



AVALON ENVIRONMENTAL COMMISSION

3100 Dune Drive, Avalon, N J 08202

APPROVED LIST OF DUNE VEGETATION

Adapted vegetation is an integral part of the overall dune system that is vital to the protection to the Borough from coastal storms. This vegetation not only aids sand deposition and accumulation, but also serves to retain the sand in the dune system. Accordingly, the selection of plants that will survive and flourish in the harsh environment of the dune system is critical. The Borough of Avalon dune system is a diverse ecosystem exposed to wind and salt spray. The dune soils are sandy; and as such are droughty. In recognition of these conditions, the following vegetation list has been divided into three main categories based upon exposure and soil moisture conditions: (A) Salt Spray Tolerant Vegetation, (B) Sheltered Upland Dune Vegetation and (C) Sheltered Wetland Dune Vegetation based on the species tolerance of conditions and location in the dune system. The criteria for selection of the following plants for dune re-vegetation with native species include: (1) adaptation to survival in the dune environment; (2) resistance to disease and pests; (3) drought hardiness after they are established; (4) ability to be pruned to control shape and height, if trimming is begun early in the tree/shrub development, and (5) availability from nurseries.

The following information has been provided through literature review, direct dune observations in natural areas of coastal barrier island communities and Island Beach State Park, in addition to personal experience and communications with other qualified professionals in the field. One asterisk (*) indicates that this species is used by wildlife for food (including pollinators) and cover. Two asterisks (**) indicates that the plant has high wildlife value. (E) indicates that the plant is evergreen.

A. Salt Spray Tolerant Vegetation

1. Trees:

Common Name

Eastern red cedar *(E)

Black cherry **

Winged sumac **

Smooth sumac **

Scientific Name

Juniperus virginiana

Prunus serotina

Rhus copallinum

R. glabra

2. Shrubs:

Common Name

Northern bayberry ***(E)

Wax myrtle *

Beach plum *

Groundsel *

Bearberry (E)

Beach-heather (E)

Scientific Name

Morella pensylvanica

M. cerifera

Prunus maritima

Baccharis halimifolia

Arctostaphylos uva-ursi

Hudsonia tomentosa

3.	Vines:	
	<u>Common Name</u>	<u>Scientific Name</u>
	Virginia creeper **	<i>Parthenocissus quinquefolia</i>
4.	Herbaceous:	
	<u>Common Name</u>	<u>Scientific Name</u>
	American beachgrass	<i>Ammophila breviligulata</i>
	Sea rocket	<i>Cakile edentula</i>
	Seaside spurge	<i>Euphorbia polygonifolia</i>
	Coastal panicgrass *	<i>Panicum amarum var. amarulum</i>
	Seaside goldenrod **	<i>Solidago sempervirens</i>

A. Salt Spray Tolerant Vegetation (continued)

Beach pea *	<i>Lathyrus japonicus</i>
Dusty miller	<i>Artemisia stelleriana</i>
Rough cocklebur	<i>Xanthium strumarium</i>
Prickly pear (cactus)*(E)	<i>Opuntia humifusa</i>

B. Sheltered Upland Dune Vegetation

1.	Trees:	
	<u>Common Name</u>	<u>Scientific Name</u>
	Pitch pine **(E)	<i>Pinus rigida</i>
	Eastern red cedar *(E)	<i>Juniperus virginiana</i>
	Sassafras **	<i>Sassafras albidum</i>
	Hackberry **	<i>Celtis occidentalis</i>
	American holly *(E)	<i>Ilex opaca</i>
	Wild persimmon **	<i>Diospyros virginiana</i>
	Scarlet oak **	<i>Quercus coccinea</i>
	Black oak **	<i>Q. valutina</i>
	Blackjack oak **	<i>Q. marilandica</i>
	Scrub oak **	<i>Q. ilicifolia</i>
	Pignut hickory *	<i>Carya glabra</i>
	Mockernut hickory *	<i>C. tomentosa</i>
	Hop-hornbeam *	<i>Ostrya virginiana</i>
	Winged sumac **	<i>Rhus copallinum</i>
	Smooth sumac **	<i>R. glabra</i>
	Southern Red Oak**	<i>Q. falcate</i>
	White Oak**	<i>Q. alba</i>

2.	Shrubs:	
	<u>Common Name</u>	<u>Scientific Name</u>
	Northern bayberry **(E)	<i>Morella pensylvanica</i>
	Wax myrtle *	<i>M. cerifera</i>
	Beach plum *	<i>Prunus maritima</i>
	Groundsel *	<i>Baccharis halimifolia</i>
	Inkberry holly **(E)	<i>Ilex glabra</i>
	Low rose **	<i>Rosa carolina</i>
	Sweet fern *	<i>Comptonia peregrina</i>

3.	Vines:	
	<u>Common Name</u>	<u>Scientific Name</u>

Climbing bitterweet *
Trumpet vine *

Celastrus scandens
Campsis radicans

4.

Herbaceous:

Common Name

Bitter panicgrass *
Coastal panicgrass *
Saltmeadow cordgrass
Switchgrass **
Bluestem
Seaside goldenrod **
Beach pea *
Partridge pea *
Rough cocklebur
Dusty miller
Prickly pear * (E)
Spanish bayonet * (E)

Scientific Name

Panicum amarum
Panicum amarum var. amarulum
Spartina patens
Panicum virgatum
Schizachyrium scoparium
Solidago sempervirens
Lathyrus japonicus
Chamaecrista fasciculata
Xanthium strumarium
Artemisia stelleriana
Opuntia humifusa
Yucca filamentosa

C. Sheltered Wetland Dune Vegetation (Interdunal Swales)

1. **Trees:**

Common Name

Red maple *
Serviceberry *
Shadbush *
Southern red oak *
Willow oak *
Black gum *
Sweetbay *(E)
Atlantic white cedar (E)

Scientific Name

Acer rubrum
Amelanchier arborea
A. canadensis
Quercus falcata
Q. phellos
Nyssa sylvatica
Magnolia virginiana
Chamaecyparis thyoides

2. **Shrubs:**

Common Name

Maleberry *
Black chokeberry *
Red chokeberry *
Inkberry ** (E)
Southern arrowwood **
Sweet pepperbush *
Black huckleberry **
Winterberry **
Highbush blueberry **

Scientific Name

Lyonia ligustrina
Photinia melanocarpa
P. pyrifolia
Ilex glabra
Virburnum dentatum
Clethra alnifolia
Gaylussacia baccata
Ilex verticillata
Vaccinium corymbosum

3.

Herbaceous:

Common Name

Saltmeadow cordgrass
Switchgrass **
Spike grass
Saltmeadow rush
Salt-marsh bulrush
Common threesquare

Scientific Name

Spartina patens
Panicum virgatum
Distichlis spicata
Juncus gerardii
Scirpus robustus
S. pungens