Woody Shrubs for Storm Water Retention
Species: *Amorpha fruticosa*

Desert False Indigo

**Cultivar Information**

* See specific cultivar notes on next page.

**Ornamental Characteristics**

| Size: Shrub > 8 feet |
| Height: 6-15' |
| Leaves: Deciduous |
| Shape: leggy quality; best when massed |
| Ornamental Other: native to the southeastern United States, it has naturalized well outside of its native range, can become aggressively weedy in some areas |

**Environmental Characteristics**

| Light: Full sun, Part shade |
| Hardy To Zone: 3a |
| Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0) |
| Salt Tolerance: Tolerates salt spray |
| Environmental Other: Nitrogen fixer |

**Insect Disease**

No diseases listed

**Bare Root Transplanting**

Any

**Cultivars for Amorpha fruticosa**

Showing 1-3 of 3 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albiflora</td>
<td>'Albiflora' - a white flowering form</td>
</tr>
<tr>
<td>Crispa</td>
<td>'Crispa' - curly-leaved form</td>
</tr>
<tr>
<td>Cultivar Name</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Lewisii</td>
<td>'Lewisii' - narrow leaved variety</td>
</tr>
</tbody>
</table>
Photos

Amorpha fruticosa

Amorpha fruticosa leaves
Amorpha fruticosa - Flowers

Amorpha fruticosa - Habit

Amorpha fruticosa - Habit
Amorpha fruticosa - Leaves

Amorpha fruticosa - Leaves

Amorpha fruticosa - Leaves
### Species: *Aronia arbutifolia*

(ah-ron'e'-ee-ah ar-bue-ti'-fo'lee-ah)

Red Chokeberry

#### Cultivar Information

* See specific cultivar notes on next page.

#### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet
- **Height:** 6' - 12'; (spread 3' - 12')
- **Leaves:** Deciduous
- **Shape:** leggy quality; best when massed
- **Ornamental Other:** bright red fruit clusters in fall; brilliant red/purple fall color; needs to be massed - can become leggy prefers full sun or partial shade

#### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** prefers full sun or partial shade

#### Insect Disease

attractive to Deer

#### Bare Root Transplanting

Any

#### Other

native to eastern U.S.; transplants well; good for wetland reclamation sites; deer love this plant

### Cultivars for *Aronia arbutifolia*

Showing 1-3 of 3 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erecta</td>
<td>'Erecta' - more fastigiate habit than species</td>
</tr>
<tr>
<td>Brilliantissima</td>
<td>'Brilliantissima' - probably more commonly found in nurseries than the straight species. Improved flowering, fruiting, and foliage luster and color</td>
</tr>
<tr>
<td>A. x prunifolia</td>
<td>A. x prunifolia - a naturally occurring hybrid between A. arbutifolia and A. melanocarpa</td>
</tr>
</tbody>
</table>
Photos

Aronia arbutifolia - Leaves

Aronia arbutifolia - Foliage, Habit
Aronia arbutifolia - Flowers

Aronia arbutifolia - Leaves, Fruit

Aronia arbutifolia - Leaves
Aronia arbutifolia - Leaves, Fruit

Aronia arbutifolia - Fruit

Aronia arbutifolia - Habit
Aronia arbutifolia - Habit
Species: *Aronia melanocarpa*
(ah-ron'ee-ah mel-an-o-kar'pah)

Black Chokeberry

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet
- **Height:** 3' - 5' (10')
- **Leaves:** Deciduous
- **Shape:** multi-stem, suckering, upright shrub

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 3b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** wine red fall color; blackish-purple fruit

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Other

native to eastern U.S.; suckers profusely; a good choice for wetland reclamation sites; note this plant has black fruit but *A. arbutifolia* has red

### Cultivars for *Aronia melanocarpa*

Showing 1-7 of 7 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viking</td>
<td>'Viking' - glossy deep green foliage; brilliant red fall color; large black edible fruits; mid-sized cultivar (3 - 6' tall)</td>
</tr>
<tr>
<td>var. elata</td>
<td>var. elata - a larger plant overall and with larger individual parts (leaves, flowers, fruits)</td>
</tr>
<tr>
<td>Autumn Magic</td>
<td>'Autumn Magic' - more compact than the species (3 -5' tall) with improved fruit set and bright red-purple fall color</td>
</tr>
<tr>
<td>Iroquois Beauty</td>
<td>'Iroquois Beauty' (a.k.a. 'Morton') - dwarf form (2 - 3' tall)</td>
</tr>
<tr>
<td>Ground Hog</td>
<td>Dwarf, grows as thick, dense mat, 1' tall</td>
</tr>
<tr>
<td>Low Scape Hedger</td>
<td>Compact, narrow form; requires less maintenance than 'Viking,' good for hedges or mass planting. 3-5' tall</td>
</tr>
<tr>
<td>Low Scape Mound</td>
<td>Dwarf, 1-2' tall, 2' wide</td>
</tr>
</tbody>
</table>
Photos

Aronia melanocarpa - Leaf, Fall Interest
Aronia melanocarpa - Bark

Aronia melanocarpa - Leaves, Fruit

Aronia melanocarpa - Leaves
Aronia melanocarpa - Leaves, Flowers

Aronia melanocarpa - Habit

Aronia melanocarpa - Leaf
Aronia melanocarpa - Habit
Species: *Baccharis halimifolia*

(bak´ä-ris ha-li-mi-fō´li-ȧ)

Groundseltree, Eastern Baccharis

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub > 8 feet, Shrub 4 to 8 feet
- **Height:** 5-12’
- **Leaves:** Deciduous
- **Shape:** rounded, upright
- **Ornamental Other:** Dioecious flowers. White fruits are showy

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 5b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray, Tolerates salty soil
- **Environmental Other:** Tolerant of salt and extremely poor soils, showy white fruits, can be treated as an herbaceous perennial in cold climates

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Other

Native to coastal Atlantic states, Georgia to Massachusetts

### Cultivars for *Baccharis halimifolia*

Showing 1-2 of 2 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Caps</td>
<td>'White Caps' compact, upright form; bluish foliage; heavier fruit production, female</td>
</tr>
<tr>
<td>B. glomeruliflora</td>
<td>B. glomeruliflora - a more southern relative, hardy from Zone 8-10</td>
</tr>
</tbody>
</table>
Photos

Baccharis halimifolia flowers

Baccharis halimifolia flowers
Baccharis halimifolia habit

Baccharis halimifolia habit
Baccharis halimifolia habit
Woody Shrubs for Storm Water Retention

Baccharis halimifolia - Habit

Baccharis halimifolia - Habit

Baccharis halimifolia - Habit

Baccharis halimifolia - Habit
Species: *Cephalanthus occidentalis*

**Buttonbush**

**Cultivar Information**

* See specific cultivar notes on next page.

**Ornamental Characteristics**

- **Size:** Shrub 4 to 8 feet
- **Height:** 4-10'
- **Leaves:** Deciduous
- **Shape:** rounded to arching

**Environmental Characteristics**

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 3b
- **Soil Ph:** Can tolerate acid to neutral soil (pH 5.0 to 7.4)
- **Salt Tolerance:** Tolerates salt spray, Tolerates salty soil

**Insect Disease**

No diseases listed

**Bare Root Transplanting**

Any

**Other**

Native to Eastern North America

**Cultivars for Cephalanthus occidentalis**

Showing 1-2 of 2 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultivar Name</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------------</td>
</tr>
<tr>
<td>Sputnik</td>
<td>'Sputnik' - larger blooms and longer bloom period than species; pinkish flowers</td>
</tr>
<tr>
<td>Sugar Shack</td>
<td>'Sugar Shack' - semi-dwarf to 4 feet; bright red fruits</td>
</tr>
</tbody>
</table>
Photos

'Sugar Shack' compact, shorter buttonbush

Cephalanthus occidentalis - Flower
Cephalanthus occidentalis - Habit

Cephalanthus occidentalis - Habit

Cephalanthus occidentalis - Habit
Woody Shrubs for Storm Water Retention
Species: *Clethra alnifolia*

(kleh'thra al-ni-fo'lee-ah)

Summer Sweet Clethra

<table>
<thead>
<tr>
<th>Cultivar Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>* See specific cultivar notes on next page.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ornamental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size:</strong> Shrub 4 to 8 feet</td>
</tr>
<tr>
<td><strong>Height:</strong> 4' - 8' (spreading slowly in clumps to 8')</td>
</tr>
<tr>
<td><strong>Leaves:</strong> Deciduous</td>
</tr>
<tr>
<td><strong>Shape:</strong></td>
</tr>
<tr>
<td><strong>Ornamental Other:</strong> can tolerate shady or sunny locations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Light:</strong> Full sun, Part shade</td>
</tr>
<tr>
<td><strong>Hardy To Zone:</strong> 4b</td>
</tr>
<tr>
<td><strong>Soil Ph:</strong> Requires acid (pH 5.0 to 7.0)</td>
</tr>
<tr>
<td><strong>Salt Tolerance:</strong> Tolerates salt spray</td>
</tr>
<tr>
<td><strong>Environmental Other:</strong> can tolerate shady or sunny locations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insect Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>No diseases listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bare Root Transplanting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native to E.North America</td>
</tr>
</tbody>
</table>

**Cultivars for *Clethra alnifolia***

Showing **1-11 of 11** items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paniculata</td>
<td>'Paniculata' - more vigorous than the species, features large panicles of fragrant flowers in August</td>
</tr>
<tr>
<td>Hummingbird</td>
<td>'Hummingbird' - low spreading variety with large, white flowers</td>
</tr>
<tr>
<td>Pink Spires</td>
<td>'Pink Spires’ - rose pink buds that fade to white as they bloom</td>
</tr>
<tr>
<td>Rosea</td>
<td>'Rosea' - Pink buds and light pink flowers</td>
</tr>
<tr>
<td>Ruby Spice</td>
<td>'Ruby Spice' - rose pink flowers that do not lose color</td>
</tr>
<tr>
<td>September Beauty</td>
<td>'September Beauty' - Slightly more compact than species; late white flowers</td>
</tr>
<tr>
<td>Sixteen Candles</td>
<td>'Sixteen Candles' - particularly fragrant flowers, golden fall color</td>
</tr>
<tr>
<td>Anne Bidwell</td>
<td>'Anne Bidwell' - flowers larger than species; compact, to 6' tall</td>
</tr>
<tr>
<td>Creels Calico</td>
<td>'Creels Calico' - variable creamy white variegated foliage; white flowers; matures to 4' tall</td>
</tr>
<tr>
<td>Vanilla Spice</td>
<td>'Vanilla Spice' (a.k.a. 'Caleb') - Extra-large white flowers in 10-12&quot; panicles; compact size</td>
</tr>
<tr>
<td>Crystalina</td>
<td>Dwarf Clethra that maintains its tight dense shape; 2.5-3’ tall.</td>
</tr>
</tbody>
</table>
Photos

Clethra alnifolia Bark ED

Clethra alnifolia flower
Woody Shrubs for Storm Water Retention

Clethra alnifolia Pink Flowers ED

Clethra alnifolia full10

Clethra alnifolia Flowers ED
Woody Shrubs for Storm Water Retention

Clethra alnifolia full

Clethra alnifolia Foliage ED

IMG 0027
Species: *Cornus amomum*

Silky Dogwood

<table>
<thead>
<tr>
<th>Cultivar Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* See specific cultivar notes on next page.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ornamental Characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: Shrub &gt; 8 feet, Shrub 4 to 8 feet</td>
<td></td>
</tr>
<tr>
<td>Height: 12’</td>
<td></td>
</tr>
<tr>
<td>Leaves: Deciduous</td>
<td></td>
</tr>
<tr>
<td>Shape: Irregular, layering to form colonies</td>
<td></td>
</tr>
<tr>
<td>Ornamental Other:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Light: Full sun, Part shade, Shade</td>
<td></td>
</tr>
<tr>
<td>Hardy To Zone: 4a</td>
<td></td>
</tr>
<tr>
<td>Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insect Disease</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No serious pests or diseases; occasionally susceptible to scale, borers, leaf miners, leaf spot, crown canker, blights, root rot, and powdery mildew</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bare Root Transplanting</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Any</td>
<td></td>
</tr>
</tbody>
</table>

Cultivars for *Cornus amomum*

Showing 1-3 of 3 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Cloud</td>
<td>'Blue Cloud' - bluish foliage; particularly blue fruit</td>
</tr>
<tr>
<td>Cinderella</td>
<td>'Cinderella' - ivory variegated foliage</td>
</tr>
<tr>
<td>Red Rover</td>
<td>Purple to red fall color; red stems in winter; 4-5’ tall</td>
</tr>
</tbody>
</table>
Photos

Cornus amomum - Fruit
### Species: *Cornus racemosa*

(kore'nus race eh-mosa)

Gray Dogwood

<table>
<thead>
<tr>
<th>Cultivar Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>* See specific cultivar notes on next page.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ornamental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: Shrub 4 to 8 feet</td>
</tr>
<tr>
<td>Height: 10' - 15' (spread 10' - 15'; easily maintained at 6' - 8'))</td>
</tr>
<tr>
<td>Leaves: Deciduous</td>
</tr>
<tr>
<td>Shape: Multi-stemmed large shrub, rarely single stemmed</td>
</tr>
<tr>
<td>Ornamental Other:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light: Full sun, Part shade</td>
</tr>
<tr>
<td>Hardy To Zone: 3b</td>
</tr>
<tr>
<td>Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
</tr>
<tr>
<td>Environmental Other: Wide range of moisture tolerance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insect Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>No diseases listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bare Root Transplanting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>spreads by suckering; good choice for roadside locations; can be pruned to within inches of the ground to increase fullness; has been grown as a small standard tree for use in restricted spaces. Native to Northeast U.S.</td>
</tr>
</tbody>
</table>

### Cultivars for *Cornus racemosa*

Showing **1-8** of **8** items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slavinii</td>
<td>'Slavinii' - dwarf form to 2-3’ with a 4’ spread; dense habit; short internodes; slightly twisted leaves</td>
</tr>
<tr>
<td>Emerald</td>
<td>'Emerald' - Glossy green leaves, superior form, pinkish fruits</td>
</tr>
<tr>
<td>Cuyahoga</td>
<td>'Cuyahoga' - Pyramidal tree form</td>
</tr>
<tr>
<td>Geauga</td>
<td>'Geauga' - A dense multi-stemmed with dark-green foliage and reddish new growth</td>
</tr>
<tr>
<td>Huron</td>
<td>'Huron' - rounded, globular form; 4’ tall and wide; notable red fall color</td>
</tr>
<tr>
<td>Mahoning</td>
<td>'Mahoning' - a stoloniferous spreader to 10’ tall; notable grey winter stem color</td>
</tr>
<tr>
<td>Muskingum</td>
<td>'Muskingum' - a dwarf form; 2’ tall and 4’ wide</td>
</tr>
<tr>
<td>Ottawa</td>
<td>'Ottawa' - Fastigiate tree form; 12’ tall and 6’ wide</td>
</tr>
</tbody>
</table>
Photos

Cornus racemosa - Bud

Cornus racemosa - Flowers
Cornus racemosa - Habit

Cornus racemosa - Flowers, Leaves

Cornus racemosa - Habit
Cornus racemosa - Leaves

Cornus racemosa - Flowers

Cornus foemina
Cornus racemosa - Fruit
Species: *Cornus sanguinea*
(KOR-nus san-GWIN-ee-a)

Bloodtwig Dogwood

**Cultivar Information**

* See specific cultivar notes on next page.

**Ornamental Characteristics**

- **Size:** Shrub > 8 feet, Shrub 4 to 8 feet
- **Height:** 6'-15' H; 6'-15' W
- **Leaves:** Deciduous
- **Shape:** spreading, round-topped, multi-stemmed
- **Ornamental Other:** tolerates range of soil conditions

**Environmental Characteristics**

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 5a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Environmental Other:** suckers freely from roots and forms colony; needs frequent pruning to keep it presentable

**Insect Disease**

- **No diseases listed**

**Bare Root Transplanting**

- **Any**

**Other**

- **Not a specimen plant; use in mass plantings. Native to Europe**

**Cultivars for *Cornus sanguinea***

Showing 1-5 of 5 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Flame</td>
<td>'Winter Flame' - stems are fiery orange-yellow at the base and grade to pink and red at the tips; golden yellow fall color</td>
</tr>
<tr>
<td>Viridissima</td>
<td>'Viridissima' - yellowish green winter stems; best color occurs on current year's growth</td>
</tr>
<tr>
<td>Arctic Sun</td>
<td>'Arctic Sun' - dwarf; 3-4 feet high and wide</td>
</tr>
<tr>
<td>Compressa</td>
<td>'Compressa' - Fastigiate; dark green, deeply veined leaves; short internodes; few branches</td>
</tr>
<tr>
<td>Midwinter Fire</td>
<td>'Midwinter Fire' - improved winter stem color</td>
</tr>
</tbody>
</table>
Photos

Cornus sanguinea - Habit

Cornus sanguinea - Leaves, Flowers
Cornus sanguinea - Fruit

Cornus sanguinea - Flowers, Leaves

Cornus sanguinea - Buds
Cornus sanguinea - Habit

Cornus sanguinea - Immature Fruit

Cornus sanguinea - Habit, Winter Interest
Cornus sanguinea - Leaves, Buds
Species: *Cornus sericea or alba*
(kore'nus al'bah)

Red Twig Dogwood; Redosier Dogwood; Tatarian Dogwood

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet
- **Height:** 6' - 8' (spread 5' - 8')
- **Leaves:** Deciduous
- **Shape:** rounded
- **Ornamental Other:** Cut back every year or two to encourage new growth that has the best winter color

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 3a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** adaptable to cold; full sun or partial shade

### Insect Disease

- borers can be a serious problem on weak or stressed shrubs; also - crown canker, flower and leaf blight, leaf spots, powdery mildew, twig blights, root rots, dogwood club gall, leaf miner, scales, and more

### Bare Root Transplanting

- Easy

### Other

- Basal pruning required in early spring to maintain bright red stems; easily transplanted; *C. Sanquinea* also excellent twig color but less hardy (Zone 5). *C. alba* is native to East Asia; *C. sericea* is native to North America.
Cultivars for *Cornus sericea or alba*

Showing 1-17 of 17 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baileyi</td>
<td>'Baileyi' - <em>C. sericea</em> cultivar; good stem color, superior flowering and fruiting to species</td>
</tr>
<tr>
<td>Cardinal</td>
<td>'Cardinal' - <em>C. sericea</em> cultivar; superior stem color</td>
</tr>
<tr>
<td>Flavravea</td>
<td>'Flavravea' - <em>C. sericea</em> cultivar; bright yellow bark, susceptible to canker</td>
</tr>
<tr>
<td>Isanti</td>
<td>'Isanti' - <em>C. sericea</em> cultivar; relatively dwarf form, 5-6 feet tall, low, dense, mounding; heavy fruiting</td>
</tr>
<tr>
<td>Kelseyi</td>
<td>'Kelseyi' - <em>C. sericea</em> cultivar; dwarf form, to 3 feet</td>
</tr>
<tr>
<td>Silver and Gold</td>
<td>'Silver and Gold' - <em>C. sericea</em> cultivar; yellow bark form with variegated leaves</td>
</tr>
<tr>
<td>Alleman’s Compact</td>
<td>'Alleman’s Compact' - <em>C. alba</em> cultivar; relatively dwarf form, to 6’ tall</td>
</tr>
<tr>
<td>Elegantissima</td>
<td>'Elegantissima' - <em>C. alba</em> cultivar; white variegated foliage</td>
</tr>
<tr>
<td>Ivory Halo</td>
<td>'Ivory Halo' - <em>C. alba</em> cultivar; white variegated foliage with more dense, compact habit than ‘Elegantissima’</td>
</tr>
<tr>
<td>Bloodgood</td>
<td>'Bloodgood' - <em>C. alba</em> cultivar; markedly showy red stems</td>
</tr>
<tr>
<td>Bud's Yellow</td>
<td>'Bud’s Yellow' - <em>C. alba</em> cultivar; bright yellow stems, a good substitute for the disease-prone <em>C. sericea</em> 'Flavravea'</td>
</tr>
<tr>
<td>Gouchaultii</td>
<td>'Gouchaultii' - <em>C. alba</em> cultivar; yellow, pink, and white variegated leaves</td>
</tr>
<tr>
<td>Siberian Pearls</td>
<td>'Siberian Pearls' - superior flowers and fruits; white fruits mature to blue</td>
</tr>
<tr>
<td>Sibirica</td>
<td>'Sibirica' - superior coral-red stems and bluish fruits</td>
</tr>
<tr>
<td>Spaethii</td>
<td>'Spaethii' - yellow variegated leaves</td>
</tr>
<tr>
<td>Arctic Fire</td>
<td>Dark red stems, a compact version of 'Baileyi’</td>
</tr>
<tr>
<td>Pucker Up</td>
<td>Puckered, thick, glossy foliage; compact growth; 3-4’tall.</td>
</tr>
</tbody>
</table>
Photos

Cornus alba - Winter Interest

Cornus sericea - Bud
Cornus sericea - Fruit

Cornus sericea - Buds

Cornus sericea - Habit
Cornus alba - Leaves

Cornus sericea - Bark

Cornus alba 'Argenteo-marginata' - Habit
Cornus sericea or alba - Fruit, Leaves
Species: *Dasiphora (Potentilla) fruticosa*

(poe-ten-ti’ah frue-tih-ko’e’sah)

Shrubby Cinquefoil

<table>
<thead>
<tr>
<th>Cultivar Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 130 named cultivars which vary according to flower color and mildew resistance; below are a few of the most noteworthy.</td>
</tr>
<tr>
<td>* See specific cultivar notes on next page.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ornamental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: Shrub &lt; 4 feet</td>
</tr>
<tr>
<td>Height: 3’ - 4’ (spread 8’)</td>
</tr>
<tr>
<td>Leaves: Deciduous</td>
</tr>
<tr>
<td>Shape: rounded, dense, multi-stem</td>
</tr>
<tr>
<td>Ornamental Other: Will tolerate cold climates; not as drought tolerant as thought</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light: Full sun</td>
</tr>
<tr>
<td>Hardy To Zone: 3a</td>
</tr>
<tr>
<td>Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
</tr>
<tr>
<td>Environmental Other: bright yellow flowers bloom all summer and into fall; capsules persist at twig tips; twigs attract deer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insect Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>susceptible to powdery mildew</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bare Root Transplanting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>native to northern hemisphere; transplants easily; slow-growing; needs rejuvenation pruning</td>
</tr>
</tbody>
</table>
## Cultivars for *Dasiphora (Potentilla) fruticosa*

Showing **1-14** of **14** items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth</td>
<td>'Elizabeth' - yellow flowering</td>
</tr>
<tr>
<td>Goldfinger</td>
<td>'Goldfinger' - deep yellow flowers</td>
</tr>
<tr>
<td>Longacre</td>
<td>'Longacre' - possibly the most mildew resistant cultivar, yellow flowers</td>
</tr>
<tr>
<td>McKay's White</td>
<td>'McKay's White' - creamy white flowers</td>
</tr>
<tr>
<td>Marob</td>
<td>'Marob' - bright red flowers</td>
</tr>
<tr>
<td>Abbotswood</td>
<td>'Abbotswood' - prolific white flowers; bluish foliage</td>
</tr>
<tr>
<td>Abbotswood Silver</td>
<td>'Abbotswood Silver' - same as above but with white variegated leaves</td>
</tr>
<tr>
<td>Gold Drop</td>
<td>'Gold Drop' - rounded plant to 3 feet; yellow flowers; long-blooming</td>
</tr>
<tr>
<td>Pink Beauty</td>
<td>'Pink Beauty' - clear pink blossoms, semi-dwarf to 2 feet</td>
</tr>
<tr>
<td>Snowbird</td>
<td>'Snowbird' - white blossoms; double-flowering; lustrous foliage</td>
</tr>
<tr>
<td>Mango Tango</td>
<td>'Mango Tango' - bicolor flowers; orange-red radiating to yellow</td>
</tr>
<tr>
<td>Red Robin</td>
<td>'Red Robin' - red flowers that fade slightly to orange</td>
</tr>
<tr>
<td>Sundance</td>
<td>'Sundance' - double, yellow flowers</td>
</tr>
<tr>
<td>Yellow Gem</td>
<td>'Yellow Gem' - yellow flowers with ruffled petals</td>
</tr>
</tbody>
</table>
Photos

Potentilla fruticosa - flowers

closeup of Dasiphora leaf
Potentilla fruticosa - Flowers

Potentilla fruticosa - Fruit, Habit

Potentilla fruticosa - Flowers
Potentilla fruticosa - Flowers, Leaves

Potentilla fruticosa - Habit

Potentilla fruticosa - Bark
Potentilla fruticosa - Habit
Species: *Diervilla spp.*

(deer-vill'lah)

Dwarf Bush Honeysuckle

### Cultivar Information

This is a genus with very few current cultivars, but its adaptability to urban environments may mean that more varieties will be forthcoming.

D. lonicera and D. sessilifolia are two very closely related species.

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub < 4 feet, Groundcover
- **Height:** 3' - 5' (spread 3' - 5')
- **Leaves:** Deciduous
- **Shape:** spreading
- **Ornamental Other:** full sun to moderate shade; trouble free

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** deep yellow trumpet shaped flowers in late June; early to leaf out; late to drop its leaves; good for mass planting on banks or large scale groundcover

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Other

very vigorous, Native South Eastern US. Native range maps show closely related species D. lonicera and D. sessilifolia
Cultivars for *Diervilla* spp.

Showing 1-6 of 6 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. lonicera 'Copper'</td>
<td>D. lonicera 'Copper' - new leaves are copper colored</td>
</tr>
<tr>
<td>D. sessilifolia 'Butterflies'</td>
<td>'Butterflies' - excellent red fall color</td>
</tr>
<tr>
<td>Cool Splash</td>
<td>'Cool Splash' - white and green variegated foliage</td>
</tr>
<tr>
<td>Kodiak Orange</td>
<td>New spring foliage is orange. Orange fall color too. Very shade tolerant.</td>
</tr>
<tr>
<td>Kodiak Black</td>
<td>Dark burgundy foliage</td>
</tr>
<tr>
<td>Kodiak Red</td>
<td>Red spring foliage, red new growth and red fall color. Bright yellow flowers.</td>
</tr>
</tbody>
</table>
Photos
Woody Shrubs for Storm Water Retention
Diervilla sessilifolia - Leaves
Diervilla sessilifolia - Leaves

Diervilla sessilifolia - Flowers

Diervilla sessilifolia - Leaves
Species: *Hippophae rhamnoides*

(hi-pof'ay-ee ram-noy'deez)

Sea Buckthorn; Common Sea Buckthorn

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet, Shrub < 4 feet
- **Height:** 8' - 15'; equal spread
- **Leaves:** Deciduous
- **Shape:** irregular, rounded
- **Ornamental Other:** Full sun; grows well in seaside sites, for ornamental purposes, male plants/sterile cultivars('Spite') are best due to the potential for this species to become invasive

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray, Tolerates salty soil
- **Environmental Other:** silver/green willowlike leaves; bright orange berries in winter add seasonal interest

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Other

Need ratio of 6 females to 1 male for pollination to ensure fruit production; Fruit cultivated for fruit production; Native to Europe - Northern and Western China
Cultivars for *Hippophae rhamnoides*

Showing 1-3 of 3 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chuyskaya</td>
<td>Many female cultivars have been selected for fruit yield largely in Russia and northern Europe: 'Chuyskaya' - improved fruit yield 'Karima' - improved fruit yield 'Sprite' Dwarf male, fruitless</td>
</tr>
<tr>
<td>Karima</td>
<td>Many female cultivars have been selected for fruit yield largely in Russia and northern Europe: 'Chuyskaya' - improved fruit yield 'Karima' - improved fruit yield 'Sprite' Dwarf male, fruitless</td>
</tr>
<tr>
<td>Sprite</td>
<td>Many female cultivars have been selected for fruit yield largely in Russia and northern Europe: 'Chuyskaya' - improved fruit yield 'Karima' - improved fruit yield 'Sprite' Dwarf male, fruitless</td>
</tr>
</tbody>
</table>
Photos
Hippophae rhamnoides - Fruit

Hippophae rhamnoides - Leaves

Hippophae rhamnoides - Leaves
Hippophae rhamnoides - Habit

Hippophae rhamnoides - Fruit

Hippophae rhamnoides - Habit
Hippophae rhamnoides - Habit
Species: *Hypericum 'Hidcote'*

Hidcote St. Johnswort

### Ornamental Characteristics

<table>
<thead>
<tr>
<th>Size:</th>
<th>Shrub &lt; 4 feet, Groundcover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height:</td>
<td>18-24</td>
</tr>
<tr>
<td>Leaves:</td>
<td>Deciduous</td>
</tr>
<tr>
<td>Shape:</td>
<td>rounded</td>
</tr>
<tr>
<td>Ornamental Other:</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental Characteristics

<table>
<thead>
<tr>
<th>Light:</th>
<th>Full sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardy To Zone:</td>
<td>6b</td>
</tr>
<tr>
<td>Soil Ph:</td>
<td>Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
</tr>
</tbody>
</table>

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Photos
Hypericum 'Hidcote' - Flower

Hypericum 'Hidcote' - Leaf

Hypericum 'Hidcote' - Habit
Hypericum 'Hidcote' - Habit

Hypericum 'Hidcote' - Bark
Hypericum 'Hidcote' - Flower

Hypericum 'Hidcote' - Leaf

Hypericum 'Hidcote' - Fruit
Species: *Hypericum frondosum*
(hye-per‘i-kum fron-do-e-sum)

Golden St. Johnswort

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub < 4 feet, Groundcover
- **Height:** 3’ - 4’ (equal spread)
- **Leaves:** Deciduous
- **Shape:** round mounded
- **Ornamental Other:** prefers full sun

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 6a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Environmental Other:** bluish green foliage; bright yellow flowers bloom in June-July; reddish brown exfoliating bark

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Other

native to southeastern United States, May suffer from winter dieback in Zone 5.

Cultivars for *Hypericum frondosum*

Showing 1-1 of 1 item.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunburst</td>
<td>'Sunburst' - larger flowers, lower growing</td>
</tr>
</tbody>
</table>
Photos

Hypericum frondosum - Flowers

Hypericum frondosum - Fruit
Hypericum frondosum - Habit

Hypericum frondosum - Leaves, Flowers

Hypericum frondosum - Habit, Flowers
Hypericum frondosum - Bark

Hypericum frondosum - Leaves

Hypericum frondosum - Buds
Hypericum frondosum - Leaves, Fruit
Species: *Hypericum kalmianum*

Ames Kalm St. Johnswort

**Cultivar Information**

* See specific cultivar notes on next page.

**Ornamental Characteristics**

- **Size:** Shrub < 4 feet, Groundcover
- **Height:** 2-4' high and wide
- **Leaves:** Deciduous
- **Shape:** mounded
- **Ornamental Other:**

**Environmental Characteristics**

- **Light:** Full sun
- **Hardy To Zone:** 4b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** leaves bluish-green on top, glaucous beneath, bright yellow flowers in July, grass-like leaves provide fine texture when planted as a groundcover

**Insect Disease**

- No diseases listed

**Bare Root Transplanting**

- Any

**Cultivars for Hypericum kalmianum**

Showing 1-1 of 1 item.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultivar Name</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------</td>
<td>-------</td>
</tr>
<tr>
<td>Ames</td>
<td>'Ames'- most cold hardy, 2' tall</td>
</tr>
</tbody>
</table>
Photos
**Hypericum kalmianum 'Ames'** - Habit, Flowers

**Hypericum kalmianum 'Ames'** - Flowers

**Hypericum kalmianum 'Ames'** - Leaves
Hypericum kalmianum 'Ames' - Habit, Flowers

Hypericum kalmianum 'Ames' - Habit, Seeds, Leaves

Hypericum kalmianum 'Ames' - Bark
Hypericum kalmianum 'Ames' - Habit
Species: *Hypericum prolificum*

(hye-per’i-kum pro-lif’i-kum)

Shrubby St. Johnswort

### Ornamental Characteristics

<table>
<thead>
<tr>
<th>Size: Shrub &lt; 4 feet, Groundcover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height: 1’ - 4’ (equal spread)</td>
</tr>
<tr>
<td>Leaves: Deciduous</td>
</tr>
<tr>
<td>Shape: dense shrub with stiff, erect stems</td>
</tr>
<tr>
<td>Ornamental Other: full sun to part shade; tolerant of dry, rocky, heavy soils</td>
</tr>
</tbody>
</table>

### Environmental Characteristics

<table>
<thead>
<tr>
<th>Light: Full sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardy To Zone: 4b</td>
</tr>
<tr>
<td>Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
</tr>
<tr>
<td>Environmental Other: bright yellow flowers in June/Aug; bright green leaves provide fine texture</td>
</tr>
</tbody>
</table>

### Insect Disease

relatively trouble free; wilt may be a problem

### Bare Root Transplanting

Any

### Other

best transplanted from container. Native in US in mid Atlantic states west to Iowa, south to Georgia

### Photos
Hypericum prolificum Flower

Hypericum prolificum Flowers

Hypericum prolificum Flower Bud
Hypericum prolificum habit in flower

Hypericum prolificum Bark

Hypericum prolificum Foliage
Hypericum prolificum Immature Fruit
Species: *Ilex glabra*

(eye'leks glay'brah)

**Inkberry**

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet
- **Height:** 6' - 8' (spread 8' - 10')
- **Leaves:** Evergreen
- **Shape:**
- **Ornamental Other:** shade tolerant; protect from winter winds in northern reaches of hardiness

### Environmental Characteristics

- **Light:** Full sun, Part shade, Shade
- **Hardy To Zone:** 5a
- **Soil Ph:** Can tolerate acid to neutral soil (pH 5.0 to 7.4)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** broadleaf evergreen; well suited to mass planting or as a hedge; responds well to shearing; glossy green foliage; black fruit

### Insect Disease

usually trouble-free; mites can be a problem on dry sites

### Bare Root Transplanting

Any

### Other

native to eastern coastal US, north to Nova Scotia

### Cultivars for *Ilex glabra*

Showing 1-5 of 5 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compacta</td>
<td>'Compacta' - dense, oval habit</td>
</tr>
<tr>
<td>Ivory Queen</td>
<td>'Ivory Queen' - white fruited instead of black fruited</td>
</tr>
<tr>
<td>Nordic</td>
<td>'Nordic' - extremely cold hardy form; notable for its broad growth habit and dark green lustrous foliage; a male selection</td>
</tr>
<tr>
<td>Shamrock</td>
<td>'Shamrock' - best dwarf form with glossy deep green; rounded; 3 to 5' high</td>
</tr>
<tr>
<td>Gem Box</td>
<td>Dark green leaves and rounded habit. 2-3' wide and tall.</td>
</tr>
</tbody>
</table>
Photos

*Ilex glabra* - Leaves, Fruit

*Ilex glabra* - Leaves
Woody Shrubs for Storm Water Retention

Ilex glabra - Leaves

Ilex glabra - Leaves

Ilex glabra - Habit
Ilex glabra - Habit

Ilex glabra - Fruit

Ilex glabra - Flowers
Ilex glabra - Bark
Species: *Ilex verticillata*

(eye'leks ver-ti-si-lay'tah)

Winterberry

### Cultivar Information

There are many cultivars and varieties of this species. A fairly comprehensive list is below but others exist, and more are likely to be created in the future.

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet, Shrub < 4 feet
- **Height:** 6' - 8' (spread 6' - 12')
- **Leaves:** Deciduous
- **Shape:** Upright, rounded
- **Ornamental Other:** Dioecious and deciduous; there must be occasional males for pollination and fruiting

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4a
- **Soil Ph:** Can tolerate acid to neutral soil (pH 5.0 to 7.4)
- **Environmental Other:** Bright red fruits appear while leaves are still green and persist throughout winter; yellow fall color; deciduous; Requires male for pollination

### Insect Disease

- No diseases listed

### Bare Root Transplanting

- Any

### Other

- Native to Eastern N. America.
## Cultivars for *Ilex verticillata*

Showing 1-17 of 17 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afterglow</td>
<td>'Afterglow' - reddish orange fruits; very glossy leaves; compact habit</td>
</tr>
<tr>
<td>Aurantiaca</td>
<td>'Aurantiaca' - slightly dwarf to 5 feet; orange-red fruit that fades to orange-yellow; early flowering</td>
</tr>
<tr>
<td>Cacapon</td>
<td>'Cacapon' - slightly dwarf to 5 feet; heavy fruiting; glossy green leaves</td>
</tr>
<tr>
<td>Chrysocarpa</td>
<td>'Chrysocarpa' - yellow-fruited form</td>
</tr>
<tr>
<td>Jim Dandy</td>
<td>'Jim Dandy' - slightly dwarf to 5 feet; early flowering male clone for pollinating early flowering female cultivars ('Afterglow', 'Aurantiaca', 'Red Sprite', etc.)</td>
</tr>
<tr>
<td>Red Sprite</td>
<td>'Red Sprite' - dwarf female clone to 4' tall; low, mounding habit; early bloomer; very large, persistent red fruits</td>
</tr>
<tr>
<td>Shaver</td>
<td>'Shaver' - an early-flowering form, slightly dwarf to 5 feet; produces orange-red fruit and glossy leaves</td>
</tr>
<tr>
<td>Southern Gentlemen</td>
<td>'Southern Gentlemen' - late flowering male clone for pollinating late flowering female cultivars ('Cacapon', 'Sparkleberry', 'Shaver', 'Winter Gold', 'Winter Red', etc.)</td>
</tr>
<tr>
<td>Stoplight</td>
<td>'Stoplight' - newer late flowering selection with large, deep red fruit and glossy foliage; to 8 feet</td>
</tr>
<tr>
<td>Sunsplash</td>
<td>'Sunsplash' - female selection with splotchy yellow variegated leaves</td>
</tr>
<tr>
<td>Winter Gold</td>
<td>'Winter Gold' - late flowering female selection; pinkish or golden-orange fruit; light green leaves</td>
</tr>
<tr>
<td>Winter Red</td>
<td>'Winter Red' - one of the most popular cultivars; profuse bright red fruits; rounded; to 8 feet</td>
</tr>
<tr>
<td>Apollo</td>
<td>'Apollo' - Ilex verticillata x serrata hybrid; late flowering male clone with new growth emerging red</td>
</tr>
<tr>
<td>Autumn Glow</td>
<td>'Autumn Glow' - Ilex verticillata x serrata hybrid; dense growth to 10'</td>
</tr>
<tr>
<td>Bonfire</td>
<td>'Bonfire' - Ilex verticillata x serrata hybrid; profusion of early season fruits; fruit at an early age; mounding habit to 10 feet</td>
</tr>
<tr>
<td>Raritan Chief</td>
<td>'Raritan Chief' - Ilex verticillata x serrata hybrid; male clone useful for its long flowering period; to 12 feet; glossy green foliage</td>
</tr>
<tr>
<td>Sparkleberry</td>
<td>'Sparkleberry' - Ilex verticillata x serrata hybrid; popular cultivar; to 12 feet; long-persisting medium-sized fruit</td>
</tr>
</tbody>
</table>
Photos
Ilex verticillata Bark ED

Ilex verticillata Winter

Ilex verticillata Male Flower ED
Ilex verticillata Female Flowers ED

IIVe B BRBnewgarden
Species: *Itea virginica*

(eye-tee’ah ver-jin’i-kah)

Virginia Sweetspire; Virginia-willow

**Cultivar Information**

* See specific cultivar notes on next page.

**Ornamental Characteristics**

Size: Shrub < 4 feet  
Height: 3' - 5' (equal or greater spread)  
Leaves: Deciduous  
Shape: shrub with rounded - mounded, irregular habit

**Environmental Characteristics**

Light: Full sun, Part shade  
Hardy To Zone: 5a  
Soil Ph: Requires acid (pH 5.0 to 7.0)  
Salt Tolerance: Tolerates salt spray  
Environmental Other: full sun to heavy shade

**Insect Disease**

relatively trouble free

**Bare Root Transplanting**

Easy

**Other**

native to southeastern US, north to NJ; natural habitat is shaded stream banks; colonizing and irregular shrub; requires little to no maintenance

**Cultivars for Itea virginica**

Showing 1-7 of 7 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henry's Garnet</td>
<td>'Henry's Garnet' - more cold-tolerant with flowers and fall color superior to species</td>
</tr>
<tr>
<td>Little Henry</td>
<td>'Little Henry' - dwarf form to 4'</td>
</tr>
<tr>
<td>Long Spire</td>
<td>'Long Spire' - notably long racemes</td>
</tr>
<tr>
<td>Merlot</td>
<td>'Merlot' - compact habit with red fall foliage</td>
</tr>
<tr>
<td>Morton</td>
<td>'Morton' - best high pH tolerance, to 7.0 approximately</td>
</tr>
<tr>
<td>Sara Eve</td>
<td>'Sara Eve' - pale pink flowering</td>
</tr>
<tr>
<td>Saturnalia</td>
<td>'Saturnalia' - matures to a smaller size than species, comparable to 'Henry's Garnet'</td>
</tr>
</tbody>
</table>
Photos

Itea virginica - Bud

Itea virginica - Fall Interest
Itea virginica - Flowers

Itea virginica - Flowers

Itea virginica - Flowers
Itea virginica - Leaves

Itea virginica - Habit

Itea virginica - Fruit
Itea virginica - Bark
Species: *Morella (Myrica) pensylvanica*

(mo-rel'-ah pen-sil-vay'ni-kah)

Bayberry; Candleberry

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet
- **Height:** 6' - 8' (spread equal or greater)
- **Leaves:** Deciduous
- **Shape:** rounded
- **Ornamental Other:** capable of fixing and using atmospheric nitrogen; can handle poor soil conditions

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** aromatic, semi-evergreen leaves; waxy silver berries persist through winter; dioecious; females produce gray/blue berries; fruits and leaves are eaten by many winter birds

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Other

slow growing, native to Eastern (sea-shore sites) N. America.

### Cultivars for *Morella (Myrica) pensylvanica*

Showing 1-2 of 2 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobbee</td>
<td>'Bobbee' - female clone; dense growth; 6 to 8 feet high and wide</td>
</tr>
<tr>
<td>Silver Sprite</td>
<td>'Silver Sprite' - female clone; broadly mounding; silvery-grey leaves; semi-dwarf to 5 feet</td>
</tr>
</tbody>
</table>
Photos

Morella pensylvanica - Fruit

Morella pensylvanica - Fruit
Morella pensylvanica - Leaves

Morella pensylvanica - Bark

Morella pensylvanica - Leaves
Morella pensylvanica - Flowers
Species: *Physocarpus opulifolius*

(fye-so-kar’pus op-u-li-fo’lee-us)

Common Ninebark; Eastern Ninebark

<table>
<thead>
<tr>
<th>Cultivar Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>* See specific cultivar notes on next page.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ornamental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: Shrub 4 to 8 feet</td>
</tr>
<tr>
<td>Height: 5’ - 10’ (spread 6’ - 10’)</td>
</tr>
<tr>
<td>Leaves: Deciduous</td>
</tr>
<tr>
<td>Shape: upright, spreading shrub</td>
</tr>
<tr>
<td>Ornamental Other:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light: Full sun, Part shade</td>
</tr>
<tr>
<td>Hardy To Zone: 3a</td>
</tr>
<tr>
<td>Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
</tr>
<tr>
<td>Environmental Other: very tough and adaptable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insect Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>basically trouble free</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bare Root Transplanting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>easily transplanted, native to Northeastern US and Canada.</td>
</tr>
</tbody>
</table>

**Cultivars for Physocarpus opulifolius**

Showing 1-11 of 11 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Glow</td>
<td>'Center Glow' - foliage emerges green and gold and slowly fades to burgundy as they mature</td>
</tr>
<tr>
<td>Dart's Gold</td>
<td>'Dart's Gold' - semi-dwarf to 5 feet; chartreuse foliage turns orange in fall</td>
</tr>
<tr>
<td>Diablo</td>
<td>'Diablo' - deep purple foliage</td>
</tr>
<tr>
<td>Lady in Red</td>
<td>'Lady in Red' - compact habit; burgundy foliage; pink flowers</td>
</tr>
<tr>
<td>Little Devil</td>
<td>'Little Devil' - semi-dwarf to 4 feet; compact habit; white-pink flowers, deep burgundy foliage</td>
</tr>
<tr>
<td>Luteus</td>
<td>'Luteus' - yellow foliage turns yellow-green then green</td>
</tr>
<tr>
<td>Nanus</td>
<td>'Nanus' - dwarf to two feet, green foliage, profuse pinkish-white flowers</td>
</tr>
<tr>
<td>Nugget</td>
<td>'Nugget' - chartreuse foliage; dense habit; 6 feet tall and wide; superior to 'Dart's Gold'</td>
</tr>
<tr>
<td>Snowfall</td>
<td>'Snowfall' - green foliage; dense habit to 7 feet; showier flowers and foliage than species</td>
</tr>
<tr>
<td>Summer Wine</td>
<td>'Summer Wine' - deeply cut, wine-red foliage; dense, mounding growth habit</td>
</tr>
<tr>
<td>Ginger Wine</td>
<td>5-6' tall and wide. Red and burgundy foliage. Showy red seeds heads.</td>
</tr>
</tbody>
</table>
Photos

Physocarpus opulifolius ' Diablo'

Physocarpus opulifolius - Habit
Physocarpus opulifolius - Bark

Physocarpus opulifolius - Bud

Physocarpus opulifolius - Flowers
Physocarpus opulifolius "Diablo" - Habit, Fall Interest

Physocarpus opulifolius - Flowers

Physocarpus opulifolius - Flowers
Physocarpus opulifolius - Leaves
Species: *Rhus copallina* ( *Rhus coppalinum*)

Flameleaf Sumac, Shining Sumac

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub > 8 feet
- **Height:**
- **Leaves:** Deciduous
- **Shape:**
- **Ornamental Other:**

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 4b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray

### Insect Disease

No diseases listed

### Bare Root Transplanting

Any

### Cultivars for *Rhus copallina* ( *Rhus coppalinum*)

Showing 1-3 of 3 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prairie Flame</td>
<td>'Prairie Flame' (a.k.a var. latifolia, 'Morton') - semi-dwarf to 7 feet; glossy green foliage; even better fall color than species</td>
</tr>
<tr>
<td>Lanham's Purple</td>
<td>'Lanham's Purple' - bright purple emergent foliage that fades to glossy red-green through the growing season; more colorful flowers than species; excellent fall color</td>
</tr>
<tr>
<td>Cultivar Name</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------</td>
<td>-------</td>
</tr>
<tr>
<td>Creel's Quintet</td>
<td>'Creel's Quintet' - compact form; burgundy-red fall color; suckering habit; female form; only 5 leaflets per leaf, as opposed to the 9 or more produced on the species; grows to 8 -10' tall and wide</td>
</tr>
</tbody>
</table>
Photos
Rhus copallina Lanham's Purple leaves
Rhus copallina - Leaves, Fall Interest

Rhus copallina - Leaves

Rhus copallina - Bark
Rhus copallina - Spent Fruit

Rhus copallina - Leaves, Fall Interest
### Species: *Rosa palustris*

Swamp Rose

#### Cultivar Information

* See specific cultivar notes on next page.

#### Ornamental Characteristics

- **Size:** Shrub 4 to 8 feet
- **Height:** 3-6'
- **Leaves:** Deciduous
- **Shape:** multistem suckering shrub
- **Ornamental Other:**

#### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4a
- **Soil Ph:** Can tolerate acid to neutral soil (pH 5.0 to 7.4)
- **Environmental Other:** A wetland rose native to Eastern and Central North America

#### Insect Disease

Not generally susceptible to the diseases and pests that attack many of the hybrid roses. Pest and disease problems associated with other roses which might rarely affect this species could include: black spot, powdery mildew, rust, aphids, beetles, borers, scale, thrips, rose midges and leafhoppers.

#### Bare Root Transplanting

Any

#### Other

Glossy green foliage; large, fragrant pink flowers throughout summer; glossy, red, persistent hips

### Cultivars for *Rosa palustris*

Showing 1-1 of 1 item.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>var. scandens</td>
<td>var. scandens - more graceful and arching than species</td>
</tr>
</tbody>
</table>
Photos

Rosa palustris Flower

Rosa palustris Flower2
Rosa palustris Full Plant

Rosa palustris Full Plant2

Rosa palustris Hips
Rosa palustris hips
Species: *Salix candida*

Sageleaf Willow; Hoary Willow

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

<table>
<thead>
<tr>
<th>Size: Shrub &lt; 4 feet</th>
<th>Height: 3-4'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaves: Deciduous</td>
<td>Shape: caning, upright shrub to small tree</td>
</tr>
</tbody>
</table>

Ornamental Other: Foliage can be leathery and glossy green on top and felted silver-grey beneath or silvery-grey and pubescent on top and bottom. It bears yellow catkins in the spring.

### Environmental Characteristics

<table>
<thead>
<tr>
<th>Light: Full sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardy To Zone: 3a</td>
</tr>
</tbody>
</table>

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Environmental Other: Native across almost all of northern North America. One of the most extremely cold hardy plants, hardy to USDA Zone 1. Very tolerant of saturated soils and high pH. It's drought tolerance is untested but is likely good.

### Insect Disease

### Bare Root Transplanting

Any

### Cultivars for *Salix candida*

Showing 1-1 of 1 item.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver Fox</td>
<td>‘Silver Fox’ - compact, dwarf form; felted, bright silvery leaves; dramatic yellow winter buds and twigs; grows to 3’ tall and wide</td>
</tr>
</tbody>
</table>
Photos

![Photo 1]

![Photo 2]
Species: *Salix caprea*

(say'liks cap'ree-ah)

Goat Willow; Pussy Willow

### Cultivar Information

This European species has few cultivars however there are several closely related species that also can sometime be found in cultivation: *S. discolor* (North America; 'Rosea' has pale rosy catkins), and *S. gracilistyla* (Asia; 'Melanostachys' bears black catkins with red anthers)

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size**: Shrub $> 8$ feet
- **Height**: 15' - 25' (to 30') (12' - 15' spread)
- **Leaves**: Deciduous
- **Shape**: shrub or small tree
- **Ornamental Other**: best in full sun (rangy in shade)

### Environmental Characteristics

- **Light**: Full sun, Part shade
- **Hardy To Zone**: 3b
- **Soil Ph**: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Environmental Other**: flowers very early - March or April; soft silky catkins (hence the common name

### Insect Disease

short-lived due to many insect and disease problems

### Bare Root Transplanting

Any

### Other

native to Europe, northeast Asia, Japan. Range map is for *Salix discolor*, native to North America
Cultivars for *Salix caprea*

Showing 1-2 of 2 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curly Locks</td>
<td>'Curly Locks' - grafted weeping tree with twisted branches and foliage</td>
</tr>
<tr>
<td>Pendula</td>
<td>'Pendula' (a.k.a. 'Kilmarnock' and 'Weeping Sally') - grafted weeping tree</td>
</tr>
</tbody>
</table>
Photos

Salix caprea - Fruit

Salix caprea - Fruit, Leaf
Salix caprea - Habit

Salix caprea - Habit

Salix caprea - Habit
Salix caprea - Leaves

Salix caprea - Male Catkins, Male Fruit

Salix caprea - Habit
Salix caprea - Bark
Species: *Salix eleagnos*

Rosemary Willow

**Ornamental Characteristics**

- **Size:** Shrub > 8 feet, Shrub 4 to 8 feet
- **Height:** 4-15'
- **Leaves:** Deciduous
- **Shape:** Long upright branches with grey/green leaves from base to tip.
- **Ornamental Other:** Distinctive fine textural effect of rosemary like willow leaves. Benefits from cutting back every year or two to encourage dense growth and control height

**Environmental Characteristics**

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 4a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

**Insect Disease**

**Bare Root Transplanting**

- Any

**Other**

- Native to central and southern Europe

**Photos**
white underside

Mass Planting
Species: *Salix irrorata*

Dewystem Willow; Bluestem Willow

### Ornamental Characteristics

- **Size:** Shrub > 8 feet
- **Height:** 6 - 10'
- **Leaves:** Deciduous
- **Shape:** dense, upright form
- **Ornamental Other:** Stems are bluish-white to blue/bluish purple. Stem color contrasts well with yellow spring catkins and yellow fall foliage.

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 5a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

### Insect Disease

### Bare Root Transplanting

- **Any**

### Photos
**Species: Salix myrlcoides**

**Bayberry Willow**

<table>
<thead>
<tr>
<th>Ornamental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size:</strong> Shrub 4 to 8 feet</td>
</tr>
<tr>
<td><strong>Height:</strong></td>
</tr>
<tr>
<td><strong>Leaves:</strong> Deciduous</td>
</tr>
<tr>
<td><strong>Shape:</strong></td>
</tr>
<tr>
<td><strong>Ornamental Other:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Light:</strong> Full sun, Part shade</td>
</tr>
<tr>
<td><strong>Hardy To Zone:</strong> Any</td>
</tr>
<tr>
<td><strong>Soil Ph:</strong> Can tolerate acid to alkaline soil (pH 5.0 to 8.0)</td>
</tr>
</tbody>
</table>

Insect Disease

<table>
<thead>
<tr>
<th>Bare Root Transplanting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any</td>
</tr>
</tbody>
</table>

Photos
Species: *Salix purpurea*

(say'liks per-poo'ree-ah)

Purple osier Willow; Basket Willow

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub > 8 feet, Shrub 4 to 8 feet
- **Height:** 8' - 10' (spread 12' - 15')
- **Leaves:** Deciduous
- **Shape:** round, dense, finely branched
- **Ornamental Other:** best in full sun

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 3b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Environmental Other:** best in full sun

### Insect Disease

prone to a variety of insect and disease problems

### Bare Root Transplanting

Any

### Other

S. purpurea native to Europe, North Africa, central Asia, Japan; introduced by Soil Conservation Service, USDA; useful for stream bank stabilization; lay bundles in stream stabilization areas and will send up shoots to hep prevent erosion; needs maintenance to remain attractive; useful for phytoremediation

### Cultivars for *Salix purpurea*

Showing **1-6** of **6** items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canyon Blue</td>
<td>'Canyon Blue' - semi-dwarf to 5 feet; steely blue-gray foliage; low and rounded</td>
</tr>
<tr>
<td>Gracilis</td>
<td>'Gracilis' - medium height to 6 feet; slender upright stems</td>
</tr>
<tr>
<td>Pendula</td>
<td>'Pendula' - spreading, pendant growth habit</td>
</tr>
<tr>
<td>Nana</td>
<td>'Nana' - semi-dwarf to 6 feet; striking blue-green foliage</td>
</tr>
<tr>
<td>Nancy Saunders</td>
<td>'Nancy Saunders' - female clone; silvery-grey leaves on glossy, maroon-red stems</td>
</tr>
<tr>
<td>Streamco</td>
<td>'Streamco' - very vigorous growth; readily suckers and self layers; selected for streambank stabilization</td>
</tr>
</tbody>
</table>
Photos

Salix purpurea 'Nana'

Salix purpurea - Habit
Woody Shrubs for Storm Water Retention

Salix purpurea - Leaves

Salix purpurea leaves2
Salix purpurea 'Streamco' - Habit

Salix purpurea 'Pendula' - Habit

Salix purpurea twig
Salix purpurea - Habit
Species: *Salix repens*

Creeping Silver Willow

**Ornamental Characteristics**
- Size: Shrub < 4 feet, Groundcover
- Height: 2' tall x 5' wide
- Leaves: Deciduous
- Shape: low massing
- Ornamental Other:

**Environmental Characteristics**
- Light: Full sun
- Hardy To Zone: 4a
- Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- Salt Tolerance: Tolerates salt spray

**Insect Disease**
- No diseases listed

**Bare Root Transplanting**
- Easy

**Other**
- Native to northern European coastal areas- North Sea to Baltic Sea, also found in inland Scotland

**Photos**
Salix repens on Tower Rd bioswale
Salix repens - Leaves

Salix repens - Leaves

Salix repens - Habit
Salix repens - Leaves

Salix repens - Habit
Salix repens - Leaves
Species: *Sambucus canadensis*

(sam-bue'kus can-ah-den'sis)

American Elder

**Cultivar Information**

* See specific cultivar notes on next page.

**Ornamental Characteristics**

Size: Shrub > 8 feet  
Height: 5’ - 12’ (spread 8’ - 15’)  
Leaves: Deciduous  
Shape: broad-rounded  
Ornamental Other: full sun

**Environmental Characteristics**

Light: Full sun, Part shade  
Hardy To Zone: 3a  
Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)  
Salt Tolerance: Tolerates salt spray  
Environmental Other: small white flowers appear in early June; blue-black edible fruit in late summer used for jelly and wine, attracts birds

**Insect Disease**

No diseases listed

**Bare Root Transplanting**

Any

**Other**

suckers profusely; requires heavy pruning to be kept in presentable condition

**Cultivars for *Sambucus canadensis***

Showing 1-5 of 5 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams</td>
<td>'Adams' - larger, more numerous fruits than species</td>
</tr>
<tr>
<td>Aurea</td>
<td>'Aurea' - large (to 10 feet), golden leaved variety</td>
</tr>
<tr>
<td>Laciniata</td>
<td>Laciniata - deeply incised green leaves</td>
</tr>
<tr>
<td>Variegata</td>
<td>Variegata - narrow leaflets with creamy white-yellow variegation; prefers semi-shade for best foliage color</td>
</tr>
<tr>
<td>York</td>
<td>'York' - larger, more numerous fruits than species; similar to 'Adams'</td>
</tr>
</tbody>
</table>
Photos

Sambucus canadensis - Flowers

Sambucus canadensis - Leaves, Fruit
Sambucus canadensis - Buds

Sambucus canadensis - Habit

Sambucus canadensis - Habit
Sambucus canadensis - Flower Buds
Species: *Sambucus nigra*

European Black Elderberry

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub > 8 feet, Shrub 4 to 8 feet
- **Height:** 8-20'
- **Leaves:** Deciduous
- **Shape:** Mounding, spreads by canes
- **Ornamental Other:**

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 3a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

### Insect Disease

### Bare Root Transplanting

Any

### Cultivars for *Sambucus nigra*

Showing 1-2 of 2 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Beauty</td>
<td>'Black Beauty' - dark purple foliage; lemon-scented, pink flowers</td>
</tr>
<tr>
<td>Black Lace</td>
<td>'Black Lace' - deeply incised dark purple foliage; lemon-scented, pink flowers; dark blackish-red fruits</td>
</tr>
</tbody>
</table>
Photos

Sambucus nigra 'Black Lace' - Flowers

Sambucus spp.
Sambucus nigra 'Black Lace' - Habit, Flowers, Leaves

Sambucus nigra - Habit
Sambucus nigra - flower

Sambucus nigra- Flower
Sambucus nigra - Foliage
Species: *Sambucus pubens/racemos*a

Red Elderberry

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Tree < 30 feet, Shrub > 8 feet, Shrub 4 to 8 feet
- **Height:** 15’
- **Leaves:** Deciduous
- **Shape:** multi-stem, sucking to form large colonies
- **Ornamental Other:** Large racemes of small white to pink flowers; glossy red fruits; foliage color of green, yellow, and purple by cultivar

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** Any
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

### Insect Disease

Some susceptibility to canker, powdery mildew, leaf spot, borers, spider mites and aphids.

### Bare Root Transplanting

Any

### Other

S. racemos*a* is native across northern Eurasia whereas the closely related S. pubens is native from northern North America

### Cultivars for *Sambucus pubens/racemos*a

Showing 1-2 of 2 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
</table>

178
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sutherland Gold</td>
<td>‘Sutherland Gold’ - deeply incised, golden leaved variety</td>
</tr>
<tr>
<td>Plumosa Aurea</td>
<td>‘Plumosa Aurea’ - slightly incised, golden leaved variety; new foliage emerges burgundy and fades to gold</td>
</tr>
</tbody>
</table>
Photos
Species: *Shepherdia argentea*

Silver Buffaloberry

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub > 8 feet
- **Height:** 3-20'
- **Leaves:** Deciduous
- **Shape:** Irregular
- **Ornamental Other:**

### Environmental Characteristics

- **Light:** Full sun
- **Hardy To Zone:** 3a
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
- **Salt Tolerance:** Tolerates salt spray, Tolerates salty soil
- **Environmental Other:** capable of nitrogen fixation; dioeceous; edible fruit

### Insect Disease

No serious pests or diseases. White heart rot sometimes a problem in older plants.

### Bare Root Transplanting

Any

### Cultivars for Shepherdia argentea

Showing 1-1 of 1 item.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sakakawea</td>
<td>'Sakakawea' - yellow fruiting variety</td>
</tr>
</tbody>
</table>
Photos
Species: *Spiraea tomentosa*

Steeplebush, Hardhack

### Ornamental Characteristics

- **Size:** Shrub < 4 feet
- **Height:** 2-4'
- **Leaves:** Deciduous
- **Shape:** Upright, multi-stem shrub
- **Ornamental Other:**

### Environmental Characteristics

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 3a
- **Soil Ph:** Can tolerate acid to neutral soil (pH 5.0 to 7.4)
- **Salt Tolerance:** Tolerates salt spray
- **Environmental Other:** Tall, dense racemes of small pink to rose-purple flowers; textured green leaves covered in orange hairs beneath

### Insect Disease

- **No diseases listed**

### Bare Root Transplanting

- **Any**

### Photos
Spiraea tomentosa - Flowers

Spiraea tomentosa - Flowers

Spiraea tomentosa - Habit
Species: *Symphoricarpos albus*

Common Snowberry

**Cultivar Information**

* See specific cultivar notes on next page.

** Ornamental Characteristics**

Size: Shrub 4 to 8 feet, Shrub < 4 feet
Height: 3-6'
Leaves: Deciduous
Shape: dense rounded habit
Ornamental Other: Small bell shaped rose-pink and white flowers that mature into large white “marshmallow-like” fruits

**Environmental Characteristics**

Light: Full sun, Part shade
Hardy To Zone: Any
Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

**Insect Disease**

No serious pest or disease problems. Anthracnose, leaf spot, powdery mildew, rust, berry rot, and spider mites may occur.

**Bare Root Transplanting**

Any

**Other**

Native to northern North America, many closely related species and varieties in Europe, Asia and North America

**Cultivars for Symphoricarpos albus**

Showing 1-2 of 2 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>var. laevigatus</td>
<td>var. laevigatus - more vigorous than species; larger in all parts, particularly the fruits; grows to taller than 6 feet</td>
</tr>
<tr>
<td>Variegata</td>
<td>‘Variegata’ - variegated white-edged leaves</td>
</tr>
</tbody>
</table>
Photos

Symphoricarpos albus - Fruit
Species: Viburnum lentago
(vye-bur'num len-tay'goh)
Nannyberry Viburnum; Nannyberry; Sheepberry

Cultivar Information

* See specific cultivar notes on next page.

Ornamental Characteristics

Size: Shrub > 8 feet
Height: 20' - 35' (spread 10' - 20')
Leaves: Deciduous
Shape: large shrub or small tree with vase shaped habit
Ornamental Other: resistant to heat

Environmental Characteristics

Light: Full sun, Part shade
Hardy To Zone: 3a
Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Insect Disease

Susceptible to mildew; moderately susceptible to V. Leaf Beetle

Bare Root Transplanting

Any

Other

transplants easily B & B in spring; Native to Northeast and Midwest US and Canada.

Cultivars for Viburnum lentago

Showing 1-2 of 2 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep Green</td>
<td>'Deep Green' - large to 20 feet; lustrous dark green leaves</td>
</tr>
<tr>
<td>Cultivar Name</td>
<td>Notes</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Pink Beauty</td>
<td>'Pink Beauty' - pink fruits that turn purple with age</td>
</tr>
</tbody>
</table>
Photos

V. lentago on Buffalo St

Flowers
Viburnum lentago - Fall Interest

Viburnum lentago - Flowers

Viburnum lentago - Leaves
Viburnum lentago - Habit
Woody Shrubs for Storm Water Retention

Viburnum dentago - Bud
Species: *Viburnum nudum*

Naked Viburnum, Smooth Witherod, or Possumhaw

**Cultivar Information**

V. cassinoides is a more northern species; V. nudum is sometimes recognized as a sub-species of V. cassinoides.

* See specific cultivar notes on next page.

**Ornamental Characteristics**

- **Size:** Shrub 4 to 8 feet
- **Height:** 8' - 10' (spread 8' - 10')
- **Leaves:** Deciduous
- **Shape:** rounded, upright
- **Ornamental Other:**

**Environmental Characteristics**

- **Light:** Full sun, Part shade
- **Hardy To Zone:** 5b
- **Soil Ph:** Requires acid (pH 5.0 to 7.0)

**Insect Disease**

No diseases listed

**Bare Root Transplanting**

Any

**Other**

Native to eastern US

**Cultivars for Viburnum nudum**

Showing 1-6 of 6 items.
<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brandywine</td>
<td>'Brandywine' - glossy leaves, better fruit color than species; wine-red fall foliage</td>
</tr>
<tr>
<td>Count Pulaski</td>
<td>'Count Pulaski' - large glossy leaves, better fruit color than species</td>
</tr>
<tr>
<td>Deep Pink</td>
<td>'Deep Pink' - V. cassinoides cultivar; deep pink fruits</td>
</tr>
<tr>
<td>Narrow Leaved</td>
<td>'Narrow Leaved' - leaves are smaller than those of the species; very long lasting red-purple fall color; dense habit; heavy fruiting; grows to 6 - 8' tall x 5 - 6'</td>
</tr>
<tr>
<td>Pink Beauty</td>
<td>'Pink Beauty' - relatively compact, to 6'; leaves, fruit, and fall color attractive as with species</td>
</tr>
<tr>
<td>Winterthur</td>
<td>'Winterthur' - glossy leaves, excellent fruit color</td>
</tr>
</tbody>
</table>
Photos

Viburnum nudum - Bark

Viburnum nudum - Flower Buds
Viburnum nudum - Leaves

Viburnum nudum - Habit

Viburnum nudum - Flowers
Viburnum nudum - Leaves

Viburnum nudum - Leaf

Viburnum nudum - Fruit
Viburnum nudum - Fruit
Species: *Viburnum prunifolium*

(vey-bur’num prue-ni-fo lee-um)

Black Haw Viburnum

### Cultivar Information

* See specific cultivar notes on next page.

### Ornamental Characteristics

- **Size:** Shrub > 8 feet
- **Height:** 12' - 15' (8' - 12' spread)
- **Leaves:** Deciduous
- **Shape:** round-headed tree or multi-stem shrub with stiff branches. Irregular shape.
- **Ornamental Other:** very adaptable; sun or shade

### Environmental Characteristics

- **Light:** Full sun, Part shade, Shade
- **Hardy To Zone:** 3b
- **Soil Ph:** Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

### Insect Disease

- mildew resistant; occasionally susceptible to scale and borers; Moderately susceptible to V. Leaf Beetle

### Bare Root Transplanting

- Any

### Other

- Transplants well, edible fruit, native to Northeast US.

### Cultivars for *Viburnum prunifolium*

Showing 1-4 of 4 items.

<table>
<thead>
<tr>
<th>Cultivar Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Red</td>
<td>'Early Red' - emerging leaves are tinged red; fall foliage is deep red</td>
</tr>
<tr>
<td>Cultivar Name</td>
<td>Notes</td>
</tr>
<tr>
<td>----------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Knighthood</td>
<td>'Knighthood' - dark purple fall color; mildew resistant</td>
</tr>
<tr>
<td>Ovation</td>
<td>'Ovation' - upright, columnar habit to 10 feet tall; emerging leaves are reddish; mildew resistant</td>
</tr>
<tr>
<td>Summer Magic</td>
<td>'Summer Magic' - more rounded, tight habit than species; beautiful yellow and red fall foliage</td>
</tr>
</tbody>
</table>
Photos

Viburnum prunifolium, habit, fall interest

Viburnum prunifolium - Leaves, Fall Interest
Viburnum prunifolium - Flowers

Viburnum prunifolium - Leaves

Viburnum prunifolium - Habit
Viburnum prunifolium - Habit

Viburnum prunifolium - Flowers

Viburnum prunifolium - Flowers
Viburnum prunifolium - Buds