Congratulations to David Hoggard and his club for being selected by the Seven Rivers GCSA as the Winter 2007 Florida Green Cover Story.

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Visit the Florida GCSA Web site for breaking news and events calendar

After an extended reconstruction period, the Florida GCSA Web site is back online and contains late-breaking news and information. Also click on the calendar link on the home page to see upcoming events around the state. We will endeavor to post the most recent information on a daily to weekly basis and refresh the page often.

And for those who just can’t make those local chapter meetings, the site will provide you with the most current information on issues facing the industry. Also, please be aware that seven of our 12 local chapters also have Web sites, so you can check on registrations for events, education and contract information to become members.

Remember there is a dual membership requirement agreement between GCSAA and the affiliated local chapters. Join one and you are obliged to join the other as well.

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Managing Golf Course Nutrients

By Joel Jackson, CGCS

When it comes to managing golf course turf, we can talk about a lot of things, but producing good healthy turf boils down to three basic things: managing nutrients (fertilizers), managing water (soil moisture) and proper cultural practices (mowing, aerifying, verticutting, topdressing, etc.).

There are no hard-and-fast rules, since every plot of land is subject to unique conditions: budgets, expectations, grass variety and, most of all, the soil and water quality dictate management strategies and tactics. Over time, most superintendents develop their own programs to fit their unique situations. But technology changes as scientific knowledge grows and successful superintendents modify their old programs to take advantage of new fertilizer products and university research recommendations.

A new consideration that may influence future nutrient management programs is regulatory impact. Currently the state of Florida is in the process of adopting a statewide Fertilizer Rule. (See the fertilizer rule article in the Official Business section of this issue for more details.)

Furthermore, several local governments are moving toward limiting the amounts of nitrogen and phosphorous that can be applied. Right now the emphasis is on the homeowner market, but the rule will direct sports turf users: golf courses, athletic fields and parks – to follow the “Bermudagrass Recommendations” contained in University of Florida Publication SB191 based on Dr. Jerry Sartain’s work. On initial inspection, it would appear that the ranges of key nutrients are within acceptable limits to users and regulators, but they might differ from your current program, and many turf managers may have to lower their phosphorous totals. Documented soil and tissue tests may provide a variance for exceeding the annual or per-application limits in the rule. The rule likely will be completed by December 2008.

The point is that you need to take a good hard look at your current fertilizer program now. Is it based on habit – something that has worked for the last 5-10 years? Or do you vary your products, timing, rates or frequency of applications? Do you apply nutrients according to the calendar or according to the performance, appearance and clipping yield? How often do you take soil or tissue samples?

In the past few years I have had discussions with superintendents who have began to monitor their fertilizer use more closely and are beginning to skip one or two previously scheduled applications. Fertilizer sales people may not like to hear that, but they also can hear the footsteps of the regulators coming closer, so it is a good time to seriously reflect on your program and tweak it wherever you can.

Besides making good environmental sense, it makes good economic sense because fertilizers aren’t getting any cheaper.

In my gut I know that the proper application of fertilizers – whether home lawn, golf course, farm or grove – is not the major source of nutrient loading in our state’s waterways. We are the convenient target because forcing people and municipalities to upgrade septic tanks and water treatment plants takes a whole lot of tax dollars and it isn’t the popular thing to do. But the agriculture and greens industries can always do better and look for ways to modify our “old” practices to help make a difference, and then tell people about our best management practices and challenge the public and the government to do the same.

Winter Pines Program

By Joe Ondo, CGCS

Our overall fertility program hasn’t changed much over the years. We do try different products when we have a problem green or tee, but after soil test results, there are basically no silver bullets or secrets to good healthy turf. Mother Nature will throw you a curve ball every now and then but soil and tissue tests will tell you what you need.

Our granular program on greens in the winter and spring is 0.5 lb. of nitrogen (N) in an 18-2-18 blend every two weeks and supplemented as needed with a liquid application of 12-0-0 plus iron, manganese and potash. In the summer we might stretch out the granular applications and also apply Primo at 2.0 ounces/acre. In the fall and early winter we will apply some Milorganite before and after overseeding and apply a 6-20-20 starter fertilizer. Once the seed germinates we will generally use a liquid fertilizer program over the winter golf season.

Our tees are small and we try for a pound of N per month and also use Primo and some liquid fertilizer if they are off color. We apply 25-3-10 plus iron or 6-2-0 during the winter. Our fairways and roughs will get a pound of N in the spring when we apply Ronstar on a 15-0-15 blend. We also apply 0.5 pound of N in a 24-5-11 blend plus iron in the fall and winter and sometimes in September after aerifying. A pound of 6-2-0 per 1,000 sq. ft. is used on the fairways when we overseed. A total of 3-4 pounds of N is applied to our fairways in the summer plus a monthly Primo application. Our roughs will receive 1.0 pound of N with the Ronstar in the spring and another pound of N in the fall with a Barricade application. All of these large areas are spread in-house with a tractor-mounted spreader.

We will usually spot-fertilize weak areas resulting from traffic, weed control or insect damage. Walk-up areas on our tees, around ornamental beds and ends of our cart paths also get spot-treatment.

Our greens program will vary among the holes. Eight of them are push-up, built in 1964 with the origi-
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Superintendent John Lammrish has modified his basic fertilizer program at LPGA International over the years in response to soil-sample results, weather conditions, new fertilizer technology and operational realities.

Lammrish cited a couple of examples during a recent interview, “When I first came here, the fairway and rough program on the 250-acre Champions Course was 6-8 lbs. of nitrogen (N) per year. There were times we were baling hay in the roughs. I discussed the labor hours and the mess with our management team and they have allowed me to back off to 2.0 lbs. of N. We monitor the turf closely to make sure we don’t allow too much weed pressure from the reduced fertility, but it has helped our budget considerably without sacrificing playability or appearance. On the smaller 100-acre Legends course, the program calls for around 6 lbs. of N per year on the fairways and 8 lbs. of N on the tees.

Sometimes the simplest things work best. We also had a TAS visit with Todd Lowe of the USGA to discuss some of these issues and to provide the necessary documentation. The portable blower was not a new idea in the business, but we wanted to share it as a reminder that it can be a relatively inexpensive and effective solution in case someone may be having similar problem with greens drainage issues. It sure made a big difference for us.
Lammrish acknowledged that golf course conditions are driven by golfer expectations, but when the superintendent has credibility and trust of management, the course can benefit by allowing the professional turf manager to try modifications that can benefit the bottom line and the environment.

Lammrish said, “This past year has been a prefect example. Our normal 6-8 lbs. of N this year will be more like 4 lbs. total. I think the drier weather has slowed down normal plant growth and use of the nutrients. The course still looks good and our clippings yield is good, so we don’t have to apply more than is necessary to meet expectations.”

Under normal conditions Lammrish takes soil samples twice a year usually in April or May before the first aerification and then again in August or September after his last aerification. His reasoning is that if they need to adjust soil pH, the turf will be opened up and the fertilizer or amendments will be incorporated into the soil profile easier where it will be more readily available to the turf roots.

“We have greatly reduced our phosphorous inputs using 15-0-15 or 15-1-15 as our primary fairway and...
rough blend,” said Lammrish, “Twice a year we have a contract spreader apply the spring and fall applications to the whole course at a rate of 1 lb of N per 1,000 sq. ft. The other applications are made in-house with a tractor-mounted spreader and we only do the fairways.”

“Our greens receive 0.5 to 0.75 lbs of N per 1,000 sq. ft. every 8 to 12 weeks using a 17-1-10 blend from Harrell’s or Verdicon. I tend to keep them lean and mean, but we will also supplement with a foliar feeding two weeks after the granular application using the old “Bentgrass Special” blend 28-8-18 at a rate of 0.125 lb. of N. We also will alternate that blend with a micronutrient mix high in manganese, magnesium and iron between the granular applications. On our overseeded fairways we apply 11-0-5 and 29-0-0 for color and health during the busy winter golf season.”

Lammrish concluded, “To do it right, managing nutrients is a balancing act involving the needs of the plant to be healthy and look good for the customers, and using your budget resources wisely and considering the impact on the environment. I am a hunter and a fisherman. I don’t want to do anything that will harm the environment. Golf course owners of course are concerned with the bottom line and revenues. It is a business, but as landowners they are increasingly becoming aware of their environmental responsibilities as well. A lot hinges on golfer education and their awareness and acceptance of our responsible course management.”

John Lammrish, CGCS

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