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SportsTurf ADVERTISERS' INDEX

Page #

34

9

47

47

15

20 48

53

53

32

18 37 (regional)

42

49

46

11

51

13

45

56

5

23

3

31

19

46

35 53

25

40

21

27

51 48

33

43

51

2

51

29

49

55

41

51

Web Address	Fill in #
http://www.oners.hotims.com/14677-128	128
http://www.oners.hotims.com/14677-129	129
http://www.oners.hotims.com/14677-113	113
http://www.oners.hotims.com/14677-137	137
http://www.oners.hotims.com/14677-136	136
http://www.oners.hotims.com/14677-116	116
http://www.oners.hotims.com/14677-122	122
http://www.oners.hotims.com/14677-139	139
http://www.oners.hotims.com/14677-150	150
http://www.oners.hotims.com/14677-148	148
http://www.oners.hotims.com/14677-126	126
http://www.oners.hotims.com/14677-118	118
http://www.oners.hotims.com/14677-131	131
http://www.oners.hotims.com/14677-133	133
http://www.oners.hotims.com/14677-140	140
http://www.oners.hotims.com/14677-154	154
http://www.oners.hotims.com/14677-114	114
http://www.oners.hotims.com/14677-145	145
http://www.oners.hotims.com/14677-115	115
http://www.oners.hotims.com/14677-135	135
http://www.oners.hotims.com/14677-152	152
http://www.oners.hotims.com/14677-112	112
http://www.oners.hotims.com/14677-121	121
http://www.oners.hotims.com/14677-111	111
http://www.oners.hotims.com/14677-125	125
http://www.oners.hotims.com/14677-119	119
http://www.oners.hotims.com/14677-153	153
http://www.oners.hotims.com/14677-130	130
http://www.oners.hotims.com/14677-149	149
http://www.oners.hotims.com/14677-147	147
http://www.oners.hotims.com/14677-132	132
http://www.oners.hotims.com/14677-120	120
http://www.oners.hotims.com/14677-123	123
http://www.oners.hotims.com/14677-142	142
http://www.oners.hotims.com/14677-138	138
http://www.oners.hotims.com/14677-127	127
http://www.oners.hotims.com/14677-134	134
http://www.oners.hotims.com/14677-146	146
http://www.oners.hotims.com/14677-110	110
http://www.oners.hotims.com/14677-117	117
http://www.oners.hotims.com/14677-143	143
http://www.oners.hotims.com/14677-124	124
http://www.oners.hotims.com/14677-141	141
http://www.oners.hotims.com/14677-151	151
http://www.oners.hotims.com/14677-156	156
http://www.oners.hotims.com/14677-144	144
	http://www.oners.hotims.com/14677-128 http://www.oners.hotims.com/14677-129 http://www.oners.hotims.com/14677-137 http://www.oners.hotims.com/14677-136 http://www.oners.hotims.com/14677-136 http://www.oners.hotims.com/14677-139 http://www.oners.hotims.com/14677-139 http://www.oners.hotims.com/14677-139 http://www.oners.hotims.com/14677-139 http://www.oners.hotims.com/14677-131 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-135 http://www.oners.hotims.com/14677-130 http://www.oners.hotims.com/14677-130 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-133 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/14677-134 http://www.oners.hotims.com/1467

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March 2008 - Expires September 2008 - RS0803

Rebuilding Doc's Dugout

Photo contest slated



heSTMAHistorical Committee met in late November for the first time to log

and develop the acquired collection of Dr. Kent Kurtz, STMA's first executive director. "Doc", as he was admiringly referred to, also served as the association's first Historian, and amassed an amazing collection of document and photographs of the sports turf profession and STMA. Doc's collection included a kind donation from the estate of turf industry pioneer Dr. Fred Grau. In appreciation of Doc's contribution and



the generous donation of the Kurtz family to STMA we will be running a monthly account of the people, places, stories, equipment, and photographs that are important to the profession and association.

Hold on to your photos! Starting this spring, and in order to enrich Doc Kurtz's collection, the STMA Historical Committee will be running a contest each month to see who has the most unique pictures of sports turf specific equipment and significant STMA members. Look for details in this section in future issues!

This photo from the STMA Kurtz Historical Collection taken at Metropolitan Stadium in Minneapolis, shows STMA Founder Dick Ericson's crew using Wooley Weed Burners to thaw out the warning track. Often sports turf managers were forced to come up with innovative ways to prepare the field for athletic competition. Originally designed for use in parking lots for weed removal, Wooley Weed Burners were used by early sports turf managers to dry wet infields for play and burn off weeds in preparing a seed bed.



Less water = tougher renovation



BY DR. GRADY MILLER Professor, North Carolina State University

Questions? Send them to Grady Miller at North Carolina State University, Box 7620, Raleigh, NC 27695-7620, or email grady_miller@ncsu.edu

Or, send your question to David Minner at lowa State University, 106 Horticulture Hall, Ames, IA 50011 or email dminner@iastate.edu. e want to renovate the bermudagrass on our high school football field this spring. We have some heavily worn areas down the center and the sidelines but the rest of the field is ok. I think the field was

originally sprigged to Tifway about 10 years ago, but that was before I was hired. We have decided to use a new seeded cultivar but we are not sure if we should take out the entire field or just seed into the worn area. One of our biggest issues is that we can only water the fields 1 day per week due to our local water restrictions. Any advice you can provide would be appreciated.

North Carolina

It seems 90% of the questions I have received the last few months have a drought component. My answer to your questions will be tempered based on your inability to irrigate. If irrigation was not an issue, your options would be a little different and the assurance of success would be much greater.

I will provide an overview of establishing via seeding, but you may want to download "A Guide to Establishing Seeded Bermudagrass in the Transition Zone" that was recently published. It was written by experts from Alabama, Arkansas, Indiana, Kansas, and Mississippi based on their years of combined experiences. It can be found at the Applied Turfgrass Science website, address: http://www.plantmanagementnetwork.org/ats/, under the headline Turf Management Guides.

This guide provides pages of useful information related to cultivar selection, seeding date, site preparation, seeding rate, weed control, fertilization, and costs. It does not provide relevant information related to irrigation management or suggestions for establishment without irrigation. The unfortunate reality is that most published recommendations are designed to minimize seedling stress and competition for light, water, and nutrients. Establishing a field without irrigation carries additional risks far beyond establishing an irrigated field.

If you have not yet selected your seeded cultivar, you could read through the information in table 1 of the guide, or look at the National Turfgrass Evaluation Program data (nhttp:// www.ntep.org) for your region to help you decide which might be best. As is noted in the guide there is a wide range of cost for bermudagrass seed (about \$5 to \$25 per pound). Often the more expensive cultivars are those that produce the fewest seed heads, which is used by some people as a measure of quality. You should also check with your local seed supplier to see what is currently available.

But before you purchase the seed, you will need to decide if you are going to renovate the entire field or just the worn areas. If irrigation was not such an issue, I would suggest you renovate the entire field. You have time on your side and the field would look and play much more consistent. With regular rainfall and once per week irrigation, there is still a chance that you could successfully renovate the entire field, but there is the risk of slow germination and poor growth following establishment if the turf does not get adequate moisture.

Since you already have at least half your field grassed with an improved cultivar and your extensive midfield wear indicates you are getting more traffic than the field can normally handle, I would recommend just seeding the bare areas this year. Most of the newer seeded bermudagrass cultivars will blend reasonably well with Tifway. Once you get the lines painted for football any difference in texture or color will be even less noticeable. Given your situation I believe having turf coverage is more important than visual consistency.

Research has shown that early seeding dates are not detrimental in terms of seedling winterkill and may actually have some advantages. Bermudagrass generally does not germinate until temperatures reach 68 degrees but seed can be planted when the temperatures are cooler (mid-February to mid March rather than April to June) and will remain in the soil until conditions are conducive to germination.

Before planting thoroughly core aerify the area to be seeded to alleviate compaction and open the soil. Then use a rotary spreader or slit seeder to apply the seed evenly and at the appropriate rate. A slit seeder would be the ideal way to plant, but if one is not available then carefully rake broadcast seed into the top 1/8 inch of soil using a leaf rake or nail drag, and then lightly roll to improve seed-to-soil contact.

Once planted the recommendations are more difficult to make because you only have one fixed-day per week to water. You are now depending on Mother Nature and you hope that she graciously provides you with rainfall.

You want to irrigate as efficiently as possible so make sure that your irrigation system is working and provides good coverage. This is best accomplished by putting out at least a couple of catch containers between each head to check catch amounts and by looking for dry spots during and after an irrigation cycle. Make adjustments or replace heads if there are distribution problems.

Once the seedlings start to emerge, apply about 0.5 pounds N/1,000 sq. ft. using a soluble source of N (e.g. urea) just before an irrigation cycle. Continue to apply about 0.5 pounds every 2 weeks as long as there is adequate soil moisture until the turf is well established. Apply other nutrients based on a soil test. I would avoid the use of herbicides on drought stressed turf.

There is no guarantee that this is going to work. Without water turfgrasses will not germinate and without adequate water it will not remain healthy. But I believe taking this course of action is better than doing nothing.













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