

Buttonbush

Cephalanthus occidentalis



Mature



Native Range

General Attributes

Type	Deciduous Shrub
Height	6 - 10 Feet
Spread	6 - 8 Feet
Form	Rounded
Utility Lines	Compatible
Growth Rate	Medium
Life Expectancy	Short
USDA Zone	4 - 9
Root Pattern	

Plant Community

Sun	Full Sun
Orientation	North, South, East, West
Soil Texture	Sand to Clay
Topography	Lowland (Flood Prone), Lowland (Stable Water), Wetland
Plant Community	Forest, Bog, Dune, Inland Fresh Meadow, Wooded Swamp, Marsh, Old Field, Grassland
Succession	
Origin	MSA Zone 1, MSA Zone 2, Minnesota, North America, Non North America

Buttonbush

Cephalanthus occidentalis



Flowers/Foliage/Fruits

Flower Color	White
Flower Season	Summer
Fruit	Multiple
Fruit Color	Light Brown
Fruit Season	Fall, Winter
Summer Texture	Medium
Winter Texture	Coarse
Spring Foliage	Green
Summer Foliage	Dark Green
Fall Foliage	Insignificant
Winter Foliage	Not Applicable

Planting Ease

Spring Bareroot	Easy
Fall Bareroot	Difficult
Spring Container	Easy
Fall Container	Easy
Spring Seed	
Fall Seed	

Pests/Problems

Allergens	
Invasiveness	Non-Invasive
Toxicity	Has toxic Leaves
Cold Injury	
Storm Damage	Not Susceptible
Biological Control	
Mechanical Control	
Chemical Control	

Comments

Loose, rounded shrub with glossy, bright green foliage. Creamy white flowers are produced in 1 to 1 1/4 globular heads in August. Native to wet areas."

Soils

Salt Spray Tolerance	
Soil Salt Tolerance	
Compaction Tolerance	Tolerant
Water Table	6 Inches
Drainage	Poor, Moderate
Flood Tolerance	
Drought Tolerance	Sensitive
Moisture Regime	Dry, Moist, Wet
pH	6.1 through 8.5
Windbreak Group	

Maintenance

Formal	High
Informal	Low
2,4-D Tolerance	Sensitive
Dicamba Tolerance	Sensitive
Picloram Tolerance	Sensitive
Clopyralid Tolerance	
Artificial Light	
Sulfur Dioxide	
Ozone Tolerance	
Hydrogen Flouride	
Nitrogen Oxide	

Miscellaneous

Wildlife Rating	Low
Insect Concerns	Minor
Disease Concern	Minor
Wildlife Concerns	

Buttonbush

Cephalanthus occidentalis



Flower

Isanti Dogwood

Cornus sericea (Isanti)



Mature



Leaf

General Attributes

Type	Deciduous Shrub
Height	6 - 8 Feet
Spread	8 - 10 Feet
Form	Mounded
Utility Lines	Compatible
Growth Rate	Slow
Life Expectancy	Short
USDA Zone	3 - 8
Root Pattern	

Flowers/Foliage/Fruits

Flower Color	White
Flower Season	Spring
Fruit	Drupe
Fruit Color	White
Fruit Season	Summer
Summer Texture	Medium
Winter Texture	Medium
Spring Foliage	Green
Summer Foliage	Green
Fall Foliage	Purple
Winter Foliage	Not Applicable

Plant Community

Sun	Full Sun
Orientation	North, South, East, West
Soil Texture	Sand to Clay
Topography	Upland, Lowland (Flood Prone), Lowland (Stable Water)
Plant Community	Dune, Grassland
Succession	
Origin	MSA Zone 4, MSA Zone 5, Minnesota, North America

Soils

Salt Spray Tolerance	Sensitive
Soil Salt Tolerance	
Compaction Tolerance	Tolerant
Water Table	12 Inches
Drainage	Poor, Moderate
Flood Tolerance	
Drought Tolerance	
Moisture Regime	Moist, Wet
pH	6.1 through 8.5
Windbreak Group	

Isanti Dogwood

Cornus sericea (Isanti)



Planting Ease

Spring Bareroot	Easy
Fall Bareroot	Easy
Spring Container	Easy
Fall Container	Easy
Spring Seed	
Fall Seed	

Maintenance

Formal	Moderate
Informal	Low
2,4-D Tolerance	Sensitive
Dicamba Tolerance	Sensitive
Picloram Tolerance	Sensitive
Clopyralid Tolerance	
Artificial Light	Sensitive
Sulfur Dioxide	Moderate
Ozone Tolerance	Sensitive
Hydrogen Flouride	Tolerant
Nitrogen Oxide	

Pests/Problems

Allergens	males 5, females 5
Invasiveness	Non-Invasive
Toxicity	
Cold Injury	Not Susceptible
Storm Damage	Not Susceptible
Biological Control	
Mechanical Control	
Chemical Control	

Miscellaneous

Wildlife Rating	High
Insect Concerns	Minor
Disease Concern	Minor
Wildlife Concerns	

Comments

University of MN introduction. Compact form with bright red stems. Contracts leaf spot in wet weather.



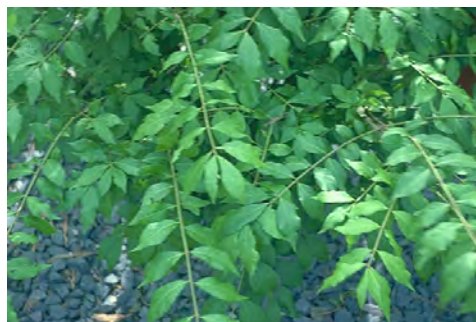
Dormant

Winged Euonymus

Euonymus alatus



Mature



Leaf

General Attributes

Type	Deciduous Shrub
Height	10 - 12 Feet
Spread	8 - 12 Feet
Form	Rounded
Utility Lines	Compatible
Growth Rate	Slow
Life Expectancy	Medium
USDA Zone	3 - 7
Root Pattern	

Flowers/Foliage/Fruits

Flower Color	Yellow
Flower Season	Spring
Fruit	Capsule
Fruit Color	Red
Fruit Season	Fall
Summer Texture	Medium
Winter Texture	Medium
Spring Foliage	Green
Summer Foliage	Green
Fall Foliage	Red
Winter Foliage	Not Applicable

Plant Community

Sun	Full Sun, Partial Sun
Orientation	North, South, East, West
Soil Texture	Sand to Clay
Topography	Upland
Plant Community	
Succession	
Origin	Non North America

Soils

Salt Spray Tolerance	Moderate
Soil Salt Tolerance	Sensitive
Compaction Tolerance	Intolerant
Water Table	24 Inches
Drainage	Moderate
Flood Tolerance	
Drought Tolerance	Sensitive
Moisture Regime	Dry, Moist, Wet
pH	6.0 through 8.0
Windbreak Group	

Winged Euonymus

Euonymus alatus



Planting Ease

Spring Bareroot	Easy
Fall Bareroot	Moderate
Spring Container	Easy
Fall Container	Easy
Spring Seed	
Fall Seed	

Maintenance

Formal	Low
Informal	Low
2,4-D Tolerance	Sensitive
Dicamba Tolerance	Sensitive
Picloram Tolerance	Sensitive
Clopyralid Tolerance	
Artificial Light	
Sulfur Dioxide	
Ozone Tolerance	
Hydrogen Flouride	
Nitrogen Oxide	

Pests/Problems

Allergens	males 7, females 7
Invasiveness	Non-Invasive
Toxicity	Has toxic Roots, Stems, Leaves, Flowers, Fruit
Cold Injury	Moderately Susceptible
Storm Damage	Not Susceptible
Biological Control	
Mechanical Control	
Chemical Control	

Miscellaneous

Wildlife Rating	Low
Insect Concerns	Minor
Disease Concern	Minor
Wildlife Concerns	

Comments

Good specimen plant due to corky "wings" on branches. Fall color is best in full sun. Develops a mass of roots at soil surface so ideally should be watered and/or mulched in hot/dry situations. Rabbits favor. All portions of the plant are toxic."



Dormant



Fall

Savin Juniper

Juniperus sabina



Leaf



Immature

General Attributes

Type	Evergreen Shrub
Height	4 - 6 Feet
Spread	3 - 8 Feet
Form	Upright
Utility Lines	Compatible
Growth Rate	Slow
Life Expectancy	Long
USDA Zone	3 - 7
Root Pattern	Shallow Lateral

Flowers/Foliage/Fruits

Flower Color	
Flower Season	Spring
Fruit	Cone
Fruit Color	Gray
Fruit Season	Fall
Summer Texture	Fine
Winter Texture	Fine
Spring Foliage	Dark Green
Summer Foliage	Dark Green
Fall Foliage	Dark Green
Winter Foliage	Dark Green

Plant Community

Sun	Full Sun
Orientation	South, West
Soil Texture	Sand to Clay
Topography	Upland
Plant Community	
Succession	
Origin	Non North America

Soils

Salt Spray Tolerance	
Soil Salt Tolerance	
Compaction Tolerance	Intolerant
Water Table	24 Inches
Drainage	Excessive, Moderate
Flood Tolerance	
Drought Tolerance	Tolerant
Moisture Regime	Dry, Moist, Wet
pH	6.0 through 8.5
Windbreak Group	

Savin Juniper

Juniperus sabina



Planting Ease

Spring Bareroot	Easy
Fall Bareroot	
Spring Container	Easy
Fall Container	Moderate
Spring Seed	
Fall Seed	

Maintenance

Formal	Moderate
Informal	High
2,4-D Tolerance	Tolerant
Dicamba Tolerance	Sensitive
Picloram Tolerance	Sensitive
Clopyralid Tolerance	
Artificial Light	
Sulfur Dioxide	Tolerant
Ozone Tolerance	
Hydrogen Flouride	Tolerant
Nitrogen Oxide	

Pests/Problems

Allergens	males 10, females 1, bisexual 9
Invasiveness	Non-Invasive
Toxicity	Has toxic Roots, Stems, Leaves, Flowers, Fruit
Cold Injury	Not Susceptible
Storm Damage	Not Susceptible
Biological Control	
Mechanical Control	
Chemical Control	

Miscellaneous

Wildlife Rating	Low
Insect Concerns	Minor
Disease Concern	Minor
Wildlife Concerns	

Comments

Not frequently planted due to poor foliage and ragged nature. Grows on a variety of soils including limestone. Pepin Savin has greater resistance to blight than Savin Juniper. Any portion of the plant is considered toxic, if ingested.

Claveys Dwarf Honeysuckle

Lonicera x xylosteoides (Claveys Dwarf)



General Attributes

Type	Deciduous Shrub
Height	6 - 8 Feet
Spread	5 - 6 Feet
Form	Rounded
Utility Lines	Compatible
Growth Rate	Fast
Life Expectancy	Short
USDA Zone	3 - 7
Root Pattern	

Flowers/Foliage/Fruits

Flower Color	Yellow
Flower Season	Spring
Fruit	Berry
Fruit Color	Red
Fruit Season	Summer
Summer Texture	Medium
Winter Texture	Medium
Spring Foliage	Green
Summer Foliage	Green
Fall Foliage	Brown
Winter Foliage	Not Applicable

Planting Ease

Spring Bareroot	Easy
Fall Bareroot	Easy
Spring Container	Easy
Fall Container	Easy
Spring Seed	
Fall Seed	

Plant Community

Sun	Full Sun, Partial Sun
Orientation	North, South, East, West
Soil Texture	Sandy Loam to Clay
Topography	Upland
Plant Community	
Succession	
Origin	Non North America

Soils

Salt Spray Tolerance	Moderate
Soil Salt Tolerance	Moderate
Compaction Tolerance	Moderate
Water Table	0 Inches
Drainage	Excessive, Moderate
Flood Tolerance	
Drought Tolerance	Tolerant
Moisture Regime	Dry, Moist, Wet
pH	6.0 through 8.0
Windbreak Group	

Maintenance

Formal	Low
Informal	Low
2,4-D Tolerance	Sensitive
Dicamba Tolerance	Sensitive
Picloram Tolerance	Sensitive
Clopyralid Tolerance	
Artificial Light	
Sulfur Dioxide	
Ozone Tolerance	
Hydrogen Flouride	
Nitrogen Oxide	

Claveys Dwarf Honeysuckle

Lonicera x xylosteoides (Claveys Dwarf)



Pests/Problems

Allergens	males 5, females 5
Invasiveness	Non-Invasive
Toxicity	
Cold Injury	Not Susceptible
Storm Damage	Not Susceptible
Biological Control	
Mechanical Control	
Chemical Control	

Miscellaneous

Wildlife Rating	Low
Insect Concerns	Minor
Disease Concern	Minor
Wildlife Concerns	

Comments

Compact honeysuckle also known as European Fly Honeysuckle. Shears well for formal hedge. Resistant to Russian aphid



Emerald Mound Honeysuckle

Vanhoutte Spirea

Spiraea vanhouttei



Mature



Fall

General Attributes

Type	Deciduous Shrub
Height	6 - 8 Feet
Spread	8 - 10 Feet
Form	Upright
Utility Lines	Compatible
Growth Rate	Fast
Life Expectancy	Short
USDA Zone	3 - 7
Root Pattern	

Flowers/Foliage/Fruits

Flower Color	White
Flower Season	Spring
Fruit	Follicle
Fruit Color	Light Brown
Fruit Season	Fall
Summer Texture	Medium
Winter Texture	Medium
Spring Foliage	Green
Summer Foliage	Green
Fall Foliage	Orange
Winter Foliage	Not Applicable

Plant Community

Sun	Full Sun
Orientation	North, South, East, West
Soil Texture	Loam to Clay
Topography	Upland
Plant Community	
Succession	
Origin	Non North America

Soils

Salt Spray Tolerance	Moderate
Soil Salt Tolerance	Moderate
Compaction Tolerance	Moderate
Water Table	24 Inches
Drainage	Excessive, Moderate
Flood Tolerance	
Drought Tolerance	Tolerant
Moisture Regime	Dry, Moist, Wet
pH	6.0 through 8.5
Windbreak Group	

Vanhoutte Spirea

Spiraea vanhouttei



Planting Ease

Spring Bareroot Easy

Fall Bareroot

Spring Container Easy

Fall Container Easy

Spring Seed

Fall Seed

Maintenance

Formal Low

Informal Low

2,4-D Tolerance Tolerant

Dicamba Tolerance Sensitive

Picloram Tolerance Sensitive

Clopyralid Tolerance

Artificial Light

Sulfur Dioxide Tolerant

Ozone Tolerance Tolerant

Hydrogen Flouride

Nitrogen Oxide

Pests/Problems

Allergens males 6, females 6

Invasiveness Non-Invasive

Toxicity

Cold Injury Not Susceptible

Storm Damage Not Susceptible

Biological Control

Mechanical Control

Chemical Control

Miscellaneous

Wildlife Rating Low

Insect Concerns Minor

Disease Concern Minor

Wildlife Concerns

Comments

Most popular spirea. Branches arch to the ground like a fountain with a profusion of flowers.



Flower