Helminthosporium of the greens around August or September in the first year. By the time it was stopped, we had lost some turf, enough to warrant sodding a couple of areas. Since then we have increased the potassium level tremendously. Our goal is to maintain around a 1 to 4 ratio of nitrogen to potassium. Since incorporating this practice, our disease problems have all but disappeared.

Between the two assistants and me, one of us is on every green every day, monitoring and watching for any problem that might develop. About the only time a fungicide is applied is if we are forecast for three to five days of rainy, overcast weather.

Our mowing practices vary throughout the year from the lowest setting of .105 to about .140 being the highest setting. We typically will keep heights up a bit during the summer, usually around .125. If it looks like we’re going to have a few of those cloudy, nasty days we will bump the mowers up a little and then, as conditions improve, drop them again. It’s been our opinion that the grass seems to thrive better the lower we keep it, again depending on the weather.

With the use of Primo we have managed to keep very acceptable green speeds during the summer without having to drastically lower mowing heights. The lower heights and Primo use have enabled us to keep a very dense stand of grass. The only thin areas we typically develop are in very shady spots, and of course, algae can invade. These areas are spiked as frequently as possible and chemically treated as needed.

TifEagle is a relatively high-thatch producer. The first summer we were not as aggressive as we should have been with thatch removal. Since that first summer, much to the mechanic’s dismay, we have become very aggressive with cultural practices. We’ll try to pull cores at least four times, vertic peace lightly about once every other week and vertic peace very heavily about three times during the course of the summer.

When we do our heavy verticutting, the greens are unplayable for at least a week; fortunately we have a couple of periods during the summer that we are closed for an extended amount of time. As far as topdressing is concerned, the more sand we can keep on them the better. During this time we topdress heavily after aerifications, and lightly once a week thereafter.

Our fertility program is basic. We apply a granular product year around on a typical five- to six-week basis. This is supplemented with liquids as needed. The majority of nitrogen is in a slow-release form, and potassium is supplied strictly through quick-release forms, usually being applied once per week. We try to coordinate fertilizer applications and watering simultaneously if possible. When we water, it is typically a heavy cycle sometimes as much as 60 minutes of water. The principle, of course, is to water as infrequently and as deeply as possible.

All in all with just following the basics and paying attention to weather forecasts, we really have not had too many problems, yet.

John Curran

ROYAL POINCIANA CC
Begin in May
To Prepare for September Stress

When I started to think about this article on summer stress on ultradwarf bermudagrass, it didn’t sound quite right. It should be September stress management on ultradwarf bermudagrass.

September is the worst month of the year to grow grass in Southwest Florida. The key factors in battling stress during the summer months are high temperatures, high humidity, cloudy days, lots of rainfall, the threat of numerous tropical storms, and an occasional hurricane; the month of September has all of them. Did I mention that the northern members return from their lush, prime-conditioned home courses on the first of October?

For those and many more reasons, managing our Champion Bermudagrass greens through the month of September always seems to be a challenge. We begin our preparation for summer stress in early May by verticutting aggressively with Matasways. Some superintendents use vertical mowing machines called Gradens. I prefer the Mataway because it removes more material and causes less damage to the root system.

After using the Mataways we aerify the greens with 1/2-inch tines, leaving the holes open for 24 hours to permit gas exchange. Then we add any needed...
I firmly believe in going out in May as early as possible so the greens have time to heal before the true summer weather sets in. From past experience, I have found that verticutting after May will not allow the turf enough time to recover before the summer weather arrives.

amendments (along with an organic fertilizer) before the greens are topdressed. Typical amendments include dolomite, 0-0-30 and Pro-Mag.

Then the greens are topdressed and dragged in with the amendments. The next day we do a follow-up application of 21-0-0 at 1/2 lb N/1000 sq ft. Two days after the greens are topdressed, they are double rolled. Then on the third day they are mowed with a double wheeled roller Triplex mower usually set at .150. Rolling is a vital step in this process to avoid scalping the leaves and shoots. Remember the root system is under stress during these difficult times.

Disease management during the summer months is as critical as nitrogen management. During hot summer days, canopy temperatures can rise to well over 100 degrees, especially in areas that might already have been thinned because of other stresses. Once this happens, it seems to be a never-ending ordeal to get those thin areas back. We may hand-water these areas two or three times per day if needed to cool them down during the hottest part of the day.

One issue that we battle is not letting the greens get too much thatch on them at this height of cut or it will be tough to get them back down to our normal cutting heights of .100 to .120 in October. The amount of nitrogen applied to the greens during these months is something we monitor closely. We do not have a set schedule as to how much we will apply in one given month.

One way to monitor the growth is to watch the clipping return in the mower baskets, then fertilize with nitrogen accordingly. We continue a program of Sul-Po-Mag, White Gold and Harrell's (H)-30 to keep our potassium and calcium levels up during the summer months. Liquid fertilizer is used weekly (if needed) to spoon feed small amounts of nitrogen and other nutrients to the leaves and shoots. Remember the root system is under stress during these difficult times.

When areas become thin, switching to solid front rollers on our walk mowers keeps the whole rollers from continuing to thin the weak areas. Pitch forking is also done in these areas to help control the algae that may develop. Hand topdressing will help by giving the new runners a place to tack down to, as well as providing protection to the crowns.

During August and September, disease can be a major problem. I have tried many approaches to managing preventive fungicide programs with ultradwarfs. I honestly think that because of bermudagrass's ability to recover quickly from most disease with the exception of bermudagrass decline, most diseases can be treated curatively if caught in the early stages. From our experiences, bermudagrass decline usually stems from poor cultural practices, causing the turf to thin and become susceptible to this pathogen.

Even after managing ultradwarf bermudagrasses (mainly Champion) since 1997, I still do not have all the answers to overcoming "September Stress." One thing I am sure of, is that by starting in early spring with proper timing of cultural practices and managing the greens during the summer to avoid needless stress, I will lose less sleep during the worst month of the year.

Matt Taylor