

Par Ex® introduces a family of mid-sized fertilizer grades designed to meet the needs of today's closely-mowed turf.



Par Ex® and IBDU® are registered trademarks of Vigoro Industries, Inc.

WHY MID-SIZE GRADES FOR CLOSELY-MOWED TURF?

BECAUSE fairway-sized particles are too large to apply to closely-mowed turf.

BECAUSE greens-sized products can be difficult to spread.

BECAUSE IBDU® is the most reliable, most consistent source of slow-release nitrogen.

For more information contact:
Tom Skinner
Specialty Products
Territory Manager
319/524-8912

RAIN BIRD®
Keeping the golf world greener.™

EAGLE SERIES ROTORS

- Closed Case
- Water-Lubricated Drive
- 3.25-inch (8.3 cm) Pop-up Height
- Top-serviceable Design



S P R I N K L E R



I R R I G A T I O N

East Peoria 800/373-4120
Addison 708/543-0351
Rock Island 309/786-4100



BIO-TRANS 221

Enter the
"Organic Gateway"
to the 21st Century

Growers of all types are discovering the advantages of **Bio-Trans 221**.

- Aids in relieving soil compaction
- Promotes breakdown of thatch
- Enhances release of tied-up soil nutrients

You will see the results!

3SI SOUTHERN
SPECIALTY
SEEDS, INC.
P.O. Box 5197
Oakbrook, IL 60522
800-240-0243



Distributed by:
Arthur Clesen, Inc.
543 Diens Drive
Wheeling, IL 60090
(708) 537-2177

(fax) (708) 537-2210

A Commitment to Quality Turf Care Products For You - The Turf Care Professional



Your Tee Time Distributor Offers You:

- Greens and Fairway Fertilizers with Nutralene
- Quality Sulfur Coated Urea Fertilizer
- Combination Products
- Granular Insecticides
- Granular Fungicides



Lawn Fertilizer Group
P.O. Box 119
Maumee, Ohio 43537
1 (800) 225-2639

For additional product
information, contact
Craig Filley 1 (800) 225-2639

CANNON TURF SUPPLY, INC.

5104 Thatcher Rd.
Downers Grove, IL 60515

**Where Success Is Based on a
Commitment to People . . .**

STOCKING A COMPLETE LINE OF PESTICIDES, FERTILIZERS,
GRASS SEED AND ACCESSORIES FOR THE TURF PROFESSIONAL

Quality Products for the Turfgrass Professional
TOLL FREE 800-457-7322

(708) 852-3200
Fax (708) 852-3230

Poa – July 13, 1995

by Cathy Miles Ralston

No doubt about it: the summer of '95 will be remembered as a series of scorching, humid days and warm, muggy nights.

Extreme conditions call for extreme coping measures. Like superintendents area-wide, Dan Dinelli of Glenview's North Shore Country Club has been struggling not only to keep the golf course green, but also in the case of certain greens to keep the turf alive!

Lush and venerable North Shore C.C. was built in 1920s, which has given the renegade weed poa annua (annual bluegrass) ample opportunity to infiltrate the course's putting surfaces. As those in the golf industry know all too well, Poa annua is opportunistic; whenever a ball mark, divot or spike mark injures the existing turf — creeping bentgrass, in the case of North Shore's greens — poa swoops in. Dan estimates that many of North Shore's greens are 50 percent poa annua. A few of the oldest greens, which haven't been regrassed in more than 70 years, may be as much as 90 percent infested with poa.

Herein lies the problem, the quandary that afflicts public courses and private clubs, older, established venues and new facilities alike. Poa annua is a viable playing surface; a plant pathologist, writing in *Weeds Trees & Turf*, observed that "under close cut, irrigated turfgrass cultural conditions, it is capable of forming a dense, uniform quality of turf." Indeed, most golfers can't distinguish between poa annua and creeping bent — both cool season turfgrasses — unless variances (in coloration, texture, etc.) are pointed out to them. So what, golfers may ask, is the harm in letting poa annua prevail?

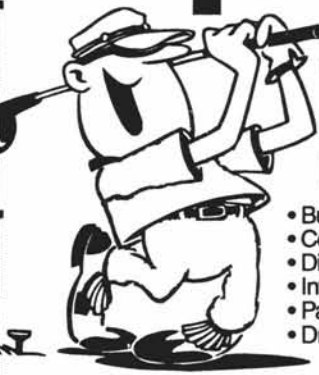
The answer: poa annua is extremely vulnerable to heat, much more so than creeping bent. When soil temperatures reach 104 degrees, annual bluegrass dies. The dose-time principle applies here; as Dan explains, it's not only the magnitude of the heat, but "how hot for how long". Humidity exacerbates the heat factor, inhibiting transpiration, the mechanism by which plants cool themselves. Additional stressors inflicted upon golf course turfgrasses, such as foot traffic, low cutting heights and impaired air movement over grassy surfaces, further exploit Poa annua's inherent vulnerability.

July 13, the pinnacle of the summer's most brutal heat wave, compelled Chicagoland meteorologists to rewrite the record books. Air temperatures soared as high as 106 degrees; the heat index hovered in the 120s. Statistics generated by the weather station at North Shore — one of only two golf courses in the area with this technology — are equally impressive and, given Poa annua's prevalence and susceptibility to heat, downright scary. The following is an excerpt from the data



FORE PUTT

great service...



Your Landscape Needs In Our Hands!

- Bulk Stone, Mulch & Topsoil
- Central Sod
- Diamond Retaining Walls
- Interlock Concrete Curb
- PaveLoc Pavers
- Drain Tile & Accessories

ASPEN VALLEY

LANDSCAPE SUPPLY INC

Chuck Chism: 37W305 Rt. 72 • West Dundee, IL • 708/426-0072
Shara Weaver: 13931 Bell Rd. • Lockport, IL • 708/301-0703

TRUE-SURFACE®

VIBRATORY GREENS ROLLING SYSTEM



"We originally bought the True-Surface vibratory greens roller to help manage green speed. However, we have found other uses, my favorite being after topdressing. The vibration helps to settle the sand deep in the turf canopy. Golfers enjoy the true, firm, cleaner putting surface. My mechanic is happy, spending less time sharpening the mowers. It's a win-win situation."

Dan Dinelli, Superintendent Grounds,
North Shore Country Club, Glenview, IL

BOJO TURF SUPPLY, INC.

815 469-6841

Distributor for Turfline, Inc.



LANDSCAPE CONSTRUCTION

HYDROSEEDING & HYDROMULCHING

AS WELL AS ...
SOD-RESTORATION-PLANT INSTALLATION-
RETAINING WALLS-PAVERS-DESIGN

610 W. Liberty St.
Wauconda, IL 60084

BUS: (708) 526-4574
FAX: (708) 526-4580

"Golf Course Work a Specialty"

LEMONT PAVING CO.

Lemont, IL 60439

Jim, Tracy Murphy

(708) 257-6701

KOELPER BROS.

Golf Course Building and Remodeling

444 E. Mors Avenue

Wheeling, Illinois 60090

FAX 708-541-4619

708-438-7881

708-541-9182

DANIEL I. KOELPER

VICTOR C. KOELPER

Blows the competition away!



Air Compressors



- Rent by the day, week, month
- 100 - 150 PSI, 100 CFM - 1600 CFM
- CAT® diesel engine powered

1-800-RENT-121

Patten
POWER SYSTEMS



615 W. Lake Street • Elmhurst, IL 60126

Lake Cook FS, We've Changed Our Name...



But Not Our Commitments To Top Quality Products And Outstanding Service

- Pond Aerator - Kasco
- Dakota - Reed Sedge Peat
- Top Dressing Mix
- Erosion Control Mats
- No Mix (Expedite)
- Roots Growth Enhancer
- Milorganite and Blends
- Custom Bagged and Bulk Fertilizer
- Country Club Fertilizer

- Shaw's Fertilizer
- Plant Marvel/Water Solubles
- Nitroform - Nutralene
- GSL Sulfate of Potash
- Monsanto
- PBI Gordon
- Precision
- Dow Elanco
- FS Turf Seed

Wauconda, IL
27310 W. Case Rd.
Tel 708-526-0007
Fax 708-526-4813
1-800-300-4887

Tinley Park, IL
6730 South Street
Tel 708-532-4723
Fax 708-532-9268

Kansasville, WI
4303 S. Beaumont
Tel 414-878-2048
Fax 414-878-0181
1-800-528-4584

(Poa — July 13, 1995 continued)

gathered July 13. Note that the weather station calculates air temperature at six inches above the turf; soil temperatures come from a probe buried two inches below the surface of #4 green.

Time	Air Temp	Soil Temp
11:36 am	96.31	97.02
12:36 pm	98.44	99.86
1:12 pm	99.86	100.58
1:36 pm	100.58	101.28
2:12 pm	101.28	101.98
2:48 pm	102.34	102.34
3:00 pm	102.34	103.06!!!
3:12 pm	103.06	103.06
3:48 pm	102.34	102.34
4:12 pm	102.34	101.64
4:48 pm	101.64	100.92
5:36 pm	98.08	100.22
6:00 pm	96.31	99.16

As the table indicates, soil temperatures peaked at 103.06, #4 green experienced four and a half hours with soil temps over 100 degrees. Dan hypothesizes that conditions on #7, #17 and #18 greens were even more devastating. These greens face east down open fairways and soak up hours of direct morning sunlight. Aesthetically pleasing but functionally detrimental stands of mature trees frame the greens at issue, buffering them from summer's predominant south to southwest breezes, thereby creating a "dead air" phenomenon.

Dan explains that most of the destruction wrought by this summer's excruciating heat is not visible to golfers. If the greens at North Shore C.C., or at any given golf course in Chicagoland, appear healthy, if not somewhat parched or stressed, consider it illusory. Poa annua's root complex is the most telling piece of the puzzle. When soil temperatures climb as high as they have this summer, poa annua's roots die back. The few remaining roots scarcely penetrate the surface soil. Obviously, the plants lose access to vital stores of moisture. Over-irrigating turf is no solution; excess water conducts heat and fosters disease. At North Shore, Dan has instituted a regimen of watering little (in terms of sheer volume) and often. His other guiding principles for care of poa annua-infused greens:

- Forego grooming. Normally his crews groom every time they mow.
- Skip double-cutting and roll instead.
- Mow clean-up pass only every other time, to avoid wear at the fringe.
- Use lighter mowers.
- Raise cutting height (North Shore went from .125 to .130).
- Install generator-powered fans at perimeter of greens lacking air movement and shade.
- Verti-drain particularly vulnerable greens.
- Trim back overgrown foliage that fosters "dead air" pockets.

(continued bottom page 18)

COMPLETE LIGHTNING PROTECTION SERVICE
UL LISTED INSTALLER AND MANUFACTURER
SHELTER PROTECTION

TREE PROTECTION

**SURGE SUPPRESSION FOR PUMPS
AND SPRINKLER SYSTEMS**



HARGER
LIGHTNING PROTECTION, INC.

1066 CAMPUS DRIVE, MUNDELEIN, ILLINOIS 60060
P.O. BOX 1000, LIBERTYVILLE, ILLINOIS 60048

(708) 362-4848

FACSIMILE (708) 362-3519

**Please Support
Our Advertisers**



BOJO

Turf Supply Co., Inc.

- Naiad + Aqua Gro
- Panasea Plus
- Chemicals
- Sand Aid
- Fertilizers
- Thatch X
- Terra Green
- Pinhigh Sharpening Compound
- Chipco
- Tingley Boots & Raingear
- Flexogen Hose
- Terra Green - OilDri

Excellent Service at Reasonable Prices

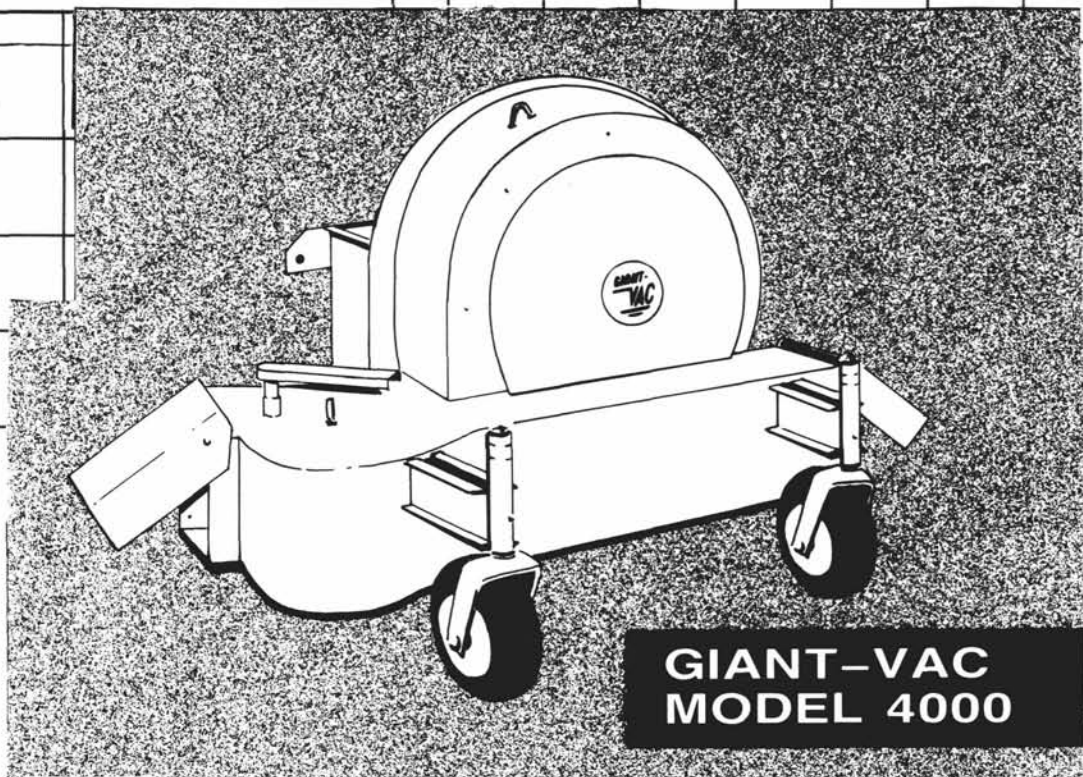
24356 HARVEST HILLS RD., • FRANKFORT, IL 60423

800-732-9401

815-469-6841

Fax: 815-469-8248

Product Profile:



- EFFICIENT
- RUGGEDLY BUILT
- ECONOMICALLY PRICED

**GIANT-VAC
MODEL 4000**

TRACTOR MOUNTED TWO WAY PTO BLOWER*

- Blows 19% more air in primary direction
- Blows 40% more air in secondary direction
- Rear pneumatic tires resist gouging
- Powerband belt drive is more reliable and easier to maintain than sprocket drive
- Parking jacks ease coupling
- Aerodynamic design venturi for maximum efficiency and quiet operation

*Compared to Olathe Model 61 or Jacobsen Model 40



illinois lawn equipment, inc.

16450 South 104th Avenue • Orland Park Illinois 60462

708-349-8484



Technology Backed By Tradition



Upcoming Events — Mark Your Calendar

September 25 — MAGCS meeting at Prairie Landing G.C.

October 12 — MAGCS meeting at Sportsman G.C.

October 14 — MAGCS Fall Dinner Dance at Aurora C.C.

October 16 — Northern Illinois Golf Day at Midlothian & Beverly C.C.

November 9 MAGCS Clinic & Annual meeting at Medinah C.C.

November 27-29 — NCTE at Pheasant Run Resort, St. Charles, IL

February 5-11, 1996 — GCSAA 67th Conference & Show, Orlando, FL

Mike Vukmir at Maple Meadows will be starting 9 new holes this coming month. Maple Meadows, a DuPage Forest Preserve golf course are remodeling their courses. They plan to redo most of the course over the next few years.

Art Benson has decided to hang it up. Art will be retiring on September 28, 1995. He has worked at Butterfield C.C. for 31 years. Art will be retained as the consultant for the 1996 season. Mike Vercautren, the assistant to Art for the past few years will take over as the Superintendent. Congratulations Mike on your new position.

Don Altman at Forest Hills in Rockford reports that he will be rebuilding the 15th & 16th tees this fall. Don also plans to seed some rough areas into wild flowers.

Ed Fischer of Old Elm will be building 8 forward tees this fall. The average tee size will be about 1500 square feet.

Tony Rzadzki sends his new phone number for all of his friends to call: 414/367-9953.

For Sale: Toro GM3, "used but not abused". Call Mel or Mike at Inverness G.C., 708/358-7030.

For Sale: A chemical spray business has been sold and miscellaneous sprayer, hoses, electrical reels, poly tanks, pumps, meters, fungicides, herbicides, insecticides, Steiner 4 wheel drive 20 hp tractor with Dedoes aerifier attached; 2 Jacobsen slitseeders; portable secondary containment units. All must go! Best offer buys. Call 708/744-6710.

Dave Behrman of Riverside G.C. on August 9th had reconstructive surgery done to correct a sleep apnea condition. Dave has a story to tell about this problem, give him a call.

Dave Behrman will be rebuilding his multi-level practice tee this fall into one level and converting it to all bent.

Kane County Cougars Outing: Despite several no-shows, 100 people turned out for the annual outing on Saturday, August 5th. Good food, plenty of beer and a Cougar shutout were enjoyed by all. All of the kids in the crowd were treated to games (now people other than his wife Sue have seen Ed Braunsky wrapped in toilet paper), prizes and more candy than their pockets could hold. Accurate Tank Testing and Chicago Turf Irrigation sponsored the event.

Congratulations to Mike Vilendrer on being named Superintendent of White Mountain Golf club in Tinley Park. (which follows with another of those lovely mid-season job openings)

Fred Behnke at the Mt. Prospect Golf Club is looking for an Assistant Superintendent. This position is full-time salaried, with an outstanding benefit package. Call Fred at (708) 632-9331 or mail your resume to Mt. Prospect Park District, 411 S. Maple St., Mt. Prospect, IL 60056.

Mark Felton has joined Huber Ranch Sod Nursery, Inc. as a sales representative for the Chicago and northwest Indiana region. Mark has had 20 years experience in golf course construction, maintenance and operations. He has been involved in golf courses from Texas to Pennsylvania, Florida and Indiana. He has held positions with the PGA Tour in Florida and most recently at Sand Creek Country Club in Chesterton, Indiana.

Thank You Sponsors

Have you hugged a monthly meeting sponsor lately? Sponsorship at our meetings is up over 50% this year, making the golf more affordable for everyone. For about \$50, a golfer at a MAGCS meeting is treated to two meals, a great round of golf, a short educational program and has a pretty fair chance of walking away with a prize. That's a good deal any way you look at it. As it stands now, these are the good people who deserve a thank you.

April Mt. Prospect G.C.

BOJO Turf Supply

Central Sod Farms

J. W. Turf

Nadler Golf Car Sales/Club Car

June River Forest C.C.

Central Sod Farms

Chicago Turf and Irrigation

Nadler Golf Car Sales/Club Car

Nels J. Johnson Tree Experts

Pro Greens of the Midwest/J. Rollman

Rain Bird/Sprinkler Irrigation

(continued page 18)

(Thank You Sponsors continued)

July 9 Steeple Chase G.C.

Agr Evo
Central Sod Farms
Chicago Turf and Irrigation
E-Z-Go Golf Cars
Hendricksen, The Care of Trees
Nadler Golf Car Sales/Club Car

Kane County Cougars Outing

Accurate Tank Testing
Chicago Turf and Irrigation

August Hughes Creek G.C.

Arthur Clesen, Inc.
Hollembeak Excavating/Construction
J.W. Turf
Midwest Turf and Tractor
Nadler Golf Car Sales/Club Car

September Prairie Landing G.C.

BOJO Turf Supply
Cannon Turf Supply
Hendricksen, The Care of Trees
Illinois Lawn Equipment
Nadler Golf Car Sales/Club Car
Turf Products

October Sportsman's C.C.

Anton's Greenhouse
Arthur Clesen, Inc.
Illinois Lawn Equipment
J.W. Turf
Nadler Golf Car Sales/Club Car

Midwest Breezes continued on page 32

(Poa — July 13 continued)

Ultimately, of course, Dan prefers a permanent solution; regrass greens with more viable creeping bent. Subsequent to the July 13 crisis, notes Dan, "the Poa annua lost its roots, but the bent still had roots to the bottom of the cups." Science corroborates Dan's anecdotal evidence. "At higher soil temperatures (75 to 85 degrees Fahrenheit) creeping bentgrass has a distinct competitive advantage over annual bluegrass" is the consensus among plant pathologists.

While regrassing is expensive in the short term, in the long term Dan believes bentgrass greens are more cost-effective. "Keeping Poa annua alive in summers like this isn't much fun and it is costly", says Dan. "We feel confident that good golfers will like putting on the new upright bents and we will enjoy managing the bent."

Sounds like a win-win situation, which is more than can be said about how Poa annua stacked up to creeping bent during the steamy summer of '95.

Team Wins Local Golf Tournament Qualifies for International Funds

The La Grange Country Club team, La Grange, IL, recently won the John Deere local golf tournament held July 24, 1995 at the Orchard Valley Golf Club, Aurora, IL. The tournament was sponsored by John Deere Golf and Turf Products distributor J.W. Turf, Inc. with locations in Hampshire, IL and Pewaukee, WI.

The La Grange Country Club team, one of 43 teams competing, qualifies for a spot in the ninth annual John Deere Team Championship Golf Tournament, to be held at the Wild Wing Plantation, in Myrtle Beach, SC, October 26-28, 1995.

Members of the La Grange Country Club team are Victor Whipp, PGA Professional; Robert Kronn, Club Superintendent; Robert Nelson, Club Manager; and Richard Crain, Club President.

Teams from across the United States and Canada, winners of their respective John Deere local golf tournaments, advance to the tournament finals. The winning team will be joined for the tournament finals by a representative from J.W. Turf, Inc., the John Deere Golf and Turf Products distributor who sponsored the local tournament.

John Deere contributes \$20 to the Golf Course Superintendents Association of America (GCSAA) Foundation (formerly GCSAA Scholarship & Research) for each of the teams competing at the local tournament. John Deere has contributed nearly \$100,000 since the tournament's inception in 1987.

DUNTEMAN
TURF FARMS

Growers of Quality Sod

SERVICE!
LOCAL GROWING FOR
EASY PICKUP OR QUICK DELIVERY.
DELIVERY ON TIME, EVERYTIME.

QUALITY!
FEATURING
ELITE KENTUCKY BLUEGRASS,
BENTGRASS SOD, AND
TURF-TYPE FESCUE

- LOWER MAINTENANCE
- MORE DROUGHT & SHADE TOLERANT
- BETTER WEAR RESISTANCE

PRICE!
CALL FOR A QUOTE

708-557-2900

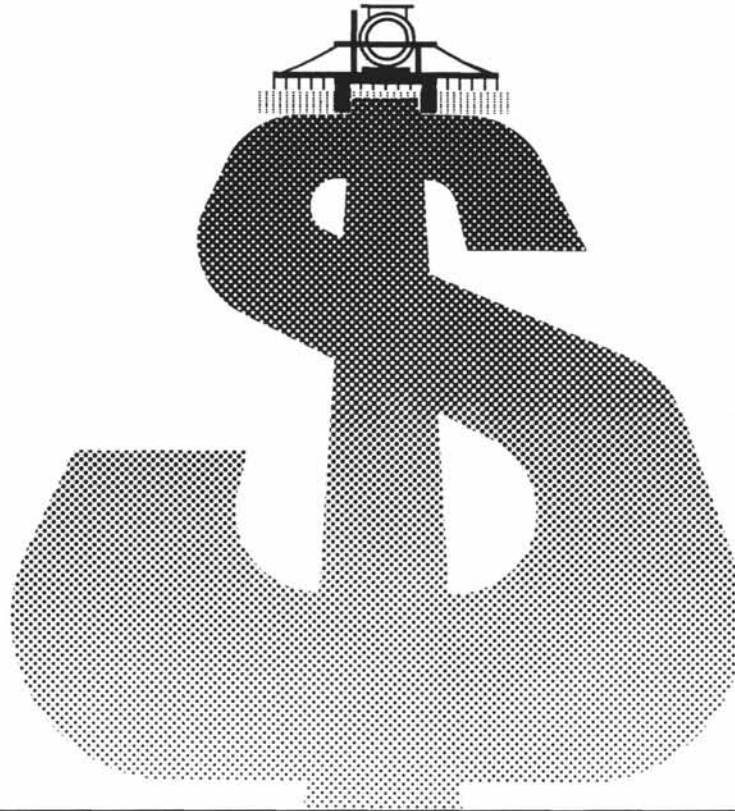
MAIN STREET
11 MILES WEST
OF BATAVIA, IL

GOLF MAINTENANCE BUDGET BLUES?

Are your Spray
Pattern Indicators
costing too much
money?

Switch to
SIGNAL™ and
\$ave money!!

Get more color
for your Spray
Pattern Indicator
Dollars - use
SIGNAL.



Please call
**PRECISION
LABORATORIES**
for stocking
distributor infor-
mation.

Call us at
800-323-6280



SOIL SYSTEMS INC.

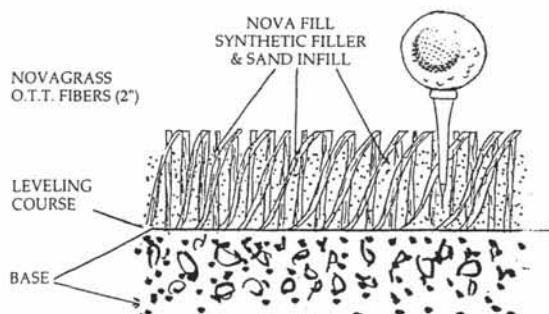


37 Clayton Ave., Lake Villa, IL 60046
Phone: 708/265-0100

Golf course renovations, construction grade topdressings,
conventional and synthetic tee and greens construction.
Authorized NovaGrass® dealer.

Featuring premium quality synthetic sand-filled turfs for:

- putting greens ▪ golf course greens
- target greens ▪ golf course tees
- driving range tees ▪ tennis courts
- cart paths and walkways



Consisting of a combination of durable grass (synthetic) fibers, soft fillers and sand that locks into place, the NovaGrass Golf Tee material is the ideal solution for natural feel and exceptional wear.

The Beauty of Wood...



...the strength and durability of steel

For over 75 years, Carr Lumber has been providing custom wood-working solutions for clients from coast to coast.

Now we are proud to introduce Ipé. Ipé (pronounced ee-pay) is a fine, richly distinctive hardwood twice as dense as other wood species and up to five times

harder. These natural properties make it a superior material for long-term exterior exposure.

Call us at 708-458-4100 to find out how we can put the natural beauty, strength, and durability of Ipé, and the proven experience of Carr Lumber to work on your next project.



WHERE GOOD THINGS COME OUT OF THE WOODWORK.

Scotts Introduces...



TriaformTM Technology is a superior alternative to any traditional fertilizer you've ever used. It's patented, environmentally sound process dramatically improves the physical characteristics of a homogeneous fertilizer granule while delivering excellent agronomic performance and handling. Triaform technology offers better methylene urea (MU) nitrogen distribution to deliver more available nitrogen to the plant.

An innovation you'd expect from a name you can trust.



For details, call your
ProTurf Tech Rep

or 1-800-543-0006 today.

*We've spent over 140 years learning what works
and what doesn't. Let us save you the time.*



Hinsdale Nurseries

INCORPORATED
ESTABLISHED 1850

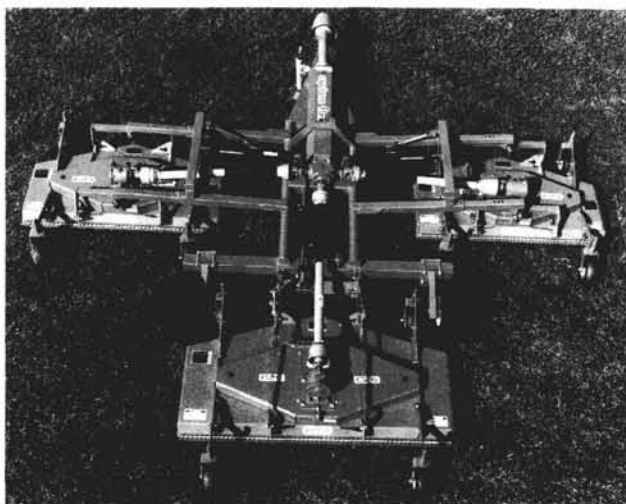
Hinsdale Nurseries Inc. • 7200 S. Madison • Hinsdale, IL 60521 • (708) 323-1411
Yorkville Farm • 8111 Route 34 • Yorkville, IL 60560 • (708) 553-6411

BEFCO CYCLONE FLEX & SUPER FLEX ROTARY FINISHING MOWERS

BEFCO, industry leader with over 750 Flex & Super-Flex units in use across North America, offers flex mowers in cutting widths of 12', 15', 17', 22' and 26' each designed to fit your unique mowing needs.

BEFCO flex mowers offer these outstanding features and many more:

- Quality cut with even thatch disbursement
- 30° up & 15° down flexing; 4" to 6" vertical float
- Zero turning radius capability
- Low tractor HP requirements
- Very low maintenance requirements
- Mowing capabilities of 8 to 18 acres per hour



ROSEMAN

tractor equipment company, inc.

FOR MAINTENANCE, AGRICULTURE AND INDUSTRY

2620 CRAWFORD AVENUE
EVANSTON, IL 60201-4922
PHONE: (708) 864-1842