirca palustris
 Elymus villosus
 Epifagus virgin.

Erigeron philadel.
 Erythronium americ.
 Evonymus atropur.
 Floerkea prosperp.
 Fragaria vesca
 Galium boreale
 Gaultheria procumb.
 Gaylussacia baccata
 Gentiana quinquef.
 Geum virginianum
 Hedeoma hispida
 Hepatica americana
 Heracleum lanatum
 Hieracium canadens.
 H. scabrum
 Hydrophyllum append.
 Hypoxis hirsuta
 Ilex verticillata
 Juncus tenuis
 Juniperus communis
 J. virginiana
 Krigia biflora
 Lathyrus venosus
 Lilium philadel.
 Liparis liliifolia
 Lobelia cardinalis
 Lonicera dioica
 L. hirsuta
 Luzula acuminata
 L. Multiflora
 Milium effusum
 ✓ Mitchellia repens
 Monotropa uniflora
 Onoclea sensibilis
 Oryzopsis asperif.
 Osmunda cinnamomea
 Oxalis violacea
 Panax trifolium
 Paronychia canad.
 Pedicularis canad.
 Physocarpus opul.
 Phytolacca decand.

Pilea pumila
 Polymnia canad.
 Polypodium vulgare
 Prunella vulgaris
 Pteretis nodulosa
 Pyrus coronaria
 P. ioensis
 Ranunculus fascicul.
 R. rhomboideus
 Rhus glabra
 R. typhina
 Rubus hispidus
 R. pubescens
 Rudbeckia laciniata
 Salix sp.
 Sambucus pubens
 Saxifraga pennsylv.
 Scrophularia lan.
 S. marilandica
 Senecio balsamitae
 Silene stellata
 Solanum nigrum
 Solidago speciosa
 Staphylea trifolia
 Steironema ciliatum
 S. lanceolatum
 Streptopus roseus
 Symplocarpus foet.
 Taenidia integerr.
 Taxus canadensis
 Thalictrum dasycarp.
 Thaspium aureum
 Tradescantia ohio.
 ✓ Uvularia sessilif.
 ✓ Vaccinium canad. *angustif.*
 Veronica serpyllif.
 Viburnum lentago
 V. trilobum
 Vicia americana
 Viola conspersa
 V. incognita

Additional Species:

✓ Corylus cornuta
 ✓ Lycopod. lucidula
 Viola canadensis

----- : BA : S : Tree : BA : S : Tree : BA : S :

1124

Acer negundo
 A. rubrum
 A. saccharinum
 A. saccharum
 Amelanchier sp.
 Betula lutea
 B. nigra
 B. papyrifera
 Carpinus carol
 Carya cordifor
 C. ovata
 Celtis occiden
 Crataegus sp.

Fagus grandif.
 Fraxinus amer.
 F. nigra
 F. pennsylvan.
 Juglans cinere
 J. nigra
 Ostrya virgin.
 Populus deltoi
 P. grandident.
 P. tremuloides
 Prunus americ.
 P. pennsylvan.
 P. serotina

Prunus virgin.
 Quercus alba
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american - 20
 Ulmus american
 U. fulva — 95

Distance: 11/8

✓ Actaea sp.
 ✓ Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemonella thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atror.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 ✓ Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albusina
 ✓ C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 ✓ Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lapoula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Cryzopsis racem.
 ✓ Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 ✓ Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 ✓ Viola cucullata ?
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoid			Robinia pseudo		
✓ Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	60	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	85	
Crataegus sp.			P. serotina					20.5

Distance:

Tree	BA	S	Tree	BA	S	Tree	BA	S
Actaea sp.			<u>Shrubs & Herbs</u>			Polygonatum commut.		
✓ Adiantum pedat.			Eupatorium purpur.			Polygonatum pubesc.		
Agrimonia gryp.			Eupatorium rugosum			Polygonum virgin.		
Allium tricocc.			Festuca obtusa			Potentilla simpl.		
Amphicarpa brac.			Fragaria virgin.			Prenanthes alba		
Anemone quinque.			Galium aparine			Pteridium aquil.		
A. virginiana			G. circaezans			Pyrola elliptica		
Anemonella thal.			G. concinnum			Ranunculus abort.		
Antennaria sp.			G. lanceolatum			R. recurvatus		
Aplectrum hiem.			G. triflorum			R. septentrion.		
Apocynum andros.			Geranium macul.			Rhus radicans		
Aquilegia canad.			Geum canadense			Ribes americanum		
Aralia nudicaul.			Goodyera pubesc.			R. cynosbati		
A. racemosa			Habenaria bract.			R. missouriense		
Arenaria later.			Hamamelis virg.			Rosa sp.		
Arisaema atrop.			Helianthus strum.			Rubus alleghen.		
Asarum canad.			Hepatica acutil.			R. occidentalis		
✓ Aster macrophyll.			Heuchera richard.			R. strigosus		
A. sagittifolius			Hydrastis canad.			Sambucus canad.		
A. shortii			Hydrophyllum virg.			Sanguinaria can.		
Athyrium angust.			Hystrix patula			Sanicula gregaria		
Aureolaria grandif.			Impatiens biflora			S. marilandica		
Botrychium vir.			I. pallida			✓ Smilacina racemosa		
Brachyelytrum			Isopyrum bitern.			S. stellata		
Campanula amer.			Lactuca spicata			Smilax ecirrhata		
Carex albersina			Laportea canad.			S. herbacea		
C. pennsylvan.			Lapoula virgin.			S. hispida		
Caulophyllum thal.			Lathyrus ochrol.			Solidago altissima		
Celastrus scan.			Lonicera prolif.			S. latifolia		
Circaea latif.			Lysimachia quadr.			S. ulmifolia		
Claytonia virg.			Maianthemum can.			✓ Thalictrum dioicum		
Cornus altern.			Menispermum can.			Trillium cernuum		
C. femina			Mitella diphylla			T. flexipes		
C. rugosa			Monarda fistulosa			T. grandiflorum		
Corylus americana			Orchis spectab.			T. recurvatum		
Cryptotaenia canad.			Gryzopsis racem.			Triosteum perfoliatum		
Cypripedium pubesc.			Osmorhiza clayton.			Uvularia grandiflora		
Cystopteris frag.			O. longistylis			Veronicastrum virg.		
Dentaria laciniata			Osmunda clayton.			Viburnum acerifolium		
Desmodium acumin.			Panax quinquef.			V. affine		
D. nudiflorum			Panicum latifolium			Viola cucullata		
Dicentra cucullaria			Parietaria pennsylv.			V. pubescens		
Dodecatheon meadia			Parthenocissus vit.			Vitis aestivalis		
Dryopteris spinulosa			Phlox divaricata			V. riparia		
Erigeron pulchellus			Phryma leptostachya			Zanthoxylum americ.		
Erythronium albidum			Podophyllum pelt.			Zizia aurea		
			Polemonium reptans					

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoii			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	✓ Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonatum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albusina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
✓ Coinus altern. <i>alt.</i>	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	✓ Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba — 35		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra — 100		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
✓ Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

21 ft.

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	✓ Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓ Amelcarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	✓ Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
✓ A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
✓ Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Coinus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	✓ T. grandiflorum
Corylus americana	Cryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	DA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra - 35		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor - 14			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 ✓ Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrop.
 Asarum canad.
 ✓ Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 ✓ C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cyrtopodium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 ✓ Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 ✓ Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

✓ Cornus cornuta

✓ U. serotina

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	70, 70	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Shrubs & Herbs		
Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Aggrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atror.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera proclif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Coinus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree	: BA	: S	Tree	: BA	: S	Tree	: BA	: S
Acer negundo			Fagus grandif.			✓ Prunus virgin.		
A. rubrum			✓ Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum	— 12' — 1		F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			✓ Q. rubra — 40		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoei			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance: 10 ft

Actaea sp.			Shrubs & Herbs			Polygonatum commut.		
Adiantum pedat.			Eupatorium purpur.			Polygonatum pubesc.		
Agrimonia gryp.			Eupatorium rugosum			Polygonum virgin.		
Allium tricocc.			Festuca obtusa			Potentilla simpl.		
Amphicarpa brac.			Fragaria virgin.			Prenanthes alba		
Anemone quinque.			Galium aparine			Pteridium aquil.		
A. virginiana			✓ G. circaeazans			Pyrola elliptica		
Anemonella thal.			G. concinnum			Ranunculus abort.		
Antennaria sp.			G. lanceolatum			R. recurvatus		
Aplectrum hiem.			G. triflorum			R. septentrion.		
Apocynum andros.			Geranium macul.			Rhus radicans		
Aquilegia canad.			Geum canadense			Ribes americanum		
✓ Aralia nudicaul.			Goodyera pubesc.			R. cynosbati		
A. racemosa			Habenaria bract.			R. missouriense		
Arenaria later.			Hamamelis virg.			Rosa sp.		
Arisaema atror.			Helianthus strum.			Rubus alleghen.		
Asarum canad.			✓ Hepatica acutil.			R. occidentalis		
✓ Aster macrophyll.			Heuchera richard.			R. strigosus		
A. sagittifolius			Hydrastis canad.			Sambucus canad.		
A. shortii			Hydrophyllum virg.			Sanguinaria can.		
Athyrium angust.			Hystrix patula			Sanicula gregaria		
Aureolaria grandif.			Impatiens biflora			S. marilandica		
Botrychium vir.			I. pallida			Smilacina racemosa		
Brachyelytrum			Isopyrum bitern.			S. stellata		
Campanula amer.			Lactuca spicata			Smilax ecirrhata		
Carex albusina			Laportea canad.			S. herbacea		
C. pennsylvan.			Lapula virgin.			S. hispida		
Caulophyllum thal.			Lathyrus ochrol.			Solidago altissima		
Celastrus scan.			Lonicera prolif.			S. latifolia		
Circaea latif.			Lysimachia quadr.			S. ulmifolia		
Claytonia virg.			Maianthemum can.			Thalictrum dioicum		
Coinus altern.			Menispermum can.			Trillium cernuum		
C. femina			Mitella diphylla			T. flexipes		
C. rugosa			Monarda fistulosa			T. grandiflorum		
Corylus americana			Orchis spectab.			T. recurvatum		
Cryptotaenia canad.			Oryzopsis racem.			Triosteum perfoliatum		
Cypripedium pubesc.			Osmorhiza clayton.			Uvularia grandiflora		
Cystopteris frag.			O. longistylis			Veronicastrum virg.		
Dentaria laciniata			Osmunda clayton.			✓ Viburnum acerifolium		
✓ Desmodium acumin.			Panax quinquef.			V. affine		
D. nudiflorum			Panicum latifolium			Viola cucullata		
Dicentra cucullaria			Parietaria pennsylv.			V. pubescens		
Dodecatheon meadia			Parthenocissus vit.			Vitis aestivalis		
Dryopteris spinulosa			Phlox divaricata			V. riparia		
Erigeron pulchellus			Phryma leptostachya			Zanthoxylum americ.		
Erythronium albidum			Podophyllum pelt.			Zizia aurea		
			Polemonium reptans					

----- : BA : S : Tree : BA : S : Tree : BA : S :

Acer negundo
 A. rubrum
 A. saccharinum
 A. saccharum
 Amelanchier sp.
 Betula lutea
 B. nigra
 ✓ B. papyrifera — 12"
 Carpinus carol
 Carya cordifor
 C. ovata
 Celtis occiden
 Crataegus sp.

Fagus grandif.
 Fraxinus amer.
 F. nigra
 F. pennsylvan.
 Juglans cinere
 J. nigra
 Ostrya virgin.
 Populus deltoi
 P. grandident.
 P. tremuloides
 Prunus americ.
 P. pennsylvan.
 P. serotina

Prunus virgin.
 Quercus alba
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra — 60
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

Distance: 15 1/2 ft

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 ✓ A. racemosa
 Arenaria later.
 Arisaema atror.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 ✓ Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Coinus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 ✓ Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Laprula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Cryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 ✓ Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 ✓ Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 ✓ Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

✓ Corylus cornuta

Distance:

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

Tree : BA : S : Tree : BA : S : Tree : BA : S

Acer negundo
A. rubrum
A. saccharinum
A. saccharum
Amelanchier sp.
Betula lutea
B. nigra
B. papyrifera
Carpinus carol
Carya cordifor
C. ovata
Celtis occiden
Crataegus sp.

Fagus grandif.
Fraxinus amer.
F. nigra
F. pennsylvan.
Juglans cinere
J. nigra
Ostrya virgin.
Populus delto
P. grandident.
P. tremuloides
Prunus americ.
P. pennsylvan.
P. serotina

Prunus virgin.
Quercus alba
Q. bicolor
Q. ellipsoid.
Q. macrocarpa
Q. rubra
Q. velutina
Robinia pseudo
Sorbus americ.
Tilia american
Ulmus american
U. fulva

125, 60, 1

20.5 ft

Distance:

Actaea sp.
Adiantum pedat.
Agrimonia gryp.
Allium tricocc.
Amphicarpa brac.
Anemone quinque.
A. virginiana
Anemonella thal.
Antennaria sp.
Aplectrum hiem.
Apocynum andros.
Aquilegia canad.
Aralia nudicaul.
A. racemosa
Arenaria later.
Arisaema atror.
Asarum canad.
Aster macrophyll.
A. sagittifolius
A. shortii
Athyrium angust.
Aureolaria grandif.
Botrychium vir.
Brachyelytrum
Campanula amer.
Carex albursina
C. pennsylvan.
Caulophyllum thal.
Celastrus scan.
Circaea latif.
Claytonia virg.
Coinus altern.
C. femina
C. rugosa
Corylus americana
Cryototaenia canad.
Cypripedium pubesc.
Cystopteris frag.
Dentaria laciniata
Desmodium acumin.
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
Eupatorium rugosum
Festuca obtusa
Fragaria virgin.
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium macul.
Geum canadense
Goodyera pubesc.
Habenaria bract.
Hamamelis virg.
Helianthus strum.
Hepatica acutil.
Heuchera richard.
Hydrastis canad.
Hydrophyllum virg.
Hystrix patula
Impatiens biflora
I. pallida
Isopyrum bitern.
Lactuca spicata
Laportea canad.
Lapula virgin.
Lathyrus ochrol.
Lonicera prolif.
Lysimachia quadr.
Maianthemum can.
Menispermum can.
Mitella diphylla
Monarda fistulosa
Orchis spectab.
Oryzopsis racem.
Osmorhiza clayton.
O. longistylis
Osmunda clayton.
Panax quinquef.
Panicum latifolium
Parietaria pennsylv.
Parthenocissus vit.
Phlox divaricata
Phryma leptostachya
Podophyllum pelt.
Polemonium reptans

Polygonatum commut.
Polygonatum pubesc.
Polygonum virgin.
Potentilla simpl.
Prenanthes alba
Pteridium aquil.
Pyrola elliptica
Ranunculus abort.
R. recurvatus
R. septentrion.
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus alleghen.
R. occidentalis
R. strigosus
Sambucus canad.
Sanguinaria can.
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. hispida
Solidago altissima
S. latifolia
S. ulmifolia
Thalictrum dioicum
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virg.
Viburnum acerifolium
V. affine
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Zanthoxylum americ.
Zizia aurea

Corylus americana

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra — 26		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera — 35			Populus deltoii			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance: 20 ft

Shrubs & Herbs		
Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amelocarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaeans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atror.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albusina	Lapoula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	12"		Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	40	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Shrubs & Herbs	
Actaea sp.	Polygonatum commut.
Adiantum pedat.	Polygonatum pubesc.
Agrimonia gryp.	Polygonum virgin.
Allium tricocc.	Potentilla simpl.
Amphicarpa brac.	Prenanthes alba
Anemone quinque.	✓ Pteridium aquil.
A. virginiana	Pyrola elliptica
Anemonella thal.	Ranunculus abort.
Antennaria sp.	R. recurvatus
Aplectrum hiem.	R. septentrion.
Apocynum andros.	Rhus radicans
Aquilegia canad.	Ribes americanum
Aralia nudicaul.	R. cynosbati
✓ A. racemosa	R. missouriense
Arenaria later.	Rosa sp.
Arisaema atror.	Rubus alleghen.
Asarum canad.	R. occidentalis
✓ Aster macrophyll.	R. strigosus
A. sagittifolius	Sambucus canad.
A. shortii	Sanguinaria can.
Athyrium angust.	Sanicula gregaria
Aureolaria grandif.	S. marilandica
Botrychium vir.	Smilacina racemosa
Brachyelytrum	S. stellata
Campanula amer.	Smilax ecirrhata
Carex albursina	S. herbacea
C. pennsylvan.	S. hispida
Caulophyllum thal.	Solidago altissima
Celastrus scan.	S. latifolia
Circaea latif.	S. ulmifolia
Claytonia virg.	Thalictrum dioicum
Cornus altern.	Trillium cernuum
C. femina	T. flexipes
C. rugosa	T. grandiflorum
Corylus americana	T. recurvatum
Cryptotaenia canad.	Triosteum perfoliatum
Cypripedium pubesc.	Uvularia grandiflora
Cystopteris frag.	Veronicastrum virg.
Dentaria laciniata	✓ Viburnum acerifolium
✓ Desmodium acumin.	V. affine
D. nudiflorum	Viola cucullata
Dicentra cucullaria	V. pubescens
Dodecatheon meadia	Vitis aestivalis
Dryopteris spinulosa	V. riparia
Erigeron pulchellus	Zanthoxylum americ.
Erythronium albidum	Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus delto			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 ✓ Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemonella thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrop.
 Asarum canad.
 ✓ Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 ✓ C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 ✓ Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 ✓ Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lapoula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Gryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 ✓ Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 ✓ Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 ✓ S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

Tree	: BA	: S	Tree	: BA	: S	Tree	: BA	: S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	14		✓ Fraxinus amer.			✓ Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	45	
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoii			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
✓ Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					157
						Distance:		
Actaea sp.			Shrubs & Herbs			Polygonatum commut.		
Adiantum pedat.			Eupatorium purpur.			Polygonatum pubesc.		
Agrimonia gryp.			Eupatorium rugosum			Polygonum virgin.		
Allium tricocc.			Festuca obtusa			Potentilla simpl.		
✓ Amphicarpa brac.			Fragaria virgin.			Prenanthes alba		
Anemone quinque.			Galium aparine			Pteridium aquil.		
A. virginiana			G. circaezans			Pyrola elliptica		
Anemonella thal.			G. concinnum			Ranunculus abort.		
Antennaria sp.			G. lanceolatum			R. recurvatus		
Aplectrum hiem.			G. triflorum			R. septentrion.		
Apocynum andros.			Geranium macul.			Rhus radicans		
Aquilegia canad.			Geum canadense			Ribes americanum		
Aralia nudicaul.			Goodyera pubesc.			R. cynosbati		
A. racemosa			Habenaria bract.			R. missouriense		
Arenaria later.			Hamamelis virg.			✓ Rosa sp.		
Arisaema atrov.			Helianthus strum.			Rubus alleghen.		
Asarum canad.			Hepatica acutil.			R. occidentalis		
✓ Aster macrophyll.			Heuchera richard.			R. strigosus		
A. sagittifolius			Hydrastis canad.			Sambucus canad.		
A. shortii			Hydrophyllum virg.			Sanguinaria can.		
Athyrium angust.			Hystrix patula			Sanicula gregaria		
Aureolaria grandif.			Impatiens biflora			S. marilandica		
Botrychium vir.			I. pallida			Smilacina racemosa		
Brachyelytrum			Isopyrum bitern.			S. stellata		
Campanula amer.			Lactuca spicata			Smilax ecirrhata		
Carex albursina			Laportea canad.			S. herbacea		
C. pennsylvan.			Lappula virgin.			S. hispida		
Caulophyllum thal.			Lathyrus ochrol.			Solidago altissima		
Celastrus scan.			Lonicera proclif.			S. latifolia		
Circaea latif.			Lysimachia quadr.			S. ulmifolia		
Claytonia virg.			Maianthemum can.			Thalictrum dioicum		
Cornus altern.			Menispermum can.			Trillium cernuum		
C. femina			Mitella diphylla			T. flexipes		
✓ C. rugosa			Monarda fistulosa			T. grandiflorum		
Corylus americana			Orchis spectab.			T. recurvatum		
Cryptotaenia canad.			Oryzopsis racem.			Triosteum perfoliatum		
Cypripedium pubesc.			Osmorhiza clayton.			Uvularia grandiflora		
Cystopteris frag.			O. longistylis			Veronicastrum virg.		
Dentaria laciniata			Osmunda clayton.			✓ Viburnum acerifolium		
Desmodium acumin.			Panax quinquef.			V. affine		
✓ D. nudiflorum			Panicum latifolium			Viola cucullata		
Dicentra cucullaria			Parietaria pennsylv.			V. pubescens		
Dodecatheon meadia			Parthenocissus vit.			Vitis aestivalis		
Dryopteris spinulosa			Phlox divaricata			V. riparia		
Erigeron pulchellus			Phryma leptostachya			Zanthoxylum americ.		
Erythronium albidum			Podophyllum pelt.			Zizia aurea		
			Polemonium reptans					

Distance:

Polygonatum commut.

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓ Amphicarpa brac.	Galium aparine	✓ Prenanthes alba
Anemone quinque.	G. circaezans	✓ Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atror.	Hematica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
✓ Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
✓ C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	✓ Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree : BA : S : Tree : BA : S : Tree : BA : S

Acer negundo
A. rubrum
A. saccharinum
A. saccharum
Amelanchier sp.
Betula lutea
B. nigra
B. papyrifera
Carpinus carol
Carya cordifor
C. ovata
Celtis occiden
Crataegus sp.

Fagus grandif.
Fraxinus amer.
F. nigra
F. pennsylvan.
Juglans cinere
J. nigra
Ostrya virgin.
Populus deltoi
P. grandident.
P. tremuloides
Prunus americ.
P. pennsylvan.
P. serotina

Prunus virgin.
Quercus alba - 14
Q. bicolor
Q. ellipsoid.
Q. macrocarpa
Q. rubra - 115
Q. velutina
Robinia pseudo
Sorbus americ.
Tilia american
Ulmus american
U. fulva

Distance:

Actaea sp.
Adiantum pedat.
Agrimonia gryp.
Allium tricocc.
✓ Amphicarpa brac.
Anemone quinque.
A. virginiana
Anemonella thal.
Antennaria sp.
Aplectrum hiem.
Apocynum andros.
Aquilegia canad.
Aralia nudicaul.
A. racemosa
Arenaria later.
Arisaema atror.
Asarum canad.
✓ Aster macrophyll.
A. sagittifolius
A. shortii
Athyrium angust.
Aureolaria grandif.
Botrychium vir.
Brachyelytrum
Campanula amer.
Carex albursina
C. pennsylvan.
Caulophyllum thal.
Celastrus scan.
Circaea latif.
Claytonia virg.
Cotinus altern.
C. femina
✓ C. rugosa
Corylus americana
Cryototaenia canad.
Cypripedium pubesc.
Cystopteris frag.
Dentaria laciniata
Desmodium acumin.
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
Eupatorium rugosum
Festuca obtusa
Fragaria virgin.
Galium aparine
G. circaeazans
G. concinnum
G. lanceolatum
G. triflorum
Geranium macul.
Geum canadense
Goodyera pubesc.
Habenaria bract.
Hamamelis virg.
✓ Helianthus strum.
Hepatica acutil.
Heuchera richard.
Hydrastis canad.
Hydrophyllum virg.
Hystrix patula
Impatiens biflora
I. pallida
Isopyrum bitern.
Lactuca spicata
Laportea canad.
Lapula virgin.
Lathyrus ochrol.
Lonicera prolif.
Lysimachia quadr.
Maianthemum can.
Menispermum can.
Mitella diphylla
Monarda fistulosa
Orchis spectab.
Oryzopsis racem.
Osmorhiza clayton.
O. longistylis
Osmunda clayton.
Panax quinquef.
Panicum latifolium
Parietaria pennsylv.
Parthenocissus vit.
Phlox divaricata
Phryma leptostachya
Podophyllum pelt.
Polemonium reptans

Polygonatum commut.
Polygonatum pubesc.
Polygonum virgin.
Potentilla simpl.
Prenanthes alba
✓ Pteridium aquil.
Pyrola elliptica
Ranunculus abort.
R. recurvatus
R. septentrion.
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus alleghen.
R. occidentalis
✓ R. strigosus
Sambucus canad.
Sanguinaria can.
Sanicula gregaria
S. marilandica
✓ Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. hispida
Solidago altissima
S. latifolia
S. ulmifolia
Thalictrum dioicum
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virg.
Viburnum acerifolium
V. affine
Viola cucullata
V. pubescens
Vitis aestivalis
✓ V. riparia
Zanthoxylum americ.
Zizia aurea

✓ Larca palustris

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			✓ Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	70	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	50	
Crataegus sp.			P. serotina					

Distance: 10 ft

Actaea sp.
 ✓ Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemonella thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrov.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 ✓ Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Coinus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryototaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lapoula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 ✓ Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 ✓ S. ulmifolia
 ✓ Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 ✓ T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 ✓ Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	DA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum — 26			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american — 95		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

17 1/2 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
✓ Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amelocarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	✓ Thalictrum dioicum
Coinus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	✓ T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	✓ Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	✓ Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	✓ Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum	40		F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoei			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american	55	
Celtis occiden			P. pennsylvan.			U. fulva	14 1/2	
Crataegus sp.			P. serotina					

Distance:

Shrubs & Herbs		
Actaea sp.	Eupatorium purpur.	Polygonatum commut.
✓ Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Artemisia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaeazans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	✓ Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
✓ Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	✓ Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	✓ T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	✓ Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	✓ Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	✓ Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

STATION NO. 1121	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
TREES:																							
Acer negundo																							
A. rubrum	✓			✓						✓			✓		✓							4	20
A. saccharinum																							
A. saccharum	✓					✓	✓	✓											✓	✓	4	20	
Amelanchier sp.																							
Betula lutea	✓																						
B. nigra																							
B. papyrifera	✓									✓			✓									2	10
Carpinus carol.	✓		✓			✓	✓	✓					✓		✓						4	20	
Carya cordiform.	✓				✓	✓									✓	✓					4	20	
C. ovata																							
Celtis occident.																							
Crataegus sp.	✓																						
Fagus grandif.																							
Fraxinus americ.	✓					✓		✓	✓	✓	✓					✓	✓					6	30
F. nigra																							
F. pennsylvanica																							
Gleditsia tria.																							
Gymnocladus dio.																							
Juglans cinerea	✓																						
J. nigra																							
Ostrya virgin.	✓											✓							✓			2	10
Platanus occid.																							
Populus deltoid.																							
P. grandident.	✓			✓																		1	5
P. tremuloides																							
Prunus american.																							
P. nigra																							
P. pennsylvan.																							
P. serotina	✓			✓		✓				✓					✓			✓				5	25
P. virginiana	✓	✓				✓		✓		✓	✓										4	20	
Quercus alba	✓			✓							✓	✓				✓		✓			4	20	
Q. bicolor																							
Q. ellipsoid.																							
Q. macrocarpa																							
Q. rubra	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓				12	60
Q. velutina																							
Robinia pseudo.																							
Salix nigra																							
Sorbus americana																							
Tilia americana	✓	✓	✓			✓													✓	✓	5	25	
Ulmus americana	✓																				✓	1	5
U. fulva	✓	✓	✓		✓														✓		4	20	
U. thomasi																							
SHRUBS & HERBS:																							
Actaea sp. (pachypoda)	✓	✓				✓																2	10
Adiantum pedat.	✓	✓	✓			✓													✓	✓	✓	6	30
Agastache scrophul.																							
Agrimonia gryp.																							
Aletris farin.																							

STATION NO. 1124	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (Cont'd)																							
Allium canad.																							
A. tricoccum																							
Amorpha canescens																							
Amphicarpa brac.	✓				✓	✓					✓	✓			✓	✓	✓	✓				7	35
A. b. v. comosa																							
Anaphalis marg.																							
Anemone cylindr.																							
A. quinquefolia																							
A. virginiana																							
Anemonella thal.																							
Antennaria sp.																							
Aplectrum hiem.																							
Apocynum andros.	✓																						
Aquilegia cana.	✓																						
Arabis canadens.																							
A. laevigata																							
A. lyrata																							
A. perstellata																							
Aralia hispida																							
Aralia nudicaul.	✓						✓	✓	✓													2	10
A. racemosa	✓				✓				✓					✓								3	15
Arenaria laterif.																							
Arisaema atror.	✓																						
A. dracontium																							
Asarum canad.																							
Asclepias ovalif.																							
A. phytolaccoides	✓																						
Aster azureus																							
A. lateriflorus																							
A. macrophyllus	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				14	70
A. paniculatus																							
A. Prenanthoides																							
A. sagittifolius																							
A. shortii																							
Athyrium angust.	✓	✓					✓															2	10
A. pycnocaroon																							
A. thelypter.																							
Aureolaria gran.																							
Besseya bullii																							
Boehmeria cylin.																							
Botrychium multif																							
v. intermedium																							
B. virginianum	✓																						
Brachyelytrum er.	✓								✓	✓									✓			2	10
Bromus purgans																							
Campanula americ.																							
Camptosorus rhizop.																							
Carex albursina																							
C. convoluta																							
C. pennsylvan.	✓	✓																				1	5
Castilleja coccin.																							

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