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## RESEARCH UPDATE

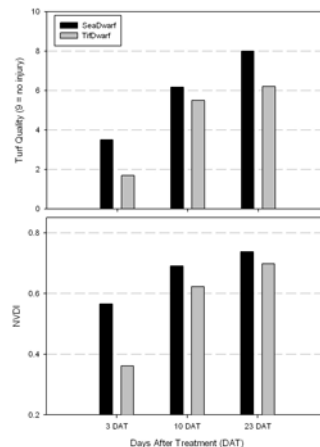
### Salinity and SeaDwarf® by Dr. Lee Berndt, VP Research & Development

Environmental Turf is conducting ongoing research on the effects of various salts applied to SeaDwarf®. Two experiments were initiated in 2010. The first study was done to determine the degree of turf injury and effect on weed populations. Treatments were table salt, rock salt, solar salt, potassium chloride, ammonium chloride, and fertilizer grade 0-0-60 applied at 0, 15, 30, or 45 pounds per 1,000 square feet to SeaDwarf® maintained at 1 inch in Avon Park, FL. Table salt applied at 15 pounds per 1,000 square feet appeared effective in reducing the population of spotted spurge (*Euphorbia maculata*) while not burning turf (see Photo 1). This suggested table salt at 15 pounds per 1,000 square feet may be an effective herbicide for certain weeds on fairway paspalum turf. Treatment application is ongoing and additional data is actively being collected. Effect of these treatments on nematode populations is also being studied in cooperation with Dr. Billy Crow of the University of Florida.

The second experiment was done to compare the response of SeaDwarf® and TifDwarf maintained at putting green height to table salt applied at 30 pounds per 1,000 square feet. Location of this study was Winter Pines Country Club in Winter Park, FL. SeaDwarf® was injured by table salt but quickly recovered (see Figure 1). TifDwarf was more severely injured and recovered more slowly. Salt damage was assessed by visually estimating turf quality and using the Normalized Vegetative Difference Index (NVDI). The NVDI is an objective measurement of turfgrass quality that measures light reflected from the turf at specific wavelengths. Data suggested SeaDwarf® is more tolerant to table salt than TifDwarf at putting green height. It also suggested table salt may be better suited as a herbicide for paspalum, and 30 pounds salt per 1,000 square feet may be too high a rate for greens. Additional research is being conducted looking at lower rates of application on greens.



Plot on the left was treated. Plot on the right was an untreated control. Note the difference in spotted spurge population.



Visual quality ratings (top) and NVDI measurements (bottom) indicate salt injured both turf types. TifDwarf was more severely injured and recovered more slowly.

## Industry Insights

**“The use of seashore paspalum has been growing on Florida sports fields because of its aggressive growth pattern and adaptability to soils with high salt content and/or use of effluent water.”**

Suz Trusty writing in the article “Turf Varieties for Every Region” in the June 2010 issue of SportsField Management magazine

**“With its stunning green appearance, pure aesthetics was very important in that decision... Ultimately the paspalum also helps us not to have to overseed those lawns... The paspalum is just so much better. It has a brilliant green color year-round, and it gives us a striped-up look even in the summertime, which you obviously don’t have with bermudagrass.”**

Mark Reid, head golf course superintendent at The Breakers in Palm Beach, Florida, talking about the Aloha® seashore paspalum lawn areas at the hotel. Read the entire story from the Turf South June 2010 article, including Reid’s tips for maintaining Aloha® seashore paspalum, [Click Here](#)



## INTERNATIONAL UPDATE

### Licensed SeaDwarf® producer named in Australia

Environmental Turf is proud to announce that Orara Turf, located in Coffs Harbour, New South Wales, has been selected as a licensed turf producer of SeaDwarf® in Australia.

Orara Turf is a family owned business, overseen by Bill Wilson, a well-known professional in the Australian turfgrass industry with more than 30 years of practical experience.

“SeaDwarf® is ideally suited for the Australian climate because of its low water requirements and strong salt tolerance,” Wilson said. “It tolerates high usage and reclaimed water yet provides one of the tightest, densest, fine textured swards I have ever seen.”

To learn more about Orara Turf [Click Here](#)

### Panama’s National Soccer Stadium Grassed with SeaDwarf®

Argentine footballer Lionel Messi, considered one of the best soccer players of his generation, recently played the inaugural match on the new SeaDwarf® field at Rommel Fernandez Stadium in Panama. Messi, who currently plays for the FC Barcelona team, hosted the “Messi and Friends vs. Rest of the World” charity match on July 14th at the Panamanian national stadium to a crowd of 28,000 excited spectators. The field was grassed earlier this year by Jardines Urbanos, the licensed SeaDwarf® sod producer in Panama. Messi and his friends beat “The Rest of the World” team 6-4 in the match.

For video highlights of the match, and to get a look at the new SeaDwarf® field, [Click Here](#).

To learn more about Jardines Urbanos [Click Here](#)



Orara Turf highlighted SeaDwarf in their booth recently at the Australian Golf Course Superintendent’s Association meeting



Lionel Messi, (No. 10) plays on SeaDwarf®

## Did You Know?

### The value of grass?

More than 50% of people visit a park at least once a week. This according to the People, Places and their Green Spaces report produced by the national standard for parks and green spaces, Green Flag Plus Partnership in England.

### Learn Online

Our educational videos on seashore paspalum turfgrass have been viewed on TurfNet.com more than 1,000 times. Haven’t seen them yet?

[Click Here](#)

Like Us on 

## GOLF TOURNAMENT NEWS

### Champions Tour to play on SeaDwarf®... Again!

Officials for the ACE Group Classic golf tournament announced this summer that the Champions Tour event will return to its 2010 venue at The Golf Lodge at The Quarry in Naples, Florida, February 14 – 20, 2011. The course was

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THE ACE GROUP



CLASSIC



designed by Hurdzan/Fry and is grassed on all surfaces, including greens, with SeaDwarf® seashore paspalum.

“We are excited to be the host venue in 2011 and continue our partnership with the Champions Tour and the ACE Group Classic,” said Ryan Marshall, division president of the Pulte Group, developers of The Quarry. “Players and spectators alike were impressed with The Quarry. We are confident 2011 will be the best year yet for this great golf tournament.”

Kevin Rooney, newly-promoted Tournament Director, called the Ace Group Classic at The Quarry “the premiere sporting event in Southwest Florida.”

The event is well-known for annually attracting the strongest field of competitors from the Champions Tour Official Money List. The 2010 ACE Group Classic, also held at The Quarry, was especially memorable as Fred Couples captured his first title on the Champions Tour after defeating Tommy Armour III by one stroke. The victory was Couples’ first official event victory since the 2003 Shell Houston Open on the PGA TOUR.



The Pros putt on SeaDwarf® at The Quarry

## GOING GREEN

### UltimateFlora® Zoysia developed as an environmentally friendly alternative to St. Augustine grass

What’s greener than grass? Researchers from the University of Florida worked for about a decade to answer that question. The result was a “greener” grass called UltimateFlora® Zoysia, a drought resistant turfgrass developed to offer homeowners and homebuilders a “greener” alternative for home lawns.

This live, natural grass in the family of zoysiagrasses requires less water and less fertilizer than traditional St. Augustine varieties, plus UltimateFlora® Zoysia has a finer, softer, medium-textured leaf blade that creates a lawn that people actually want to walk on.

UltimateFlora® Zoysia was also the very first grass to be awarded green home points by the Florida Green Building Coalition, the organization that certifies green homes in Florida. Homeowners and builders seeking ‘Green Home Certification’ may install UltimateFlora® Zoysia in a home’s lawn and receive two points toward their whole-house certification. UltimateFlora® Zoysia’s low water use attributes qualified for the certification under Category 2 for ‘Water’, part 16 for ‘drought tolerant turf in the installed landscape’.

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A home lawn grassed with UltimateFlora® Zoysia

## About Us

### Licensed Producers

Environmental Turf is not a sod farm. Rather, Environmental Turf licenses experienced, high quality sod farms all over the world to grow our proprietary turfgrasses. We support our licensees with agronomic expertise and marketing programs that help them to succeed.

### Marketing

Environmental Turf creates extensive marketing, advertising and publicity campaigns that educate and inform the industry and consumers about our environmentally friendly grasses. We attend numerous conventions and trade shows all over the world in order to meet with friends, colleagues and future customers face-to-face in order to spread the word about Our Mission.

### Our Mission

We do all of this to make a positive impact on the planet. We bring turfgrasses to the marketplace that will help sustain the environment, reduce the amount of water used for turfgrass irrigation, and curb the amount of chemicals and fertilizers released into the ecosystem while also creating an esthetically pleasing landscape. We’re proud of our company, our licensed producers and our wide network of friends whom we’ve helped or who have helped us along the way. We operate as a team, a family. If you’d like to join us, please give us a call or drop us an email today: [info@environmentalturf.com](mailto:info@environmentalturf.com) or 863-452-6595.



Qualities that make UltimateFlora® Zoysia attractive to homebuilders and homeowners are:

- Drought resistance
- Resistance to the chinch bug insect
- Less fertilizer requirements than St. Augustine grass
- Grows in faster than other zoysia varieties
- Moderate shade tolerance
- Medium-textured leaf blade with an upscale look reminiscent of grasses used Up North
- Soft feel underfoot, ideal for families who want to play in the yard
- Eligible for Green Home certification points



UltimateFlora® Zoysia is available through Environmental Turf, Inc., and our network of licensed sod producers. [Click Here](#) to find a licensed producer near you.

## AWARDS & HONORS

### SeaDwarf® Course Rivers Edge Named in Top 5 List

Ron Green Jr., well-known golf writer for the Charlotte Observer newspaper, was recently asked to name his Top 5 List of golf courses in North Carolina "Worth the Drive". Rivers Edge in Shalotte, grassed with SeaDwarf® greens, was ranked at number four on the list.

"This Arnold Palmer design features some of the most spectacular marsh views along the Grand Strand. It may take one round to get comfortable with some of the shots, but you'll want to go back," said Green.

The other four courses rounding out the list are: Pinehurst No. 2 in Pinehurst; Pine Needles in Southern Pines.; Linville Golf Club in Linville.; and Pinehurst No. 4, also in Pinehurst.

To read the entire article [Click Here](#)

To learn more about Rivers Edge Golf Club [Click Here](#)



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## Where To Buy SeaDwarf®

**California:** Am-Sod, Inc.

**Florida:** Emerald Island Turf

**Georgia:** Pike Creek Turf Inc.,  
Phillip Jennings Turf Farms,  
Superior Turf

**Hawaii:** Ali'i Turf

**South Carolina:** Modern Turf

**Brazil:** Green Grass

**China:** Sino-Green Turf Co., Ltd.

**Mexico:** Berentsen Jardinaria,  
SA de CV.

**Panama:** Jardines Urbanos, SA

**South Africa:** G Barker Turf CC

**Turkey:** Cimser Cim Uretim San.

## Where to Buy

### UltimateFlora® Zoysia in Florida

**Avon Park:** Emerald Island Turf

**Dade City:** Little Everglades Ranch

**Indiantown:** Indian Sun Turf

**Port St. Lucie:** Kennedy Groves

**Sebring:** Gulf Kist Sod

**Starke:** K & R Turf Farm, Inc.

**Vero Beach:** Gulf Kist Sod