Buttonbush

Cephalanthus occidentalis







General Attributes

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



Native Range

Plant Community

V	
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/Frui	its	Soils	
Flower Color	White	Salt Spray Tolerance	
Flower Season	Summer	Soil Salt Tolerance	
Fruit	Multiple	Compaction Tolerance	Tolerant
Fruit Color	Light Brown	Water Table	6 Inches
Fruit Season	Fall, Winter	Drainage	Poor, Moderate
Summer Texture	Medium	Flood Tolerance	
Winter Texture	Coarse	Drought Tolerance	Sensitive
		Moisture Regime	Dry, Moist, Wet
Spring Foliage	Green	рН	6.1 through 8.5
Summer Foliage	Dark Green	Windbreak Group	
Fall Foliage	Insignificant		
Winter Foliage	Not Applicable		
Planting Ease		Maintenance	
Spring Bareroot	Easy	Formal	High
Fall Bareroot	Difficult	Informal	Low
Spring Container	Easy	2,4-D Tolerance	Sensitive
Fall Container	Easy	Dicamba Tolerance	Sensitive
	Lusy	Picloram Tolerance	Sensitive
Spring Seed		Clopyralid Tolerance	
Fall Seed		Artificial Light	
		Sulfur Dioxide	
		Ozone Tolerance	
		Hydrogen Flouride	
		Nitrogen Oxide	
Pests/Problems		Miscellaneous	
Allergens		Wildlife Rating	Low
Invasiveness	Non-Invasive	Insect Concerns	Minor
Toxicity	Has toxic Leaves	Disease Concern	Minor
Cold Injury		Wildlife Concerns	
Storm Damage	Not Susceptible		
Biological Control	ĩ		

Comments

Mechanical Control Chemical Control

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."

Buttonbush

Cephalanthus occidentalis





Flower

Isanti Dogwood

Cornus sericea (Isanti)





Mature

General Attributes

Deciduous Shrub 6 - 8 Feet 8 - 10 Feet Mounded Compatible Slow Short 3 - 8

Flowers/Foliage/Fruits

Flower Color Flower Season Fruit Fruit Color Fruit Season

Summer Texture Winter Texture

Spring Foliage Summer Foliage

Fall Foliage Winter Foliage White Spring Drupe White Summer Medium Medium Green Green Purple Not Applicable



Leaf

Plant Community

Sun Orientation Soil Texture Topography

Plant Community Succession Origin

Soils Salt Spray Tolerance Soil Salt Tolerance Compaction Tolerance Water Table Drainage Flood Tolerance Drought Tolerance Moisture Regime pH Windbreak Group Full Sun North, South, East, West Sand to Clay Upland, Lowland (Flood Prone), Lowland (Stable Water) Dune, Grassland

MSA Zone 4, MSA Zone 5, Minnesota, North America

Sensitive

Tolerant 12 Inches Poor, Moderate

Moist, Wet 6.1 through 8.5

Isanti Dogwood

Cornus sericea (Isanti)



Planting Ease		Maintenance	
Spring Bareroot	Easy	Formal	Moderate
Fall Bareroot	Easy	Informal	Low
Spring Container	Easy	2,4-D Tolerance	Sensitive
Fall Container	Easy	Dicamba Tolerance	Sensitive
		Picloram Tolerance	Sensitive
Spring Seed		Clopyralid Tolerance	
Fall Seed		Artificial Light	Sensitive
		Sulfur Dioxide	Moderate
		Ozone Tolerance	Sensitive
		Hydrogen Flouride	Tolerant
		Nitrogen Oxide	
Pests/Problems		Miscellaneous	
Allergens	males 5, females 5	Wildlife Rating	High
Invasiveness	Non-Invasive	Insect Concerns	Minor
Toxicity		Disease Concern	Minor
Cold Injury	Not Susceptible	Wildlife Concerns	
Storm Damage	Not Susceptible		
Biological Control	-		
Mechanical Control			

Comments

Chemical Control

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



Dormant

Winged Euonymus

Euonymus alatus





Mature

General Attributes

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

Leaf

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

Flowers/Foliage/Fruits

Flower Color Flower Season Fruit Fruit Color

Fruit Season

Summer Texture Winter Texture

Spring Foliage Summer Foliage

Fall Foliage Winter Foliage Yellow Spring Capsule Red Fall Medium Medium Green Green Red Not Applicable

Soils

Salt Spray Tolerance Soil Salt Tolerance Compaction Tolerance Water Table Drainage Flood Tolerance Drought Tolerance Moisture Regime pH Windbreak Group Moderate Sensitive Intolerant 24 Inches Moderate

Sensitive Dry, Moist, Wet 6.0 through 8.0

Winged Euonymus

Euonymus alatus



Planting Ease		Maintenance	
Spring Bareroot	Easy	Formal	Low
Fall Bareroot	Moderate	Informal	Low
Spring Container	Easy	2,4-D Tolerance	Sensitive
Fall Container	Easy	Dicamba Tolerance	Sensitive
Conting Cood		Picloram Tolerance	Sensitive
Spring Seed Fall Seed		Clopyralid Tolerance	
rall Seeu		Artificial Light	
		Sulfur Dioxide	
		Ozone Tolerance	
		Hydrogen Flouride	
		Nitrogen Oxide	
Pests/Problems		Miscellaneous	
Allergens	males 7, females 7	Wildlife Rating	Low
Invasiveness	Non-Invasive	Insect Concerns	Minor
Toxicity	oxicity Has toxic Roots, Stems,	Disease Concern	Minor
Leave	Leaves, Flowers, Fruit	Wildlife Concerns	
Cold Injury	Moderately Susceptible		
Storm Damage	Not Susceptible		
Biological Control			

Comments

Mechanical Control Chemical Control

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

General Attributes

Туре	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



Immature

Plant Community

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

Non North America

Soils

Salt Spray ToleranceSoil Salt ToleranceCompaction ToleranceWater TableDrainageFlood ToleranceDrought ToleranceMoisture RegimepHWindbreak Group

Intolerant 24 Inches Excessive, Moderate

Tolerant Dry, Moist, Wet 6.0 through 8.5

Savin Juniper

Juniperus sabina



Planting Ease		Maintenance	
Spring Bareroot	Easy	Formal	Moderate
Fall Bareroot		Informal	High
Spring Container	Easy	2,4-D Tolerance	Tolerant
Fall Container	Moderate	Dicamba Tolerance	Sensitive
Conting Cood		Picloram Tolerance	Sensitive
Spring Seed Fall Seed		Clopyralid Tolerance	
ran Seed		Artificial Light	
		Sulfur Dioxide	Tolerant
		Ozone Tolerance	
		Hydrogen Flouride	Tolerant
		Nitrogen Oxide	
Pests/Problems		Miscellaneous	
Allergens	males 10, females 1, bisexual	Wildlife Rating	Low
	9	Insect Concerns	Minor
Invasiveness	Non-Invasive	Disease Concern	Minor
Toxicity	Has toxic Roots, Stems, Leaves, Flowers, Fruit	Wildlife Concerns	
Cold Injury	Not Susceptible		
Storm Damage	Not Susceptible		
Biological Control			
Mechanical Control			
Chemical Control			

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

Туре
Height
Spread
Form
Utility Lines
Growth Rate
Life Expectancy
USDA Zone
Root Pattern

Deciduous Shrub 6 - 8 Feet 5 - 6 Feet Rounded Compatible Fast Short 3 - 7

Yellow

Spring

Berry

Summer

Medium

Medium

Green

Green

Brown

Easy

Not Applicable

Red

Plant Community

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

Non North America

Soils

Salt Spray Tolerance Soil Salt Tolerance Compaction Tolerance Water Table Drainage Flood Tolerance Drought Tolerance Moisture Regime pH Windbreak Group

Maintenance

Formal Informal 2,4-D Tolerance Dicamba Tolerance Picloram Tolerance Clopyralid Tolerance Artificial Light Sulfur Dioxide Ozone Tolerance Hydrogen Flouride Nitrogen Oxide Moderate Moderate Moderate 0 Inches Excessive, Moderate

Tolerant Dry, Moist, Wet 6.0 through 8.0

Low Low Sensitive Sensitive Sensitive

Flowers/Foliage/Fruits

Flower Color
Flower Season
Fruit
Fruit Color
Fruit Season
Summer Texture
Winter Texture
Spring Foliage
с Б Р

0.1

Summer Foliage Fall Foliage

Winter Foliage

Planting Ease

Spring Bareroot Fall Bareroot Spring Container Fall Container

Spring Seed Fall Seed

Easy Easy Easy

Claveys Dwarf Honeysuckle

Lonicera x xylosteoides (Claveys Dwarf)



Pests/Problems

Allergens Invasiveness Toxicity Cold Injury Storm Damage Biological Control Mechanical Control Chemical Control males 5, females 5 Non-Invasive

Not Susceptible Not Susceptible

Miscellaneous

Wildlife Rating Insect Concerns Disease Concern Wildlife Concerns Low Minor Minor

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

General Attributes

Туре	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 Flower Season Fruit Fruit Color Fruit Season Summer Texture Winter Texture Spring Foliage Summer Foliage Fall Foliage

Winter Foliage

White Spring Follicle Light Brown Fall Medium Medium Green Green Orange Not Applicable



Fall

Plant Community

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

Non North America

<u>Soils</u>

Salt Spray ToleranceSoil Salt ToleranceCompaction ToleranceWater TableDrainageFlood ToleranceDrought ToleranceMoisture RegimepHWindbreak Group

Moderate Moderate 24 Inches Excessive, Moderate

Tolerant Dry, Moist, Wet 6.0 through 8.5

Vanhoutte Spirea

Spiraea vanhouttei



Planting Ease		Maintenance	
Spring Bareroot	Easy	Formal	Low
Fall Bareroot	•	Informal	Low
Spring Container	Easy	2,4-D Tolerance	Tolerant
Fall Container	Easy	Dicamba Tolerance	Sensitive
Spring Sood		Picloram Tolerance	Sensitive
Spring Seed Fall Seed		Clopyralid Tolerance	
rall Seeu		Artificial Light	
		Sulfur Dioxide	Tolerant
		Ozone Tolerance	Tolerant
		Hydrogen Flouride	
		Nitrogen Oxide	
Pests/Problems		Miscellaneous	
Allergens	males 6, females 6	Wildlife Rating	Low
Invasiveness	Non-Invasive	Insect Concerns	Minor
Toxicity		Disease Concern	Minor
Cold Injury	Not Susceptible	Wildlife Concerns	
Storm Damage	Not Susceptible		
Biological Control			
Mechanical Control			

Comments

Chemical Control

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



Flower