



Consider your site characteristics:

Where to start?



Salinity (water and aerosols)



Topography (frequency of inundation)

Choosing your plants

Begin with the "builders"

Then add diversity



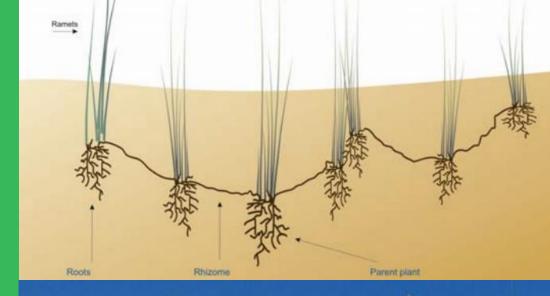


Sea Oats Uniola paniculata

- Dunes, sand flats, interdune swales
- Deep taproots and expansive rhizome systems bind sand
- Tolerant of salt aerosols and drought conditions
- One of the best plants for dune stabilization
- Attracts birds and rodents, provides cover

Beach Grass Ammo phila breviligulata

- Dunes
- Horizontal and vertical roots and rhizomes, up to 20ft
- Tolerant of sand burial, salt aerosols, drought, saltwater
- Buried stems extend upwards with roots
- Attracts birds and rodents







Bitter Panic Grass Panicum amarum

- Dunes, sandy shores
- Clumping structure, spreads by rhizomes
- Tolerant of salt aerosols, some saltwater inundation, and drought conditions
- Attracts birds, butterflies, and rodents



Seacoast Marsh Elder Iva imbricata

- Dunes, upper beach, island-end flats
- Deep stems re-root at the nodes as sand accumulates
- Very tolerant of salt aerosols and brief inundation
- Thick leaves provide wind protection and cover
- Low and wide, up to 10ft
- Attracts birds

- Bushy Seaside Tansy, Oxeye (Borrichia frutescens)
 - Robust bushy herb with rhizomes, flowers attract birds and pollinators
 - Low dunes, salt and brackish marshes

- Seabeach Evening Primrose (*Oenothera humifusa*)
 - Low, sprawling herb, flowers attract pollinators
 - Coastal sand dunes





Swales, Maritime Meadows, and Salt Pannes





Saltmeadow Cordgrass Spartina patens

- Dunes, sand flats, overwash flats, upper edges of tidal marshes, maritime wet grasslands- versatile!
- Dense fibrous roots and rhizomes
- Tolerant of salt aerosols, prefers fresher water
- Very dense, thin stems
- Spreads by runners
- Attracts birds, provides cover



Carolina Fimbry Fimbristylis caroliniana

- Brackish and alkaline sands of marsh edges and dune swales
- Dense, fibrous roots and thickly clumped stems
- Tolerant of salt aerosols and occasional saltwater inundation
- High germination from seed means fast spread possible
- Provides cover

Shoreline Sea-Purslane Sesuvium portulac astrum

- Island end flats, beaches
- Perennial, rosettes and trailing, rooting at nodes
- Tolerant of salt aerosols and occasional saltwater inundation
- Accumulates sand around thick stems and leaves
- Small flowers attract pollinators







Pickleweed, Woody Saltwort, Chickenclaws Salicornia ambigua

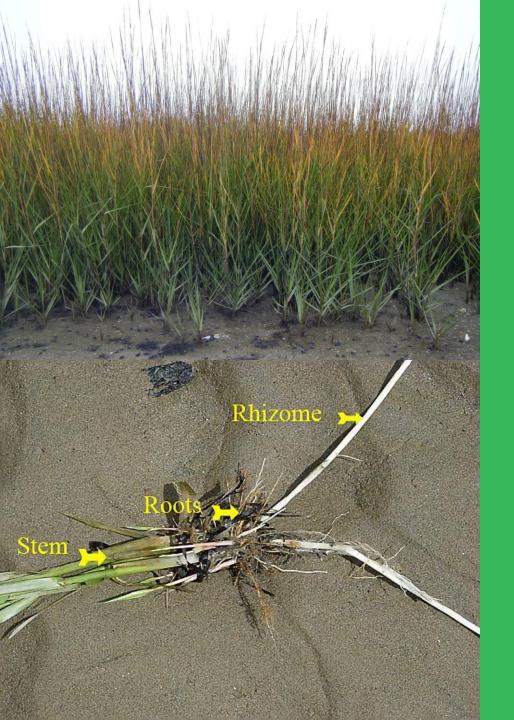
- Coastal salt pannes, salt marshes
- Perennial, trailing, rooting at nodes
- Tolerant of salt aerosols and periodic saltwater inundation
- Accumulates sand around the stems, creates mats



- Saltgrass (Distichlis spicata)
 - Low, trailing grass, deep rhizomes
 - Hypersaline flats, marshes, shores
- Seashore Dropseed (Sporobolus virginicus)
 - Low, trailing grass, deep rhizomes
 - Salt marshes, tidal mud flats, low dunes

- Annual Glasswort, Pickleweed (Salicornia virginica)
 - Annual, upright, attractive fall color
 - Salt pannes
- Sea Lavender (Limonium carolinianum)
 - Flowers add color, attract butterflies
 - Hypersaline flats, tidal marshes





Smooth Cordgrass Spartina alterniflora

- Tidal salt marshes, salt to brackish
- Dense rhizomes and fibrous roots
- Tolerant of salt aerosols and near-constant saltwater inundation
- Tall, dense stems help dissipate wave energy and protect shorelines
- Annual cycle of nutrient deposition from dead biomass
- Attracts birds, provides cover

Black Needle Rush Juncus roemerianus

- Coastal tidal marshes
- Dense rhizomes form thick mats
- Prefers brackish areas, or slightly higher elevations in less salty areas
- Tall, dense stems help dissipate wave energy and protect shorelines
- Provides cover to small animals



- Saltmarsh Bulrush (*Bolboschoenus* robustus)
 - Upright sedge with tubers, early colonizer of mud flats, interesting foliage, attracts wildlife
 - Brackish marshes, mud flats

- Perennial Saltmarsh Aster (Symphyotrichum tenuifolium)
 - Slender flowering perennial, very attractive to pollinators
 - Brackish marshes
- Southern Seaside Goldenrod (Solidago mexicana)
 - Bright flowering perennial, very attractive to pollinators
 - Coastal dunes, dune slacks, maritime wet grasslands, tidal marshes





- Giant Cordgrass (Spartina cynosuroides)
 - Tall, robust grass of upper tidal marshes
 - Could be used to replace Phragmites australis, similar habitat and form
 - Brackish and freshwater tidal marshes

- Silverling, Groundsel Bush (Baccharis halimifolia)
 - Pale green shrub, attractive white and silver blooms, birds and pollinators
 - Fresh and brackish marshes, marsh edges, disturbed areas
- Bigleaf Marsh Elder (Iva frutescens)
 - Succulent shrub, provides cover to small animals
 - Brackish marshes, marsh edges, back sides of barrier islands

