



CAPE ATLANTIC CONSERVATION DISTRICT

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: | |
| | <u>Common Name</u> | <u>Scientific Name</u> |
| | Eastern red cedar *(E) | <i>Juniperus virginiana</i> |
| | Black cherry ** | <i>Prunus serotina</i> |
| | Winged sumac ** | <i>Rhus copallinum</i> |
| | Smooth sumac ** | <i>R. glabra</i> |
| 2. | Shrubs: | |
| | <u>Common Name</u> | <u>Scientific Name</u> |
| | Northern bayberry **(E) | <i>Morella pensylvanica</i> |
| | Wax myrtle * | <i>M. cerifera</i> |

Salt Spray Tolerant Vegetation (continued)

Beach plum *	<i>Prunus maritima</i>
Groundsel *	<i>Baccharis halimifolia</i>
Bearberry (E)	<i>Arctostaphylos uva-ursi</i>
Beach-heather (E)	<i>Hudsonia tomentosa</i>

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>
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>
Scarlet oak **	<i>Quercus coccinea</i>
Black oak **	<i>Q. velutina</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>
Persimmon **	<i>Diospyros virginiana</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>

Sheltered Upland Dune Vegetation (continued)

- 3. Vines:**
- | <u>Common Name</u> | <u>Scientific Name</u> |
|-----------------------|---------------------------|
| Climbing bitterweet * | <i>Celastrus scandens</i> |
| Trumpet vine * | <i>Campsis radicans</i> |
- 4. Herbaceous:**
- | <u>Common Name</u> | <u>Scientific Name</u> |
|-----------------------|--|
| Bitter panicgrass * | <i>Panicum amarum</i> |
| Coastal panicgrass * | <i>Panicum amarum</i> var. <i>amarulum</i> |
| Saltmeadow cordgrass | <i>Spartina patens</i> |
| Switchgrass ** | <i>Panicum virgatum</i> |
| Bluestem | <i>Schizachyrium scoparium</i> |
| Seaside goldenrod ** | <i>Solidago sempervirens</i> |
| Beach pea * | <i>Lathyrus japonicus</i> |
| Partridge pea * | <i>Chamaecrista fasciculata</i> |
| Rough cocklebur | <i>Xanthium strumarium</i> |
| Dusty miller | <i>Artemisia stelleriana</i> |
| Prickly pear * (E) | <i>Opuntia humifusa</i> |
| Spanish bayonet * (E) | <i>Yucca filamentosa</i> |
| Yarrow * | <i>Achillea millefolium</i> |
| Butterfly Milkweed ** | <i>Asclepias tuberosa</i> |

C. Sheltered Wetland Dune Vegetation (Interdunal Swales)

- 1. Trees:**
- | <u>Common Name</u> | <u>Scientific Name</u> |
|--------------------------|-------------------------------|
| Red maple * | <i>Acer rubrum</i> |
| Serviceberry * | <i>Amelanchier arborea</i> |
| Shadbush * | <i>A. canadensis</i> |
| Southern red oak * | <i>Quercus falcata</i> |
| Willow oak * | <i>Q. phellos</i> |
| Black gum * | <i>Nyssa sylvatica</i> |
| Sweetbay *(E) | <i>Magnolia virginiana</i> |
| Atlantic white cedar (E) | <i>Chamaecyparis thyoides</i> |
- 2. Shrubs:**
- | <u>Common Name</u> | <u>Scientific Name</u> |
|-----------------------|-----------------------------|
| Maleberry * | <i>Lyonia ligustrina</i> |
| Black chokeberry * | <i>Photinia melanocarpa</i> |
| Red chokeberry * | <i>P. pyrifolia</i> |
| Inkberry **(E) | <i>Ilex glabra</i> |
| Southern arrowwood ** | <i>Virburnum dentatum</i> |
| Sweet pepperbush * | <i>Clethra alnifolia</i> |
| Black huckleberry ** | <i>Gaylussacia baccata</i> |
| Winterberry ** | <i>Ilex verticillata</i> |
| Highbush blueberry ** | <i>Vaccinium corymbosum</i> |

Sheltered Wetland Dune Vegetation (Interdunal Swales) (continued)

3.	Herbaceous:	
	<u>Common Name</u>	<u>Scientific Name</u>
	Saltmeadow cordgrass	<i>Spartina patens</i>
	Switchgrass **	<i>Panicum virgatum</i>
	Spike grass	<i>Distichlis spicata</i>
	Saltmeadow rush	<i>Juncus gerardii</i>
	Salt-marsh bulrush	<i>Scirpus robustus</i>
	Common threesquare	<i>S. pungens</i>

Source: Courtesy of The Lomax Consulting Group
609-465-9857
info@lomaxconsulting.com

Last updated May 29, 2014