

**YOUR MEMBERS
WILL KNOW HOW WELL YOU DID
BY HOW WELL
YOUR GREENS PERFORM**

topdressing blends
construction blends
straight topdressing sand
bunker sand

All shipments guaranteed to meet your specifications.
Now serving you locally in Illinois.



SOIL BLENDERS

800-537-1796

Where soil blending is a science

***Please Support
Our Advertisers***

ONCE

GRACE SIERRA

**SEASON LONG
TURF & ORNAMENTAL FERTILIZER**

- 24-6-11 An all purpose turf fertilizer with a balance of NPK for 5 to 6 month feed
- 25-0-18 All purpose turf fertilizer with higher potash levels for increased turf vigor will feed 5 to 6 months
- 35-0-6 A high nitrogen turf fertilizer with ample potassium to feed 5 to 6 months
- 0-0-47 A coated potassium turf fertilizer for feeding 5 to 6 months
- 15-12-13 A general purpose ornamental and flower fertilizer that feeds for 5 to 6 months
- 20-10-5 Agriform pellets to feed trees and shrubs for up to 2 years
- 16-8-12 Osmocote coated pellets plus micronutrients for 8-9 month feeding for trees and shrubs

We have a lot
to offer.
Try us for all your
horticultural needs.



TO ORDER CALL:
(708) 537-2177 or FAX (708) 537-2199
Arthur Clesen, Inc.
543 Diens Drive • Wheeling, IL 60090

**Build your
Pythium control
program on a
firm foundation.
Chipco® Aliette®**



RHÔNE-POULENC AG COMPANY

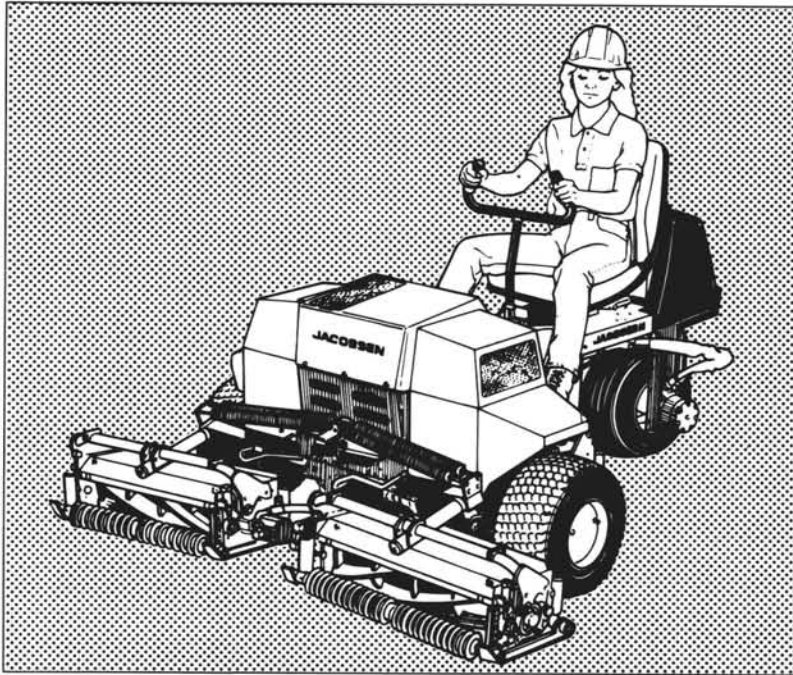
P. O. Box 12014, 2 T. W. Alexander Drive
Research Triangle Park, NC 27709
919/549-2000



**Illinois lawn
equipment inc.**

JACOBSEN **TEXTRON**

Jacobsen Division of Textron Inc.



Tri-King Family

Your Options:

- 71" or 84" width of cut, 12" overhang on the 84"
- 16 hp air-cooled Kohler or water-cooled Kubota diesel
- Belt or hydraulic drive reels
- 2 or 3 Wheel drive
- Fixed or quick height of cut adjusters
- Grooved or solid rollers, catchers available

**708/349-8484
FAX 708/349-7149**

16450 S. 104th Avenue
Orland Park, Illinois 60462

*Let us show you a
Tri-King today!*



Illinois lawn equipment inc.

◇
◇
◇
Technology

◇
◇
◇
Backed

◇
◇
◇
By

◇
◇
◇
Tradition

**708/349-8484
FAX 708/349-7149**

16450 S. 104th Avenue
Orland Park, Illinois 60462

Midwest Breezes



Upcoming Events—Mark Your Calendar

February — No MAGCS meeting

March 4 — Spray Technician Course, Stonebridge C.C.

March 15 — MAGCS meeting at Nordic Hills C.C.

April 26 — MAGCS meeting at Geneva G.C.

May ? — Combined Joint Association meeting

June 21 — MAGCS meeting at River Forest G.C.

July 19 — MAGCS meeting at Poplar Creek G.C.

August 9 — MAGCS meeting at Lakewood G.C.

September 21 — MAGCS meeting at Shoreacres G.C.

October 4 — MAGCS meeting at Bartlett Hills G.C.

November ? — Midwest Clinic and Annual Meeting

Odyssey Golf Course of Tinley Park has an opening for a year round employment as an Irrigation Technician. Call Ray Schei at 708/633-0363.

Mike Doran is looking for an assistant's position. Please call: 708/925-8917 evenings or 708/884-2801 during the day.

Assistant Superintendent is needed at Royal Fox Golf Club, call Ernest Corsi at 708/377-9491.

For Sale: Cushman topdresser, very good condition. Call Brian or John at 708/677-4112.

For Sale: 3 Jacobsen Walking PGM with groomers, 3 years old @ \$2000 each. 80 # 60 Rugg Sand Trap Rakes, also a IBM PS2-50X computer for \$400. Call Randy Wahler at 708/234-4160.

The GCSAA and Central Illinois GCSAA are having a Disease Identification and Control seminar in Normal, IL on February 18-19, 1993. Registration fee for GCSAA members will be \$190 and the instructors are going to be, Dr. Noel Jackson and Dr. Peter Dernoeden. To register call GCSAA at 913/832-4444.

Congratulations to Dan Sterr, the new superintendent at Fox Bend Golf Course in Oswego. Dan was the assistant at Butler National since 1987.

Congratulations to Tony Rzadzki and Cantigny Golf Club on being 1 of 11 winners from across the country in the first annual Environmental Steward Award program. Tony will receive a personalized plaque and a \$50.00 donation (by Ciba-Geigy and Rain Bird) will be made to the Scholarship & Research Fund of the GCSAA.

I knew last month that I would not have a complete list of relationships that worked on courses and etc. in my "Who ... What?" quiz. Jim Burdett was good enough to give me a list of ones he knew in our area. Here they are: Warren, Ben & Bob; Burdett, (no wonder he gave me a list, I left his name off) Paul Sr. and Jr. and Jim; Bertucci, Adolph and his father; Al Bertucci and his father; Alden, Jerry and brother; Schmitz, Ray & son Mark; Clesen, Art & Art Jr.; Lapp, Amos, Ken, John & Brian York; Stewart, Grandfather Pete, son Ed & Don & grandson Steve; Stewart, Roger & brother in NE; Woehrl, Ted & father; Dom Grotti & nephew Dennis Wilson; Dearie, Gerald Sr. & Jr.; Leith, Bill & father; Smith, Bill & Frank; Maestrol, Frank & son Dave; Reed, Russ & Jim; Nissan, Dale & Dean; Maddox, Charles, Chuck & Bill; Habenicht, Carl & Dale; Johnson, Robert & sons, Hahn, Rick & father; Duehr, Ed, Mitch & Mel; Janik, Pete & brother, Krueger, Frank & John. Did I miss any more?

1993 Illinois Pesticide Clinics — a \$15.00 per day PREPAID registration fee is required at all clinics. Send a self addressed stamped envelope for confirmation to: Northern Illinois Horticulture Association, P. O. Box 204, Gurnee, IL 60031. Questions: (708) 356-5265 from 1:00 to 4:00 p.m. Mondays & Fridays preceding clinic.

March 9-10 — Northbrook — G.S., Turf, Orn. Holiday Inn, Milwaukee Ave. S. of Palatine/Willow Rd.

March 17-18 — Willowbrook — G.S., Turf, Orn. Holiday Inn, Route 83 & I-55

March 30-31 — Alsip — G.S., Turf, Orn. Holiday Inn, I-294 & Cicero Ave.

April 7-8 — Glen Ellyn — G.S., Turf, Orn. Holiday Inn, Route 38 & Finley Rd.

April 20-21 — Northbrook — G.S., Turf, Orn. Holiday Inn, Milwaukee Ave. S. of Palatine/Willow Rd.

May 11-12 — Elk Grove — G.S., Turf, Orn. Park District, Rt. 53 & Thorndale Rd.

June 2 — Wheaton — G.S. DuPage County Fairgrounds, Manchester Rd.

G.S. = General Standards; Orn = Ornamentals

Chicago Turf & Irrigation, Inc., is searching for a counter sales (with warehouse duties) person to work in our irrigation department. Some of the responsibilities will include: CRT order entry of phone orders and walk-ins, order picking, UPS shipping & checking stock. Send resume to: Chicago Turf & Irrigation, Inc., 1170 W. Ardmore Ave., Itasca, IL 60143. Attn: Irrigation Dept.

Mike Bavier was north of the border in Canada in November and gave a talk, "A Chicago Superintendent in South Africa".

Crystal Lake C.C. is looking for an assistant superintendent. Call Steve at (815) 459-7240.

William Von Sigler is looking for an assistant's position in the Chicago area. He has a very good resume. Contact him at: 425 1/2 Massachusetts Ave. #C, Indianapolis, IN 46204. Phone: (317) 262-8687.

For Sale: Dedoes Drum Aerifier w/lift, and Toro Parkmaster — good condition. Call Brad at Midlane C.C., (708) 662-3977.

On the Waterfront

by Jim Reed

This month's article from the Keller-Bleisner Engineering report on "Designing, Operating, and Maintaining Piping Systems using PVC Fittings" is on "Dealing with Entrapped Air". This concludes the section begun in the last **Bull Sheet** issue.

Obviously, the best way to reduce problems caused by entrapped air would be to prevent it from entering the system. Precautions should be taken to eliminate air entrance. When systems are filled, either initially or after draining for winterization or repair, they should be filled slowly, at a velocity of 1 foot per second or less, and the air should be vented from the high points before the system is pressurized. Even with these precautions, some air can remain in the system.

To deal with this remaining air or newly admitted air, continuous-acting air relief valves should be installed at high points in the line and lines should be laid to grade wherever possible. Continuous-acting valves contain a float mechanism which allows the air to vent through a small orifice, even when the line is pressurized. The orifice diameter should be about 1 percent of the diameter of the pipe on which it is installed to allow the entrapped air to be slowly released.

(cont'd. page 22)



They're known by the greens they keep.

Lush, beautiful greens and tee boxes are well-known to superintendents who use Ringer Greens Products. With five finely-granulated formulations available, you can match our fertilizer to your needs throughout the seasons. Each formulation releases the precise amount of nitrogen needed to eliminate burning and green-up greens evenly. The remaining nitrogen is reserved for slower release to encourage consistent growth. Try Ringer Greens Products. Your greens will be in good company.

RINGER®

Contact your local distributor or Ringer's Golf & Commercial Turf Division at 9959 Valley View Road, Minneapolis, MN 55344, (612) 941-4180. Ringer offers a complete line of fertilizers for greens, fairways and general turf applications.

Finally, Bent Sod With Assured Compatibility

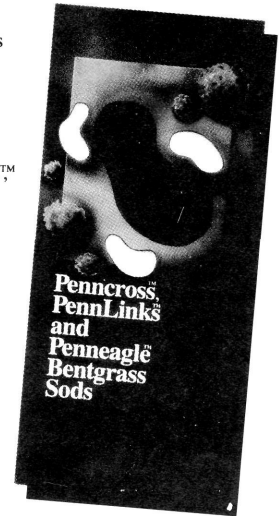
PENNCROSS GROWN ON A FUMIGATED USGA GREENS MIX SOIL

H & E Sod Nursery provides you with Penncross™ Bentgrass Sod that is grown on fumigated USGA Greens Mix soils making this superior turf totally compatible with golf course greens anywhere in the country.

For more facts about all of the top golf course turfs we provide: Penncross™, PennLinks™ and Penneagle™ Bentgrass Sod...phone, fax, or write for a FREE INFORMATION PACKET: 3900 West 167th Street, Markham, IL 60426. Fax: 708-596-2481.

Phone: 708-596-7200

HE SOD
nursery, inc.



Gregory E. Martin
General Partner

1700 North Farnsworth

Suite Thirteen

Aurora, Illinois 60505-1512

708-851-9977

Martin Design Partnership

Landscape
Architecture

Golf Course
Architecture

Land Planning



Mechanical Soil Technology

— Contract Aeration Service —
Serving The Entire Midwest

David Strang
Ph. (800) 743-2419

442 Pine St.
Galesburg, IL 61401

Specializing in Golf Course Renovations

- Tees • Greens • Traps • Fairways
- Hydroseeding • Plant Installation •

don fiore company, inc.

landscape contractors & architects
golf course contractors

28846 Nagel Court
Lake Bluff, Illinois 60044
708-234-0020
Fax 708-234-0922

Certified Member: American Society of Landscape Architects
Midwest Association of Golf Course Superintendents



Timberline

Downers Grove, IL
Business
Bill Boyd 708-963-9088
Home
708-963-4510

Golf Course Remodeling, Expansion & Renovation Ponds,
Lakes, Waterways, and Ditch Work.

FOR THE FINEST IN SOD
THORNTON'S SOD NURSERY

708 - 742-5030

Rt. 2 Box 72

Elgin, Ill. 60120

Leaves, Limbs, Needles & Boughs

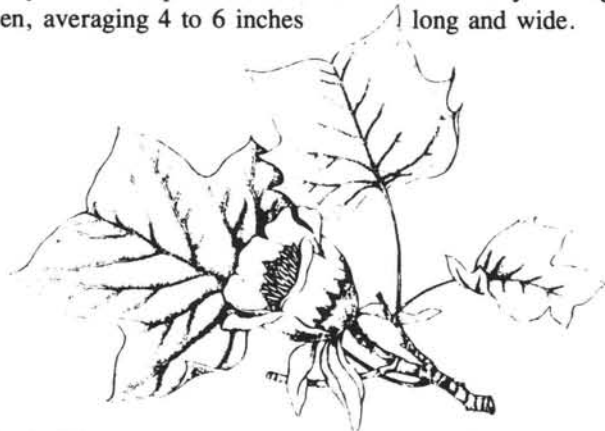
by Fred Opperman

This month's selection is kind of a rare tree for it showed up less than 50 times on the survey list done by Green & Bachtell in the December issue.

Liriodendron tulipifera — Tulip Tree, Yellow Poplar or Tulip Poplar are it's common names.

Bark: Grayish, with furrows at maturity that shows a whitish color within.

Leaves: This is really the distinguishing feature of this tree, for there is no other tree with similar leaves. Alternate, simple; blades divided into four broad lobes, the upper two lobes usually with a conspicuous notch between them. They are bright green, averaging 4 to 6 inches long and wide.



Buds: Flattened, up to 1 inch long, resembling duckbills.

Flowers: Usually about 2 inches long, cup shaped, with 6 yellow-green petals with an orange base surrounding a cone shaped cluster of pistils. Flowers in mid May around here.



Twigs: Smooth, reddish-brown; leaf scars alternate, nearly spherical, with several bundle traces, with stipule scars encircling the twig.

Wood: Soft and durable and is used for lumber, veneer cores to which other wood is glued to.

The Tulip Tree is quite a stately tree with a very columnar trunk. The tree can grow to 100 feet with a trunk diameter of 4 feet. The top is oblong or pyramidal in shape.

Availability is rather sparse in our local area. There isn't much demand, so they aren't grown by too many people.

Schroeder's Nursery, Inc.



TREES

• **SHRUBS**

• **EVERGREENS**

RICHARD A. SCHROEDER
CARL DRAVIS

Specializing in Large Caliper Trees
We offer complete installation

TELEPHONE: 708-546-9444

23379 W. Route 60 — Grayslake, Illinois 60030
Located on Route 60 between Rt. 12 (VOLO) & Rt. 83 (IVANHOE)

Special Low Pricing on Vicon Seeder Spreaders!



25% OFF ALL MODELS IN STOCK
The accurate, versatile, reliable spreaders available in
sizes from 400 - 3,600 lbs.

HUBER RANCH POWER EQUIP., INC.
Box 188, Schneider, IN 46376
1-800-553-0552 or (219)552-0552



WILBUR-ELLIS

IDEAS TO GROW WITH®

YOUR ENVIRONMENTAL COMPLIANCE COMPANY

WE DELIVER SERVICE.....

...CUSTOM RINSATE PAD DESIGNS
...WORKER RIGHT-TO-KNOW TRAINING
...SARA TIER II REPORTING
ASSISTANCE

WE ALSO DELIVER PRODUCTS.....

.....A COMPLETE LINE OF TURF & ORNAMENTAL
PLANT PROTECTANTS, PLANT NUTRIENTS,
GRASS SEED, HERBICIDES, AND MORE!
.....FAST FREE DELIVERY WITHIN 24 HOURS

JOHN MEYER OR JOE WOLLNER
800-747-7400

Pesticide Roundtable Follow-Up

by Dave Blomquist, Naperville C.C.

On December 1, I moderated a roundtable discussion on pesticides at The North Central Turfgrass Exposition at Pheasant Run Resort in St. Charles. Included were individuals involved in research, testing and government lobbying. The Education committee of the MAGCS put together the panel with the following goals in mind:

1. Openly discuss pesticide related topics so the Superintendent in attendance can gain an insight about certain controversial opinions.
2. Show the "anti-pesticide" people in attendance that professional Golf Course Superintendents are trained and educated individuals who are concerned about the environment. While not being financially motivated to apply, we practice judicious application methods and are incorporating alternative controls wherever possible.

As the Moderator, I was to remain neutral. This was at times very frustrating because many comments were made that were simply not true, or a mis-interpretation of known facts. This is a forum for me to tell my side of the story. In the spring of '92 I began researching this subject and thought I had a fairly good idea of what was happening around me, however as I contact possible panelists and began reviewing available literature, it became apparent to me that this is a much more complex issue. It also became obvious that those involved in changing our laws and allocating tax generated funds aren't interested in science or common sense.

In his testimony before the subcommittee on toxic substances, NY state Attorney General Robert Abrams said: "...EPA should address the public's confusion about pesticide registration by not allowing pesticides containing known or **probable** carcinogens to be used for aesthetic purposes like lawn care." (1) That testimony, given in 1990, is a clear example of mis-informed albeit well meaning groups influencing our lawmakers who ultimately spend our tax dollars! Mr. Abrams suggests "probable carcinogens". In other words we think this is bad but let's not examine available facts, rather remove it from the market place irrelevant of the impact it could have on our economy or our every day life.

Former US Surgeon General, C. Everett Kopp warns against acting upon hypothetical risk: "By focusing on hypothetical risk, like that from pesticides, not only do people find their anxiety levels elevated, but by focusing on a straw man, they also feel as though they are doing something to improve their health. In doing so, they often neglect all the things that they could be doing more readily, more **legitimately**, and with greater effect, such as paying attention to smoking, alcohol, exercise, balanced diet and so on." (2)

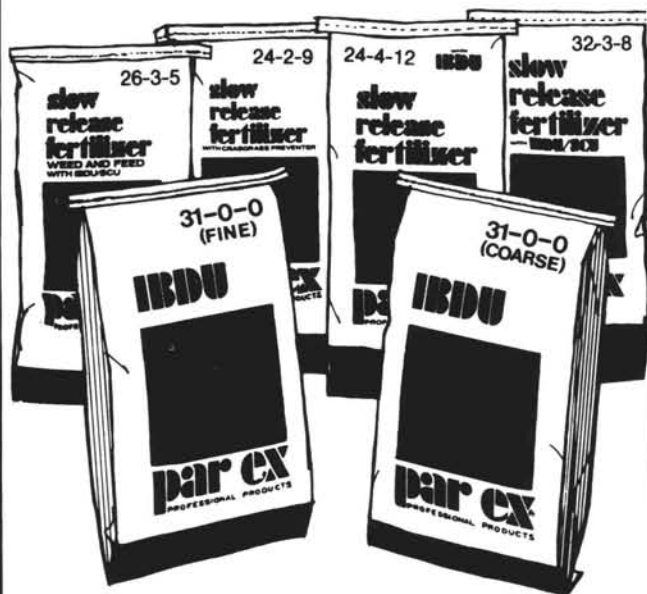
SUPPOSED RISK

This is the strongest tool for the anti-pesticide lobby. Another way of intimidating law makers is to bring up the issue of hypersensitivity. We as a society must make decisions that benefit the majority with the understanding that a certain few may suffer as a result.

(cont'd. page 18)

par ex
The Ex Stands For Excellence

Why the EX STANDS FOR EXCELLENCE in professional turf care.



Par Ex is the only professional fertilizer line containing IBDU, undisputedly the finest slow release Nitrogen source in the world.

IBDU gives you the highest level of WIN, or Water Insoluble Nitrogen.

IBDU delivers all of its Nitrogen in a single growing season.

The Nitrogen release rate of IBDU is generally affected by only two factors: soil moisture and granule size.

Slower release makes Par Ex products perfect for your Fall Fertilization program.

Fewer applications are required, labor costs are cut.

The salt index of IBDU is the lowest of all commonly used fertilizer materials.

IBDU fights nitrate pollution because very little Nitrogen is lost through leaching or volatilization.

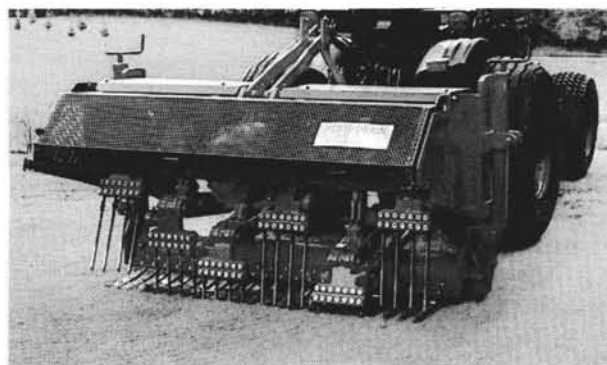
Choose from over 60 different product formulations.

Territory Manager
Thomas E. Skinner
Keokuk, IA
319/524-8912

par ex
The Ex Stands For Excellence

VERTI-DRAIN®

**"WORKS LIKE A PITCHFORK
ONLY DEEPER AND BETTER!"**



COMMERCIAL TURF

BRYAN WOOD

The original, most experienced contractor in the Midwest!

1-800-748-7497

*Your authorized distributor for contracting,
sales, leasing, parts, service and consulting.*



BURDETT'S, INC.

2835 South State Street
Lower Level
Post Office Box 283
Lockport, IL 60441-0283
815-740-5656
fax# 815-723-4485

"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

708-438-7881
DANIEL I. KOELPER

708-541-9182
VICTOR C. KOELPER

RISK VS. BENEFIT

We routinely reap the benefits of aspirin, antacids, antibiotics, etc. ... while people die from extreme reactions from these and various other materials that surround us daily. The April 2, 1991 issue of *Family Circle* magazine had a 7 page article entitled "Poison in Your Back Yard — The Pesticide Scandal." The emotionally charged article interviewed several children along with their friends and families. These children are hypersensitive to pesticides and cannot leave their houses in the spring while lawn care companies are out in force. Some are even forced to leave the state to seek a chemical free environment. It also quoted consumer and citizen groups as though they espoused the fact. (3)

The October 14, 1991 *Wall Street Journal* had a lengthy article describing a man who became seriously ill after being exposed to Diazinon while he was also taking the prescribed drug Tagamet. The article painted a very gloomy picture, saying that prescription drugs can interact with pesticides and the synergistic result can be fatal. They go on to say that the EPA hasn't tested pesticides with pharmaceuticals. Towards the end of the article they state that 56,865 accidental exposures to insecticides and herbicides were reported in 1990.(4)

Neither of these well respected periodicals provided an alternative viewpoint. *The Family Circle* article could have focused on the fact that although a **very small percentage** of the population is hypersensitive, the majority of us reap the benefits by having healthier lawns, healthier trees, pest free homes, and a suppressed mosquito population which helps fight the spread of infectious disease.

"TORTURE NUMBERS AND THEY WILL TELL YOU ANYTHING"

The latest attack on pesticides involves the LPGA tour. 4 LPGA members (1 in 20) developed breast cancer over a two year period. When compared to National Cancer Society studies that show 1 out of every 9 women developing breast cancer in the general population,(5) LPGA members are below the reported rate. Therefore — play golf and lower your risk of breast cancer! Level headed, logical thinking individuals see how ludicrous this statement is, but this is exactly the type of voodoo "science" that is used to back anti-pesticide claims.

In preparation for the pesticide discussion at the NCTE, I attempted to meet each panelist beforehand and get an idea of what they were going to discuss. I admit I learned some interesting things:

- Manufacturers don't have to supply the inert, or inactive ingredients to the public. In some cases a material that is active in one formulation thus requiring reporting can be inactive in another and not require reporting. How does this relate to us? Ask Bob Maibush of Hinsdale Golf Club. A couple of years ago he made an application of Mocap and a neighbor complained that they got sick as a result. He handled the situation in the best manner possible; apologizing and offering any information or help. To learn a little about the product so he may avoid future problems, he contacted the makers and was told that the neighbor reacted to the inerts in the product. Consequently, they wouldn't release any information to him. This didn't bode well with Bob and it certainly made his situation more challenging.

(cont'd. page 22)

PEERLESS FENCE CO.

3N381 Powis Rd.
West Chicago, IL

- Chain-Link Fencing
- Wood Fencing
- Special Gates
- Driving Range Fencing
- Tee Protection Fencing
- Wood & Steel Guard-Rails
- Golf Course Work Our Specialty

708/584-7710

Hal Laman

NATIONAL CHEMSEARCH CORP.

Russel Fishman
(708) 432-3588



(708) 531-1181

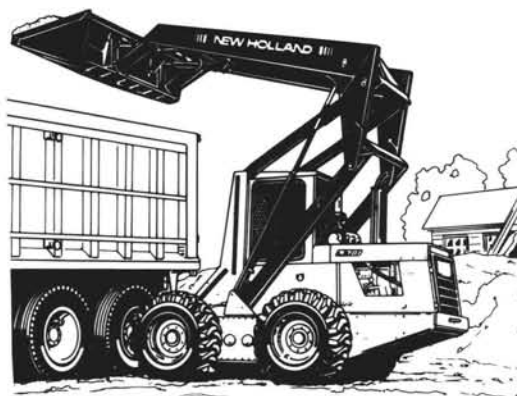
WINKLER'S TREE & LANDSCAPING, INC.

"REDUCED WINTER RATES"

Vince Winkler
Certified Arborist

1241 Morgan
LaGrange Park, IL 60525

Performance at the right price



Attachments include:

- Buckets.
- Pallet forks.
- Grapples.
- Backhoes.
- Trenchers.
- Earth drills.
- Tree transplanters.
- Blades.

MARTIN IMPLEMENT SALES, INC.

16400 S. 104th Ave.
Orland Park, IL 60462

(708) 349-8430



- Dimension® controls crabgrass all season long with just one application
- Effectively controls or suppresses a variety of other weeds and grasses including goosegrass

**Introducing
DIMENSION
turf herbicide.**
**The toughest
thing to emerge
since crabgrass.**

Dimension® can help you overcome your toughest weed challenges.



- Provides excellent turfgrass safety
- Preemergence and early postemergence crabgrass control in one product gives you unprecedented flexibility during your busy season.

Arthur Clesen, Inc.

543 Diens Drive • Wheeling, IL 60090 • (708) 537-2177 • FAX (708) 537-2199



**LESCO
HAS IT!**

**Everything you need
for professional
turf management.**

- Fertilizers • Control Products • Seed
- Irrigation • Equipment • Replacement Parts
- Golf Course Accessories • Safety Products
- Service Brochures • Low Voltage Lighting

(800) 321-5325

Your Growth Partner

LESCO, Inc., 20005 Lake Rd., Rocky River,
Ohio 44116



Since 1930

**An Environmental
Tradition**

*More than 60 years of
complete, dependable and
economical tree service.*

Nels J. Johnson Tree Experts, Inc.

Nels J. Johnson, Jr.
President

Karl G. Johnson
Vice President

Complete, economical tree service for
Private Estates, Municipalities, Schools,
Industrial Areas, Parks & Golf Courses.

All phases of Arboriculture:
Consultation, Diagnosis, Removals, Pruning,
Stump Routing, Fertilization, Hydraulic
Spraying, Chemotherapy and Municipal Forestry.

Fully Insured

Main Office: 912 Pitner Avenue, Evanston, IL 60202

Telephone: (708) 475-1877

Fax: (708) 475-0037

Hinsdale: (708) 654-1877

Barrington: (708) 382-2777

GREENS ROLLER



★ ARTICULATING STEERING & OSCILLATING ROLLERS —

Allows this machine to true up the surface of the green without changing the undulations.

★ 4.2 P.S.I.—

Puts compaction at the lowest possible level.

★ TRACTION —

Will climb 40° incline wet or dry, without slipping.

For more information write or call:



UPS Parts Daily
Call Our Toll-Free Parts Line:
1-800-397-0397

For Service Or Equipment Call:
1-708-301-8500
1-815-469-8500