



This species helps to stabilize beach dunes by capturing windblown sand, and resisting wave scour during storms with dense fibrous interconnecting root mass.





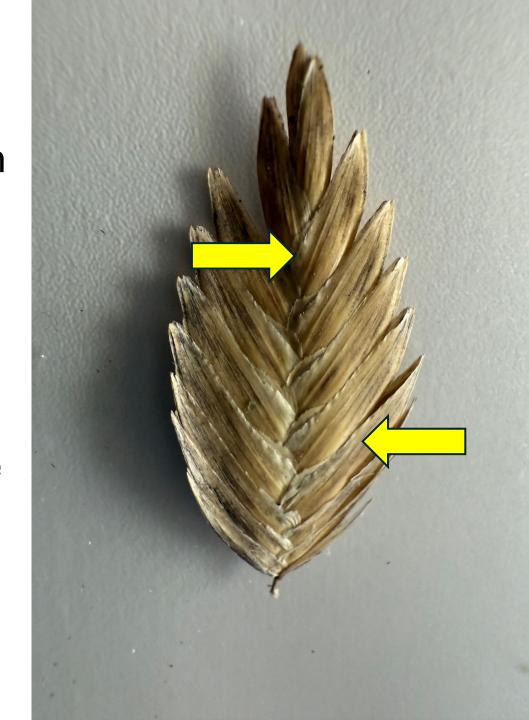


### **EVERYONE KNOWS YOU CAN'T PICK SEA OATS**



EXCEPT.. When you have <u>permission of the property</u> owner, <u>public or private.</u> Fl. Statute 370.041

This is called a spikelet.. one of maybe 100 or more on each seed stalk. In a really good year with lots of rain and no midsummer storms to shake them up, there might be five or six actual seeds in there, but it looks like there's probably only two in this one.





Small volume processing can be done locally because seed itself sinks, when separated from the spike. High vol..F.W. Schumacher <treeseed@capecod.net>



We rinse cleaned seed in peroxide, then thoroughly dry and refrigerate to store long term.



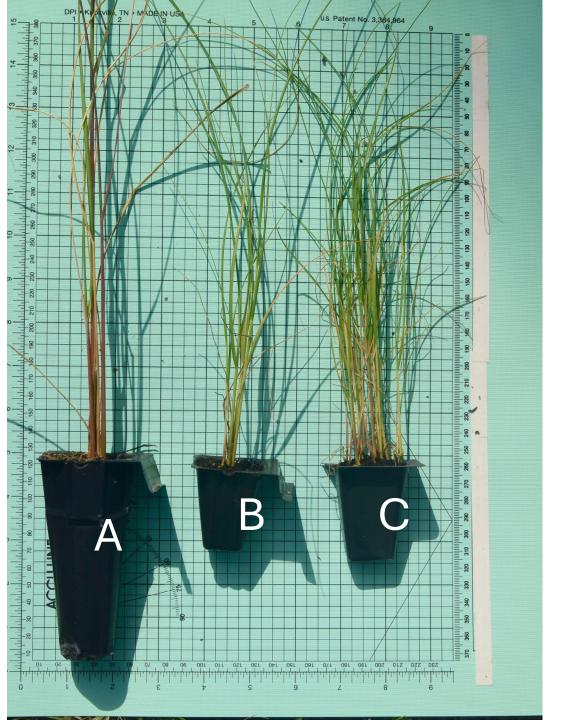
liner plugs.







10 to 14 weeks to grow a marketable crop. Full control of cultural conditions is essential.



A.. 50 cell cone hard to kill.. 5"

B..96 cell liner wtwo seedlings(typical public bid project)

C..72 cell liner w five seedlings. Installed in the Bathtub Beach Project



50 cell tree cone is our favorite upsize.. equal to 4 x 4 inch container, but much more compact to ship and needs less bench space to grow.

Once planted, will catch up with 1 gallon in a few weeks.





Commonly shipped in boxes of 400 to 500. Should order for shipment first of the week so they don't set in the dark box over the weekend. Open up to breathe upon arrival.



## Dune Construction..



## HOW IS IT DONE?

4/30/2025

# 1000 PLANTS / MAN / DAY

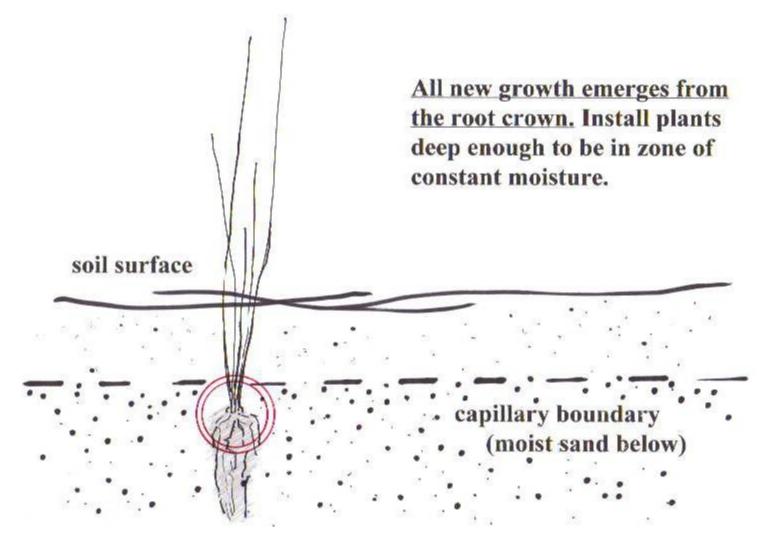


This is a great day for planting... Rain last night and the sand is plenty wet. In dryer conditions, slower to plant them deep



We like to water the plants in at install, set roots especially when the sand is dry. This gizmo pumps water up to 2/3 mile from the parking site Same amount of water as hauled in for the gel.

## Irrigation is not necessary...IF



Top of rootball minimum 6 inches below grade



1 Lowes Bulb Planter. 2 Battery drill with Home Depot planting bit. 3 Hose end jetting tool. 4 Sink drain 24 inch J tube. 5 Lowes Bulb Planter with EMT pipe extension. 6 Welded steel 2.5 inch square planting spike. 7 Stihl 2.5 inch planting bit. 8. Hose end jetting tool 9 Stihl BT45 Gas Auger w 2.5 Inch bit. 10 Plant Nurturing Service E-Z Feeder fertilizer injector. 11 Stihl BT45 Gas Auger w 5 inch Stihl planting bit.



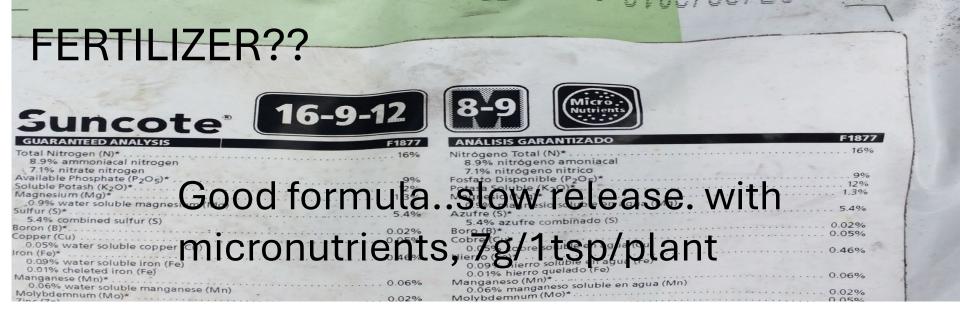
This tool dispenses a precise measured amount of fertilizer at the rate required by the contract.

Ensures socks that the client gets what they pay for and that we don't lose money by over fertilizing.

Available from Amazon, and pays for itself with two bags of fertilizer.



Most projects specify 18 inches on center or 4 yd.<sup>2</sup> We use a net with one yard squares to make sure the client gets their correct count, and we don't overplant and lose our margin to finish the job. Allows random natural spacing.



Lots of conflicting debate, whether fertilizer is necessary in plants growing in a natural system.

# BUT, probably just spent millions of dollars on sand for these plants to grow in.

So let's maximize performance of the last few percent of investment in the plants which will HOLD IT. They settle back to real growth quickly.

#### Q?? How many diapers does it take to make a

**dune?** Hydrophilic gel spec'd as soil amendment for dune plants is similar to diaper absorbent.



**Answer.. 34,374**.. Approximate diaper mass equivalent of hydrogel spec'd in XXXXXX Project. One cup hydrated gel per each into planting hole.. 240,000 plants









#### Natural Areas Journal

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No science to demonstrate value to the plant. Results in lazy roots, and benefits only the careless installer. Adds cost. This study saw no value, recommended against.



Don't catch sand any better than plants, but degrade to create hazards and very costly to remove. PUT THE MONEY INTO MORE PLANTS...









3 mile continuous system has consolidated and captured as much as 13 vertical feet in some areas. Further nourishment likely unnecessary.











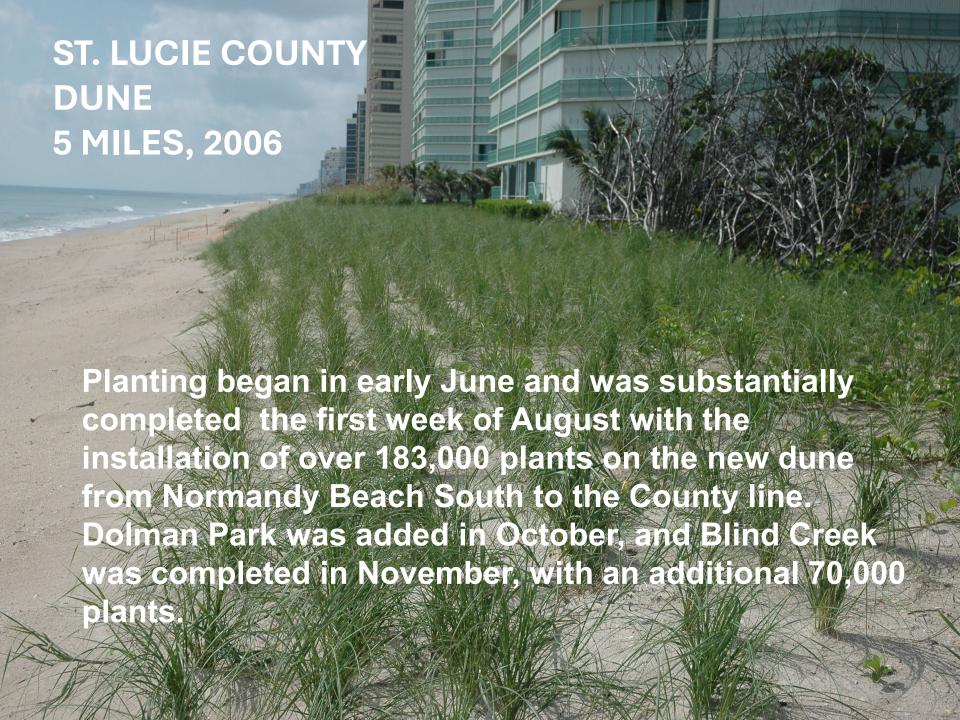












## **VOLUME COASTAL PLANT SUPPLIERS**

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