

D'Arign Source

Coastal Hurricane Tolerant Plants



Tolerances

- **Wind Tolerance**- How durable is a plant to high winds. Scale:0-5
 - 0 Cannot handle any wind without leaf damage.
 - 1 Withstands moderate wind with minor damage.
 - 2 Withstands moderate winds with no damage.
moderate winds are winds form 40-75 mph.
 - 3 Withstands high winds with minor damage.
 - 4 Withstands high winds with moderate damage.
 - 5 Withstands high winds with very little damage.
High winds are winds over 75 mph
 - 5 being extremely high, 0 being very low

Tolerances

- **Salt Tolerance**- How durable is plant to salt spray and immersion. Scale:0-5
 - 0 Cannot endure salt air.
 - 1 Cannot endure salt spray.
 - 2 Endures salt spray with minor damage.
 - 3 Endures salt spray with no damage.
 - 4 Endures salt emersion with minor damage.
 - 5 Endures salt emersion with no damage.

➤ 5 being extremely high, 0 being very low

Tolerances

- **Coastal Hurricane Tolerance-**
combination of wind and salt tolerances.

Scale:0-10

Brahea armata

Blue Hesper Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Chamaerops humilis

European Fan Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Cocos nucifera

Coconut Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Copernicia ekmanii

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Dictyosperma album

Hurricane Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Latania loddigesii

Blue Latan Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Phoenix dactylifera

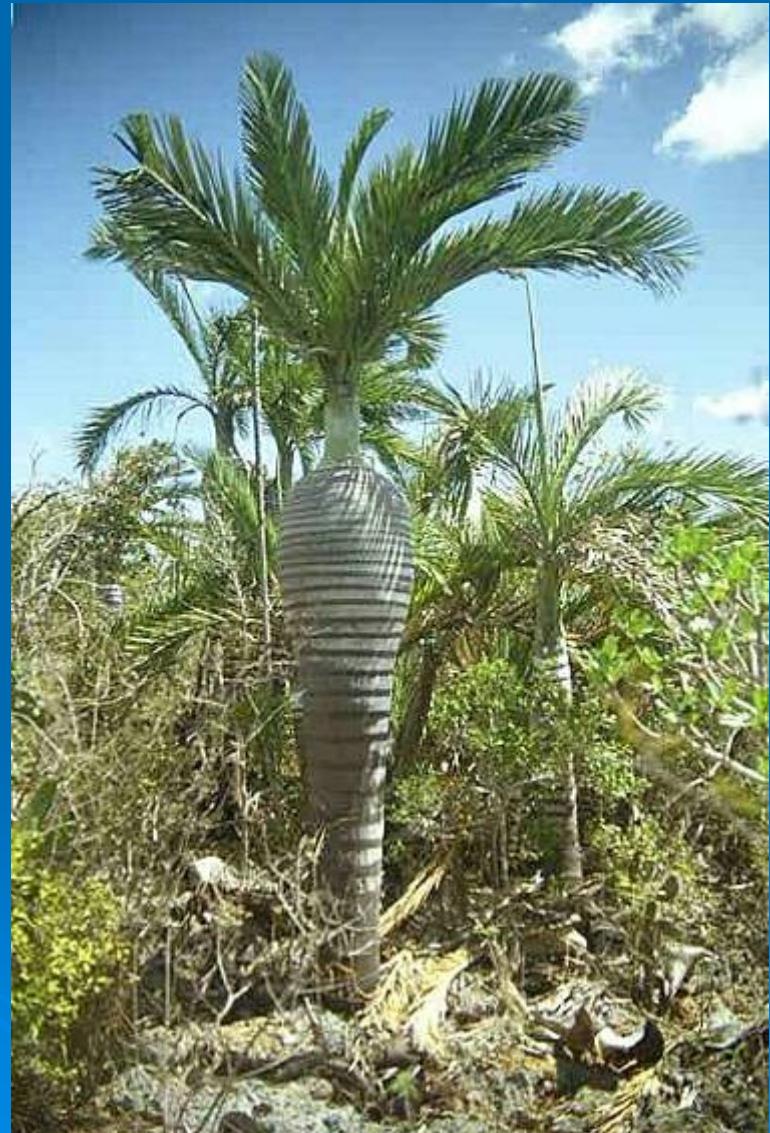
True Date Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Pseudophoenix ekmanii

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Pseudophoenix sargentii

Buccaneer Palm

- Native
- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Pseudophoenix sargentii navasona

Buccaneer Palm

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Allagoptera arenaria

Seashore Palm

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Coccothrinax argentata

Silver Thatch Palm

- Native
- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Guishaia argyrata

Copperstar

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Hyphaene sp.

Gingerbread Palm

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Pritchardia thurstonii

Thurston's Palm

- Wind Tol: 4
- Salt Tol: 5
- Hurricane Tol: 9



Pseudophoenix vinifera

Wine Palm

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Sabal palmetto

Cabbage Palm

- Wind Tol: 5
- Salt Tol: 3
- Hurricane Tol: 8



Serenoa repens

Saw Palmetto

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Leucothrinax morrisii

Keys Thatch Palm

➤ Native

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Thrinax radiata

Florida Thatch Palm

- Native
- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Coccothrinax crinita

Old Man Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Copernicia baileyana

Bailey's Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Copernicia hospita

Wax Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Copernicia macroglossa

Cuban Petticoat Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Hyophorbe lagenicualis

Bottle Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Hyophorbe verschaffeltii

Spindle Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Veitchia joannis

Sunshine Palm

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



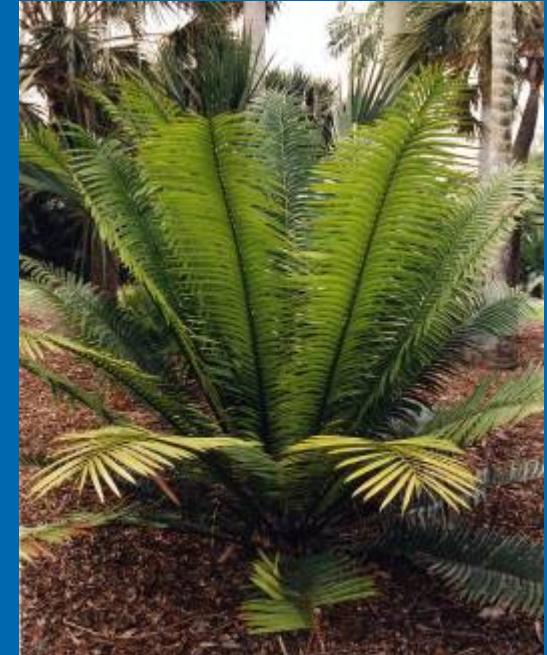
Sabal mauritiiformis

- Wind Tol: 3
- Salt Tol: 4
- Hurricane Tol: 7



Dioon

- Wind Tol: 4
- Salt Tol: 5
- Hurricane Tol: 9



Encephalartos

- Wind Tol: 4
- Salt Tol: 5
- Hurricane Tol: 9



Pandanus utilis

Screw pine

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Conocarpus erectus var. *sericeus*

Silver Button Wood

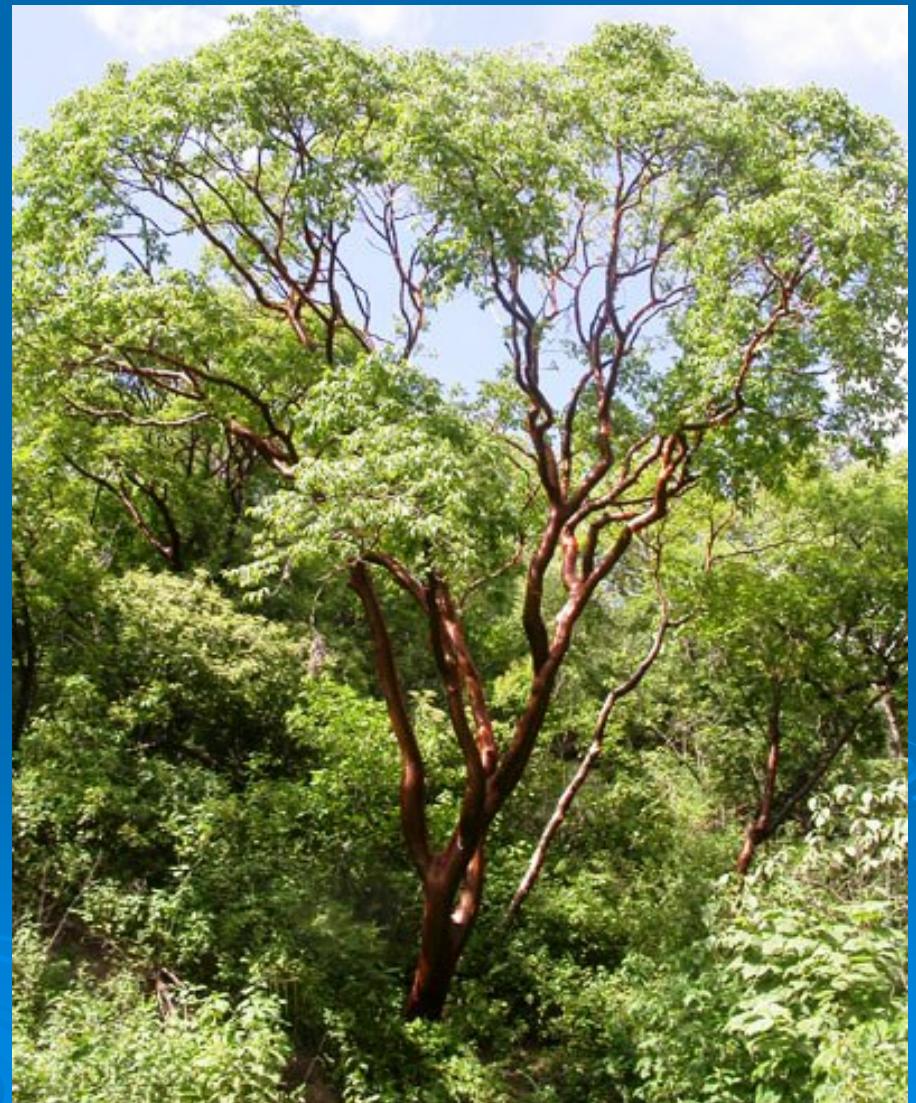
- Native
- Wind Tol: 4
- Salt Tol: 5
- Hurricane Tol: 9



Bursera simaruba

Gumbo Limbo

- Wind Tol: 3
- Salt Tol: 5
- Hurricane Tol: 8



Clusia rosea

Autograph Tree

- Wind Tol: 3
- Salt Tol: 5
- Hurricane Tol: 8



Ficus benghalensis

True Banyan

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Guaiacum sanctum

Lignum Vitae

- Native
- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Simarouba glauca

Paradise Tree

- Wind Tol: 3
- Salt Tol: 4
- Hurricane Tol: 7



Agaves

Century Plants

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Nolina recurvata

Ponytail

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Yuccas

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Crinum asiaticum

Crinum Lily

- Wind Tol: 4
- Salt Tol: 5
- Hurricane Tol: 9



Aloes

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Philodendron giganteum

Giant Philodendron

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Strelitzia reginae

Orange Bird of Paradise

- Wind Tol: 4
- Salt Tol: 4
- Hurricane Tol: 8



Suriana maritima

Bay Cedar

- Wind Tol: 3
- Salt Tol: 5
- Hurricane Tol: 8



Liriope muscari

Liriope

- Wind Tol: 5
- Salt Tol: 5
- Hurricane Tol: 10



Hymenocallis latifolia

Spider Lily

- Wind Tol: 5
- Salt Tol: 4
- Hurricane Tol: 9



Top 10 Coastal Hurricane Tolerance Tips

- **Drought Tolerance:** There is a direct correlation of drought tolerance to salt tolerance. Typically the more draught tolerant the plant species the more salt tolerant it will be.
- **Silver:** Plants with silver or blue waxy coatings typically endure salt spray very well.
- **Maturity:** Size is important. Typically small plants of even highly tolerant plant species are not as durable as mature specimens. Except that extreme height is not an advantage
- **Containerized:** Pot grown plants establish quicker than field grown and dug plants, typically resulting in a more durable plant in a shorter period of time.
- **Health:** Plants in good condition handle all threats, much better than weaker plants.

- **Irrigation:** After heavy amounts of salt spray and/or inundation, quick and thorough irrigation/watering is strongly recommended.
- **Buffers:** Planting buffers of wind tolerant plant species around more delicate plants will help protect them from wind damage. Plants in groups typically survive better than solitary plantings.
- **Berming:** Increasing the height of the planting bed above the surrounding grade, will typically decrease the amount of salt reaching the roots minimizing salt damage.
- **Natives:** Plants that are native to the Keys and other Caribbean coastal areas, typically endure wind and salt better than inland species.
- **Balance:** Landscapes should be designed with durability and longevity in mind, but there are many beautiful plants that still deserve to be included in your garden even if they are not completely hurricane tolerant. Many shrubs and colorful plants are inexpensive and should be considered disposable, but well worth the effort and cost in between hurricanes.

Native Plants Coastal Hurricane Tolerance

- **Most Tolerant**
- 1. Buccaneer Palm: *Psuedophoenix sargentii*
- 2. Thatch Palms: *Thrinax morrisii*, *radiata* & *Coccothrinax argentata*.
- 3. Jamaican caper: *Capparis cynophallophora*
- 4. Silver Buttonwood: *Conocarpus erectus* var *sericeus*
- 5. Lignum Vitae: *Guaiacum sanctum*

Native Plants Coastal Hurricane Tolerance

- Least Tolerant
- 1. Coco-plum: *Chrysobalanus icaco*
- 2. Firebush: *Hamelia patens*
- 3. Satin Leaf: *Chrysophyllum oliviforme*
- 4. Paurotis palm: *Acoelorraphe wrightii*