














## GRASSES, FERNS, & VINES

Photo	Name (Common & Scientific)	Characteristics (Height; Flowers)	Conditions (Light; Moisture; Soil Type)	Habitat	Notes
	<b>American Beach Grass</b> <i>Ammophila breviligulata</i>	Height: 1.5-3.5' Flowers: Jul-Sep	Light: full sun Moisture: D Soil type: L S	maritime beaches, dunes, grasslands, shrublands	prefers well-drained, sandy sites; spreads rapidly by rhizomes
	<b>Cinnamon Fern</b> <i>Osmunda cinnamomea</i>	Height: 2-5' Fruit: Apr-May	Light: full/partial sun, shade Moisture: M W Soil type: C L	woods, marshes, swamps, bogs, streamsides	tolerates drought
	<b>Royal Fern</b> <i>Osmunda regalis</i>	Height: 1.5-6' Fruit: Apr-Jun	Light: full/partial sun, shade Moisture: M W Soil type: C L S	fresh tidal and nontidal marshes and swamps, woods	tolerates full sun if moist; tolerates drought
	<b>Salt Meadow Hay</b> <i>Spartina patens</i>	Height: 1-3' Flowers: Jul-Sep	Light: full sun Moisture: M W Soil type: C L S	coastal salt and brackish tidal marshes; irregularly flooded high marsh at or above mean high tide line	forms large mats; good for shore erosion control
	<b>Sensitive Fern</b> <i>Onoclea sensibilis</i>	Height: 1-3.5' Fruit: Jun-Oct	Light: full/partial sun, shade Moisture: M W Soil type: C L S	fresh tidal and nontidal marshes, meadows, swamps, woods	spreads in wet areas
	<b>Trumpet Honeysuckle</b> <i>Lonicera sempervirens</i>	Spread: 6-12' Flowers: Apr-Oct, coral to red with yellow	Light: full/partial sun Moisture: D M Soil type: C L S	thickets, fence rows, open woods, dry stony woods, forest edges	flowers intermittently until frost; transplants well; semi-evergreen

## FLOWERING HERBACEOUS & EMERGENT PLANTS

Photo	Name (Common & Scientific)	Characteristics (Height; Flowers)	Conditions (Light; Moisture; Soil Type)	Habitat	Notes
	<b>Black-Eyed Susan</b> <i>Rudbeckia hirta</i>	Height: 1-3.5' Flowers: Jun-Oct, yellow, black eye	Light: full to partial sun Moisture: D M Soil type: C L	fields, meadows, roadsides	meadows; attracts butterflies, bees and other beneficial insects
	<b>Blazing Star</b> <i>Liatris spicata</i>	Height: 1-6.5' Flowers: Jul-Aug, rose-purple or white	Light: full to partial sun Moisture: D M Soil type: C L S	moist meadows, open areas	drought tolerant; attractive to butterflies
	<b>Blue Flag Iris</b> <i>Iris versicolor</i>	Height: 3' Flowers: May-Jun, blue	Light: full to partial sun Moisture: M W Soil type: L S	fresh to moderately brackish tidal marshes, meadows, shores, swamps, forested wetlands	nectar attracts butterflies and other insects
	<b>Blue Vervain</b> <i>Verbena hastata</i>	Height: 1.5-5' Flowers: Jun-Oct, blue to purple	Light: full to partial sun Moisture: M W Soil type: C L S	meadows, swamps, floodplains, ditches	bright flowers; herbal uses; attracts butterflies and other nectar feeding insects
	<b>Butterfly Milkweed</b> <i>Asclepias tuberosa</i>	Height: 1-3' Flowers: May-Jul, orange	Light: full to partial sun Moisture: D M Soil type: L S	dry fields, roadsides, shale barrens	attractive seed pod; important nectar source for Monarchs and other butterflies
	<b>Cardinal Flower</b> <i>Lobelia cardinalis</i>	Height: 2-4' Flowers: Jul-Oct, red	Light: full to partial sun Moisture: M W Soil type: C L	fresh tidal and nontidal marshes, wood swamps, seeps, banks of ponds, rivers, streams	long bloom time; biennial, must reseed; attractive to hummingbirds
	<b>Common Boneset</b> <i>Eupatorium perfoliatum</i>	Height: 1-5' Flowers: Jul-Oct, white	Light: full/partial sun, shade Moisture: M W Soil type: C L S	floodplains, swamps, bogs, streambanks, meadows	attractive to butterflies and other nectar feeding insects

















### KEY

Moisture: D=Dry M=Moist W=Wet

Soil type: C=Clay/fine-textured L=Loamy/medium-textured S=Sandy/coarse-textured O=Organic



## FLOWERING HERBACEOUS & EMERGENT PLANTS, continued

Photo	Name (Common & Scientific)	Characteristics (Height; Flowers)	Conditions (Light; Moisture; Soil Type)	Habitat	Notes
	<b>Dogtooth Daisy</b> <i>Helenium autumnale</i>	Height: 1.5-6' Flowers: Jul-Nov, yellow	Light: full to partial sun or shade Moisture: M Soil type: C L S	woods, swamps, riverbanks, alluvial thickets, meadows, marshes, ditches	tolerates wet areas; showy flowers, herbal uses
	<b>Eastern Prickly Pear Cactus</b> <i>Opuntia humifusa</i>	Height: 0.5-1' Flowers: Jun-Jul, yellow	Light: full sun Moisture: D Soil type: L S	sandy coastal dunes, shaly soils	fruit edible, used for jelly; Delaware's only native cactus
	<b>Great Blue Lobelia</b> <i>Lobelia siphilitica</i>	Height: 1-5' Flowers: Aug-Oct, blue, violet	Light: full to partial sun, shade Moisture: M W Soil type: C L S	woodlands, meadows, swamps	long bloom time; white cultivars available
	<b>Joe-Pye Weed</b> <i>Eupatorium fistulosum</i>	Height: 1.5-10' Flowers: Jul-Oct, pink-purple	Light: full to partial sun Moisture: D M W Soil type: C L	floodplains, meadows, thickets, roadsides	herbal uses; attractive to butterflies and other nectar feeding insects
	<b>Mistflower</b> <i>Conoclinium coelestinum</i>	Height: 1-3.5' Flowers: Jul-Oct, blue, violet or purple	Light: partial sun to full shade Moisture: D M W Soil type: C L	old fields, meadows; dry sandy woods and clearings, damp thickets, streambanks	produces attractive violet-blue florets arranged in dense heads
	<b>Monkey Flower</b> <i>Mimulus ringens</i>	Height: 1-3' Flowers: Jun-Oct, blue	Light: full to partial sun Moisture: W Soil type: L	open swamps, meadows, shores	interesting flowers; attracts butterflies and other insects
	<b>New England Aster</b> <i>Aster novae-angliae</i>	Height: 1-6' Flowers: Aug-Oct, violet	Light: full to partial sun Moisture: M Soil type: L	open woods, seasonal wetlands, shores, meadows	showy, frequently cultivated; tolerates drier soils and seasonal flooding
	<b>New York Ironweed</b> <i>Veronia noveboracensis</i>	Height: 3.5-8' Flowers: Aug-Oct, purple	Light: full to partial sun Moisture: M W Soil type: L	streambanks, fields, freshwater marshes	brilliant flowers; tall upright form adds structure to garden; spreads
	<b>Orange Coneflower</b> <i>Rudbeckia fulgida</i>	Height: 1.5-3.5' Flowers: Jul-Oct, yellow-orange, black eye	Light: full to partial sun Moisture: D M Soil type: L	moist fields, meadows	cultivars have nice foliage
	<b>Oxeye Sunflower</b> <i>Heliopsis helianthoides</i>	Height: 1-5' Flowers: Jun-Sep, pale yellow	Light: full to partial sun Moisture: D M Soil type: L S	fields, open woods, floodplains, thickets, streambanks	long bloom time
	<b>Rose Mallow</b> <i>Hibiscus moscheutos</i>	Height: 3-6' Flowers: Jul-Sep, cream, pink	Light: full to partial sun Moisture: M W Soil type: C L	fresh to brackish tidal marshes, occasionally nontidal marshes	common along coast; persists in winter; split seed capsules
	<b>Seaside Goldenrod</b> <i>Solidago sempervirens</i>	Height: 1-6.5' Flowers: Jul-Nov, yellow	Light: full to partial sun Moisture: D M Soil type: L S	coastal areas, dunes	coastal plant, may occur where road salts are used
	<b>Swamp Milkweed</b> <i>Asclepias incarnata</i>	Height: 4-6' Flowers: May-Jun, pink to reddish	Light: full to partial sun Moisture: M W Soil type: C L	fresh tidal and nontidal marshes, meadows, shrub swamps, woods, shores, ditches	can tolerate drought; interesting seed pod; important nectar source for Monarchs and other butterflies
	<b>Tall White Beard-Tongue</b> <i>Penstemon digitalis</i>	Height: 2-5' Flowers: Jun-Aug, white or faintly purple	Light: full to partial sun Moisture: D M Soil type: C L S	open woods, meadows	tolerates poor drainage; attracts butterflies and other insects
	<b>White Turtlehead</b> <i>Chelone glabra</i>	Height: 1.5-6.5' Flowers: Jul-Oct, white	Light: full to partial sun Moisture: M W Soil type: C L S	woods, streambanks, swamps, thickets	strong grower; herbal uses
	<b>Wild Bergamot</b> <i>Monarda fistulosa</i>	Height: 1.5-5' Flowers: Jun-Sep, pink to purple	Light: full to partial sun Moisture: D M Soil type: C L	fields, thickets, roadsides, forest edges	aromatic, herbal uses



## SHRUBS & TREES

Photo	Name (Common & Scientific)	Characteristics (Height; Flowers)	Conditions (Light; Moisture; Soil Type)	Habitat	Notes
	<b>Arrow-wood</b> <i>Viburnum dentatum</i>	Height: 10-15' Flowers: May-Jun, white	Light: full to partial sun, shade Moisture: D MW Soil type: L S O	swamps, wet woods, bogs, floodplain forests, streambanks, low, wet acid-sand habitats	stems very straight, nice structure in winter
	<b>Beach Plum</b> <i>Prunus maritima</i>	Height: 1-8' Flowers: Apr-May, white	Light: full to partial sun Moisture: D M Soil type: L S	ocean dunes, roadsides, hedgerows	edible fruit, prized for jams and jellies; salt tolerant
	<b>Buttonbush</b> <i>Cephalanthus occidentalis</i>	Height: 6-12" Flowers: Jul-Aug, creamy white	Light: full to partial sun, shade Moisture: MW Soil type: C L S O	fresh tidal and nontidal marshes, shrub swamps, forested wetlands; stream, lake and pond edge	needs sun to flower; flowers fragrant; interesting fruit; tolerates drought; leaves may persist into winter
	<b>Eastern Red Cedar</b> <i>Juniperus virginiana</i>	Height: 50-75' Spread: 35-50' Flowers: Mar-Apr, red purple	Light: full sun Moisture: D M Soil type: C L S	broad range of habitats	berries consumed by over 50 species of birds; berries have culinary use
	<b>Eastern Redbud</b> <i>Cercis canadensis</i>	Height: 20-35' Spread: 20-35' Flowers: Apr-May, pink to lavender	Light: partial sun to shade Moisture: D M Soil type: L S	river bottoms and streambanks	early bloomer — one of the earliest harbingers of spring; fixes nitrogen
	<b>Groundsel Bush</b> <i>Baccharis halimifolia</i>	Height: 6-12' Flowers: Aug-Sep, white	Light: full sun Moisture: D MW Soil type: C L S O	fresh to salt marshes, ditches, shores, dunes	volunteers in disturbed places; shallow, lateral roots; tolerates flooding to 6 inches
	<b>Highbush Blueberry</b> <i>Vaccinium corymbosum</i>	Height: 6-12' Flowers: Apr-Jun, white or pink-tinged	Light: full to partial sun, shade Moisture: D MW Soil type: L S O	forested wetlands, shrub swamps, bogs, dry to wet woods, thickets, stream- banks, rock outcroppings	edible berries commonly cultivated
	<b>Inkberry</b> <i>Ilex glabra</i>	Height: 6-10' Flowers: May-Jun, greenish white	Light: full to partial sun, shade Moisture, D M Soil type: C L S O	forested wetlands, shrub swamps, sandy woods	berries persist through winter; male and female flowers on separate plants; tolerates some salt flooding
	<b>Loblolly Pine</b> <i>Pinus taeda</i>	Height: 70-90'	Light: full sun Moisture: D MW Soil type: C L S	floodplains, fields, slopes	many birds feed on the seeds; provides winter cover
	<b>Northern Bayberry</b> <i>Myrica pensylvanica</i>	Height: 5-10' Flowers: Mar-Apr, yellowish-green	Light: full to partial sun Moisture: D MW Soil type: C L S	tidal and nontidal fresh and brackish marshes, swamps, sand flats, dunes	fragrant leaves; tends to sucker and form large colonies; waxy berries persist through winter
	<b>Red Chokeberry</b> <i>Aronia arbutifolia</i>	Height: 1.5-13' Flowers: Mar-May, white, purple-tinged	Light: full to partial sun Moisture: D MW Soil type: C L S	forested wetlands, shrub bogs, upland forests, fields, dunes	tolerates infrequent flooding by water with some salt; can be pruned as hedge
	<b>Swamp Rose</b> <i>Rosa palustris</i>	Height: 8' Flowers: Jun-Aug, pink	Light: full to partial sun, shade Moisture: MW Soil type: C L	fresh tidal and nontidal marshes, forested wetlands, shrub swamps, streambanks	edible fruit is a berry-like hip; thorns; tolerates flooding to 3 inches
	<b>Sweet Pepperbush</b> <i>Clethra alnifolia</i>	Height: 6-12' Flowers: Jul-Aug, white/pink	Light: partial sun to shade Moisture: MW Soil type: C L S	tidal and nontidal forested wetlands, shrub swamps, bogs, woods, coastal river floodplains, lakeshores	very fragrant; nectar used by hummingbirds, butterflies and other insects
	<b>Sweetbay Magnolia</b> <i>Magnolia virginiana</i>	Height: 12-30' Spread: 12-30' Flowers: May-Jul, white to cream	Light: full to partial sun, shade Moisture: MW Soil type: C L S	forested wetlands, seeps, stream and pond edges, sandy woods	semi-evergreen; fragrant flowers; tolerates occasional flooding, some salt
	<b>Winterberry Holly</b> <i>Ilex verticillata</i>	Height: 6-12' Flowers: Jun-Jul, greenish white	Light: full to partial sun, shade Moisture: MW Soil type: C L S O	fresh tidal swamps, shrub swamps, forested wetlands	berries provide winter bird food, poisonous to humans; berries on female plants, need male plant to pollinate

For a more comprehensive list of plants and information on this native garden,  
please visit [www.DelawareEstuary.org](http://www.DelawareEstuary.org) and/or [www.ocean.udel.edu/nativeplantgarden](http://www.ocean.udel.edu/nativeplantgarden)  
or call 1800-445-4935 ext. 100.