BASF Professional Turf & Ornamentals
Better turf comes from better products. At BASF, we offer a comprehensive portfolio of products specifically designed to help you keep your course weed-free and disease-free, with maximum efficiency of labor and other resources.

We know your career can be made or broken out on the course. That's why BASF offers the tools you need to keep your course in the peak condition that virtually eliminates player complaints.

**Insignia® fungicide** controls an exceptionally broad spectrum of turf diseases, with long-term results. In fact, Insignia has shown excellent residual control on many turf diseases, reducing your labor and materials costs and enhancing your peace of mind. When used as directed, Insignia:
- Controls key turf diseases for up to 28 days.
- Delivers better control of the top five diseases than other strobilurins.
- Suppresses dollar spot.

**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.

**Trinity™ fungicide** delivers unbeatable value for preventive and curative control of a broad spectrum of diseases. When used as directed, Trinity:
- Controls a broad spectrum of diseases for up to 28 days including anthracnose, brown patch, take-all patch, summer patch and dollar spot.
- Can be used on greens and fairways even during summer stress periods that limit other SI (DMI) fungicides.
- Is an effective and economical tank mix partner with Insignia fungicide for improved broad spectrum control of troublesome diseases.
- Allows your turf to grow, providing better overall turf quality—with no PGR effects.
- Suppresses algae.

**Emerald® fungicide** works differently than anything else you've seen used to control dollar spot. Emerald disrupts fungal growth and development, halting disease development. Both the mode and site of action of Emerald differ from any other fungicides used to control dollar spot, which is why Emerald can effectively control pathogens that have developed resistance to other fungicides. When used as directed, Emerald:
- Provides unprecedented dollar-spot control in virtually every major turf species, and in every region of the United States.
- Delivers better dollar spot control in bentgrass than other fungicides.
- Gives superintendents a true resistance-management tool.
- Uses low use rates and provides strong residual control.

**Basagran® T/O**
Basagran® T/O post-emergent herbicide provides cost-effective control of annual and perennial nutsedge species in cool- and warm-season grasses. It also provides exceptional value for control of kyllinga and numerous broadleaf weeds on cool- and warm-season turfgrasses.

**Pendulum™ AquaCap®**
Pendulum™ AquaCap® herbicide provides economical, long-lasting, broad-spectrum, pre-emergent control of troublesome weeds including crabgrass, goosegrass, oxalis, henbit, spurge and nearly 40 other broadleaf and grassy weeds. The AquaCap formulation greatly reduces odor and staining while easing clean up.
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 and services and an ongoing commitment to the industry.

**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.

**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 foramsulfuron, Revolver's unique mode of action helps manage resistance.

**RONSTAR**

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.

**TARTAN**

Tartan fungicide delivers lush, healthy, beautiful turf along with superior, 21-day control of dollar spot, brown patch and a broad-spectrum of other diseases. Developed specifically for golf courses, Tartan contains StressGard®, which helps fight turf stress and manage turf health even in the worst summer heat. Tartan has contact and systemic action for both preventive and curative control, making it an excellent choice for fairways, greens and roughs.
The best keeps getting better!
Bernhard and Company continue to launch innovative new products to the golf course maintenance industry with several exciting additions for the Express Dual and Anglemaster family of grinders.

**New control panels**
Focusing on end-user needs, Express Dual and Anglemaster 3000 are fitted with membrane key panels making it easier and faster for maintenance teams to achieve a surgically sharp cut, resulting in consistent high quality playing surfaces.

- Worlds fastest grinders, 15 minutes floor-to-floor
- Mowers ground in-situ, no need to remove bedknives
- Comes standard with lift table (an option on Express Dual 2000)
- Backed by a 10-year warranty

**Anglemaster**
Anglemaster takes the guesswork out of finding angles—new control panels do it for you.

The Anglemaster control panel includes a digital display of grind angles, allowing for an easy comparison between the current angle on a bedknife and the desired angle to be ground.

With its fine tolerances, Anglemaster ensures that the reel and bedknife work in perfect harmony.

- Simple to set up and use
- Accurate grind to one thousandth of an inch
- Heavy, robust construction prevents flexing

**SuperBlue—The revolutionary new grind stone**
Anglemaster has a new accessory that is this season's must-have. SuperBlue grind stones are available for Anglemaster bedknife grinders and the Rotamaster 4000 rotary blade grinder.

The SuperBlue grind stone was developed with new material technology allowing it to grind the hardest bedknives cooler and without excessive wear.

Get more grinds for your money. Everyone knows Bernhard's standard Express Dual and Anglemaster stones last longer than most "will-fit" alternatives. Yet the new SuperBlue bedknife stone can last two to three times longer than even our original stones.

**America's Favorite Grinders**
Along with Express Dual and Anglemaster, the Bernhard range of grinders includes the new and improved Rotamaster 4000, Rapid Facer, Rapid Relief 1000, Blade Rite 1750 and Blade Thinning Attachment for the Express Dual Lift Table. Using the Express Dual and Anglemaster, golf course maintenance teams can produce a high quality cut, leading to superior turf and a lot of happy golfers.
For more than 70 years, Cleary has supplied the fine turf and ornamental industries with superior quality plant protection products, using the most up-to-date technology. First-hand experience with Tara Greens, our corporate-owned and maintained golf course, helps us appreciate the challenges encountered by turf and ornamental professionals.

Our technical expertise in solving problems related to diseases, insects or application needs is our outstanding service contribution to the industry. We participate nationally in numerous trade shows, education conferences and field days. Should you have a question or a problem, technical support can be obtained through our recently updated web site, the Field Technical Sales Representative nearest you or through our toll-free number. Our experts will be happy to provide the guidance necessary to answer any questions.

3336 PLUS with ClearTec™ Activation Technology™ is Cleary’s latest disease control solution for turf. 3336 PLUS is a re-engineered product that delivers enhanced efficacy and up to 50% longer-lasting disease control on golf fairways compared with 3336, all while using less active ingredient at effective use rates. Like 3336, new 3336 PLUS provides broad-spectrum disease control and is an ideal rotational or tank mix partner in a disease control program.

Tristar® 30SG Insecticide is a new water-soluble granular formulation. Tristar 30SG mixes easily and is compatible with many tank mix partners. Tristar 30SG comes packaged in 8-oz. containers that allow for multiple measurements of product, which is particularly convenient for small-volume uses. Tristar 30SG is effective against many pests, including scale, aphids, thrips and whiteflies.

26/36 is a new, premixed combination of two trusted turf and ornamental fungicides, iprodione and thiophanate methyl. The contact and systemic activity of 26/36 is effective against a broad spectrum of diseases while providing long-lasting control.

Endorse™ Translaminar Fungicide for Turf is a broad-spectrum fungicide providing excellent control of Patch diseases such as Yellow and Brown Patch. Endorse is also a great performer against Anthracnose and Fairy Ring. This unique chemistry makes Endorse a great rotational fungicide to help manage resistance. Endorse is “soft” on grasses during hot and stressful conditions. That’s because Endorse has a unique mode of action that doesn’t regulate growth of turf in the summer. Rotating Endorse into your summer fungicide program will help you manage summer stress—and control the toughest diseases on your tees, greens and fairways.

Spectro™ 90 WDG Turf & Ornamental Fungicide combines two top disease-controlling products, Cleary 3336™ and Daconil, into one easy-to-use water-dispersible granular formulation. Spectro saves you the time, trouble and worry of tank mixing. Spectro's unique formulation provides both contact and systemic activity for both Dollar Spot and other tough diseases.

Alude™ Systemic Fungicide is your solution to the prevention of Pythium and Anthracnose on fine turf. Alude is a unique, stable liquid formulation of the phosphonate class of fungicides that does not contain aluminum like some of the other pythium materials. Alude, with its rapid foliar uptake and complete systemic activity, prevents Pythium right down to the plant's roots. In fact, Alude is so fast-acting it can be applied preventively several days or even hours before a suspected outbreak of Pythium blight, saving you time and labor, but more importantly, saving your greens and tees.
Pioneering innovations that bring solutions to customers, Club Car has established a reputation as one of the most respected brands in golf. Club Car, which employs more than 1,400 people worldwide and has a presence in more than 120 countries, manufactures the industry's leading golf cars and utility vehicles. While Club Car is best known in the golf industry, where its golf cars, turf maintenance and utility vehicles are the lifeblood of course operations, the company's multi-passenger vehicles, rough-terrain and off-road utility vehicles play key roles in a number of other industries and have a growing presence among consumers. Through the Club Car Solutions Network, Club Car offers solutions in financing, GPS-based course management technology and mobile merchandising. Club Car is a division of Ingersoll Rand, a leading diversified industrial company providing products, services and integrated solutions to industries ranging from transportation and manufacturing to food retailing, construction and agriculture.

**Carryall 295:** The IntelliTrak™ 4-Wheel-Drive system makes Club Car's Carryall 295 the only utility vehicle with the ability to sense its surroundings and provide the right amount of power as driving conditions change. Attach broom, forks, bucket, mower or blade to the 295 model featuring IntelliTach™ to make this stylish vehicle even more versatile. Total vehicle capacity ranges from 1,200 to 1,700 pounds, depending on model.

**Carryall Turf 252 with IQ Plus:** Superintendents who demand a lot from a utility vehicle are turning to Club Car's latest go-anywhere, do-anything turf maintenance electric workhorse to complete jobs they once thought required the strength of gasoline-powered vehicles. Club Car's proprietary IQ Plus system delivers fast-charging capability, superior hill-climbing power and extended range so supers and their crews can get to the job site quickly and get their work done quietly. Also available with an 11.5 hp, 351 cc gas engine.

**Carryall Turf 2:** Day after day, job after job, Club Car's Carryall Turf 2 is the vehicle superintendents have counted on for years for a wide range of tasks. Now equipped with IQ Plus, the Turf 2 takes on even tougher duties and stays on the job even longer. Functional, efficient and economical, the Turf 2 is one vehicle that never goes out of style.

**Precedent:** The golf car that inspired a wave of imitators, Precedent is still the vehicle that sets the standard for performance, style and comfort. Choose either the Champion or Professional model—each is equipped with the technically advanced IQ System, which offers customized performance options and enhanced hill climbing, plus plenty of style points. The onboard computer system manages the battery charge cycle to maximize battery life and performance.

**Single-Point Watering System:** The system improves the life and performance of the vehicle's batteries because it helps keep the proper water levels in the batteries for longer periods. By decreasing the possibility of overfilling, the system also reduces the likelihood of costly acid corrosion damage.
DuPont is a science company. Founded in 1802, DuPont puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. The core values of DuPont are the cornerstone of who we are and what we stand for. They are: safety and health, environmental stewardship, highest ethical behavior, and respect for people. DuPont Professional Products brings the company’s tradition of science, innovation and safety to the turf and ornamental industry.

**DuPont™ Provaunt™ insecticide** offers an entirely new class of chemistry and a new mode of action to quickly control a wide range of caterpillars and other key pests. It stops feeding in hours—even minutes—and that stops damage to your turf and ornamentals. In addition to fast and effective control of targeted pests, Provaunt™ offers several unique features that save you time and money without compromising on performance: low application rates, reduced-risk active ingredient, and no buffer zones required.

**DuPont™ Advion® fire ant bait** gets your customers back on their turf faster—just 24 to 72 hours for total colony control. That’s because Advion® is based on a new class of chemistry powered by the MetaActive™ compound. This unique, high-consumption bait formulation quickly attracts fire ants; MetaActive™ attacks the insects’ nervous system, resulting in paralysis, then death. Advion® exhibits secondary effects when shared among fire ants, including the queen. Head-to-head trials against leading competitors prove it: Advion® averaged 98 percent control just three days after treatment.

Nothing stops late-stage mole crickets faster than **DuPont™ Advion® mole cricket bait**. The unique bait matrix, combined with the powerful, non-repellent active ingredient indoxacarb, is fast and effective against hard-to-control mole crickets when applied during spring and late summer/fall. University of Florida research shows nearly 95 percent reduction in turf damage using Advion®. Even after an unexpected rainstorm, Advion® mole cricket bait outperformed competitors.

Premier courses deserve premier treatment with **DuPont™ TranXit® herbicide**. University field trials demonstrate that it aids in spring transition and fall overseeding programs. Spring use of TranXit® controls ryegrass to give your bermudagrass the opportunity for more rapid and complete re-establishment after winter dormancy. Then, follow up with a fall application of TranXit® to control annual bluegrass prior to overseeding for the winter.
Floratine Products Group, based in Memphis, TN uses an issue-based approach to develop specific solutions to turfgrass problems. Experienced Floratine representatives use scientific analysis such as their Analync soil testing system to identify the cause for turfgrass problems. They then work side-by-side with superintendents and turf professionals to produce a targeted solution that not only alleviates the problem but also strengthens turf so it can resist stresses and stay healthy.

Floratine is known for its innovation and product solutions, and its new product offerings are no exception, providing new solutions to old problems and simpler ways to tackle turf issues.

With hot new products like the Floratine Foursome; new, improved ProteSyn with Amino-Lok technology; and the new MAP Pack system, superintendents can look to Floratine throughout the growing season to help them keep their turf strong and healthy year round.

The Floratine Foursome makes it easy for superintendents who are interested to try Floratine products on their golf course.


New and improved ProteSyn combines Amino-Lok Technology—a specific combination of amino acids sequestering nitrogen for slow linear release and key amino acids promoting the linkage process toward mature protein synthesis—with carbohydrates, proteins and essential vitamins to help plants improve photosynthetic efficiency.

ProteSyn helps superintendents battle summer heat stress by aiding and enhancing the completion of photosynthetic activity, encouraging healthy cell division, respiration and energy conservation.

The carbon-rich compounds in ProteSyn contribute directly to plant energy reserves, mature protein production, complete amino acid resources, enhanced cell division and the appropriate carbon-to-nitrogen ratio.

Carbon K utilizes Floratine's proprietary Carbon Power technology to enhance the uptake, translocation and utilization of key nutrients. Carbon K combines magnesium and a low-salt, non-burning source of potassium to ensure proper cell function and chlorophyll formation.
Since 1995, the Grigg brothers, Mark and Gary, have combined their talents and knowledge to design and market foliar and granular fertilizers with an unprecedented approach to plant growth and health. Their success is founded on a formula of consistent quality and performance of products specifically tailored for the turfgrass markets. Independent university research is paramount in their pursuit of excellence in turfgrass management.

Mark, based in Albion, ID, leads the company as president and draws on expertise stemming from many years as a business entrepreneur. Mark uses his skills in sales, marketing, management and professional relationships to help the company grow and expand its markets.

Gary, based in Ashton, ID, serves as the company's vice president and agronomist. Gary is a Certified Golf Course Superintendent and a Master Greenkeeper. Gary uses his expertise from many successful years of golf course construction, grow-in and maintenance in the R&D process. Gary spends much of his time educating and training people about the science and methodology of the company's products.

Grigg Brothers has grown to include more than 60 distributors throughout the U.S. and Canada, Puerto Rico and has a growing international presence.

**Flagship products**

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**Flagship products**

Quality, Performance and Compatibility have marked the decade long path of the flagship products of the Grigg Brothers Tru-Foliar™ line. They are:

- **Gary's Green™ 18-3-4 +Fe**
- **Tuff Turf™ 1-0-14 +Si +micros**
- **Sili-Kal B™8-0-4 +Ca +Si +B**
- **P-K Plus™ 3-7-18 +14%Phosphite +micros**
- **Ultraxep™ 5-0-3 +2%Fe +micros**
- **Nutra Green™ 5-10-5 +Fe**

Each product has a specific role to play in the nutrient management of plants; and combined in various protocols, they supply all nutrients needed for plant growth and health, including those critical for photosynthesis. They also supply a spreading agent for better leaf contact, a water buffer agent to bring pH of the mix to the optimal level for plant uptake, and biostimulants, sugars and amino acids. With only a few products in easy and simple combination, a complete and comprehensive nutrient mix can be achieved.

Grigg Brothers Tru-Foliar™ products have been specifically designed for foliar application and foliar absorption. All product formulations contain various amino acids and other facilitators that aid penetration into plant cells, effectively translocate to sites of action, and provide all or most of the nutrients needed by plants. This unique and proprietary chelation of minerals provides a tremendous advantage. The selection of natural facilitating compounds is mineral specific, i.e. no two formulas are alike and are optimal for that mineral. They function metabolically and are naturally occurring in the plant. As a combined result, the products are highly compatible (precipitation does not occur when mixed together).

Additionally, Grigg Brothers also matches the best form of a nutrient with specific chelating agents in combination for the most reliable performance.

**GreenSpec™ line**

The GreenSpec™ homogeneous granular line was developed in response to customers who requested dry fertilizers that would complement the use of the Tru-Foliar™ line. The GreenSpec™ line is anchored by:

- **7-7-7 Seven Iron™**
- **16-4-8 Turf Rally™**
- **8-4-16 Endurance™**
- **10-2-4 All Natural Organic ZeoPro™**

All GreenSpec™ products have exceptional nutrient uptake and provide real improvements in soil structure. Each ingredient in the GreenSpec™ line has a purpose as either a plant nutrient, or as an ingredient for soil improvement. They contain no inert fillers of any kind. At the heart of the GreenSpec™ fertilizer line lies a proprietary protein technology and all-natural "Signaling Molecules" (glycoprotein elicitors). GreenSpec™ signaling molecules are very similar to the signaling molecules produced by a plant's own roots.

Rounding out the GreenSpec™ line is ZeoPro™, a zeolite (clinoptilolite) soil amendment. This naturally occurring mineral with microscopic pores is impregnated with a nutrient package developed and produced under patents and exclusive license from NASA. After years of research, NASA found its high cation exchange capacity (CEC), high porosity, favorable moisture retention, and rigid structure make it a superior plant growth medium. Other researchers have reported benefits in water use efficiency, environment leachate reductions, and plant fertility. A zeolite amendment without the nutrient package is also available.

Grigg Brothers products provide a wide array of quality, reliable, and easy-to-use products to turfgrass, sport fields, and landscape professionals worldwide.
At JRM, Inc., our objective is to provide the industry with the very finest products possible. Based just outside Winston Salem, NC, JRM is committed to continually challenge the current technology, quality and design of golf course maintenance industry products. Now JRM is focusing that same determination and precision on our Bedknife and Quad lines.

**Superior Bedknives**

The JRM Bedknife is the newest and hottest product at JRM. Our catalog offers a comprehensive line of high quality Bedknives for Toro, Jacobsen and John Deere greens mowers. Each Bedknife is made of top-quality non-standard alloy steel for superior performance. JRM's unique patented coining process gives each Bedknife maximum strength with little risk of splitting or cracking. Bedknife features include:

- True to .004-in.
- Less reel wear
- Less mounting time
- No interference with molecular alignment for added strength
- Process compresses metal instead of cutting away creating a stronger Bedknife

JRM Bedknife manufacturing processes produce a Bedknife that will replace and outperform OEM products.

**JRM—Family of Quads**

Quad tines are the least invasive and ideal for use during times of stress or for a short grow-in period. JRM offers standard, Super and Magnum Quad coring tines. All quads are milled from a single rod and manufactured with an increased wall thickness for durability and long life.

**JRM—Home of the “Dillennium™ Tine”**

Dillennium™ tips maximize the value of the quad tines as with all JRM Dillennium™ products. This tip offers consistent core depth and far superior longevity. Magnum Quads fill the need for a more robust coring tine with a slightly larger core than standard tines. The Quad block allows the option of close or loosely spaced tines depending on the needs of a particular green.
Jacklin Seed Company is one of the world's largest producers, marketers and breeders of turf, forage and amenity grasses. Jacklin has been exporting turfgrass seed to foreign countries since 1968, and provides more than 250 varieties of seed to over 120 companies in 54 countries.

Involved in all aspects of both cool- and warm-season turfgrass seed research, production, processing and marketing, Jacklin Seed products are well-known throughout the world. Most proprietary varieties are found planted on golf courses worldwide. Jacklin also provides seed for parks, athletic fields and home lawns.

L-93 creeping bentgrass is selected for greens, tees and fairways on top golf courses around the world. L-93 seedstock is controlled by Jacklin Seed, where certified seedlots undergo rigorous testing to verify its world-renowned performance and quality. For dark color, density, aggressiveness and dollar-spot resistance, don't settle for a poor substitution when you can get the original L-93 creeping bentgrass.

Solar Eclipse (J-2399) Kentucky bluegrass will be commercially introduced in fall 2007. Ranked No. 1 for overall turf quality at nationally conducted trials, Solar Eclipse has been in the top 25% more times than any other of the 110 varieties. Solar Eclipse is a proven all-around all star, performing in a wide range of areas such as color, turf quality, leaf texture, disease resistance and spring green-up.

Revenge GLX perennial ryegrass was specifically selected for its resistance to gray leaf spot. It is the most resistant Jacklin variety available, earning it the "GLX" designation. Revenge GLX has the fine leaf texture and dark green color that highlights any turf setting. It demonstrates great year-round density and maintains a high amount of living ground cover.

Inferno turf type tall fescue blazes into the market with superior quality, dark green color, good resistance to disease, semi-dwarf stature, high turf density and medium maturity. It ranked No. 1 in national trials for overall turf quality. Approximately 80% of the Inferno breeder plants were classified as being infected with endophyte for increased persistence and insect resistance.

T-1 creeping bentgrass for greens, tees and fairways has taken the world by storm with its amazing aggressiveness and dark green color. Jacklin Seed tests every bent strain in its breeding program against Poa annua, and any bent that can't hold up against Poa is discarded. All plants that went into T-1 excelled at keeping Poa at bay. In fact, they made visible gains against Poa every year.

Alpha creeping bentgrass retains ground coverage under some incredibly tough growing conditions, making it an exceptional choice for your interseeding program. With its exceptional shoot density, Alpha sets a new standard for putting green turf—truer putting, more fullness and a more visually appealing surface. Find out more about successful interseeding of bentgrass into Poa annua without shutting down play from Jacklin Research by visiting www.jacklin.com.