To compete effectively, today’s superintendents need dependable information about their golf courses and irrigation systems. Landlogic’s revolutionary approach to mapping allows you to create highly accurate GPS maps at a fraction of the cost, and our facility management system gives you the power to use the information in amazing ways.

Come discover how a true picture of your golf course can improve your budgeting, agronomy and irrigation programs. Our GPS maps are compatible with all central irrigation controllers and are accepted by local, state and federal agencies for drought contingency planning.

Nothing affects your irrigation efficiency like poor head spacing. Our system automatically triangulates heads so you can easily identify and resolve spacing problems. We help you figure out the optimal location for a head before you start digging.

Increase your chance for successful product applications by calculating the square footage of any feature on your golf course. Our interactive map allows you to draw custom areas so you can keep track of diseases, insects, weeds, Poa, or just about anything else that invades your golf course.

Our Tines Make the Difference

- Manage your seasonal and weather-related conditions with one Advanced Aeration System.
- In the early spring, establish your percolation rates in the fairways and roughs with the AerWay Shattertine.
- When the course is in regular use, maintain infiltration rates, without interrupting play. Use the Sportstine on fairways and tees, and use the Finetine on greens.
- When topdressing and overseeding, use the coring tine for fast, efficient soil preparation.

AerWay’s Advanced Aeration Systems – one frame – with the tines that you need all season long.
LebanonTurf is the professional division of Lebanon Seaboard Corp, a privately held company that has been in business for more than 50 years. LebanonTurf is highly focused on useful innovation and has introduced many new products to the industry in recent years. These products include a variety of fertilizers, outstanding seed varieties, and turf establishment mulch.

Recently, Lebanon Seaboard Corp. was awarded U.S. patents for its Composite Technology Granulation Process, Expo nitrogen technology, and MESA nitrogen technology. Research is ongoing to discover and commercialize new seed varieties that will offer improved performance.

LebanonTurf offers different fertilizer lines which feature IBDU® slow-release nitrogen, Meth-Ex 40® methylene urea complex, MESA slow release Meth-EX sulfate of ammonium complex, or Expo extended release potassium sulfate.

LebanonTurf's PERK is a granular form of controlled-release iron for green without growth. LebanonTurf has developed an excellent line of grass seed varieties with high NTEP performance ratings. These include perennial ryegrasses, tall fescues, Chewings and hard fescues, Kentucky bluegrasses, and just recently released, Independence Creeping Bentgrass. Patented PennMulch Seed Accelerator is a perfect companion for any seed variety, as it improves germination, retains moisture, and eliminates weed seeds introduced with other mulches. LebanonTurf is proud to be known for quality and practical innovation.

Products
So what exactly is Expo? In the simplest of terms, Expo is a cost-effective, controlled-release source of potassium sulfate, which extends the agronomic benefits of potash. It's the latest entry in LebanonTurf's stable of practical innovations.

Leaching studies have demonstrated that the potash in Expo requires significantly more water to be completely leached than does the K in 'regular' sulfate of potash. Columns containing 85 percent sand and 15 percent peat had equal amounts of potash from sulfate of potash and from Expo placed on the top of the soil layer. The equivalent of one inch of water was applied and the leachate through the bottom of the tube was analyzed for potassium. When the leaching stopped, another inch of water was applied and the process was repeated until all the potash was leached from both columns.

This chart shows how Expo SGN 145 is much slower to release than regular sulfate of potash under identical conditions. This means that Expo is clearly much more efficient in delivering its potash than regular sulfate of potash, which is the potash source of choice in most fertilizers which are considered high quality and intended for use on highly-maintained turf. This potash efficiency will definitely be a benefit to the plant. Expo is available as 20-0-25 in either SGN 145 or SGN 195 sizing. It is also available in selected grades within LebanonTurf's NX-PRO and Par Ex product lines. For additional detail, please visit our Web site at www.LebanonTurf.com.
LESCO Inc.
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www.lesco.com

LESCO is the nation's leading manufacturer and distributor of a broad line of lawn care, golf course and pest control products for the $7.9 billion professional lawn and golf industry. LESCO is a vertically integrated company and has pioneered a uniquely effective sales and distribution method allowing them to market directly to more than 100,000 customers. Customers include lawn care operators, turf maintenance companies, golf courses, athletic facilities, theme parks, resort and recreation complexes, schools, universities, military installations, nurseries, industrial complexes and cemeteries. LESCO has more than 240 LESCO Service Centers® and a fleet of 72 Stores-on-Wheels®, which call directly on golf courses. To further support their customers, LESCO has a national account team along with sales representatives.

Par Aide Products
LESCO and Par Aide Products Co., a supplier of golf course accessories, announce that LESCO has entered into an agreement to distribute Par Aide branded golf accessories through LESCO's Stores-on-Wheels and Service Centers. Each Store-on-Wheels and Service Center will modify its golf accessory displays to promote Par Aide branded products. LESCO expects to complete its transition by the end of the year.

Ground Tamer
Ground Tamer utility vehicles combine all-terrain ruggedness with unprecedented comfort. Ground Tamer GT642 features a unique six-wheel independent suspension, 4WD versatility, and two advanced ergonomic seats. It's powered by a Honda 20 HP engine combined with a 5-speed, continuous variable torque (CVT) transmission with convenient one-pedal control. The Select-A-Trac feature lets the operator drive in 2WD or lock the hubs for rugged 4WD traction. The Ground Tamer GT642 can haul 1,400 pounds including driver and passenger, and has a towing capacity of 1,200 pounds.

18 Plus Fungicide
18 Plus Fungicide contains the time-proven active ingredient iprodione. Offering two-way protection, it prevents disease from occurring by inhibiting spore germination and prevents further disease development if organisms have already germinated. Attributes include: economical prevention and control of brown patch and dollar spot as well as large patch, Fusarium blight, Fusarium patch, Corticum red thread, leaf spots, necrotic ring spot, pink and gray snow mold; long residual extends time between applications; convenient liquid formulation that is easy to measure and mix; the product is ideal for use on golf courses, commercial sites, athletic fields, cemeteries and parks; is suitable for use on both cool and warm-season turfgrasses as well as ornamentals; can be tank mixed with other fungicides to extend and broaden disease control; and is packaged in a 2.5-gallon container (2.5-gal. x 2 case). It is not labeled for use on residential properties.

Prosecutor Pro
Prosecutor Pro contains 41 percent glyphosate for non-selective control of weeds and other unwanted vegetation. This fast-acting systemic offers many benefits: patented surfactant system from Monsanto makes product rain-fast within one hour of application; very broad spectrum effectiveness controls brush, vines and woody weed species; can be tank mixed with pre-emergent herbicides to prevent annual weed germination; can be tank mixed with Tracker® Max Spray Dye Indicator to ensure accurate application; no soil residual or root uptake; treated areas can be reseeded after seven days; mixes easily with water and requires minimal tank agitation.

Spectator Turf & Ornamental Fungicide
Spectator Turf & Ornamental Fungicide delivers the proven effectiveness of propiconazole at a value-oriented price. This new systemic fungicide provides: preventive and curative control of 19 turfgrass diseases; effectiveness against more than 30 landscape ornamental fungi; high concentration formulation reduces storage, rinsing and disposal; tank mix compatibility with other fungicides and also insecticides; can be applied to all turfgrass species on all sites; 2 x 2-gallon case can treat more than 32 acres.

Turfgrass seed
Selected varieties of turfgrass seed include: Princeville, a top performing bentgrass with quick establishment, upright growth with demonstrated consistent high quality turf for fairways, tees, and greens; Grand Prix, with excellent heat tolerance, disease resistance and seedling vigor for greens; and Penn G-2 Creeping Bentgrass, featured at Pinehurst and the No. 2 Course, site of the 1999 US Open Golf Championship. Excellent disease resistance, heat tolerance, deep root system and unsurpassed wear tolerance.

www.golfdom.com
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: cytokines (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.
- Using GroWin to reduce the amount of NPK applied reduces the excess nutrients in the plant and soil which can be detrimental.

SEABLEND 12-4-5 AND 12-1-12
- Fantastic color response and consistent release from slow-release synthetic and organic.
- Micro-greens grade particle size provides easy spreadability and dispersion with irrigation, so roller pickup is eliminated.
- Feeds the soil with calcium, plant sugars and high-quality organic ingredients.

Discussion
SeaBlend is a high quality organic granular fertilizer, derived from the safest and best sources— including marine shells, seaplant extract, sunflower hull ash, Epsom salts, and kelp, fish, crab, lobster, and alfalfa meals. It contains no unsafe manures or bone meals. The sources of SeaBlend provide the turf with readily available major and minor nutrients and nourish the soil with a beneficial ratio of Calcium and Magnesium.

- The marine organics are high in chitin and calcium. Chitin in the soil has been shown to provide an environment that is inhospitable to nematodes.
- SeaBlend is unique among organic fertilizers in its ability to be dispersed by water, and the mower rollers will not pick it up. With an SGN of 100-105, SeaBlend is perfect for newer, denser turf varieties.

BLAZON
- Gives you precision in applying sensitive and expensive chemicals.
- Visible, yet temporary.
- Nonstaining; washes off skin, clothing, and equipment easily.

Discussion
Blazon is "the professional's SPI." It provides precision in important spray applications to closely mowed turf, especially with sensitive and/or expensive chemical applications, when misses or overlaps can be detrimental. Although highly visible, Blazon is the only SPI that washes off easily and won’t stain skin and clothing. Blazon is available in blue or green.
Parkway Research is a basic formulator and producer of Turf Specialty Chemicals and Fertilizers. Parkway's best-known products are the Manni-Plex Foliar Micronutrients, Big Foot Spray Colorants, Consan Turf Fungicide and Algaecide, Neo Tec Nematicides, and its Noculate Greens Grade Fertilizers. All of Parkway's products are guaranteed to deliver unparalleled results to the turfgrass professional. Parkway is now a division of Brandt Consolidated and is based in Houston, Texas, with distribution centers all over America, Europe, Asia and Australia. For more information about Parkway, Brandt or its products, write to Parkway at info@parkwayresearch.com or call 281-442-9821 x105.

Manni-Plex: The Micronutrient Superhighway
Not a micronutrient or even a standard complex or chelate, Manni-Plex is a delivery system designed to deliver micronutrients to the Growth Forming Locations of the plant. Unlike conventional micronutrient products, Manni-Plex is produced from a unique sugar alcohol blend that provides four significant advantages: (1) spreading and adhesion agents for enhanced foliar contact; (2) Manni-Plex is the smallest molecular size of any micronutrient carrier, insuring more initial uptake; (3) once taken into the plant, Manni-Plex is the only delivery system that directly feeds nutrients to the phloem and xylem; (4) great for use with post applied herbicides.

Indicate 5
Indicate 5 is an adjuvant designed to adjust pH in water so that maximum efficacy of foliar sprays can be realized. Indicate 5 will acidify all alkaline waters as well as neutralize the dissolved salts present in hard waters. Mixing Indicate 5 into your spray solution requires no lab tests, litmus paper, or guesswork. Indicate 5 turns the solution pink when the optimum pH has been achieved. Features: acidifies; indicates pH; buffers; wets, spreads, and penetrates; aids compatibility and reduces volatility.

Saf-T-Side
The proven leader in pesticidal strength and reliability, Saf-T-Side is a concentrate of pre-emulsified highly refined, high paraffinic, low aromatic oil, ideal for safe and effective pest and disease control in a broad range of applications. Saf-T-Side Spray Oil Emulsion is EPA registered, and meets and even exceeds most worldwide standards for spray oils. Features: uniform coverage to smother pests without causing burn or stress to plants; effective in high or low pressure applications; excellent compatibility with pesticides labeled for use with oil.
IVI-GOLF manufactures and distributes innovative products for golf course maintenance. They have relied on their erosion control experience to launch and develop their cornerstone product – SANDTRAPPER, an advanced polymer designed specifically for lining bunkers. Their close working relationships with industry professionals have guided them to their newest product – THE TRAPPER, a unique entry into the bunker rake market. Rounding out the group of innovative products is the V-STAPLE, a high-performance fastener for erosion control products. This trio of products is quickly putting IVI-GOLF at the forefront of proven, innovative maintenance products.

Product Line Up
The core IVI-GOLF product sales revolve around SANDTRAPPER in its two variations – SANDTRAPPER I and SANDTRAPPER II. The first is designed with a tight matrix for shallow bunker grades and bowls. The latter has been engineered with a more open matrix for severe and demanding applications. SANDTRAPPER II is aggressively marketed for most applications with a number of facilities implementing both products in a combined use.

The Trapper bunker rake is designed with special tine shapes and patterns. This patented rake solves the problem of gouging and scraping of the bunker base. Many mechanized rakes and manual raking processes cause damage to bunker liners. THE TRAPPER addresses this problem by offering a hand version (with heavy-duty polyethylene head) and a machine version (with a special composite). Both are competitively priced and offer solid performance against other products.

How often has the old sod staple given you grief? IVI-GOLF has developed the V-STAPLE to improve holding power by more than 200 percent yet reduce the "benders" through its staggered prong design. Available in a variety of widths and gauges, this staple will soon become the "new standard" for securing materials around the golf course.
Tee-2-Green: Superior Source of Quality Seed

Tee-2-Green manufactures, markets and distributes Penn bentgrasses, the highest quality seed available for golf course tees, fairways and greens. All of Tee-2-Green's Penn Pals have been developed for disease resistance, aggressiveness, low mowing properties and overall appearance and color. The products and their select consortium of Penn bent growers are subject to rigid production and certification standards governed by breeder Dr. Joe Duich and Oregon seed certification officials. Seed goes through a rigorous process of cleaning and certification testing before being shipped for fall seeding. Scrupulous seed analysis awards the purest seed (98 percent or better) the Putting Green Quality tag.

Penn A-4: Requires less fertilizer, less water and minimal fungicides

In a four-year on-site putting green test conducted by NTEP, Penn A-4 was the most consistent performer in the data averaged from 16 locations. Penn A-4 was rated the highest overall for turf quality, the highest in spring, summer and fall density, and the best for crowding out Poa annua. It tolerates low mowing heights and temperature variations, and was bred for disease resistance.

Penncross: Able to perform under a wide range of conditions

Penncross is aggressive, vigorous and wear tolerant – perfect for greens, tees and fairways. It performs well under a wide range of conditions, making it adaptable worldwide. Golf course architects specify Penncross for areas of extreme cold and heat, and Penncross can survive humidity where bermudagrass is the standard. Today, the sun never sets on a Penncross green. It remains the most popular bentgrass in the world and golfers everywhere can enjoy the same consistent quality that Penncross provides.

PennLinks: An upright growing, virtually grainless putting surface

Developed by Dr. Joe Duich exclusively for putting greens, PennLinks provides a virtually grainless putting surface and performs predictably over a broad range of climates. PennLinks was released to the market by Penn State in 1986 only after years of testing and evaluation by more than 100 professionals, predominantly superintendents, in all geographic areas of the U.S. and Canada. Today, improved PennLinks II is available to superintendents in limited quantities.

Seaside II: Bred for salt and drought tolerance

Seaside II has a medium fine texture and a lovely bright green color. It has excellent tolerance for both salt and drought, making it the perfect bentgrass for golf course greens and fairways located on or near the ocean, and in the desert where effluent water is often used for irrigation. Like the Penn A's and G's, Seaside II tolerates extremes in temperature and humidity, resists disease and stands up to wear, so it's easy and less expensive to maintain.

Contacts:
Bill Rose, President
Rick Elyea, Director of Golf
Charlotte Flowers, Manager

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Trion Lifts developed the first lift designed specifically for turf equipment in 1991 and is a recognized leader in the turf maintenance industry. Trion has always focused its attention on golf course maintenance, which has resulted in the development of an integrated system of products that increase efficiency and safety at golf maintenance facilities worldwide.

**ARC150Q**

The newest addition to Trion's professional maintenance system is the RC1500 Reel Conditioner, a revolutionary product that uses all new technology to perform five essential functions of cutting unit maintenance. It sharpens reels with a relief and sharpens bedknives (both top and face), plus it measures height of cut and roller parallelism. What's more, it does all these functions while the reels are still attached to the mower!

Using a simple touch-screen computer, technicians direct the machine to perform one or more functions while the mower is raised on the lift, getting incredibly precise results in just a fraction of the time.

**Bay Buddy**

Trion is pleased to add Bay Buddy by Enviro-Quip to its line of professional maintenance tools. Bay Buddy is a large capacity, multi-function fluids management system that includes an oil drain with pressurized cleaner sprayer and air-discharge waste oil as well as plenty of space to keep tools and fluids right at your fingertips.
TrapMaster™ Products offers an innovative solution to constant bunker maintenance. Headquartered in Wrens, Ga., TrapMaster services golf courses all over the country with quality products proven to perform.

**TrapMaster Erosion Control Fabric**

TrapMaster erosion control fabric is a thick, nonwoven polyester blanket that absorbs and holds sand in place like a powerful magnet even on 60-degree 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 into drains, and prevents dirt and pebbles from migrating upward and contaminating the sand layer. TrapMaster is an easy-to-install time- and labor-saving approach to bunker maintenance. The patent-pending, two-layer TrapMaster design helps:

- keep sand on steep bunker faces — up to 60 degrees;
- prevent erosion and washout;
- prevent contamination from below; and
- greatly minimize bunker maintenance costs!

**With TrapMaster, you'll save, save, SAVE!**

- Save time, money and labor after every rain by reducing the need for bunker restoration.
- Save thousands of dollars in maintenance costs for sand and sand hauling every few years because of debris 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!

TrapMaster helps you master beautiful bunkers with fluffy sand and high walls — all at lower labor and material costs!

For more information, contact:
Terry Grosch,
TrapMaster's Director of Marketing, at 866-273-9280.
What started out as a great idea to roll putting greens has expanded into a multiline greens maintenance company. Turfline Inc. developed and patented the idea of a vibrating greens roller in 1992 that fits all triplex greensmowers. In 1998, a patent was awarded for the Power Roller™, a walking vibratory roller with a Honda engine. The new and latest model of the triplex vibratory rollers, marketed as the universal design, was patented in 2000. The universal design keeps the product from becoming obsolete if you change your mower brands or models, saving your budget dollars.

Turfline Inc. also is the North America distributor for the Thatch-Away SUPA System. The world’s only greens maintenance system with seven different interchangeable cassettes and only one chassis that is also universal in design and fits all triplex mowers. All of Turfline’s products are available for demonstration on your golf course and are used by golf courses all over the world. In 2003, all products come with an extended limited warranty of two years.

True-Surface Greens Rolling System
This system is not just a roller, but a maintenance tool. Uses are:
• No. 1 — Topdressing dispersion.
• No. 2 — Grow-in of new greens.
• No. 3 — All greens can be consistent within 2 to 4 inches of ball roll distance. No other deadweight roller can provide this consistency to all your greens; vibratory rollers can.
• No. 4 — Other uses are seeding, sodding and aeration/top-dressing. The vibratory action helps with the bridging of the top-dressing in the aeration holes plus smooths the surface for a True Surface®. The universal design enables just one set of rollers to be quickly converted to fit all popular greensmowers. The vibratory rollers require no special training or equipment, making the vibratory greens roller an easy addition to your budget. Don’t forget topdressing dispersion — another time and money saver when it comes to keeping bed-knives sharpened.

Thatch-Away SUPA System
The revolutionary Thatch-Away SUPA System will operate seven different cassettes to handle those jobs you never had time for before, with the speed and ease that your triplex gives you. The cassettes include the verticutter, scarifier, groover, deep slicer, greens spiker, star slitter and rotary brush. No tools are needed to switch cassettes. Simply undo the latches and swap cassettes in seconds.

The SUPA System cassettes can be added as your budget allows. The more cassettes you purchase, the lower your per unit cost becomes because the one chassis of the SUPA System is universal for all cassettes and all greensmowers. The Thatch-Away SUPA System can also cut excess labor costs from your budget. A job that used to be a several person job can now be done by one person with better results. The results and long-run cost savings make the Thatch-Away SUPA System the best thing you will spend money on next year. Make us prove it! Call for a demonstration.