GCSAA Environmental Award Goes to the USGA

The United States Golf Association has been selected to receive the 1996 President’s Award for Environmental Leadership from the Golf Course Superintendents Association of America.

The recipient is chosen by the GCSAA board of directors based on exceptional environmental contributions to the game of golf — contributions that further exemplify the golf course superintendent’s image as steward of the land.

“With the serious challenges facing the game today, the entire industry is indebted to the United States Golf Association for its commitment to producing hard data regarding the environmental impact of golf and golf course management practices,” said GCSAA President Gary T. Grigg, CGCS, Royal Poinciana Golf Club, Naples.

“We’re delighted the GCSAA has taken this opportunity to acknowledge the USGA’s consistent efforts to promote sound environmental stewardship,” said Thomas W. Chisholm, Chairman of the USGA Green Section Committee. “It’s always gratifying to have the respect of your peers in any industry, and golf is no exception.”

The award was presented at the Environmental General Session held at GCSAA’s 67th International Golf Course Conference and Show in Orlando.

In addition to conducting 13 national championships each year, the USGA funds turfgrass and environmental research; provides course rating and handicap systems; tests golf equipment for conformity to the Rules; preserves the game’s history; and, in cooperation with the Royal & Ancient Golf Club of St. Andrews, Scotland, writes and interprets the Rules of Golf.

Created in 1991, the President’s Award for Environmental Leadership has been presented:

- in 1991 to Cape Cod Study Participants, Bass River Country Club, Eastward Hol Country Club, Falmouth Country Club and Hyannisport Club
- in 1993 to Audubon Cooperative Sanctuary Program Partners, the Audubon Society of New York State and the United States Golf Association
- in 1995 to William Timothy Hiers, CGCS, Collier’s Reserve in Naples.

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Insect control programs are necessary so that the turf on the left doesn't get to look like the area on the right (mole cricket and armadillo damage). Photos by Joel Jackson.

Insect Control and Top Dressing Programs

The hardest winter of the 1990s is over and it's time turn our attention to growing our warm season bermudagrasses. It only took a few abnormally warm days in February to get the overwintering adult mole crickets to come to the surface and start tunneling, and the armadillos weren't far behind rooting and digging for them.

We're all familiar with the routine: Early Spring - treat for the out-of-control damaging adults; Late Spring - apply broad applications of control products to suppress new nymphs; Summer - spot treat persistent "hot spots" with baits and sprays; Fall - hope for an early cool season!

There is always a lot of variability with success at each stage based on soil temperatures and pH, rainfall and proper timing of control applications.

The development of a new product, CHIPCO CHOICE, may herald a new breakthrough in mole cricket control.

The first Federal Registration is expected during the first quarter of 1996 and will be for golf courses only. The product will be approved for "slit applications" only. Based on trial results, Rhone-Poulenc believes one treatment should provide mole cricket protection for up to six months.

Details of Rhone-Poulenc's new Insect Control System will be unveiled at that time. Meanwhile, here are a few comments from folks involved in the testing of the product:

Tom Alex, Director of Golf Course Maintenance, Grand Cypress Golf Club. "With CHIPCO CHOICE, we see a clear line of delineation between our treated and untreated plots. Our crickets in the untreated plots come right up to the edge of the treated area, and they won't go into that treated area whatsoever. They go right up to the line and absolutely stop. Anything within the treated area — 100 percent clean. With the CHIPCO CHOICE we have a 365-day window. That makes it very flexible, and we can schedule it and get it down with minimal or no disruption to our guests at all."

Pat Cobb, Extension Entomologist and Professor, Auburn University. "I've worked with CHIPCO CHOICE for about five years. Just to show you how it works, in one of our trials we had 36 inches of rain in July. That was followed by an extreme two weeks of 90-degree-plus temperatures, and by the end of October, no retreatment was necessary. "I'd say that was a pretty rigorous test of CHOICE. We do see a reduction of mole cricket damage with other products if they are well timed. The difference is, with CHOICE the window of opportunity is so much greater. In our tests, one application gave us control throughout the spring and summer — season-long control."

Leon Stacey, Golf Course Consultant and Research Entomologist. "I have looked at insecticides for mole cricket control for about 18 years, and CHIPCO CHOICE is without question the most consistently effective product I've ever seen."
"We did test plots on greens, in non-irrigated roughs, on push up tees... in just about any conditions you can imagine. What we have seen is that the product works well in a variety of different soil types and conditions."

Scott Bell, Ron Miller, Kim Shine and Mike Hamilton were among other Florida superintendents involved in the E.U.P. testing. With these ringing testimonials, we will all anxiously await the arrival of CHIPCO CHOICE to the marketplace so we can try it for ourselves.

In the meantime, here are some current insect control strategies that some of our peers are using. Matt Taylor of Collier's Reserve sent an excellent IPM-based article and seven more superintendents participated in a fact-sharing questionnaire.

The Forest Country Club uses a Vicon spreader to accomplish their top dressing program. Photo by Rick Tatum.
### Table 1 - Insect Control Programs

<table>
<thead>
<tr>
<th>Name</th>
<th>Mole Crickets</th>
<th>Worms</th>
<th>Grubs</th>
<th>Fire Ants</th>
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</thead>
<tbody>
<tr>
<td><strong>Buck Bunkner, CGCS</strong></td>
<td>Late February to early March treat all &quot;hot spots&quot; with Talstar or Dursban Bait. May 20th - Slit inject Dursban 2-Kote on back nine June 3rd - apply fertilizer with Oltanol on front nine October - apply parasitic nematodes wall to wall. Treat persistent &quot;hot spots&quot; with Molasses and Orthene or Gamma Mean.</td>
<td>Treat as needed with Orthene or Dursban 4E</td>
<td>New problem for us. Merit looks promising.</td>
<td>Apply Award Fire Ant Bait in October and March</td>
</tr>
<tr>
<td><strong>Tim Cann, CGCS</strong></td>
<td>#1 problem pest. Curative treatments during course renovation closings. Initial treatment wall to wall in May and June. Oltanol 2L @ 1 gal/Acre. Follow up till Fall for &quot;hot spots.&quot; Orthene (5lbs/Acre) plus Coax (64 oz/Acre).</td>
<td>Can be severe on steep bunker faces. Curative applications as needed. Sevin (7-10 lbs/Acre) or Orthene (3 lbs/Acre). Good results.</td>
<td>Not a bad problem</td>
<td>Severe. Mounds flagged. Golfers helped. Spot treat with Amdro Bait. Some success. Last fall blanket treatment with Award. Better control. Fewer mounds</td>
</tr>
<tr>
<td><strong>Darren Davis, CGCS</strong></td>
<td>Individual burrows injected with Triumph on greens, tees and approaches and on fairways with Dursban Pro. Preventive only. If adult activity in an area becomes excessive, a soap flush is done for nymphs. Over the top application of Dursban Pro watered in. Record these areas in IPM file.</td>
<td>Sod web worms. Spot treat. Orthene or Dursban. Preventive only.</td>
<td>None</td>
<td>Preventive only. Treat individual mounds w/Orthene or Dursban around clubhouse.</td>
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<tr>
<td><strong>Wayne Kapaua, CGCS</strong></td>
<td>Soap flush to indicate nymph activity. Early May. Wall to wall apply either Oltanol, Talstar, Poly-coated Dursban. Mid-summer. Orthene on &quot;hot spots.&quot; Late summer &amp; early fall. Apply .5% Dursban bait as needed. Late winter. Apply parasitic nematodes.</td>
<td>At first sign of infestation, greens &amp; tees spray Talstar, Orthene, Dursban 50W or Paean. Fairways and roughs are treated only if damage exceeds acceptable levels.</td>
<td>Most grubs are controlled with the mole cricket treatments</td>
<td>Award applied spring &amp; fall at 2.5 lbs/Acre.</td>
</tr>
<tr>
<td><strong>Mike Mongoven, CGCS</strong></td>
<td>I have used Oltanol sparged on fertilizer in even-numbered years. We will be applying this material in May. We have used other granular materials: Mocap, Turcam, Crusade in fairways. For hot spots we use Orthene TTO or Orthene TTO with Gamma Mean.</td>
<td>Our biggest problem is all army worms. We treat only greens and bunker faces. We use Orthene TTO, Dursban 50W and Proxol 80.</td>
<td>No success treating grubs. I hope to get some ideas from this article.</td>
<td>Our control has improved by using Award. We apply 2 lbs/Acre in April and Sept. Applied to dry grass. Irrigation limited for 2 days.</td>
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<tr>
<td><strong>Joe Ondo, CGCS</strong></td>
<td>Early spring - spot treat adult activity with Orthene or Talstar. Aerify greens, tees, fairways and roughs before full moon in June. Then apply fertilizer with Oltanol to greens. Alternate Orthene and bait during summer and fall on &quot;hot spots.&quot; Spot treat Mocap on new hatches where needed.</td>
<td>The Oltanol treatment controls the worms till the rainy season. Then greens and tees are treated as needed with Orthene, Dursban, or Scott's Turplex. A preventive application may be applied before a tournament during peak insect activity. We have also applied Turcam for worm control</td>
<td>Oltanol controls most of them. Last year some fairways and slopes aerified &amp; granular Sevin applied. We have used Turcam if going after a wide variety of insects in an area.</td>
<td>Not a big problem for us. Landscape person spot treats with Orthene at label rate as he goes around during the day.</td>
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<tr>
<td><strong>Mark Richard, CGCS</strong></td>
<td>1995 was quite severe. Usually treat curative. The mainstay of treatment has been Orthene at rate with .5 lb of Sevin per 200 gal. tank. Results good. Only 2-3 weeks. Triumph has worked well on greens at label rates. Turcam &amp; Talstar granular was used on fairways at label rates. Control far to poor. Mocap is used on small hot spots. Good results.</td>
<td>Not much of a problem recently. Curative treatments Orthene or Proxol as needed. So much effort goes into mole crickets that worms didn't seem to be a problem anymore.</td>
<td>Have never treated for grubs</td>
<td>Moderate infestation. Treat with Dricone insecticide as needed. Results positive.</td>
</tr>
<tr>
<td>Name</td>
<td>Planning</td>
<td>Top Dressing Material</td>
<td>Frequency and Rate</td>
<td>Equipment</td>
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<tr>
<td>Buck Buckner, CGCS</td>
<td>A tentative schedule is made up a year in advance. Updates mostly via meetings with Head Pro. Golfers informed through newsletter and postings in Pro Shop or on Carts.</td>
<td>Florida Potting Soil Mix No. 4</td>
<td>Warm season: every 3 weeks if possible. If we verticat at the same time, we will use a moderate amount of sand. If not, then a light amount. Following aerification, a heavy amount of sand to be sure the holes are filled. Drag with Steel mat. Cool season: once the overseed is established every 3-4 weeks. This year we only top dressed once in January. If it's too cold, the sand just seems to sit there and aggravates everyone.</td>
<td>Toro - used for medium to heavy topdressings. Vicon for very light topdressings. Steel drag mat: 3.5x6.5 feet. Brushes - usually used for light topdressings but really isn't any better than the steel mat.</td>
</tr>
<tr>
<td>Tim Cane, CGCS</td>
<td>Pro, Manager and Green Chairman are all involved. Always searching for a better method (time). Pro Shop is responsible for communication of the project.</td>
<td>Straight sand - PA200</td>
<td>Every 2 weeks on Thursdays between 1:30 and 3 p.m. The Pro Shop provides a 1-hour gap from 1:30 to 2:30. We follow the 1:30 foursome the entire round until complete.</td>
<td>Vicon - light 7 times per year. MeterMatic: heavy 2-3 times per year. Drag brush. Push brooms. Leveler drag mat in summer.</td>
</tr>
<tr>
<td>Wayne Kappauw, CGCS</td>
<td>We try to stay on a schedule and inform Pro Shop a week in advance. We adjust for key tournaments. We also warn our mechanics so they can adjust their backfilling schedules.</td>
<td>GASH/85 with Canadian Peat. Charcoal sand 3 times in winter.</td>
<td>Nine times per year. 1/8 setting. Done in the afternoon</td>
<td>Vicon - light 7 times per year. MeterMatic - heavy 2 times per year. Drag brush. Push brooms. Leveler drag mat in summer.</td>
</tr>
<tr>
<td>Mike Mongoven, CGCS</td>
<td>We advise the golf pros at each course when we plan to topdress. We vary the day of the week so we won't upset golfers that only play certain days.</td>
<td>Straight sand FM 200. In winter we add 4 pounds of charcoal to the FM 200</td>
<td>Biweekly starting at 5:30 a.m. behind the mowers. This allows us to finish ahead of the golfers. We share equipment between the courses.</td>
<td>Vicon - light 7 times per year. MeterMatic - heavy 2 times per year. Drag brush. Push brooms. Leveler drag mat in summer.</td>
</tr>
<tr>
<td>Mark Richard, CGCS</td>
<td>Aerification topdressing is scheduled in the fall for the following year and is communicated to the Men's and Ladies' associations and posted for the public 7-10 days in advance.</td>
<td>USGA Spec sand</td>
<td>3 times per year after aerification to fill holes. Every 2 weeks in the growing season to reduce thatch and smooth the greens. Heavy rates = approx 1 cu yd per 1000 sq ft. Light dusting every 2 weeks.</td>
<td>Turfco MeterMatic III for all applications. Sand is brushed with Standard's drag brush and watered in.</td>
</tr>
<tr>
<td>Rick Tatum, CGCS</td>
<td>Summer topdressing on closed Mondays. Winter more difficult. Block tee times 1 hour starting around noon. Topdress &amp; Brush. No interruptions. Also apply amendments or fertilizers at this time. Never had a complaint from players playing behind our topdressing program.</td>
<td>I-220 sand</td>
<td>Frequent light applications. Alternate between the Bear &amp; Bobcat courses every week. This program is followed year round except after aeration.</td>
<td>John Deere 955 tractor Speed 1.5 mph. Vicon set wide open. Brush one time over entire green. 10 minute syringe. Support - Ford tractor and Ray Doe trailer to haul sand. Club Car with J&amp;J Drag Brush</td>
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ICP equals IPM

BY MATT TAYLOR
Assistant Golf Course Manager
Collier’s Reserve Country Club

The foundation of our Insect Control Program at Collier’s Reserve is an aggressive Integrated Plant Management (IPM) Program. By maintaining a strong, healthy, dense turf, you can more easily overcome minor insect, disease and weed pressures.

Our cultural practices for promoting a healthy turf include verticutting, aerifying, topdressing and mowing with sharp, well-adjusted reels, as well as utilizing a computerized irrigation system that delivers proper amounts of water based on evapotranspiration rates.

However, even doing all the right things to keep a healthy turf does not guarantee that you will not have some turf areas susceptible to insects.

Mole Cricket Control Program

In our area, mole cricket control must begin in February and March before overwintering adults begin to mate. We apply beneficial nematodes on problem areas to knock down the mole cricket population.

The nematodes are applied at dusk or during the dark to pre-watered turf (pre-watering cools the turf) with a flood jet nozzle at 50 gallons of water per acre. After the nematodes are applied we water again to ensure they get into the soil.

The application of beneficial nematodes has worked well but does not guarantee 100 percent control of the mole cricket. In May we begin soap flushes, which allows us to monitor the nymph hatch.

With evidence of the nymph hatch, we begin applying conventional insecticides at the lightest rate indicated for mole crickets.

In 1995 we tried Merit on 4 acres of turf at the very onset of the nymph hatch. Our results were excellent, and we will be using it again this year. Also, we will continue to treat for adult mole crickets that were missed as nymphs throughout the summer using a variety of products.

In the past, we have used Crusade 5 G, Talstar Flowable and Orthene with good results on the nymphs and smaller crickets. We also apply mole cricket bait to the turf during the late summer and early fall to actively feeding crickets. Applications are made late in the day or on nights with a full moon and no irrigation scheduled.

Another program we have for mole crickets is to treat individual mounds with a one-gallon B&G sprayer fitted with a 12-inch brass tube which allows us to inject Lemon Joy and water directly into the mole cricket tunnel.

White Grub Control Program

We have been fortunate that white grubs have not been a severe problem here. Problem areas are treated as needed. Those turf areas that resemble grub damage are checked by removing a piece of sod with a flat shovel and visually inspecting the root zone for grubs. In May and June, areas with evidence of grub activity have been treated with Turcam 2.5 G at the labeled rate and then watered in.

Fire Ant Control Program

Fire ants are one of our most serious insect pest problems. Not only do they inflict painful stings to golfers and the maintenance crew, but they are extremely damaging to turf as they build their mounds. In out-of-play areas their mounds cause damage to plant material as they build around the stems.

We treat wall-to-wall with Award once in the spring and again 4-6 months later if needed. Using a Hurd spreader mounted on a Cushman Truckster, we apply at 1 pound of material per acre. Application is done late in the afternoon when the ant population is more active,

However, even doing all the right things to keep a healthy turf does not guarantee that you will not have some turf areas susceptible to insects.
and when no rain is forecast. The irrigation will be turned off that night. Water tends to reduce Award’s efficacy.

In addition to the broadcast method of Award, the course setup person, the IPM Specialist and myself will treat specific areas that are likely to cause problems for golfers and crew (i.e., green slopes, tees, etc.) with Orthene or Award. Also, out-of-play mounds that need specific attention are treated with Award sprinkled around the mound.

**Worm Control Program**

Sodweb worms, army and cutworms are treated preventively and curatively as needed. Areas such as trap faces and shadow boxes on fairways that have higher cuts of grass make it easier for larvae to go undetected until after damage has occurred.

For this reason, during the summer months we will treat with Vector TL as a preventive control. When conditions are right for worm activity on greens and tees (i.e., cloudy days with rainfall) we will apply preventive treatments of M.V.P., which is a microencapsulated form of *Bacillus thuringiensis*.

This product has given us a 4-7 day control for sodweb worms as opposed to regular Dipel, which is 1-2 days at best. Greens are closely monitored during spring, summer and fall months. If treatment is needed, it is usually Dipel and a light rate of Orthene or Astro. Astro, a pyrethroid, has provided us excellent quick knockdown of worms.

**Summary**

A good IPM program, as the foundation to the insect control program, will ensure than you will remain in control of your turf insect problems and also control disease and weeds.

Nothing will substitute for developing and maintaining good cultural practices, keeping in mind that sound cultural practices and a good insect control program can mean dollar savings to you in the overall maintenance of your golf course for both time and material.
Okay, so Washington is looking over the General Duty Clause (section 5A.1 of the OSHA Act) and Republicans in the House of representatives are looking at curbing excessive regulation on businesses.

You, the golf course superintendent or golf course owner can breathe a sigh of relief, right?

Well, folks, the General Duty Clause yielded over $3.5 million for the federal coffers as of September 1994 alone. During the same period of time for programs as simple as Lockout/Tagout-Training and Communication, OSHA levied almost $8.8 million in fines. Hazard Communication Program violations gathered in another $8.4 million and continues to be one of the standards most frequently cited as being violated.

Do you really think OSHA is going to back off of these cash cow areas without a fight? I don’t, and if history is any teacher, you shouldn’t either.

So what kind of program do you really need in order to have some hope of convincing these folks that you are trying to do your best? Generally, the best approach has been found to be a combination of systems which rely on training, auditing, communication, and investigation of and reporting actions within established programs. Let’s look at a few examples of how this could work.

**Program Audits**

The first thing to do is determine what programs you already have in place. A Program Audit (PA) takes a look at your existing operations and determines to what degree they follow established and applicable regulatory areas. Certainly the PA would look at your OSHA record keeping, accident reports, medical records and the like.

The PA would also review past audits, if any exist, and previous inspections and/or enforcement actions to decide if issues identified in the past have been addressed. Next, a comprehensive review of any training and communication programs would be done. Specifically, we would be looking for the following written programs:

1. a respiratory program,
2. a HAZCOM (hazards communication) program,
3. an emergency action plan (contingency for dealing with CERCLA and/or RCRA issues),
4. an emergency response plan,
5. a pesticide storage/handling/inventory program,
6. an above/below ground storage tanks inspection/reconciliation program,
7. a SARA Title III reporting program,
8. a hearing conservation program,
9. a MSDS collection and employee information distribution program, and
10. a verified waste-management program (with recycling being a key element).

Other programs to consider for this action step would include your fire safety program, an equipment inspection program for cranes, lifts, hoists, and even what emergency equipment is available and how/where it is stored.

But lastly, and probably the only protection you have during an inspection, is a review of your documentation. You need to document your training, your programs, your inspections, your pesticide inventory, and practically everything else. And the impacts of regulation go far beyond just complying to OSHA regulations. Just look at today’s tanks program.

Above/below ground tanks have become a favorite target for regulators recently as more of the inspection responsibilities for the program are passed from state (in our case, the Florida Department of Environmental Protection) down to the counties or local municipalities.

Key areas being hit? Documentation is the big one. They want to see documentation of the visual inspections prov
The agencies want to see that you are reconciling the tank volume every day product is added or removed and that things balance out from week to week.

Which area? Certainly monitor wells, bailers and pumps visual inspections for underground storage tanks are important. Secondary containment and fire suppression inspections for aboveground storage tanks are the others.

The other important paper trail under the tanks program is the documentation for product reconciliation. The agencies want to see that you are reconciling the tank volume every day product is added or removed and that things balance out from week to week.

This information needs to held for three years for each tank before it can be discarded. We have used computer programs to simplify this process, collecting only a meter and stick reading in the morning of day one and using the opening meter reading from day two as the closing meter reading for day one. The computer calculates everything else.

There are also areas in the program to include deliveries of product, listings of carriers, warning of overage or shortages, and sign off areas from visual inspections.

As a side note, not everyone recognizes that the tanks program includes pesticides, ammonia, and blends, mixtures or byproducts of oil or gas (like used oil tanks) for this program.

This usually does not include fertigation tanks depending upon what is in them. We have had the agencies try to impose regulation of aboveground fertigation tanks which only contained trace minor nutrients under this program. The Tallahassee office of the FDEP later, thankfully, confirmed this was not the intent of the tanks program. Look things over and, if you're not sure, ask for some advice.

It is paramount to understand that a program like Lockout/Tagout and HAZCOM have documentation requirements as well. A written program, and documentation as to how that program is run, is the type of verification agencies are looking for when deciding compliance. Without documentation, you too can join the few and the proud who have been levied with fines for noncompliance.
Facility Audits
At the same time the Program Audit is under way, it is time to update, or at least start, a Facility Audit (FA).
A FA starts with a good map showing the layout of the facility, location of any aboveground or belowground storage tanks, pesticide storage areas, electrical outlets, fire safety stations, eye wash stations, load/mix areas, ventilators, waste storage areas and equipment storage areas.
We believe it is a good idea to identify any land forms of significance as well, including ditches, stormwater ponds, wetlands or critical wildlife habitat areas. It includes walk arounds and inspection of personal protective equipment (PPE), a review for unsafe conditions, looking especially for anything that could cause accidents.
We have found that employee participation in this part of the program is good for the employee and the employer. It never hurts to have a fresh set of eyes looking from a different perspective, and it becomes another means of training the employee in the program. Rotate the employee from inspection to inspection and document your review. Both the golf course superintendent and employee should sign the inspection report and file the inspection right away for future availability.

Unsafe Activities Reports
An often overlooked area in the documentation chain is a review of unsafe activities by employees. Problems with an employee not wearing PPE or failing to follow the Lockout/Tag should first be corrected, then noted in the employee's file.
Other items for consideration would include using the wrong tool for the job, driving around the course at unsafe speeds, failing to secure equipment, removal of protective guards, using unsafe job procedures, or generally trying to bypass the safety program.
We know it seems like tattling, distrust or overkill, but a lack of documentation of these events leaves the employer open when the inevitable lawsuit happens where, through the employee's own bad habits, he or she is injured on the job.
On the other hand, a trail of documented problems with a particular employee, signed by the employee, can show a clear pattern of disregard for the safety program. This could possibly limit some liability to the owner or superintendent during the worker's compensation claim or other suit.
Further, documentation of these activities, plus discussion with the employee after each occurrence, establishes a clear pattern of action taken by the employer. When brought into court. This clearly shows an effective and active safety program which has been working to try and correct the individual's poor work habits and keep the workplace safe for the employee.

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Golf Agronomics donates a % of every ton of top dressing sold to the FGCSA. Since its opening, Golf Agronomics has donated in excess of $17,000. Our sincere thanks to all of our customers.