

# Green Section Record

Volume 54, Issue 19

## Advancing Golf Course Maintenance Equipment With Positioning Technology

By John Daniels and Addison Barden

GPS technology makes precision turf management a reality.



With so many uses, the Global Positioning System (GPS) has become part of the daily lexicon. Whether it is providing turn-by-turn directions to a golf course or an accurate yardage to a putting green from the fairway, GPS technology directly benefits golfers on a daily basis. Less obvious to golfers are the various ways GPS technology can be used to improve the efficiency and effectiveness of golf course maintenance.

[Read More](#)

## Multimedia Content



### Video: Equipment for the Future

Golf course maintenance equipment has come a long way from the days of horse-drawn implements. Discover the changes in golf course maintenance equipment and get a sneak peek at some of the technology that soon might be coming to a course near you.

[Watch Now](#)



### Webcast: 10 Things You Need to Know About Mower Equipment

While you may not see it during your round, a lot of specialized equipment is used to maintain golf courses. Various types of mowers, precision application equipment and mechanical bunker rakes are a few of the unique items in the equipment fleet. Here are some interesting facts about the equipment the maintenance staff use every day.

[Watch Now](#)

## Green Section Collection: Equipment Management For Golf Courses



Updated for this issue.

These interactive digital collections include additional supporting articles, a photo gallery and videos that provide relevant information on the primary subject. The collections can be viewed online in a user-friendly digital magazine format, saved as a PDF or printed.

[Read More](#)

## Research You Should Know



### Accuracy of Soil Moisture Meters in Saline Soils

Measuring soil moisture with time-domain reflectometry (TDR) sensors can aid in turfgrass water conservation efforts and help improve playing conditions. A laboratory study was conducted at New Mexico State University during 2015 to investigate the accuracy and reliability of TDR soil moisture sensors at different salinity levels.

[Read More](#)

## Fore The Golfer



### How Technology Has and Will Continue to Change Golf

Technology is advancing faster than ever before, changing the way we live our daily lives – including our golf experience. From the way we play the game to the way golf courses are managed, discover the ways technology has changed, and will continue to change, the game of golf.

[Read More](#)

## Regional Updates



### West Region

You see puff, scalped turf during summer? It may be a sign of nitrogen in your irrigation water. Discover how to determine the amount of nitrogen your turf receives from irrigation.

[View Update](#)



### Northeast Region

From severe weed infestation to tree damage, consider the long-term effects that this year's drought will have on golf courses throughout the Northeast Region.

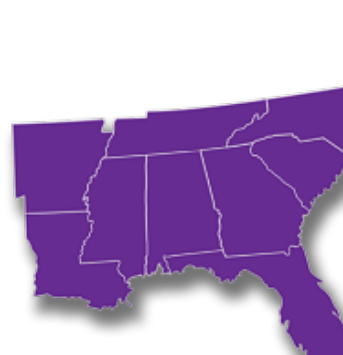
[View Update](#)



### Central Region

You finally caught that skunk which has been causing turf damage in search of grubs, but do you know your options to legally handle this potentially odorous critter?

[View Update](#)



### Southeast Region

Looking for alternatives to overseeding that are less expensive yet still provide appealing aesthetics? Consider turf colorants, they help make the game of golf fun and sustainable.

[View Update](#)

**GOLF'S USE OF WATER RESOURCE CENTER**

LEARN MORE ABOUT SUSTAINABLE SOLUTIONS >



### Are you a current subscriber to the USGA Green Section Record?

Subscribers receive the latest information on golf course management, turfgrass culture, environmental issues, research and economic sustainability delivered to their inboxes twice per month.

[Subscribe Today](#)

United States Golf Association  
77 Liberty Corner Road  
Far Hills, NJ 07931  
908.234.2300

[CONTACT US](#)

Stay connected with the USGA



## IMPORTANT LINKS

- [USGA Privacy Policy](#)
- [USGA Green Section Home Page](#)
- [USGA Staff Contact Information](#)
- [Course Consulting Service Information](#)
- [USGA Turfgrass and Environmental Research Online \(TERO\)](#)

©2016 by United States Golf Association®

[Policies for the Reuse of USGA Green Section Publications](#)

USGA Green Section publications are made available through the courtesy of the United States Golf Association (USGA®). The reuse of these materials is authorized only if the following conditions are met in their entirety. This policy applies to all Green Section publications, including articles, videos, presentations, and webcasts.

- 1) Adherence to all components of our Conditions for Reuse policy.
- 2) Inclusion of the appropriate Reprint Permission Language.
- 3) Notification of your Intent To Reprint Content.

The USGA Green Section Record (ISSN 2156-5813) is published twice monthly via electronic mail by the United States Golf Association®.