HOT PRODUCTS

Aquatrols .............................................. 104
Aqua-T Pond Products ...................... 105
Arysta LifeScience ................................. 106
BASF Professional Turf & Ornamental .... 107
Bayco ................................................. 108
Bayer Environmental Science ............... 109
Bernhard & Co. ....................................... 110
Champion Turf Farms ......................... 111
Chemtura Corporation ......................... 112
Exaktime ............................................... 113
Excell Minerals ..................................... 114
Floratine ............................................. 115
Jacobsen ................................................ 116
John Deere Golf & Turf One Source ....... 117
Lesco .................................................. 118
Links Seed LLC .................................... 119
Milliken Turf Products ......................... 120
Milorganite ........................................... 121
Oxford Garden ....................................... 122
PBI/Gordon ........................................... 123
Par Aide Products ................................. 124
Parkway Research ................................. 125
Pursell Technologies ............................... 126
Rain Bird ......................................... 127
SISIS .................................................. 128
Standard Golf Company ....................... 129
Syngenta Professional Products ............. 130
Target Specialty Products ..................... 131
Tee 2 Green ......................................... 132
TTG Custom Signage ............................... 133
Toro .................................................. 134
TrapMaster ......................................... 135
Turfco Manufacturing ............................ 136
Varicore Technologies ............................ 137
White Metal Golf Company ................... 138

Golfdom SPECIAL ADVERTISING SECTION
Since 1954, Aquatrols has led the industry in developing innovative products for effective resource management. Aquatrols effectively combines state-of-the-art research and development techniques, a technically knowledgeable sales force, and a long history of industry expertise to meet the changing needs of the professional turf industry.

The Aquatrols product portfolio includes an array of surfactants and other specialty chemicals tailored to meet the growing challenges of the industry, and all products undergo stringent quality control and assurance testing before they are shipped to assure your satisfaction and your turf’s protection.

Revolution™

The amount of stress placed on today’s greens is greater than ever. Increased traffic and the demand for faster greens speeds, coupled with heat and water stress, push turf beyond its physiological limitations. As a turf professional, maintaining quality turf under a variety of stresses is your greatest challenge, and establishing control over the growing environment is key to your success. Revolution™ lets you gain control of rootzone conditions so that your turf can perform to its greatest potential. It will withstand daily abuse better, use water more efficiently, and look spectacular even at the height of summer.

Why is it so important to manage your rootzone more effectively? Because it can greatly affect the quality of turf you grow out of it. Revolution™ takes the guesswork out of growing great turf from the bottom up. It works in the soil to stabilize moisture levels, balance air-to-water ratios and provide better access to nutrients in the rootzone.

Revolution lets the plant function at its greatest genetic potential. The result? Stronger turf throughout the season that will perform in all conditions.

This new class of block copolymer chemistry has been carefully engineered to provide a solid foundation for successful turf management, and is an essential tool for protecting turf against damage caused by environmental and cultural stresses. Revolution is a safe, reliable way to comprehensively maintain quality turf conditions throughout the season. And Revolution can be tank-mixed with a broad spectrum of commonly applied chemicals for even greater convenience.

Revolution ensures that the soil works harder for your turf, so your turf can work harder for you.

Try Revolution to experience what high-performance soil can do for your turf:
- Increases turf resilience and stress tolerance
- Extends natural antioxidant activity
- Stabilizes proline production for better playability
- Increases chlorophyll production for consistent color
- Increases photochemical efficiency
- Increases production of non-structural carbohydrates
- Increases evapotranspiration for cooler canopy
- Increases overall plant health for better disease resistance

Join the Revolution™
It will all become so CLEAR when you let Aqua-T formula loose in your pond. New Aqua-T 2.0 contains a mega-dose (1.4 trillion per pound) of revolutionary X-Cultures, whose job it is to reduce sludge, control odors, and digest excess nutrients in the water column that cause problematic algae growth. The X-Cultures are 100 percent environmentally friendly and will work 24 hours a day, 7 days a week to restore your pond's ecosystem to optimal health. Above all, the X-Cultures are as much at home on your lawns, greens, fairways and ornamentals as they are in your pond. Aqua-T's cultures help bolster beneficial soil bacterial populations, reducing the threat of harmful pathogens.

Aqua-T also reduces the level of turf-harming contaminants such as ammonia, carbon dioxide, hydrogen sulfites, and methane in your water. The half-pound water-soluble bags make treatment a snap. The X-Cultures give Aqua-T a whole new attitude and have the potential to turn your pond into a thriving aquaculture with crystal clear water free from odors and sludge.

Eliminates Pond Scum
The bacteria in Aqua-T digest algae's primary food sources (Nitrogen, Phosphorus, & Carbon) making them unavailable for algae and aquatic weeds. Aqua-T effectively digests the suspended organics in the water column, improving water quality. Aqua-T also improves water quality by degrading ammonia, hydrogen sulfide, and other contaminants that are harmful to the environment, fish, and your turf.

Reduces Organic Sediment
Aqua-T populates the water column with bacteria, which helps to reduce the organic sludge layer, including goose manure and leaves. Additionally, the bacteria will accelerate the degradation of the dead organic matter on your pond bottom.

Eliminates Odors
Aqua-T is composed of specific strains of bacteria and bacterial enzymes that effectively breakdown the organic sludge where foul odors are created and released. It also has the necessary bacteria to remove hydrogen sulfide and ammonia before they become problematic.

No Permits or licenses Required
Aqua-T does not work like an algaecide or pesticide; therefore, it does not require a permit or license to apply.

Environmentally Friendly
The bacteria, bacterial enzymes, and synergists in Aqua-T are derived and isolated from natural soil and water cultures and are not harmful to humans, plants, fish, animals, birds, or the environment.

BioPro fertilizers
Spindler Enterprises also offers BioPro fertilizers designed for golf courses, sports fields and other turf areas. The BioPro fertilizer line is a complete line of liquid fertilizers, liquid micronutrients, liquid biostimulants, and liquid soil corrective products. Most BioPro products contain a natural organic component. BioPro also offers fertigation products for optimal turfgrass management through an irrigation system.
ARENA™ Insecticide is a powerful new generation chemistry that provides control of white grubs, chinch bugs, sod webworms and other pests all season long. It works in two ways to protect turf. When applied before or during the egg-laying activity of target pests, its active ingredient (clothianidin) immediately impacts the insect, and then keeps working systemically to provide long-lasting residual control. ARENA™ has an excellent safety profile and comes in both .5 granular and 50 WDG formulations.

About Arysta LifeScience
Headquartered in San Francisco, Arysta LifeScience North America is an emerging provider of innovative turf and ornamental plant protection solutions. Committed to sustainable growth and high-quality products and services, the company is strongly committed to product stewardship, environmental responsibility and human safety.

With global headquarters in Tokyo and Japan, Arysta LifeScience is the world’s largest privately-held plant protection and life science company with 2004 revenues of US $1 billion, ranking it in the Top 10 worldwide in agrochemical sales.

An entrepreneurial provider of plant protection and life science products in more than 100 countries worldwide, Arysta LifeScience specializes in the marketing and distribution of respected plant protection brands and life science products in harmony with the needs of global producers.

The Arysta LifeScience Turf and Ornamental product portfolio currently includes ARENA™ Insecticide for broad-spectrum insect control in turfgrass. Arysta LifeScience is also developing a strobilurin fungicide compound, fluoxastrobin, for use alone and in combination for disease control in turfgrass.

Insignia®

There’s a reason superintendents who’ve tried Insignia® fungicide from BASF are calling it “The Outperformer.” It’s because Insignia exceeds even their highest expectations for a strobilurin-based fungicide. Because Insignia controls such a broad spectrum of diseases for such an extended period, it’s the perfect foundation product for your fungicide program for reliable disease control, offering:

- Reliable control of an exceptionally broad spectrum of turf diseases
- Long-lasting control — up to 28 days with a single application
- Dollar spot suppression

Dozens of field trials conducted at leading universities throughout the United States confirm that Insignia provides outstanding control of brown patch, pythium blight, anthracnose, gray leaf spot and snow molds.

Emerald®

Every once in a while something comes along that drives control to the next level. In the case of dollar spot, that something is Emerald® fungicide. Emerald provides:

- Unprecedented dollar spot control in virtually every major turf species, and in every region of the United States
- Excellent in a resistance management program for difficult to control dollar spot when used either in a rotation or tank mix

It’s time to make room in your fungicide rotation for the next generation of dollar spot control — Emerald. Dollar spot has never seen anything like it.

Curalan® EG

Curalan® EG fungicide offers economical, effective dollar spot control in cool- and warm-season turfgrasses. Curalan also controls eight other diseases including brown patch, leaf spot, red thread and melting out. Curalan provides strong, preventive protection with a long residual that results in significant cost savings when compared with many other fungicides.

Iprodione Pro 2SE

Iprodione Pro 2SE fungicide prevents and cures key turfgrass diseases, including brown patch and dollar spot, in cool- and warm-season grasses. Iprodione Pro also controls large patch, fusarium blight, leaf spots and several other diseases. Its long residual adds even greater value to the already cost-effective disease control offered by Iprodione Pro 2SE.

Propiconazole Pro

Propiconazole Pro fungicide controls nearly 20 key diseases in turfgrass, including dollar spot, brown patch, anthracnose, take-all patch, leaf spot, and pink and gray snow molds. Propiconazole Pro also controls numerous diseases on ornamentals, landscape and nursery plantings, including powdery mildews, rusts, leaf spots, scabs and blights.

Drive® 75 DF

Drive® 75 DF herbicide effectively raises the bar for postemergent weed control. A single, convenient application of Drive quickly clears your course of a broad spectrum of both broadleaf and grassy weeds — from crabgrass and foxtail to clover and dandelion — in a wide variety of turf species. Then Drive keeps weeds under control and fairways clean for 30 to 45 days — in some cases for more than 3 months. Drive also offers exceptional seeding and overseeding flexibility — allowing you to seed many varieties of turf immediately before or after application.

Drive® 75 DF is the only herbicide to give you dependable postemergent control of both broadleaf and grassy weeds. Drive offers superintendents a wide spectrum of control, eliminating or suppressing such hard-to-control weeds as: crabgrass, speedwell, kikuyugrass, bindweed, dandelion, dollarweed, foxtail, signalgrass, clover, torpedograss.
Established in 1986, the Bayco Golf line is recognized as a world leader in the golf course industry. Bayco Golf offers a wide range of top quality course accessories with reliable availability. Our products are found on the most prestigious golf courses in the world. We have over a decade of service in the international golf market, our knowledgeable staff prides themselves on excellent customer service, and our name is synonymous with quality.

Our product line includes everything from tee consoles to flag poles to custom bronze plaques. Most products are available in a wide range of colors with additional colors available upon request. Based on our experience serving golf courses worldwide, we are in a unique position to offer professional and personalized service.

**Bayco golf ball washers**
Bayco golf ball washers and base are cast in permanent mold aluminum alloy. Inner parts are stainless steel and high strength polymer. Smooth spiral action ensures complete ball cleaning. Bayco products provide years of trouble-free service.
- Easy grip agitator knob is replaceable if damaged.
- Flanged cover fastened to the body with large stainless steel countersunk head screws; never seize – easy to remove.
- Brush assembly rigidly fastened to underside of cover with stainless cap screws.
- Powder-coated color finish (Glass Hard) ensures durable and beautiful color for years.
- All models mount to a 2" pipe (actual dimensions 2-3/8" X 2-1/8" ID).

**Sand trap rakes**
- Black head made of high-density polyethylene with U.V. stabilizer for long life.
- Fiberglass handle comes in yellow or green with black end caps, veiled surface and U.V. stabilizer.
- Diamond-shaped teeth for easy raking action on both forward and backward stokes. Reverse can be used for smoothing if desired.

**Designer Ball Washer with double litter basket and attachment kit.**

**Hollow Head Octagon Design Sand Trap Rake**
When your job depends on green, healthy turf, you need quality products that deliver consistent, reliable results. Bayer Environmental Science offers a complete line of turf-care products that guarantee you cutting-edge technology and the highest performance standards, season after season.

Bayer sets the industry’s standard for disease, insect and weed control. Whether you’re fighting unsightly weeds, destructive insects or tough diseases, you can count on Bayer products to protect your turf.

Backed by Bayer means we’re building on an already solid foundation of proven products to help you succeed. But you purchase more than products when you do business with Bayer Environmental Science. What you’re buying is an added measure of confidence. It’s the assurance that comes from value-added programs, services and an ongoing commitment to the industry.

**MERIT**

Merit revolutionized grub control with outstanding preventive and curative pre-damage control from egg-lay through second instar. Merit also provides control of mole crickets and a variety of other pests at use rates lower than most currently registered turf soil insecticides. Its unique mode of action allows Merit to provide strong residual activity and superior biological performance.

**RONSTAR**

Ronstar offers season-long control of 25 broadleaf and grassy weeds, including goosegrass, crabgrass and Poa annua, with just one pre-emergent application. Ronstar provides effective weed control without inhibiting turf root growth or turf damage recovery. Ronstar may be applied weeks before weed seed germination, giving you unmatched application flexibility.

**COMPASS**

Compass is a cornerstone product for disease management on fairways and greens. This broad-spectrum strobilurin fungicide controls a variety of diseases, including brown patch, anthracnose, rapid blight and leaf spot, while suppressing dollar spot. Compass provides longer residual protection than contact products and cost-effectively improves turf quality.

**REVOLVER**

Revolver provides post-emergent control of a variety of unsightly grasses, including Poa annua, goosegrass and others, in bermudagrass and zoysiagrass. Revolver also smoothes transition by controlling clumpy ryegrass and Poa trivialis. Based on flumetsulfuron, Revolver’s unique mode of action helps manage resistance.

**Signature**

Signature is the foundation of summer and winter decline programs. With multiple applications before turf stress hits, Signature activates turf plants' natural immune systems to ward off diseases in cool- and warm-season turf, improving turf quality. Signature makes an excellent tank mix with other fungicides for season-long healthy turf.

**Allectus**

A dual-action insecticide, Allectus provides broad-spectrum insect control both above and below the soil surface. The product controls white grubs as well as mole crickets, armyworms, cutworms, billbugs and many more turf pests. Available in a variety of convenient formulations, Allectus provides broad-spectrum insect control with minimal environmental impact.
Greener grass? Look no further.

Express Dual and Anglemaster — the world’s fastest grinders make for better running mowers and greener grass!

Sharpening with Express Dual and Anglemaster is faster than backlapping, with no messy cleanup. Fifteen minutes floor-to-floor for a reel grind makes lapping a thing of the past. And everyone knows a newly sharpened mower delivers cleaner cut grass than lapped mowers. Instead of grass blades that are torn, you get a smooth, surgical cut resulting in greener, healthier turf.

Express Dual/ Anglemaster — Surgical cut produces healthier grass that retains color and speed.

Other Systems — Extensive tissue damage from lapped reels, uneven surface and stressed turf.

Automatic Spin Grinders

Express Dual spin grinders are renowned for lightning speed with simplicity, ease of use, exceptional accuracy and reliability.

- World’s fastest grinders, 15 minutes floor-to-floor
- Simple to set up and use
- No need to remove bedknives
- Health and safety compliant

Express Dual 5000

- The ultimate user-friendly spin grinding system
- User configurable grind cycles set up with remote handset
- Fast turnaround — unattended grind cycle completion
- Fully enclosed grinding cabinet — sound and dust suppression
- Comes with auto program routine, lift table, storage and vacuum system

Express Dual 3000

- Simple feed system with digital display electronic auto-cue control for parallel grinding
- Open and easy access to the whole worktable
- Variable reel speed for controlled consistent results
- Auto traverse, dust collection and storage space
- Options: lift table, vacuum system and safety guard

Precision Bedknife Grinders

The Anglemaster, developed to satisfy the most demanding users, works to fine tolerances and can produce any desired angle, ensuring the reel and bedknife work in perfect harmony. Unlike other systems, Anglemaster reflects the reducing reel size and resulting changes in relative bedknife angles.

- Simple to set up and use
- Accurate grind to one-thousandth of an inch
- Unique bedknife angle indicator positions bedknives of any size to any desired angle
- Heavy, robust construction prevents flexing
- Health and safety compliant

Anglemaster 3000

- Central grind geometry to minimize error
- Independent end alignment adjustment and single point feed advance
- Magnetic load assistant for stress-free grind
- Coolant dispersal and debris separation

Rapid Facer

A significant component in a non-lapping program. Fast and easy bedknife maintenance.

- Mounted on unique magnetic guide rail for perfect alignment
- 90-second cycle time
- Prolongs bedknife life
- Unmatched accuracy

Rapid Relief 1000

If you don’t have an Express Dual, then this is the tool you need.

- Restores relief quickly and easily before it’s lost
- Easy set up, no bedknife removal
- Reduces drag on hydraulics

Test Drive a Dual – Call 1-888-GRIND IT
Champion No-Till Greens Renovation™

An exclusive process developed by Champion Turf Farms for planting Champion Dwarf Bermudagrass on existing putting greens without reconstruction. The Champion No-Till Greens Renovation process contains trade-secret procedures exclusive to Champion Turf Farms. The process relies on the growth habit and agronomic characteristics of the Champion, a patented bermudagrass cultivar (PP#9888). Morris Brown selected this cultivar in the 1980s for its growth habit in order to make the No-Till process possible. Champion was the first ultradwarf cultivar and has now been planted on over 300 courses in 16 states.

Greens Renovation Any Course Can Afford

Many courses have spent $300,000-$500,000 rebuilding their greens using another ultradwarf bermudagrass and yet still do not have a better result than courses converted to Champion using the No-Till process, for 10 percent of the cost.

Minimal Closure

The real cost of renovation is not the cost of the work, but the cost of being closed. Courses converting using the Champion No-Till Renovation are typically reopened for play in eight weeks or less.

Agronomically Sound

Because Champion Turf Farms has spent nearly 20 years working with this grass and even longer developing this process, they know the agronomy behind it. When properly executed, this combination of exclusive technology and exclusive grass cultivar results in greens that are actually easier for the superintendent to manage, yet have the same fantastic putting surface.

Withstanding the Test of Time

Champion Turf Farms has been converting courses using Champion No-Till Greens Renovation for nearly 10 years. It has converted 161 courses in 13 states with this procedure. Greens that they converted nearly 10 years ago are still consistently performing well and should continue to do so indefinitely.

The Putting Surface

For nearly 10 years, the literature in our industry has been filled with publications of evaluation trials, studies of management practices, anecdotal stories of successes and failures, all in an attempt to divine which is the "best" grass. Yet the most obvious question rarely gets asked. What about the putting surface? Why convert your greens in the first place? Champion is the ultimate bermudagrass putting surface™. No other bermudagrass cultivar can create a better surface than Champion. Most courses that convert their greens to Champion dramatically increase their rounds played because of the improved putting surfaces.

Guaranteed Results

Champion Turf Farms can do it. Nobody else can. Why?

- Because they understand the agronomy behind the process
- Because they have spent decades developing and refining this process and employ a number of trade-secret techniques and processes that are exclusive to Champion Turf Farms
- Because they know the characteristics of Champion Dwarf Bermudagrass and they know how it should be managed
- Because they are responsible for every aspect of the process from evaluating your existing greens beforehand to maintaining, harvesting, transporting and installing the new turf, to follow-up consultation during the grow-in and beyond
- Because the process depends on the growth habit of Champion. Champion was selected almost 20 years ago for these characteristics. Other ultradwarf bermudagrasses lack the genetic vigor necessary to make the process work
Announcing Chemtura Corporation

Now, some of the best names on the course are brought to you by the newest name in the industry. Following an all-stock merger on July 1, 2005, Crompton Crop Protection and Great Lakes Chemical Corporation are now part of Chemtura Corporation.

"We already offer some of the best products in the turf and ornamental field in our combined product portfolio," said Cesar Lamonega, North American business director, Chemtura Crop Protection. "Now, these products will come from Chemtura, the newest name in the industry with an expanded product portfolio to help our customers produce high value turf and landscape products."

Chemtura Corporation, with pro forma 2004 sales of $3.7 billion, is a global manufacturer and marketer of specialty chemicals, crop protection and pool, spa and home care products. Headquartered in Middlebury, CT, the company has approximately 7,300 employees around the world.

Terrazole® 35 WP fungicide

Terrazole® 35 WP fungicide works as both a preventive and curative for control of Pythium diseases. Pythium blight, grease spot, spot blight, root rot, cottony blight and seedling damping-off are common names of diseases caused by Pythium sp. One of the most destructive turf diseases known, a severe outbreak can be devastating within days.

A wettable powder, Terrazole 35WP mixes easily with water and can be applied with standard spray equipment at any time, even on bright, sunny days. And, even after years of on-course experience, no resistance has ever been reported with Terrazole.

Turfcide fungicide

Turfcide® fungicide is the industry standard for control of snow molds. Snow molds occur from late fall to early spring during cold, wet periods. Infections are most severe when snow covers the turf for long periods of time.

Turfcide controls both Pink Snow Mold, also called Fusarium Patch, caused by Microdochium nivale, and Gray Snow Mold, also called Typhula Blight, caused by Typhula spp.

Available as a 4 lb/gal. flowable or a 10 percent granular formulation, Turfcide is the right solution for that one, all-important application just before the snow flies.

Always read and follow label directions. Terrazole and Turfcide are registered trademarks of a subsidiary of Chemtura Corporation.
If you're like most superintendents, one of your costliest problems is accurately tracking and monitoring the time spent by your workers at your golf course.

According to the American Payroll Association, companies immediately save an average of 9% of their payroll costs by switching from handwritten timecards to automated timekeeping. Research shows that 43 minutes of time loss per worker occurs every day — from time rounding, math errors and memory lapses. In fact, the golfing industry is one of the largest in which labor is recorded using handwritten timecards.

Enter The Jobclock System.
The Jobclock System is the only solution for accurate timekeeping for superintendents.

Jobclocks are battery-powered and can be secured anywhere. Workers use a pair of green and red "Keytabs" to clock in and out for the workday and lunch.

Before payroll, the time records are collected from the Jobclocks using a Palm Pilot. Back at the office, the payroll clerk uses Jobclock Manager Software to generate a dozen customized reports. AccountLinx software automatically transfers time and attendance information to popular payroll and accounting packages.

What are the Benefits?
What benefits do time and attendance solutions really bring the superintendents?

Isn't it expensive to get started? What if the workers don't comply or resist the system?

- Implementing an electronic time and attendance system brings tremendous benefits but it also requires a commitment from the business. The first step is to realize that the old ways of tracking time are inaccurate, ineffective and extremely costly.

- The next step is to select and purchase an appropriate solution.

- Finally, management has to deploy the solution to the workforce. Most companies take several payroll periods to fully roll out The Jobclock System. After that, the savings are substantial. The typical return on investment for most Jobclock Systems is about five weeks.

Find out why more than 160,000 workers clocked in today with The Jobclock System.

Call 888-788-8463 or visit www.jobclock.com.
Excell Minerals is a privately held company that has been a global industry leader for more than 30 years. This company is an important supplier of recovered metals, agricultural liming materials, cement products and specialty fertilizers. Excell Minerals has earned a reputation for high quality products and outstanding service to the markets it serves.

Introducing...

**EXCELLERATOR™**

An excellent choice for improving turfgrass performance and strength – rich in soluble silicon and micronutrients.

Excellerator is a prilled calcium silicate product, custom blended with a unique blend of micronutrients proven to enhance turf health. Its proprietary design allows for immediate water release, permitting rapid turf uptake and response. Excellerator strengthens turf and enhances resiliency, making it ideal for high traffic areas.

How it works...

The majority of sand-based soils have a high silicate content, but are typically deficient in silicate monosilicic acid, the plant-available form of silicon. Even on traditionally fertilized greens, turf silicon demand will, over time, outstrip the soil's ability to supply sufficient silicon by normal weathering processes.

Excellerator, once applied, uniquely works to improve soil fertility. Excellerator strengthens plant cell walls and improves overall plant health, increasing resistance to insects, diseases and fungal attack. Under dense turfgrass stands, root-absorbed silicon can indirectly stimulate growth by improving leaf erectness. This enhanced leaf erectness may aid turf health with lower mowing cuts, allowing for faster greens speed.

"For me, as a plant pathologist, to see what silicon does for diseases is just phenomenal. It doesn't just control one disease, it controls several diseases. You can better manage your fungicide application . . ."

— Dr. Lawrence Datnoff

University of Florida

Excellerator is a unique source of soluble silicon. This specialty turf fertilizer contains the highest levels (39%) of soluble silicon known in the industry. Silicon, when plant available, offers several distinct benefits to the turf manager:

- Strengthened turf with enhanced resiliency, making it ideal for high-traffic areas
- A reduction in heat stress
- Easily incorporated into existing fertility programs
- Improved disease and insect resistance
- Increased availability of soil-bound phosphorus
- Improved traditional fertilizer performance

In addition, soluble silicon applications have been shown to alleviate nutrient toxicity symptoms, increase antioxidant concentrations, and increase photosynthetic capacity.

**Excellerator is an important addition to an already-existing, sound fertility program.**

Many reasons exist to try this remarkable new product. Excellerator is a unique, immediately soluble, prilled, calcium silicate source, custom blended for the turfgrass industry. Excellerator provides your turf with silicon, calcium and other key micronutrients.

Research has shown silicon fertilizer applications can increase phosphorus availability, improve root mass, and increase the rigidity and elasticity of turfgrass leaf tissue. With Excellerator's unique nutrient package and calcium carbonate equivalence (CCE) of lime, this new product is an excellent choice to enhance an already-existing fertility and disease management program.

Excellerator is available in 2 turf pellet sizes:

**Excellerator Greens and Sports Turf Grade:** A micropellet, designed for tee boxes, greens, and athletic field applications

**Excellerator Fairways Grade:** A slightly larger pellet designed for fairways and roughs

Contact us today at 1-866-401-5700, or visit www.ExcellMinerals.com for the latest information on how Excellerator can help you manage your turf and keep it looking picture perfect.
"It's sometimes hard to get excited about N-P-K, but I'm excited about our new Carbon Power foliar nutrient," says Floratine President Bill Byrnes.

The new Carbon Power technology, which Floratine has applied to several major nutrient blends, involves the inclusion of crenic saprins — a powerful, biologically active, organic acid fraction, which research has demonstrated leads to dramatic enhancement of nutrient uptake, translocation and utilization in plants.

As a result of this increased utilization, reduced nutrient inputs may be possible and turf still be adequately supplied to achieve physiological benefits. For instance, studies have shown crenic saprins increase chlorophyll density and rooting.

According to Byrnes, applications during 2005 have produced dramatic results throughout the United States and Canada on warm and cool season turf, producing strong color responses at low nitrogen rates.

"Importantly," says Byrnes, "we know why the response occurs, and it is not nitrogen or iron based. It is carbon based. We are focused on turf strength, not surging plants. Surging only sets turf up for later problems."

Carbon Power is currently available in the following Floratine products:

- **Carbon N (20-0-4+1% Mg)**, with nitrate and ammoniacal nitrogen sources to provide balanced nitrogen inputs.
- **P.K. Fight (3-0-28)**, derived from proprietary stabilized potassium phosphite to assist stress tolerance.
- **Carbon K (3-0-15+1% Mg)**, with predominately low salt thiosulfate potassium but enough potassium nitrate to insure immediate availability for deficiencies.

"Though this is expensive technology, we have squeezed both wholesale and retail margins to ensure affordability, especially on an application basis," Byrnes says.

Floratine, which has exclusive access to the Swedish supplier of the crenic saprin source material, believes turf managers will find that Carbon Power offers an attractive option for greens, tees and fairway use.

Ken Day, the consulting agronomist who sourced the crenic saprin material and monitored the European trials, has researched and tested organic materials for agricultural and turf applications for more than 15 years. "No one," he says, "especially Floratine, is claiming Carbon Power products are a silver bullet. Nevertheless, observation and measurement convince me that crenic saprin technology consistently delivers increased biological activity in turf."

*Several years of golf course testing in Europe have confirmed crenic saprins' power to enhance turf aesthetics, even under adverse temperature conditions," reports Peter Stromberg, Floratine's European business manager. "Superintendents who have used Carbon Power technology have consistently noted greening and moderate growth at low nitrogen rates on creeping bent and poa below 50° F and less, even in Scandinavia where we also suffer from low-light intensity early in the year."

The northern United States and Canada deal with the same basic early-season limitations.
Jacobsen, a Textron Company
3800 Arco Corporate Drive
Charlotte, NC 28273
Phone: 1-888-922-TURF
Web site: www.jacobsen.com

ADVERTISEMENT

Jacobsen, a Textron company, manufactures a full range of vehicles and turf maintenance equipment for golf, turf, professional lawn care, sports field, municipal and industrial applications. The company markets BOB-CAT, Brouwer, Bunton, Cushman, Jacobsen, Ryan and Steiner products internationally through an extensive distribution network. When performance matters, choose Jacobsen.

E-Walk®
Jacobsen's new E-Walk, all-electric walking greens mower, is a revolutionary mower with no oil, no hydraulic fluids, no emissions and virtually no noise. The E-Walk is 22 inches wide, features a quick-release E-PacT sealed battery and uses two weather-sealed, 48-Volt DC electric motors. It has an electronically balanced, 11-blade reel that delivers a tournament quality, adjustable height of cut down to 1/4-inch.

Verticut®
Jacobsen Verticut 214 tractor-mounted control features a single hydraulic control lever that is placed within easy reach of the operator. The three 30-inch wide cutting heads easily float over ground undulations. Verticut 214's wide, 84-inch cutting path and 4-MPH cutting speed covers more than 3 acres an hour for high productivity.

SLF-1880™
This super-light 5-gang fairway mower produces a quality finish even under the most challenging conditions. Its 80-inch cut increases productivity compared to triplex mowers and the 18-inch reels perform better on undulating fairways. The result is a better overall quality finish even under the most challenging conditions. Plus, the 80-inch-wide cut pattern improves visual aesthetics by adding definition.

AR-5™
The redesigned AR-5 is a third-generation fine-cut rotary mower and uses the popular LF platform as the foundation for the redesigned lightweight fairway mower. The AR-5 lift arms are redesigned to continuously keep the cutting decks in the same vertical plane, allowing the decks to float straight up and down independently. The AR-5 is powered by a reliable, 60-horsepower Kubota diesel engine. The rotary mower decks are convertible from mulching to side discharge.

Ryan® Greensaire 24
If you are looking for a turf friendly aerator that produces high-quality results, the Ryan Greensaire 24 is just what you are looking for. The 24-inch self-propelled aerator has an 8-hp Briggs & Stratton® Intek Pro® engine and a low tone muffler to reduce noise while providing power. Four tine sizes allow for proper core aeration under varying soil conditions so that you can aerate precisely at all times. For ease of operation and safety, the Greensaire comes equipped with operator presence control, an automatic parking brake and centralized controls.

Cushman® Turf-Truckster®
The Cushman Turf-Truckster offers outstanding versatility with features such as the industry's highest payload of 2,850 pounds, standard auxiliary hydraulics, and your choice of an automatic 3-speed or a 4-speed manual transmission. Engine options include a 32-hp EFI gas engine and a new 26-hp diesel engine.
John Deere Golf & Turf One Source™ is a full-service platform bringing together equipment, agronomic products and other services to better serve the expanding needs of golf course superintendents, owners, architects, builders and management companies. The program offers a full line of industry-leading mowing and maintenance equipment, including certified pre-owned equipment through the John Deere Assured program.

Additional products offered through One Source include seed, fertilizer, chemicals, landscaping supplies, irrigation, fertigation, drainage and golf course accessories from industry leaders—all available through a local John Deere distributor.

As the official golf course equipment and One Source supplier to the PGA TOUR, John Deere can be trusted to provide superintendents the tournament-level quality needed on today's golf courses.

John Deere 2500E Hybrid Tri-Plex Greens Mower
The John Deere 2500E boasts reduced leak points, troubleshooting diagnostics and thermal motor protection. Equipped with an option of two engines, the 2500E gas model offers an 18-hp, four-cycle Kawasaki V-Twin engine, while an 18-hp, three-cylinder John Deere Series 220 powers the diesel model.

John Deere has eliminated more than 100 leak points at the reel circuit, while still providing superior cut quality and the power required to perform normal mowing operations as well as verti-cutting and scalping for overseeding programs.

John Deere Aercore™ 800 Aerator
Just in time for fall aeration, John Deere introduces the 2006 model year version of its popular Aercore 800, delivering operators high productivity while providing optimum hole quality, durability and ease of service. The Aercore 800 features four aerating speeds, a four-cycle overhead valve, Kohler Command 25-hp engine with electric solenoid start and a dual element air filter for years of reliable service. The model year 2006 Aercore 800 features standard drive tire core deflectors to eliminate running over cores, an electro-hydraulic lift system, and drive chain tensioners to promote consistent down-row hole spacing.

John Deere E-Gator™
A clean, quiet and efficient option for a variety of applications, John Deere introduces 2006 model year updates for its E-Gator™. Increased foot and passenger room and an easy-to-reach forward/reverse toggle switch on the operator station provide improved comfort and convenience. Additionally, John Deere has added four-ty high-performance tires for longer wear on hard surfaces. The E-Gator continues to feature low ground pressure to help prevent ground compaction, overspeed and roll-away control for safety and an anti-rollback function. Additional features include dynamic braking and speed control. The vehicle has a regenerative feature that puts an estimated 3 to 5 percent of the full electrical charge back into the battery during a day of work. The unit's UL-approved charger plugs into a 120 VAC, 60 Hz wall receptacle and draws the maximum amount of current allowed.

John Deere Gator TX™ Turf
John Deere Gator TX Turf was designed with the golf course professional in mind, featuring special turf-friendly tires, improved operator comfort and the quietest operation. With all-wheel suspension and all-wheel hydraulic disc brakes, the Gator TX Turf can go anywhere on course or off. And with a frame-isolated engine and exhaust system, a large-volume muffler and quiet foot-pedal operation, golfers won't even hear it coming. More powerful than the previous generation of Gators, the new TX Turf features a 13-hp/401 cc Kawasaki FJ400 engine, increased payload capacity and improved braking capabilities.

John Deere C Series Fairway Mowers
John Deere C-Series Lightweight Fairway Mowers have been designed for greater productivity and operator comfort. For operator comfort, the command arm puts the key switch, mow switch, throttle lever and raise/lower lever conveniently at the operator's fingertips while the patented White box™ controller is easily viewed from the operator's seat. The controller also offers quick on-board electrical diagnosis, providing less downtime for the operator.

- The 3225C is equipped with a three-cylinder, 38.5-hp, liquid-cooled diesel engine and can be equipped with a standard 22-inch 7-blade or the 22-inch 5-, 8- or 10-blade Extra Strength Precision (ESP) cutting units.

- The 3235C is equipped with a three-cylinder, 48.5-hp, liquid-cooled turbocharged diesel engine and can be equipped with 7-blade 22-inch Standard or the 5-, 8- or 10-blade 22-inch ESP cutting units.

www.golfdom.com
**LESCO Manicure Ultra**
The new Manicure Ultra offers one of the most complete spectrums of fungicide control available, including dollar spot, brown patch, leaf spot and snow molds. Manicure contains chlorothalonil in an advanced Accu-Stick™ flowable formulation that is weather resistant and helps this product control diseases on turf, flowers, shrubs and shade trees. Uniform coverage on both sides of the leaf blade ensures disease protection for up to 14 days.

**LESCO 18 Plus**
With the active ingredient iprodione, LESCO's 18 Plus is a proven fungicide chemistry that delivers quick disease knockdown of some of the most critical turf diseases, including dollar spot, brown patch, leaf spot and snow molds. Thanks to its locally systemic action, 18 Plus offers enhanced uptake and even distribution throughout the plant for long-lasting control as well. 18 Plus is labeled for use on cool- and warm-season turfgrasses as well as ornamentals.

**LESCO Spectator Ultra**
Developed for the easy, cost-effective control of 19 turf and 30 landscape ornamental diseases, such as dollar spot, brown patch, anthracnose and more. Our economical, highly concentrated formulation contains 3.4 pounds of propiconazole per gallon, the same active ingredient as much pricier brands, but at an exceptional cost per acre value – one 2-gallon case treats more than 16 acres of fairway. Labeled for versatile use on all turfgrass species, including golf course greens, tees, fairways and roughs.

**LESCO Touche**
Touche puts the active ingredient vinclozolin to work controlling dollar spot, leaf spot, melting out, fusarium patch diseases and more. Touche protects susceptible plant tissues by preventing spore germination and preventing further growth of the germ tube. As a result, you get up to 28 days of residual control.

**LESCO’s Store-on-Wheels® vehicle**
LESCO's innovative Store-on-Wheels makes LESCO the most convenient supplier of products for thousands of golf course superintendents across the country. The Store-on-Wheels brings products directly to the course, and each Store-on-Wheels is driven by a trained, agronomic expert who can help superintendents solve tricky problems and select the right products for their needs. Plus, LESCO has increased the number of Stores-on-Wheels on the road from 72 to more than 100, which means more superintendents can simplify their jobs by purchasing from LESCO than ever before. Call 800-321-5325 to set up a visit from a LESCO Store-on-Wheels today.
Links Seed LLC was founded in 2002 by career seedsman Robert Cook with the specific goal of bringing quality turfgrass seed to the grass seed market. Links Seed serves as a complement to Cook's trading company, Emerald Commodities.

Links Seed brings the quality products from the breeding programs of Dr. Virginia Lehman (Blue Moon Farm) and Crystal Rose-Fricker (Pure Seed Testing). Cook is working to bring seed of the highest quality to the market to close the gap between the quality of seed that exists in breeding programs and the quality of seed that has previously been available to consumers. Look for and demand the quality of Links Seed brand grass seed. Those varieties include LS-44 creeping bentgrass, Terradyne tall fescue and Turnberry tall fescue from Dr. Lehman's Blue Moon Farm as well as Golden Nugget Kentucky Bluegrass from breeder Crystal Rose-Fricker. Links Seed looks forward to future interactions and business with the readers of Golfdom.

**LS-44 Creeping Bentgrass**

LS-44 is a new Creeping Bentgrass that performed better than established varieties in trials conducted by North Carolina State University. LS-44's high density rating provides a true, virtually grassless putting surface under various mowing heights without thatch buildup.

- Dense tillering and upright growth habit — helps crowd out Poa annua.
- Superior disease resistance — requires less fungicide.
- Fine uniform texture — produces a superior putting surface.
- Exceptional traffic and wear tolerance — less spiking damage.
- Excellent seedling vigor — establishes quickly.
- Outstanding low mowing performance.
- Superb heat, humidity and cold tolerance — Adapted to a broad range of climates and elevations.
- Recommended for new construction, interseeding existing greens and winter overseeding of Bermudagrass.

If you're planning to overseed with an old variety, why not use LS-44 instead. You can save money and get a better turf.

**Golden Nugget Kentucky Bluegrass**

Golden Nugget is a newly developed variety that is a result of the parental cross of Limousine and the original Nugget variety. Golden Nugget is a dense, ultra-low growing, aggressive Kentucky bluegrass that will truly tolerate low mowing better than most Kentucky bluegrasses. The density of the Limousine parent is apparent in observing the high density growth habit of Golden Nugget. Golden Nugget has a beautiful dark green leaf color that, combined with the low growth habit and high density, makes it the ideal Kentucky bluegrass variety for home lawns, commercial landscapes, sod farms, and golf course tees, fairways and roughs.

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**Turnberry Tall Fescue**

Turnberry is a high quality turf-type tall fescue suitable for use in a variety of locations throughout the United States. Turnberry would be useful for home landscapes in both full sun and shade, and is especially well suited for home lawns and commercial settings maintained at high quality levels by landscape professionals. Turnberry is ideal for golf course roughs, both sun and shade in the transitions regions of the United States. Turnberry is a fine-textured, medium dark green, high-density tall fescue with excellent brown patch resistance.

**Terradyne Turf Type Perennial Ryegrass**

Terradyne turf type perennial ryegrass is a dark green, fine-textured variety with excellent overall turf quality. This new variety is early to green up in the spring, developing a spring turf density that ranks near the top of the NTEP trials. Its dark green genetic color lasts all season, with especially dark color in the fall and winter.

Use Terradyne alone, in perennial ryegrass blends, in high quality cool-season turf mixes, or for winter overseeding of Bermudagrass turf.
Three Reasons to Use Specific Emerald Isle Solutions

CPR-TRUE FOLIAR NUTRITION PROGRAM
- Complete nutrition, not just fertility.
- Gives you controlled growth with great color and quality.
- Increases stress tolerance, disease resistance and root mass.

Discussion
The CPR-True Foliar Nutrition Program is a complete nutrition program for increasing plant physiological fitness and root mass. By supplying small efficient amounts of nutrition regularly, the superintendent can have the controlled growth he needs for maintaining fast putting speeds without sacrificing turf quality. Furthermore, the increased plant health provides increased stress tolerance and disease resistance.

CPR
- 3-in-1: cytokinins (increase cell division and root mass) plus 17 amino acids plus vitamins.
- Increases stress and drought tolerance and disease resistance.
- Increases the turf quality and color.

Discussion
Stress management (making the plant tolerant to stress) is critical to surviving and thriving during the unpredictability of summer. Seaplant-extract treated turf is more efficient at getting moisture and nutrients from soil, and seaplant extract increases the turf's photosynthetic efficiency and its physiological fitness. Turf quality, coverage and color are three significant factors that the golfer values in a golf course green. CPR is designed to address all three.

Trying to grow a turfgrass plant with NPK alone in summer stress is cheating the plant when cytokinin-rich seaplant extracts are available to increase cell division and root mass.

GROWIN
- Provides faster turf establishment.
- Increases root growth and density.
- Increases turf health and stress tolerance.

Discussion
The benefits of faster turfgrass establishment are many, including time to playability, time to summer stress tolerance, more ready for winter stress.

Increasing fertility to get top growth can penalize root growth, causing subsequent loss of turf and no stress tolerance. GroWin gets simultaneous root growth and density while supporting top growth.

GroWin
- 3-in-1: cytokinins (increase cell division and root mass) plus 17 amino acids plus vitamins.
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Product focus
Established in 1926, Milorganite has been keeping golf courses around the world in top shape for years. Milorganite is an organic-nitrogen, slow-release fertilizer that can be used without the risk of burning. It provides long-lasting results and yields high-quality turf. Milorganite does not contain soluble salts that can burn turf. Rather, Milorganite relies on natural microbes in the soil to release its nutrients. As a result, Milorganite does not need to be watered in.

Technical support, sales, training and customer service
Milorganite has assembled a team of highly experienced consultants to provide technical support within the golf course marketplace. In addition, Milorganite has a dedicated internal staff to answer questions that may arise.

Major product lines
Superintendents worldwide consider Milorganite to be the No. 1 organic fertilizer. Extremely versatile, Milorganite can be used anywhere a superintendent or groundskeeper deems necessary. Milorganite is ideal for a variety of applications:

- greens;
- fairways and roughs;
- tee boxes;
- trees;
- planting beds; and
- flowering shrubs.

Professionals can purchase Milorganite using the company's extensive distributor network. In many cases, it will be the same supplier who handles seed, pesticides and other growth products. For convenience, Milorganite also can be purchased in a variety of quantities:

- 50-pound bags;
- 1/2-ton bulk bags; and
- 1-ton bulk bags.
Inspired by the timeless design of traditional English garden benches, Oxford Garden uses the finest quality standards in manufacturing its furniture for a lifetime of outdoor use. Each piece is elegant yet affordable and will provide years of comfort, satisfaction and value in wood furniture. Benches, armchairs, dining and patio tables, and planters are all superbly crafted using mortise and tenon construction for durability and strength. We use only shorea, a dense and durable hardwood, known for its weight, hardness and weatherability. Shorea requires no finishing and will not rot when left outdoors where rain and sun will damage other lesser quality woods. Left untreated, shorea will weather to a soft warm shade of gray similar to the weathering of teak. Original color can be maintained by applying a seasonal coat of teak oil. Products ship partially assembled for the ease of shipment, assembly and storage. Orders can usually be shipped within 72 hours. Oxford Garden is known for its heritage quality furniture and exceptional value.

Planters
Oxford Garden will help define your garden or interior green space with these shorea wood planters. Add a burst of color to your outdoor furniture grouping with the 15-, 19- or 28-inch planter. The gently detailed uprights are topped with turned finials for a distinctive presence while the functional slatted bottom panel allows water to drain. Cultivate directly in the planter or use it to place your favorite potted plant. Because it is made of shorea wood these planters will handle many waterings and seasons.

Classic Round Table and Warwick Stacking Armchairs
Our classic round dining table makes a perfect match to our Warwick Stacking Armchairs. These armchairs can be stacked four high to maximize your storage space. From an intimate patio dinner to a grand outdoor feast, Oxford Garden has a table that will fulfill your requirements. These sturdy and well-balanced tables are at home on the patio, by the pool or on the lawn. Create the perfect outdoor dining space by choosing a table and adding chairs from our Dining Seating Collection. Each table has been designed to accommodate both arm and armless seating.

Patented Signature Series Custom Laser-Engraved Collection
(US Patent Number 6,644,750 B1)
Take advantage of our Signature Series outdoor furniture by proclaiming your club’s or organization’s personal identity with remarkable detail achieved through our precision laser-engraving process. Graceful curves, fine lines and illustrations are accurately reproduced onto the wide center back panel, providing for a personal statement that is integrated into the furniture. The trash receptacle presents a functional, yet attractive solution, while complementing any furniture arrangement. It is complete with a sturdy 20-gallon removable liner. Add the optional hinged lid to create a finished look. Our 15-inch English Planter rounds out the furniture grouping.
Not Just A Herbicide Company Anymore!
PBI/Gordon’s professional product line also includes plant
growth regulators and plant nutrient supplements as well as
anti-transpirant, pond management and other problem-solving
products.
PBI/Gordon’s commitment is to developing optimum
formulations that meet the needs of the golf course super-
intendent. To support its quality products, it is also committed to
providing the services and product stewardship efforts needed
by the industry.

**SpeedZone® Broadleaf Herbicide**
for Turf provides the fastest and
most versatile broadleaf weed
control available.
- Excels in cool-weather weed control
- Extended application window
- Rain-fast in as little as three hours
- Reseed in two weeks
- Low odor formulation

**SpeedZone® Southern Broadleaf**
Herbicide for Turf provides the fastest
and most versatile broadleaf weed
control available.
- Fast visual response
- Control of tough weeds like clover, ground ivy and spurge
- Dead weeds within a week
- Rain-fast in as little as three hours
- Low odor
- Reseed in two weeks

**Surge® Broadleaf Herbicide**
for Turf provides warm-weather weed
control – fast.
- Controls spurge and other warm-weather weeds such as
  knotweed, plantain, oxalis, clover and dandelion
- Suppresses yellow nutsedge
- Applications can be made up to 90°F without loss of efficacy or speed

**Azatrol® EC Insecticide**
- Unique low-odor formulation of azadirachtin.
- Multiple modes of action, including IGR, anti-feedant and
  anti-ovipositing, make it virtually impossible for insect resis-
  tance to develop.
- Excellent control of red spider mites, lacebugs, whiteflies, cater-
  pillars, Japanese beetles
- Controls most chewing and sucking insect pests
- No risk to beneficial insect populations
- OMRI listed organic product

New **Launch® Dry** plant nutrient sup-
plement provides the benefits of cy-
tokinins, auxins, humics and fulvics
with liquid manure on a greens grade
granule.
- Enhances root mass and length
- Use in seeding, sodding and sprig-
ging of new turf
- For overseeding into existing turf
- Maintain or upgrade established
turf areas under high traffic, high
stress conditions

**Glyphomate™ 41 Weed & Grass Killer**
plus Aquatic Herbicide Herbicide is
an “all-in-one” non-selective herbicide labeled for both aquatic
and terrestrial weed and grass control uses.
- Non-volatile, low-odor formulation
- Reseed immediately or in
  seven days if tillage is
  necessary
- Ideal for spring Bermudagrass
  release
- Controls many winter annual
  weeds and grasses in dormant
  warm-season turf
- Controls weeds that have
  emerged above the water line
- No restrictions on the use of
  treated water

Always read and follow label
directions
Since 1954, Par Aide Products Co. has been providing the golf course industry with a superior line of golf course accessories. For a product to earn the Par Aide name, it must make superintendents' jobs easier, help them do it better or perform a service that makes them look good to the golfer. When describing our products, our favorite words are long-lasting, maintenance-free, dependable and value. We take great pride in having grown our full line of golf course accessories by listening to our customers and through innovation and acquisition.

**Embroidered Flags**

Turn to Par Aide when high quality and exceptional service are what you demand for embroidered flags. We took flag embroidery to the next level by utilizing the exclusive “reverse bobbin” stitching, which embroiders your logo in reverse on the backside of the flag. This will give you extraordinary detail on both sides of the flag.

Our new line of embroidered flags is constructed using 400-denier material with reinforced stitching. This material is more durable and less likely to “pucker” when embroidered upon. Our flags are made of UV-protected nylon for maximum fade resistance. They are available in convenient tube-lock swivel or brass grommets. Finally, we are dedicated to providing the fastest turnaround time on embroidered flags in the industry.

**Green & Whites**

Our new Green & White Directional Markers are easy to place and remove. These multi-purpose markers are extremely helpful in guiding golfers around the course and in the right direction. Each marker is made from an 8-inch, maintenance free, recycled plastic white stake with a 4-inch hunter green vinyl cap, and a sturdy stainless steel 5/16-inch spike. Some of the many uses include directing foot and cart traffic, protecting wet areas and new sod, marking the pass before and after, leaving a more consistent playing surface. Smoothing out our ultra-lightweight design has made this rake better than ever.
Parkway Research is a basic formulator and producer of turf specialty chemicals and fertilizers. Parkway’s best known products are Manni-Plex foliar micronutrients, Big Foot spray colorants, Consan turf fungicide and algaecide, Neo-Tec nematocides, and Noculate greens-grade fertilizers. All of Parkway’s products are guaranteed to deliver unparalleled results to the turfgrass professional. Parkway Research is a division of Brandt Consolidated, Inc. with distribution locations in the United States, Europe, Asia and Australia.

**BIONX**

Designed to address the needs of the modern golf course superintendent, BIONX, an EPA-registered fungicide and insecticide, functions at its best when used as a component of a disease and pest control plan.

**Stand-alone fungicide**

As a fungicide, BIONX wets the protective membrane of the fungal mycelia, sporangia and spores, breaking it down and exposing them to the drying effect of the atmosphere. Drying of the fungal mycelia and the surrounding leaf tissue will prevent further infection. BIONX has stand-alone activity on turf fungal diseases such as Anthracnose, Dollar Spot and Fairy Ring.

**Fungicidal tank mix partner**

BIONX may be tank-mixed with most commonly used turf and ornamental fungicides and will not only provide its unique fungicidal action, but owing to its 21st century wetting properties, may indeed enhance the overall efficacy of the mix.

**Turf insecticide**

Soft-bodied insects such as army worms are protected by a water repellant layer that loses its effectiveness when BIONX comes into contact with it. The insects are then exposed to loss of body fluids, causing death.

**Ornamental pest control**

Another effect on some insects is the penetration of the ultra-low surface tension fluid into the respiratory organs, thus suffocating it. BIONX has activity on insects such as whiteflies, aphids, mealy bugs and leafhoppers, as well as various types of mites.

**Super surfactant technology**

While the active ingredient for the EPA-regulated controls on the BIONX label is Sodium Tetaborohydrate Decahydrate, BIONX base ingredients are a unique blend of organic, environmentally friendly surfactants, and cold-pressed orange oil. When tested against popular wetting agents and adjuvants, BIONX exhibits superior wetting and spreading properties.

**ECLIPSE**

**Greens Grade Black Layer Control**

**The Problem**

Black Layer is an anaerobic (without oxygen) condition that develops on golf course greens due to a number of environmental and cultural factors. While more common in USGA (sand-based) greens, the condition is not limited to them.

**The Solution**

ECLIPSE is formulated to attack Black Layer from four angles:

1. **Calcium Silicate**
   - Exposing the clay particles to Calcium will cause the Sodium, Iron and Sulfur to be exchanged by the Calcium because of the stronger attraction, allowing the Sodium to be easily leached below the root zone where it is flushed away. Calcium plays a key role in displacing Iron in the Iron Sulfide complex.

2. **Activated Carbon**
   - The activated carbon in ECLIPSE is designed to adsorb the Hydrogen Sulfide created in the Black Layer process.

3. **Beneficial Soil Micro-organisms**
   - ECLIPSE improves soil structure, percolation, nutrient cycling and disease suppression. The use of these microbes will also inhibit the production of sulfide reductase.

4. **Wetting Agent**
   - ECLIPSE improves water movement throughout the soil profile, and will help to reduce the anaerobic conditions, and improve root growth.
POLYON® controlled-release fertilizer provides predictable results

POLYON® controlled-release fertilizers provide golf course superintendents the ultimate in predictability. Only POLYON fertilizer uses the patented Reactive Layers Coating™ process, which encapsulates fertilizer granules in a durable polymer membrane.

Through a reaction known as Solute Concentration Gradient Permeation, each coated granule slowly and consistently releases nutrients to the soil when activated by temperature. By releasing gradually and consistently, POLYON controlled-release fertilizer assures predictable turfgrass feeding.

Unlike other fertilizers, POLYON controlled-release fertilizer is not subject to variables such as moisture levels, uneven particle size, microbial activity or soil pH.

The consistent, gradual performance of POLYON fertilizer enables users to spend less time and money fertilizing, and because it can be custom-formulated to fit the nutrient requirements of specific turfgrass needs, POLYON can often deliver season-long fertilization with just one application.

For more information, call 1-800-422-4248 or visit www.polyon.com.

PRECISE® Acephate makes a good insecticide better

Pursell Technologies recently introduced an advanced delivery system for golf course pesticide applications.

PRECISE® Acephate is a dry flowing, easy-to-handle granular formulation. The patented PRECISE coating technology allows slow, controlled release of the pesticide over an extended period of time, which provides increased application flexibility and product efficacy, along with greatly enhanced user safety.

Acephate has long been a popular product for controlling a wide variety of damaging insects in turfgrass, such as mole crickets, fire ants, armyworms, chinch bugs and others. PRECISE Acephate offers an improved formulation of acephate.

By creating a coated granular form of acephate, PRECISE keeps the pesticide from coming in contact with users and it reduces acephate's distinct harsh smell. Granular PRECISE Acephate is also much easier to handle and more environmentally friendly, with no risks of hazardous spills or spray drift.

In addition to safer, cleaner, improved handling capabilities, one of the big advantages of PRECISE-coated acephate is in the way it performs on a golf course.

PRECISE Acephate has a durable, ultrathin polymer coating that gradually allows moisture in and then slowly releases acephate as a result of temperature. The long-lasting release dramatically improves the insecticide's performance, as a preventive, systemic insecticide. PRECISE Acephate promises to be a beneficial and popular option for superintendents everywhere. For more information, call 1-866-846-3348 or visit www.aboutprecise.com.

The Experience at FarmLinks displays latest technology

Pursell Technologies has always been known for bold innovations, and that trend continues with FarmLinks at Pursell Farms, an 18-hole research and demonstration golf course. The course acts as a "living laboratory" and is the focal point of PTI's corporate office complex at Pursell Farms.

The facilities at the 3,500-acre site also include a guest lodge, golf clubhouse, research sites, product demonstration areas, environmental observation stations and a First Tee facility.

Each year, more than 1,000 golf course superintendents, nursery operators, students and others visit the facility and participate in The Experience at FarmLinks. Partnering with industry leading companies like Toro, Syngenta and Club Car, PTI shows superintendents and other visitors the latest technology and solutions for the golf industry. For more information about attending The Experience at FarmLinks, talk to your Simplot or Harrell's representative.

About Pursell Technologies Inc.

Pursell Technologies Inc. (PTI) is the world's premier developer and manufacturer of controlled-release fertilizers and pesticides. Based in Sylacauga, AL, the family owned company has been in the fertilizer business for more than 100 years. Pursell Technologies' POLYON® polymer-coated fertilizers, PRECISE® controlled-release pesticides and TRIKOTE® polymer-coated, sulfur coated fertilizers are marketed worldwide.
Rain Bird Corporation – Golf Division manufactures a wide range of irrigation products for golf courses: pump stations, EAGLE™ gear-drive rotors, field controllers, map-based central control irrigation systems, decoders, swing joints, flow meters, filtration systems, valves and irrigation accessories. Rain Bird® Central Control and Pump Station components are serviced and supported by a comprehensive Global Service Plan. These products are sold worldwide through an extensive network of specialty irrigation distributors.

Rain Bird was the first to develop computerized central control, and the first to install a centrally controlled irrigation system on a golf course. As the world's leading manufacturer of irrigation products, Rain Bird continues to set an example by demonstrating its commitment to support golf course professionals.

Rain Bird® Pump Station—Designed to provide golf course professionals with the industry's only completely integrated irrigation system, Rain Bird Golf's Pump Station works seamlessly with central control software through the exclusive Smart Pump™ feature to optimize the entire irrigation cycle — from reservoir to rotor.

Rain Bird Golf Pump Stations communicate in real-time with Smart Pump, which constantly compares actual flow at the pump station to the expected flow. Any time actual flow differs from the expected flow, Smart Pump automatically reacts to balance the supply and demand between the pump station and irrigation schedule. As a result, Smart Pump reduces pump downtime, wear and tear on the system, saves water and electricity and provides peace of mind day after day.

Rain Bird offers a variety of pump station options designed to meet the needs of the course and superintendent. Variable Frequency Drive or Constant Speed pump stations are available. Additional options include:
- Variations with a pressure maintenance pump and a maximum of 10 main pumps
- Vertical, centrifugal and submersible configurations up to 100 hp per pump
- Custom skids and retrofit options
- Compatible Rain Bird filtration with integrated controls

Designed for maximum strength and rigidity, the pump station deck plate is continuous-welded to a channel steel frame. A superior polyester powder coating process protects the pump station from corrosion, chipping and scratching.

In addition, the pump station's graphical operator interface features a large, intuitive, full-color touch-screen display that makes the system easy to set up and allows for easy pressure setting adjustments. All pump settings can be controlled using the touch screen or through Pump Manager®, Rain Bird's Windows®-based remote operating software. Controls on both the pump station touch screen and the software include all faults and alarms, pump status, pump mode, actual pressure and flow, and set points. Logging capability is available so that actual data can be used to optimize performance or troubleshoot.

Rain Bird WS PRO LT—This feature-packed, value-priced weather station helps conserve resources by eliminating the guesswork in determining accurate sprinkler run times. The WS PRO LT features automatic ET download with optional ET override, weather data reports and easy installation. Sensors collect weather data used to calculate an ET value and the central control systems use this value to automatically program run times without over- or underwatering.

Rain Bird PAR+ES Decoder Satellite—The Decoder Controller combines the features and benefits of a controller system with those of a decoder system, resulting in an easier and less costly installation for the superintendent. In addition, the Decoder Controller offers the opportunity for easier expansions as the course's irrigation system changes. The decoder controller allows for more versatility in programming and can be used in Stand Alone Mode or with a Rain Bird Central Control System, either through a two-wire or LINK (wireless) interface. Up to 72 decoder addresses and two valves per address can be added, depending on the type of decoder used.

Rain Bird FREEDOM-Pad II—This hand-held remote control makes programming from the field more user-friendly and convenient. Superintendents save valuable time operating the irrigation system while on the course and without leaving the cart path. FREEDOM-Pad II is easy to set up and gives users unprecedented real-time irrigation control through a map-based interface. It also comes with everything needed to quickly transfer all maps and station data directly from other Rain Bird control systems. Sprinklers can be controlled directly, or irrigation programs may be operated with the tap of the stylus using simple commands (Turn On, Turn Off, Advance, Pause, Resume).
Founded in the UK in 1932, 70-plus years of designing and manufacturing turf equipment has given SISIS a wealth of knowledge and experience. SISIS products are renowned for their dependability, rugged engineering and exceptional all-round performance, and are used to maintain golf courses all over the world.

**NEW SISIS AER-AID**
Relieves compaction, improves infiltration, combats Black Layer

The new SISIS AER-AID SYSTEM brings true aeration to golf greens, tees and approaches. Compaction is usually found in the top 3 to 5 inches of the rootzone – air passage is restricted, with less oxygen reaching the roots. Compacted ground holds more water, which also hinders the passage of air. Grasses starved of air at their roots cannot grow properly.

Compaction and poor drainage can also encourage the formation of Black Layer — a stagnant anaerobic layer — often close to the surface and characterized by its dark color and foul smell. The roots are often already dead or dying before the black color becomes noticeable. Black layer is particularly evident on poorer quality, sand-based root zones and in areas growing in shady conditions.

The introduction of air into the rootzone will combat the problems of surface compaction, and the patented SISIS AER-AID enables turf professionals to give their turf a blast of air every time they aerify.

The cam trigger system ensures that air is always expelled at the bottom of the tine penetration, ensuring a targeted, constant working depth, infinitely variable to a maximum of 5 inches. The air injection tines alternate with conventional solid tines and both are 3/8-inch diameter and carbide tipped. Working at 6-inch spacing, air is introduced at a rate of 3 cu.ft. per minute. The air injection tines are specially designed to use the maximum air available from the compressor, which produces clean, fresh air at a constant rate.

**SISIS VEEMO MK2**
The SISIS VEEMO MK2 heavy-duty dethatcher offers maximum thatch removal with minimum surface disturbance and a fast work rate. The double-ended blades are tungsten-tipped for extra durability and the spacing of the blades can be varied by means of flexible spacers. The VEEMO has three independently floating heads to closely follow ground contours without scalping, and depth of cut is infinitely variable by means of a locking micro-adjuster on each unit.

**SISIS ROTORAKE 600**
Heavy-duty, powered dethatcher for greens and tees

A superb dethatcher for regular routine use when used at a shallow setting, this powerful, heavy-duty machine works to a maximum of 2 inches when required. Choice of blades, with variable spacing. Tungsten tips are 1-inch long for a longer working life. The Rotorake 600, which is designed for ease of handling, contributes to aeration and compaction relief by cutting clean, continuous slits to assist water and air absorption; integration of top-dressing is also improved. The slightly smaller Auto-Rotorake is also designed for continuous heavy-duty operation and is ideal for thatch control on Ultra Dwarf grasses.

**SISIS FLEXIBRUSH**
At 18 feet wide, the SISIS FLEXIBRUSH is fast and effective. Six sets of floating "V" section brushes, divided into three sections that also float, enable the FLEXIBRUSH to follow ground contours. The two outer sections fold for transport and stands are supplied for storage.
Founded more than 90 years ago in Cedar Falls, Iowa, Standard Golf Company is the leading international manufacturer of golf course accessories and maintenance equipment tools. Standard Golf specializes in providing its customers with 24 hours a day, 7 days a week service through its toll-free number, 1-866-SG-EXPRESS, or web site, www.standardgolf.com. Customers can call in or e-mail their order, and the order will be immediately processed through the customer's designated distributor. In-stock items will be shipped within 48 hours. The company's extensive range of accessories, many of which can be customized, include flags and flagsticks, bunker rakes, ball washers, course information signs, cups, litter receptacles and yardage markers. The line of maintenance tools feature turf repair tools, roller squeegees, top-dressing brushes, hole cutters and soil profile samplers.

**Smart-Fit™ Cup and Ferrule System**
Standard Golf Company's Smart-Fit Cup and Ferrule System prevents excessive wear on cups and ferrules by coupling its ST2000™ non-stick cup with its new, wide-shouldered, notched ferrule to make it impossible for flags to lean, rotate or walk out of the cup. And because the cup's ribs mesh with the notches in the ferrule, flagsticks can be removed and replaced easily without twisting.

**Magnum Tool Line**
Standard Golf Company's tough, extra-rugged Magnum Tool Line provides the kind of durability to withstand the toughest abuse. Made from high-grade aluminum/magnesium alloy, the Magnum Tool Line is lightweight and won't fatigue its users. All Magnum tools have head-to-handle intersections that feature an aluminum core for extra rigidity and come with textured, powder-coated aluminum handles to improve users' grips while keeping hands clean.

The Magnum Tool Line includes a variety of rakes, shovels, squeegees and brooms for all course maintenance needs and the twist and gusset bracing eliminates head to handle wobble.

**Water Purification System**
Providing golfers with purified, not just filtered, water, Standard Golf Company's Nature Pure® Water Cooler Purification System quickly and easily retrofits to 5- and 10-gallon Igloo® water coolers. The system was independently certified to meet EPA Microbiological Purification Standards. It protects users from waterborne bacteria and removes chlorine, herbicides, pesticides and unpleasant tastes and odors. The cost-efficient system requires no plastic liners or hose connectors, and purifies up to 500 gallons of water before the cartridge needs to be replaced.

**Junior Tee Console**
Helping to keep fairways free of debris and golf balls clean, Standard Golf Company's Junior Tee Console is constructed of a durable tripod stand that has screw-in spikes to make it portable, eliminating wear on high traffic areas around the tee. This low-profile model combines simplicity, attractiveness and affordability in one of Standard Golf's most popular consoles. Includes a choice of ball washers and trash receptacles.

**TurfStone™ Junior Tee Console**
Standard Golf Company's TurfStone Junior Tee Console combines a low-profile, heavy-duty tripod stand with a gray granite TurfStone sign that is laser-engraved with tee data in colors to match your tee markers. The TurfStone Junior Tee Console comes with screw-in spikes that allow the console to be moved, eliminating excessive wear around the tee. Includes a choice of ball washers and trash receptacles.
At Syngenta, we are about more than just "product in a jug." We invest heavily in research and development — a commitment that allows us to constantly enhance our offerings to meet the emerging needs of the modern golf course superintendent. We not only introduce new products, such as Monument® herbicide, but we also continually improve our existing products, such as Daconil® fungicide featuring SuperWeatherStik® and the new liquid formulation of Heritage® fungicide, Heritage TL.

We also offer innovative programs such as GreenCast® (www.greencastonline.com), a web-based technology platform that delivers customized weather and pest information directly to customers' desktops, and GreenPartners® (www.greenpartnersonline.com), which allows purchasers of our products to accrue points that can be redeemed for business tools to help them improve operations at their courses.

For more information about the products featured below, as well as other Syngenta products and services for golf course management, please call 1-866-SYNGENTA (796-4368) or visit www.syngentaprofessionalproducts.com.

**Heritage TL fungicide**
Syngenta has developed a liquid formulation of its leading strobilurin fungicide — Heritage — exclusively for the turf market. Heritage TL (Turf Liquid) offers control of the same turf diseases as the original water dispersible granule formulation of Heritage, but with enhanced efficacy and application flexibility.

Research shows Heritage TL has a faster uptake into the leaf, coupled with more uptake from the roots and subsequently greater delivery of active ingredient into the leaves. The liquid formulation took more than three years, and a significant outlay of expertise and finances, to develop.

Heritage TL controls the toughest turf diseases, including anthracnose (preventive only), Pythium, fairy ring, snow mold, brown patch, take-all patch and summer patch.

Heritage is the only systemic strobilurin available to the turf market, resulting in the longest application interval of all strobilurin fungicides. Heritage offers the longest-lasting broad-spectrum disease control in the industry — up to 28 days of outstanding preventive control of more than 25 diseases on turfgrass.

**Monument herbicide**
Monument herbicide provides versatile post-emergence weed control in certain warm-season turfgrass species, including Bermudagrass and Zoysiagrass.

A sulfonylurea herbicide, Monument demonstrates excellent control of key weeds including purple and yellow nutsedge, annual sedges, oxalis, green kyllinga and various other weeds in warm-season turfgrasses. In overseeded Bermudagrass, Monument can be used to remove Poa trivialis and/or perennial ryegrass for enhanced spring transition.

**Daconil fungicide featuring SuperWeatherStik**
Daconil fungicide "sticks and stays" up to 21 days. Only Daconil contains Super WeatherStik, delivering the longest-lasting protection you can get from a chlorothalonil fungicide.

Surfactants enable Daconil to remain on the plant longer, even after rain and irrigation. And Daconil has a history of more than 35 years of controlling some of the toughest turf diseases, including dollar spot, anthracnose, gray snow mold and red thread. Syngenta has updated the formulation of Daconil many times over the decades to enhance its proven effectiveness.

Daconil offers what you need: consistent coverage, with a uniform spray of smaller particles for better performance; better mixing, since it mixes completely and consistently with water in the tank; and no clogging, since it won't settle out to the tank bottom.

Remember if you don't see WeatherStik or Ultrex®, it is not Daconil.
Target Specialty Products is the west's leading wholesale distributor of specialty agricultural chemicals, fertilizers, application equipment, services and education. Since 1969, Target has provided products and services to both the public and private sectors in the following markets: golf, landscape, nursery, professional pest management and vegetation management. Committed to quality through service, Target is ISO 9002 certified and provides specialized training and education programs, risk management, worker safety classes and regulatory compliance.

In achieving ISO 9002 certification, all processes and procedures throughout the company from customer service to shipping and receiving are documented. ISO 9002 certification ensures consistent, reliable service.

Target Specialty Products carries a complete product line of disease and pest management products and equipment including:
- Adjuvants, Wetting Agents
- Fertilizers, Herbicides, Insecticides, Fungicides, Soil Surfactants
- Soil Conditioners & Amendments
- Lake and Pond Herbicides, Algaecides and Colorants
- Spreader and Nutrient Management Products
- Spray Application Equipment, Parts and Accessories

Target Specialty Products actively supports the following industry associations:
- CAPCA – California Agricultural Production Consultants Association
- GCSAA – Golf Course Superintendents Association of America
- GCSAC – Golf Course Superintendents Association of California
- NCTLC – Northern California Turf and Landscape Council
- PAPA – Pesticide Applicators Professional Association
- RISE – Responsible Industry for a Sound Environment
- SITC – Southern California Turfgrass Council
- STMA – Sport Turf Managers Association
- WPHA – Western Plant Health Association
- UPFDA – United Producers Formulators & Distributors Association

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Tee-2-Green: Superior Source of Quality Bentgrass Seed
Tee-2-Green is the leading producer of bentgrass varieties for golf courses throughout the world. Superintendents choose Tee-2-Green varieties such as Penncross, the Penn A's and G's, Penneagle and Penneagle II, PennLinks and PennLinks II, and salt and drought tolerant Seaside II because they are proven to be the finest bentgrasses available for golf course greens, fairways and tees. The Penn bentgrasses are subject to higher certification standards than other bentgrasses available on the market. The seed must pass a rigorous cleaning and certification process that ensures the varieties from Tee-2-Green are the cleanest seed possible; 98 percent or better for the Putting Green Quality tag.

PennLinks II – Dollar Spot Resistance
With the same heat and drought tolerances as the original, PennLinks II adds greater density and better disease resistance to dollar spot than any other variety tested in recent Oregon trials. This tough creeping bentgrass needs less water, less fertilizer than others, so there’s less worrying than most superintendents are used to. The result is a high-quality, medium-dark green that comfortably tolerates low mowing and grows semi-erect to create a grainless putting surface. PennLinks II is excellent for tees and fairways, too.

Penneagle II – Brown Patch Resistance
Ideal for tees and fairways, Penneagle II delivers the best overall resistance to brown patch in clinical trials, as well as excellent resistance to dollar spot. Penneagle II produces a flawless playing surface with a medium-fine, semi-erect growth habit and a darker green color than most other bentgrasses. Penneagle II greens up early in the spring, out-competing Poa annua while it wards off diseases. Penneagle II can also be used for overseeding due to its superior tolerance color retention in cooler temperatures.

Seaside II – Salt and Drought Tolerance
This salt-tolerant bentgrass rated highest for summer turf quality, dollar spot resistance, and overall turf quality in 1996 seed trials. Developed for use on tees, fairways and greens, this medium-fine texture variety has good drought tolerance and the ability to use effluent or water sources with a salt content up to 15,000 ppm, with a pH of 7.5–8.5. Seaside II has low fertility and good drought tolerance, so it competes well with Poa annua and other grassy weeds. It also demonstrates excellent resistance to dollar spot and other diseases.
About Tee To Green
Custom Signage

A detail-oriented entrepreneurial sign company, TTG Custom Signage (TTGCS) is a pioneer in golf course sign design. Its principals have spent the last decade gaining industry experience and developing a keen understanding of the needs and challenges facing golf course managers, superintendents and owners. TTGCS's staff and owners have worked with more than 200 North American golf courses and continue, from concept to design, to actualize exquisite signage solutions for their clients while demonstrating inspired artistic ability. Its unique 2005-2006 pricing strategy, based on research conducted throughout the United States and Canada, offers 10" x 6" Genuine Granite Yardage Plates to courses for only $19.99—nearly 30 percent lower than its closest competitor. The company's eight-week order-to-delivery turnover time and flat rate shipping of $150 for orders over 100 granite pieces, and free shipping for complete course orders anywhere in North America, have made TTGCS an industry leader.

Granite

TTGCS can be found at golf courses big and small throughout North America. The reason: superintendents know that TTGCS granite signs enhance course play, subtly improve course appearance, and are more cost effective than average year-over-year sign maintenance costs. With the perfection of sandblasting and engraving techniques and granite's reputation as a long lasting resilient building material, now more than ever, granite signs have become the perfect accompaniment to any golf course. TTGCS is one of the largest North American suppliers of outdoor granite golf course signage. Professional in-house production facilities, coupled with extensive industry expertise, have made TTGCS providers of high-quality long-lasting granite sign solutions to some of North America's largest and most prominent golf organizations.

Bronze, Aluminum and Iron

TTGCS is one of North America's premier bronze, iron and aluminum golf course sign manufacturers. Bronze dates back centuries. Its long lasting aesthetic attributes are well documented. From sleet to snow, to harsh sun or extreme heat, bronze can withstand exposure and wear and tear while satisfying course managers' desire for low maintenance signage. TTGCS's iron and aluminum signs are of the same high standards. TTGCS signs always meet three primary objectives: make the course the star attraction, provide customers with guaranteed pricing and provide inspiration to customers. Whether it's bronze, iron or aluminum, TTGCS has the ideal sign solution for every course and every situation.

Make TTGCS Your Next Sign Solution Provider

When course superintendents think about signage as a means to enhance their property or improve play, price and quality are not the only factors in their decision process. People and the strength of their sign providers must also be considered. A decade ago, TTGCS started out with a simple idea, to provide high quality, unique signage at reasonable prices. Its focus and innovative approach has not changed over time—it has made TTGCS a stable and reliable company that collaborates with clients to craft the highest quality product. TTGCS is not the largest sign company out there; however, its attention to detail and ability to satisfy its customers have made TTGCS one of the best.
The Toro Company is the leading worldwide provider of maintenance equipment for golf courses. Together with its distributors, Toro provides the innovative products, agronomic expertise and exemplary service that helps superintendents enhance the game of golf.

**Riding Greensmaster®**
The Greensmaster® riding cutting system offers a single high performance cutting unit for all models that cuts as low as 3/32-inch. The easy dual point adjust design for bed knife-to-reel adjustment gets the sets the HOC in one click that adjusts as low as .0007 inch. No grease zerks will ease maintenance and there is also an integral groomer and rotating rear roller brush that fits all traction units. The precision manufactured die-cast aluminum design eliminates many of the adjustments of welded designs.

**Flex 21**
The new Toro® Greensmaster® Flex 21 delivers better-looking, better-playing greens. Designed to perform on any green, the Flex 21 virtually eliminates the fear of scalping, allowing you to cut lower than you ever dared before. Its revolutionary flexible cutting unit excels on traditional bent and bermuda, as well as on the new ultradwarf grasses, including the Penn A & G Series, TifEagle, Champion and others.

**ProCore 648**
The ProCore® 648 is an innovative new walking aerator from Toro®. The rear wheels are within the 48-inch aeration swath of the machine, so the tires are not running over the freshly aerated turf. This eliminates the problem of smashing the cores into the holes, preventing topdressing from filling the holes. Easier cleanup produces a savings of time and labor.

**Workman e2050**
The Workman® e2050 electric mid-duty utility vehicle has the power to work as hard as you do. A powerful 500-amp drive train allows for superior hill-climbing capability under all load conditions.

**835S/855S Sprinklers with Trujectory™**
Achieve superior water control with the 835S /855S golf sprinklers with the patented TruJectory™ that adjusts from 7 to 30 degrees. Now you can compensate for windy conditions, spray under tree canopies, over bunkers and out of sand traps, and provide precise head-to-head coverage. Both models are back nozzle capable for heads that need water behind.
Don't Let Bunker Maintenance Become a Trap ... Master It!

The newest innovation in solving the problems of constant bunker maintenance

It's a constant battle: erosion, sand loss, contamination from dirt and debris, puddling. Keeping your bunkers playable and attractive costs you money and, just as important, wastes your valuable time! TrapMaster™ erosion control fabric is a thick, non-woven polyester "blanket" that absorbs and holds sand in place like a powerful magnet – even on 60° bunker faces! In addition, TrapMaster™ erosion control fabric is backed with an innovative polyester spunbond fabric that adds durability, functions as a weed block, prevents sand from leaching out of the polyester blanket downward, AND stops contamination by preventing dirt and pebbles from migrating upward to the sand layer. TrapMaster™'s patent pending, two-layer design helps:

- Hold sand on steep bunker faces - up to 60°
- Prevent erosion and washout
- Stop contamination
- Keep rain and irrigation water draining

With TrapMaster™, you'll save, save, save!

- Save time, money and labor after every rain by reducing the need for bunker repair
- Save thousands of dollars in maintenance costs for sand and sand hauling every few years due to contamination

Any Size – Any Shape! Installing TrapMaster™ is fast and easy, and can be done by your own course crew.

- Delivered to you in standard, easy-to-manage rolls
- Easily installed with sod staples plus an easy-to-use powered staple coupling system
- Once installed, just load the bunker back with sand, complete your desired edging, and you're ready to play!

Best of all, TrapMaster™ helps you master your course maintenance budget!

- Cost-effective and competitively priced
- Constructed of tough, durable non-biodegradable polyester, it's made to last for years
- Frees time and money that can be spent on greens, fairways and other maintenance issues

Call TOLL-FREE 1-866-273-9280 and place your order TODAY!
Or visit us on the web at www.TrapMasterProducts.com.
Turfco Manufacturing is a leading manufacturer of top dressers and material handlers for golf applications. In fact, Turfco developed the world’s first mechanical top dresser in 1961, and continues to lead the industry with patented top dressing technologies, including the Mete-R-Matic® continuous chevron conveyor belt and ground drive system, and the WideSpin™ 1530 technology found in the company’s broadcast top dressers. Today, Turfco offers the widest range of top dressers available, from the self-propelled models for greens and tees, to large pull-behind models appropriate for fairways and other large turf areas.

Turfco products are renowned as much for their solid quality and durability as they are for their unparalleled performance in the field. This is backed by the company’s exclusive three-year warranty, the longest in the industry. In addition to top dressers, Turfco manufactures a wide range of equipment for commercial turf maintenance and upkeep — including aerators, overseeders, dethatchers, sod cutters and more. All are designed and manufactured at the company’s Minneapolis headquarters.

WideSpin™ 1530 Broadcast Top Dresser

Turfco’s WideSpin™ 1530 broadcast top dresser is ideal for superintendents who implement a light, frequent top-dressing program. The machine can top dress as light as a fertilizer spreader up to 30 feet wide, allowing superintendents to top dress 18 holes in as fast as 90 minutes. The light, uniform and clean application means no dragging is required.

Thanks to its patented design, the WideSpin 1530 is the only top dresser that can switch from light to heavy top-dressing applications without attachments. Exclusive angle-adjustable spinner plates allow up to 15 degrees of adjustment to maximize material penetration in varying turf conditions. As a result, the WideSpin 1530 is the first machine capable of uniformly applying ¼-inch or more of top dressing up to 15 feet wide — nearly three times wider than standard spreaders.

The WideSpin 1530 is available as tow-behind, or truck-mount for most current utility vehicles. A new cross-conveyor attachment allowing the unit to perform as a material handler is now available.

CR-10 WideSpin™ Top Dresser and Material Handler

Turfco has introduced the patented WideSpin™ technology to its CR-10 broadcast top dresser and material handler. The CR-10 combines patented Turfco material handling technologies with WideSpin broadcast top-dressing technology to create an exceptionally versatile and easy-to-use golf course maintenance and renovation tool.

Utilized as a material handler, the CR-10 features a patented three-position hand-held control that provides operators flexibility and freedom to monitor material flow and placement from the most convenient location. The flow control feature, in tandem with the 180-degree swing of the cross conveyor, allows the CR-10 to effectively place material without moving the machine, reducing shovel work. The large, four cubic yard (3.06 cubic meter) hopper capacity of the CR-10 makes it useful for filling other top dressers, bunkers, sand traps, washouts and more.

The CR-10 is capable of applying light or heavy top dressing applications at broadcast widths of 15 to 40 feet. Turfco’s WideSpin technology, combined with the CR-10’s exclusive angle-adjustable spinners, also gives superintendents the unmatched ability to apply a full-range of top dressing depths, from light to ¼-inch or more.

Mete-R-Matic XL

Building on the simple, dependable operation of its well-established Mete-R-Matic III, Turfco has introduced the Mete-R-Matic XL tow-type top dresser, which offers increased hopper capacity for larger turf areas on golf courses.

The Mete-R-Matic XL features Turfco’s proven Mete-R-Matic design, which combines a patented chevron belt design with its patented ground drive system to ensure even distribution of heavy, medium or light top-dressing materials, regardless of moisture content and vehicle speed. An adjustable metering gate accurately controls the flow of material from the conveyor belt to the brush, which drives material downward to penetrate the base of the turf. These features combine to make the Mete-R-Matic XL the easiest-to-use, most consistent large area top dresser available.

With a hopper capacity of 2.25 cubic yards (1.72 cubic meters), the Mete-R-Matic XL can carry a maximum load weight of 6,000 pounds.
Varicore Technologies, manufacturer of the Multi-Flow Drainage System, has pioneered the Narrow Trench Installation Technology. NTIT is the most significant innovation in drainage technology since the advent of plastic pipe. This drainage philosophy combines convenience and efficiency to generate a better result.

**Minimal surface disruption**
NTIT requires the drainage medium to exhibit a narrow profile requiring less trench width.

**Expanded intake area**
The drainage medium is not only narrow but also tall, resulting in far more intake area than traditional round pipe. More surface area provides more opportunity for water to enter the flow channels, thereby increasing drainage efficiency.

**Generous flow capacity**
NTIT requires that the drainage medium contain unobstructed round flow channels for the rapid removal of collected water.

**Long life expectancy**
Perhaps the most important feature of NTIT is its longevity. A tall thin drainage medium in a narrow trench can easily be backfilled with sand. Sand is an excellent filter. By preventing clay and silt from reaching the geotextile filter of the drainage product sand dramatically extends the life of the drainage system.

Multi-Flow drainage is the ideal product for narrow trench systems. Multi-Flow is strong, has excellent flow rates, is easy to work with and affordable.

Superintendents love the Narrow Trench Installation Technology because it is fast, simple and durable. They appreciate Multi-Flow because it is flexible, comes with many fittings, and is always available.

Varicore is eager to assist with system designs and appropriate product selection.
The 007 Golf cup
Thoroughly refined thanks to feedback from thousands of superintendents, the 007 is rapidly becoming the most widely used cup in the industry. It encompasses everything golfers and superintendents look for in a hole liner by combining the sound and durability of metal with the paint-free convenience of plastic. The replaceable polycarbonate crown is pure white and blends into the soil perfectly, creating a beautifully smooth transition from hole to liner. Whether you paint the upper lip or leave it bare, no cup looks and works better in the hole than the 007. We’ve been working on this cup for nearly 10 years, and we owe it to the superintendents who have supported us throughout to deliver innovative, functional products. Here’s what current users are saying about the 007:

“Just to echo some of the comments: I wanted you to know how pleased we are with the changes you made with the ‘007’: No more separation and nice and light, easy to handle—great job!”

Mike Blackwood, CGCSA
Black Hawk GC
Beaver Falls, PA

“The cups work great, and changing the crowns was a snap. Thank you!”

Ryan Batz, CGSA
Trump National GC
Bedington, NJ

“I love the fact that I only have to think about cups once a year when I change the crowns.”

Jim Rattigan, CGCSA
Schuylkill CC
Orwigsburg, PA

Cup setters
The 007’s unique design calls for a unique cup setter, so we now offer two distinct styles: the center cup Better Setter, which sets the cup off the ferrule socket to minimize abrasion on the crowns, and a traditional setter custom made by Bayco Golf. They both work great, it’s just a matter of soil type and personal preference.

And now flag poles
White Metal now also offers straight or tournament-style flag sticks with the ferrule and striping of your choice. Whether it be a smooth aluminum, delrin, or grooved style ferrule, we’ll make the poles to your exact specifications. The best way to combat incompatibility issues is to get your cups and poles from the same source, so if you want the best cup you might as well use the best poles, too!