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(Bruce Bates) or Tom Curran CTomSell@aol.com

Florida #2 Chapter (North): 850-580-4026,
John Mascaro, john@turf-tec.com

Florida #3 Chapter (Central): 407-518-2347,
Scott Grace, scott@sundome.org

Gateway Chapter Sports Turf Managers Association: www.gatewaystma.org.

Georgia Sports Turf Managers Association:
www.gstma.org.

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Indiana -FORMING - Contact Clayton Dame,
Claytondame@hotmail.com or Brian Bornino,
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Iowa Sports Turf Managers Association:
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New England STMA (NESTMA): www.nestma.org.

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www.ncsportsturf.org.

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405-744-5729; Contact: Dr. Justin Moss

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Pacific Northwest Sports Turf Managers Association: www.pnwstma.org.

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U.S. Postal Service Statement of Ownership, Management and Circulation (Required by 39 U.S.C. 3685)

- Title of publication: SportsTurf
- Publication No. 0000-292
- Filing Date: September 29, 2012
- Issue Frequency: Monthly
- No. of Issues Published Annually: 12
- Annual Subscription Price: Free to Qualified Subscribers
- Complete Mailing Address of Known Office of Publication: 1030 W. Higgins Road, Suite 230, Park Ridge, IL 60068
Contact person: Joanne Juda, 630-543-0552
- Complete Mailing Address of Headquarters or General Business Office of Publisher: M2MEDIA360, 1030 W. Higgins Road, Suite 230, Park Ridge, IL 60068
- Full Names and Complete Mailing Addresses of Publisher and Editor:
Group Publisher: Charlie Forman, SR. Vice President, M2MEDIA360, 1030 W. Higgins Road, Suite 230, Park Ridge, IL 60068
Editor: Eric Schroder, M2MEDIA360, 1030 W. Higgins Road, Suite 230, Park Ridge, IL 60068
- Owner: Bev-Al Communications, 777 E. Tahquitz Canyon Way, Suite 313, Palm Springs, CA 92262
- Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages, or Other Securities: None
- Has Not Changed During Preceding 12 Months
- Publication Name: SportsTurf
- Issue Date for Circulation Data Below: September 2012
- Extent and Nature of Circulation:

	Actual No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date
a. Total No. of Copies (net press run)	22,979	22,417
b. Legitimate Paid and/or Requested Distribution		
(1.) Outside County Individual Paid/Requested Mail Subscriptions Stated on PS Form 3541	17,764	17,807
(2.) In-County Copies Requested by Employers for Distribution to Employees by Name or Position Stated on PS Form 3541	-	-
(3.) Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Paid or Requested Distribution Outside USPS®	-	-
(4.) Requested Copies Distributed by Other Mail Classes Through the USPS (e.g. First-Class Mail®)	-	-
c. Total Paid and/or Requested Circulation	17,764	17,807
d. Nonrequested Distribution	-	-
(1.) Outside County Nonrequested Copies Stated on PS Form 3541	4,926	4,083
(2.) In-County Nonrequested Copies Stated on PS Form 3541	-	-
(3.) Nonrequested Copies Distributed Through the USPS by Other Classes of Mail	-	-
(4.) Nonrequested Copies Distributed Outside the Mail	59	300
e. Total Nonrequested Distribution (Sum of 15d (1), (2), and (3))	4,985	4,383
f. Total Free Distribution (Sum of 15d and 15e)	22,749	22,190
g. Copies Not Distributed	230	227
h. Total (Sum of 15f and g)	22,979	22,417
i. Percent Paid and/or Requested Circulation (15c divided by f times 100)	78.09%	80.25%

- Publication of Statement of Ownership: Publication required will be printed in the November 2012 issue of this publication.
- Signature and Title of Editor, Publisher, Business Manager, or Owner: Joanne Juda-Prainito, Sr. VP Market Development, 09.29.12

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Q&A



BY DR. GRADY MILLER

Professor, North Carolina State University

Questions?

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Box 7620, Raleigh, NC 27695-
7620, or email
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Or, send your
question to

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Native soils for overwintering bermudagrass

At the University of Delaware we currently have one Riviera bermudagrass soccer field on a sand-based field that is 2 years old and is performing superbly. We are getting ready to convert two of our cool-season practice soccer fields to bermudagrass. These fields are native soil (high clay content with poor drainage). My question is on the native soil fields without any amendments how will the bermudagrass establish, perform, and [survive] winter on the native soil fields as compared to the sand-based field?

Sam Jones

Sam, this is a great question. I'm glad Riviera is performing so well. I would have been a little skittish to recommend someone use bermudagrass that far north. With 3 months per year with average lows below freezing, I am sure you get your share of harsh temperatures that could potentially winterkill bermudagrass. Riviera has proven to be more cold tolerant than most bermudagrasses, so hopefully it will continue to meet all your expectations.

As for the question, native-soils fields are often much easier to get established in turf than a sand-based field. The heavier soil will hold nutrients and water better, so there is generally a greater margin of error for grow-in, except if you get a lot of rainfall and cannot get the water off the field. Hopefully you are allowing for the reduced internal drainage by using a bit more crown and also putting some perimeter drainage around the field to get excess water away from the sidelines/playing surface as quickly as possible.

Winter turf survivability in the native soil field should compare favorably to the sand-based field. Since there is a greater amount of water in the native soil profile it will cool down slower at night when the temperature drops. This is due to the specific heat of water being about four times that of air, plus air is a poor thermal conductor. Generally, soil thermal properties are very closely linked to soil moisture. For that reason, early season cold snaps normally cause more problems with sand-based fields than native soil fields. But once the cold temperatures arrive without adequate solar energy to promote warming during the day, it will not make as much difference.

In the spring, the characteristics that may have helped you in the fall can work against you in the spring. It can take a bit longer to warm up high-moisture holding native soils, especially if ice and shade are involved. I've seen shaded portions of fields keep an ice cover for a week longer than the sunnier portions. Remember, I'm talking about North Carolina winters and early springs, where it is still considered mild by many people's standards. Once the field has adequately warmed up, the thermal properties of water again gives the advantage to native soil fields. So, like in early fall, those late spring cold snaps may hurt the sand-based fields more than nearby native soil fields.

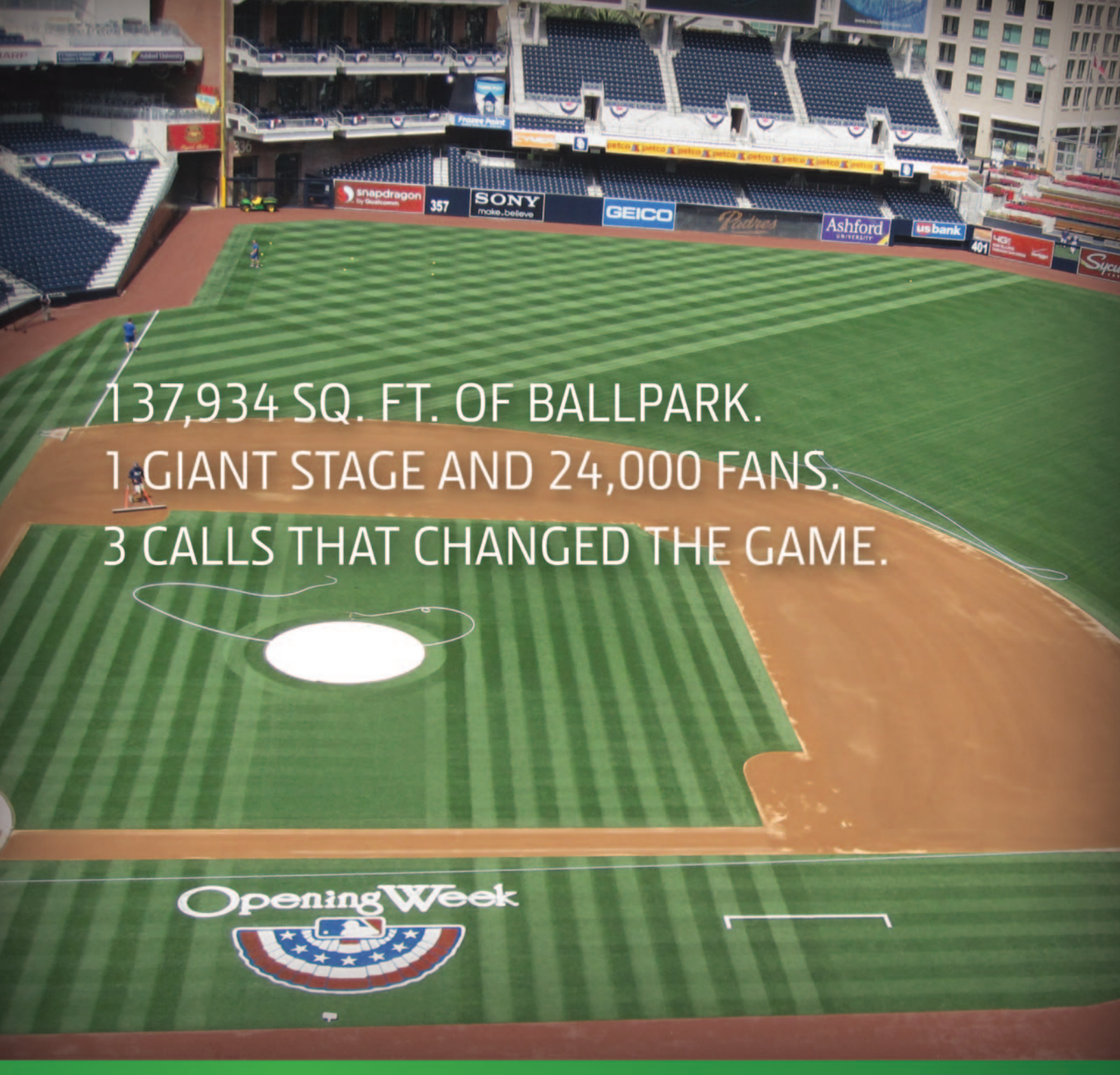
But there can be extenuating circumstances related to soil conditions that can reverse these responses, resulting in more damage to native soil fields. The amount of

traffic and any resulting damage to the plant and soil's structure can worsen the situation. The higher water content of native soils often results in more traffic damage, then muddiness, and perhaps sealing of the surface. Standing water is never good for turf health. And heavier soils compact easier from foot traffic or maintenance equipment than sandy soils. So, it is even more important with heavier native soils to stay on a good aerification program.

For an added bit of insurance invest in some good turf covers for the winter.

Fields should also not be allowed to dry out in the spring. Much of the late spring winterkill we see is often associated with desiccation of the turfgrass combined with freezing temperatures. Spring winds combined with low humidity and freezing night temperatures can do more turf damage than a severe mid-winter drop in temperatures when the turf is fully hardened to the cold.

You best bet for winter survivability is to practice good cultural practices—irrigation, fertilization, aerification, and pest control—and limit on-field use as much as possible during periods of high stress. For an added bit of insurance invest in some good turf covers for the winter. These not only reduce heat loss, they also help to keep people off the fields. But stay in this business long enough and you will likely get to experience winterkill. On the positive side, bermudagrass-growing weather follows right after bermudagrass-killing weather. So, my final suggestion is to have some seed ready to plant. ■

An aerial view of a baseball field, likely PetCo Park in San Diego, during Opening Week. The field is green with brown dirt base paths and infield. A large "Opening Week" logo with a baseball diamond and stars is painted on the grass near home plate. The stadium seating is visible in the background, mostly empty. Several advertisements are visible on the outfield fence, including Snapdragon, Sony, GEICO, Ashford University, and US Bank. The text "137,934 SQ. FT. OF BALLPARK. 1 GIANT STAGE AND 24,000 FANS. 3 CALLS THAT CHANGED THE GAME." is overlaid on the image.

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Episode 2, The Rock Concert. Every field has a story. This one starts at PetCo Park in San Diego, California with a tractor that's too small to pull a big stage across the turf safely. With the San Diego Padres due to play at home, see how the Park's grounds crew works with John Deere to make sure the post game concert rocks and the field stays ready for play.

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