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Site 1029: Pierce County, Township 24N, Range 17W, Section 2. 1948-08-17

[s.l.]: [s.n.], 1948-08-17

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Stand No: 129 Name:
 County: Pierce-Jacobs County T: 24N R: 17W Sec: 2 Locality: Bay City
 Date: Aug 17, 1944 Observers: A. O. Me along highway 39
 Size of Stand: Size of Area Sampled: 40 pts - 2 1/2 miles E Bay City
 Forest Type: Soil Type: Deep Knox loam
 Topography: Slight slope
 Condition of Stand: cutting on side - largely populus + red maple on inside of road

Open Grown Trees: Present - white oak -
 Stumps: old - rotted

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

Soil

| Sample No: | pH | N | P | K | Colloids | Vol/wt | WHC |
|----------------|-----|---|-----|-----|----------|--------|------|
| A ₀ | 5.4 | — | 80 | 100 | — | — | 76.3 |
| A ₁ | 5.5 | — | 90 | 120 | — | — | 69.6 |
| A ₂ | 5.3 | — | 100 | 140 | — | — | 36.3 |

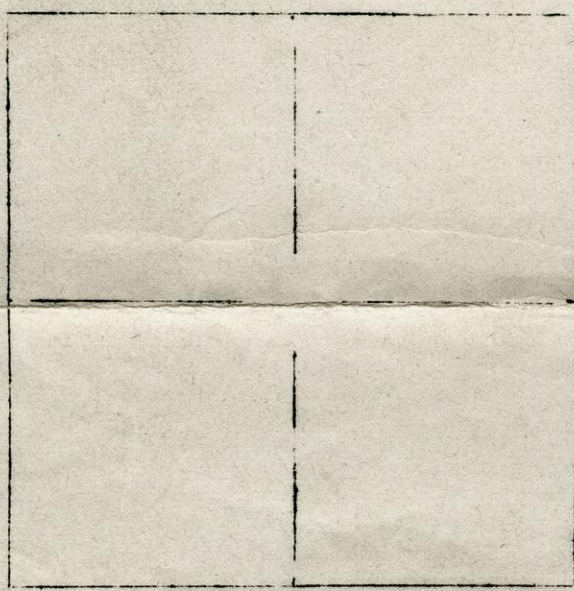
Depth 28 Characteristics (Color, texture, etc.)

- A₀ 2.5-5"
- A₁ 2.5"
- A₂ 1.5"
- B 23.5"

Parent Material:

Remarks: one small sugar maple present
 one side has gully in it from
 adjoining fields. Considerable
 Red Maple present.

Map



CI = 1659

1029 (Pierce)

| | 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 | 453- 600 | |
|----------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| Pop. trem. | | | | | | | | | | | | | | | | | | | |
| Quercus ellip. | | | | | | | | | | | | | | | | | | | |
| Q. macrocarp. | | | | | | | | | | | | | | | | | | | |
| Q. velut. | | | | | | | | | | | | | | | | | | | |
| Prun. serot. | 1 | | 1 | | | | | | | | | | | | | | | | 1 |
| Querc. alba | | 2 | | 1 | 2 | | | | | 1 | | | | | | | | 1 | 7 |
| Pop. grand. | | 1 | 2 | 1 | | | | 1 | | | | | 1 | | | | | | 6 |
| Carya ovata | | | | | | | | | | | | | | | | | | | |
| BETULA Papyrif | | | | | | | | | | | | | | | | | | | 1 |
| Querc. rubra | | 2 | 2 | 2 | 5 | 6 | 3 | 4 | 5 | 4 | 4 | 2 | 1 | 1 | 5 | | | | 46 |
| Juglans nig. | | | | | | | | | | | | | | | | | | | |
| Frax. amer. | | | | | | | | | | | | | | | | | | | |
| Acer rubrum | | 2 | 2 | 1 | 2 | | | | | | | | 1 | 1 | | | | | 9 |
| Tilia amer. | | 1 | 2 | | | | | 1 | | | 1 | 1 | | | | | | | 6 |
| Jug. cinerea | | | | | | | | | | | | | | | | | | | |
| Ulmus amer. | 1 | | | | 1 | | | | | | | | | | | 1 | | | 2 |
| Celtis occ. | | | | | | | | | | | | | | | | | | | |
| Ulm. rubra | | | | | | | | | | | | | | | | | | | |
| Carya cord. | | | | 1 | | | | | | | | | | | | | | | 1 |
| Ostrya virg. | | | | | | | | | | | | | | | | | | | 1 |
| Acer sacc. | | 1 | | | | | | | | | | | | | | | | | 1 |
| | 2 | | | | | | | | | | | | | | | | | | 80 |
| Air Dist | 17.4 | | | | | | | | | | | | | | | | | | |
| Air BA | 97.4 | | | | | | | | | | | | | | | | | | |
| Trees/acre | 166 | | | | | | | | | | | | | | | | | | |
| Dom/acre | 16,168 | | | | | | | | | | | | | | | | | | |

{ slt slp
cutting on 1 side

| Tree | BA | S | Tree | BA | S | Tree | BA | S |
|-----------------|----|----|----------------|----|---|----------------|----|---|
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | 35 | 45 | 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 | | |
| C. ovata | | | Prunus americ. | | | Ulmus american | | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

Distance:

16 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 | 20 | 150 |
| 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:

16 ft

| | | | | | | | | |
|-----------------|--|--|----------------|--|--|----------------|----|--|
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | | | Fraxinus amer. | | | Quercus alba | 30 | |
| A. saccharinum | | | F. nigra | | | Q. bicolor | | |
| A. saccharum | | | F. pennsylvan. | | | Q. ellipsoid. | | |
| Amelanchier sp. | | | Juglans cinere | | | Q. macrocarpa | | |
| Betula lutea | | | J. nigra | | | Q. rubra | 90 | |
| 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:

15 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 | 70 | 120 |
| 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:

15 ft

| 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 | | | C. rubra | 40 | 55 |
| 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:

11 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 | 170 | |
| 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:

11 ft.

| | | | | | | | | |
|-----------------|--|--|----------------|--|--|----------------|-----|-------------|
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | | | Fraxinus amer. | | | Quercus alba | 600 | open ground |
| A. saccharinum | | | F. nigra | | | Q. bicolor | | |
| A. saccharum | | | F. pennsylvan. | | | Q. ellipsoid. | | |
| Amelanchier sp. | | | Juglans cinere | | | Q. macrocarpa | | |
| Betula lutea | | | J. nigra | | | C. rubra | 55 | |
| B. nigra | | | Ostrya virgin. | | | Q. velutina | | |
| B. papyrifera | | | Populus deltoi | | | Robinia pseudo | | |
| Carpinis 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:

16 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 | 85 |
| B. nigra | | | Ostrya virgin. | | | C. 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 1/2 ft.

| 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 | 120 | 80 |
| 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: | 10 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 | 35 | |
| B. nigra | | | Ostrya virgin. | | | Q. velutina | | |
| B. papyrifera | | | Populus deltoi | | | Robinia pseudo | | |
| Carpinus carol | | | P. grandident. | 26 | | 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 1/2 ft | |
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | 26 | | 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 | | |
| Carpinis 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: | 9 ft | |
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | 45 | | 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. | 24 | | 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 | |

| Tree | BA | S | Tree | BA | S | Tree | BA | S | 1029 |
|-----------------|----|---|----------------|----|-----|----------------|-----------|---|---------|
| 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 | | | 210 |
| B. nigra | | | Ostrya virgin. | | | Q. velutina | | | |
| B. papyrifera | | | Populus deltoi | | | Robinia pseudo | | | |
| Carpinus carol | | | P. grandident. | | 185 | 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 | | |
| 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 | | | 14, 290 |
| 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: | 22 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, 45 |
| 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: | 10 1/2 ft | | |
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | | |
| A. rubrum | | | Fraxinus amer. | | | Quercus alba | | | 115 |
| 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: | 18 ft | | |

1029

| 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, 26 |
| 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.

| | | | | | | | | |
|-----------------|--|--|----------------|--|--|----------------|--|-----|
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | | | Fraxinus amer. | | | Quercus alba | | 40 |
| A. saccharinum | | | F. nigra | | | Q. bicolor | | |
| A. saccharum | | | F. pennsylvan. | | | Q. ellipsoid. | | |
| Amelanchier sp. | | | Jugland 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:

15 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, 55 |
| B. nigra | | | Ostrya virgin. | | | Q. velutina | | |
| B. papyrifera | | | Populus deltoi | | | Robinia pseudo | | |
| Carpinis 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:

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 | | 125, 28 |
| 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.

Bismarck

| 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 | | |
| C. ovata | | | Prunus americ. | | | Ulmus american | | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

1 seen

Shrubs & Herbs

- Aetaea 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

4/10/10

- 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 proclif.
- 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

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

Senecio

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 burgans
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 canad.
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 canad.
H. scabrum
Hydrophyllum append.
Hypoxis hirsuta
Ilex verticillata
Juncus tenuis
Juniperus communis
J. virginiana
Krigia biflora
Lathyrus venosus
Lilium philadel.
Liparis liliifolia
Lobelia cardinalis
Lonicera dioica
L. hirsuta
Luzula acuminata
L. Multiflora
Miliun effusum
Mitchella 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. icensis
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.
Tarax canadensis
Thalictrum dasycarp.
Thaspium aureum
Tradescantia ohio.
Uvularia sessilif.
Vaccinium canad.
Veronica serpyllif.
Viburnum lentago
V. trilobum
Vicia americana
Viola conspersa
V. incognita

Additional Species:

| 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 | 140 | |
| 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 | 22 | | | | |

Distance: 18.5

| 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. |
| 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 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 | Thimbleweed |
| 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. | C. 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 |

2

 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. 14
 Populus deltoi
 P. grandident.
 P. tremuloides
 Prunus americ.
 P. pennsylvan.
 P. serotina

Prunus virgin.
 Quercus alba
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra 120
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

Distance: 13

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.
 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.
 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

| 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 | 55 | 55 |
| 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: 17.5

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. |
| 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 | Lapoula 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 |
| Cornus altern. | Nitella 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
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

105
 100

4

Distance: 25

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.
 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.
 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
 Veronicaster 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 22
 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 155
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

Distance: 76.5

Shrubs & Herbs

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.
 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

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 proclif.
 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
 Ixovularia 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 deltoi
 P. grandident. 12
 P. tremuloides
 Prunus americ.
 P. pennsylvan.
 P. serotina

Prunus virgin.
 Quercus alba
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra 260
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

Distance: 12

Shrubs & Herbs

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.
 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

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.
 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
 Veronicastrium virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

129

1029

7

Quercus rubra 12
Populus grandid 90

Dist 10'

1029

| Tree | BA | S | Tree | BA | S | Tree | BA | S |
|-----------------|-----|---|----------------|----|---|----------------|----|---|
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | 160 | | 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 | 35 | | P. tremuloides | | | Tilia american | | |
| C. ovata | | | Prunus americ. | | | Ulmus american | | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

Distance: 27

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
Athyrum 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. circaeans
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.
C. 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 | 190 | | Fraxinus amer. | | | Quercus alba | 50 | |
| 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:

17.5

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.
 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. circaeazans
 G. concinnum
 G. lanceolatum
 G. triflorum
 Geranium racul.
 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

10

| 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 | 150 | |
| B. nigra | | | Ostrya virgin. | | | Q. velutina | | |
| B. papyrifera | | | Populus deltoi | | | Robinia pseudo | | |
| Carpinus carol | | | P. grandident. | | | Sorbus americ. | | |
| Carya cordifor | | | P. tremuloides | | | Tilia american | 14 | |
| C. ovata | | | Prunus americ. | | | Ulmus american | | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

Distance: 26

- 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.
- 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.
- 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

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

Acer negundo
 A. rubrum 12
 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 145
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

Distance: 18.5

Shrubs & Herbs

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.
 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

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
 Iivularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

129

12

| 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 | 300 | |
| 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 | 270 | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

Distance: 17

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.
 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.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera proclif.
 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 | 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 | 135 | | Populus deltoi | | | Robinia pseudo | | |
| Carpinus carol | | | P. grandident. | | | Sorbus americ. | | |
| Carya cordifor | | | P. tremuloides | | | Tilia american | | |
| C. ovata | | | Prunus americ. | | | Ulmus american | 40 | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

Distance:

29

| Shrubs & Herbs | |
|----------------------|-----------------------|
| Actaea sp. | Eupatorium purpur. |
| Adiantum pedat. | Eupatorium rugosum |
| Agrimonia gryp. | Festuca obtusa |
| Allium tricocc. | Fragaria virgin. |
| Amphicarpa brac. | Galium aparine |
| Anemone quinque. | G. circaezans |
| A. virginiana | G. concinnum |
| Anemonella thal. | G. lanceolatum |
| Antennaria sp. | G. triflorum |
| Aplectrum hiem. | Geranium macul. |
| Apocynum andros. | Geum canadense |
| Aquilegia canad. | Goodyera pubesc. |
| Aralia nudicaul. | Habenaria bract. |
| A. racemosa | Hamamelis virg. |
| Arenaria later. | Helianthus strum. |
| Arisaema atrop. | Hepatica acutil. |
| Asarum canad. | Heuchera richard. |
| Aster macrophyll. | Hydrastis canad. |
| A. sagittifolius | Hydrophyllum virg. |
| A. shortii | Hystrix patula |
| Athyrium angust. | Impatiens biflora |
| Aureolaria grandif. | I. pallida |
| Botrychium vir. | Isopyrum bitern. |
| Brachyelytrum | Lactuca spicata |
| Campanula amer. | Laportea canad. |
| Carex albursina | Lappula virgin. |
| C. pennsylvan. | Lathyrus ochrol. |
| Caulophyllum thal. | Lonicera prolif. |
| Celastrus scan. | Lysimachia quadr. |
| Circaea latif. | Maianthemum can. |
| Claytonia virg. | Menispermum can. |
| Cornus altern. | Mitella diphylla |
| C. femina | Monarda fistulosa |
| C. rugosa | Orchis spectab. |
| Corylus americana | Oryzopsis racem. |
| Cryptotaenia canad. | Osmorhiza clayton. |
| Cypripedium pubesc. | C. longistylis |
| Cystopteris frag. | Osmunda clayton. |
| Dentaria laciniata | Panax quinquef. |
| Desmodium acumin. | Panicum latifolium |
| D. nudiflorum | Parietaria pennsylv. |
| Dicentra cucullaria | Parthenocissus vit. |
| Dodecatheon meadia | Phlox divaricata |
| Dryopteris spinulosa | Phryma leptostachya |
| Erigeron pulchellus | Podophyllum pelt. |
| Erythronium albidum | 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
 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
 Ulmus american
 U. fulva

300
 400

Distance: 21

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.
 Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cyripedium 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 prclif.
 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 | : BA | : S |
|-----------------|------|-----|----------------|------|-----|----------------|------|-----|
| Acer negundo | | | Fagus grandif. | | | Prunus virgin. | | |
| A. rubrum | | | Fraxinus amer. | | | 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 | 75 | |
| 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: 15

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.
 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.
 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

16

----- : 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
Q. bicolor
Q. ellipsoid.
Q. macrocarpa
Q. rubra
Q. velutina
Robinia pseudo
Sorbus americ.
Tilia american
Ulmus american
U. fulva

40

160

Distance: 7

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.
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.
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

| 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 | 85 | |
| C. ovata | | | Prunus americ. | | | Ulmus american | 20 | |
| Celtis occiden | | | P. pennsylvan. | | | U. fulva | | |
| Crataegus sp. | | | P. serotina | | | | | |

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Distance: 24

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.
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.
Lappula virgin.
Lathyrus ochrol.
Lonicera proclif.
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

20

 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
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra — 270
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american 22
 Ulmus american
 U. fulva

Distance: 12

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.
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 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.
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 Celastrus scan.
 Circaea latif.
 Claytonia virg.
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 C. femina
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 Dentaria laciniata
 Desmodium acumin.
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