

BRING YOUR GOLF COURSE UP TO PAR



With The Brouwer Fairway Mower

- Designed to give your Golf Course a beautiful, consistent cut.
- Simple "No Wheel and Gear Drive" prevents tracks.
- The "Floating Head" follows contours and provides an even cut without scalping.
- Economical to buy at 1/3 the price of self propelled mowers.
- Choice of blades per reel.
- Hydraulic lift for quick and easy transport, storage and maneuverability.
- Available in 3-5 & 7 gang units.



"The Brouwer Fairway Mower is far superior to anything I've ever used. As a result my fairways have never looked better."

Gord Evans
Pheasant Run Golf Club
Newmarket

BROUWER

TURF EQUIPMENT LIMITED

7320 Haggerty Rd./Canton, MI., U.S.A. 48187 Telephone: (313) 459-3700
Woodbine Avenue/Keswick, Ontario, Canada L4P 3E9 Telex 065-24161 Telephone: (416) 476-4311



Introducing a mower that won't break down every few yards.

The problem with most mowers is they spend too much time in the shop and not enough time on the job.

You won't find that with Toro's new 36" and 52" commercial walk rotary mowers. Because we build them with the same durability we build

in our commercial riding mowers.

For instance, we gave them an actual 4-speed transmission with neutral and reverse. So they won't lock into

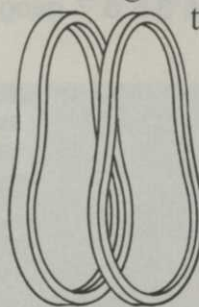
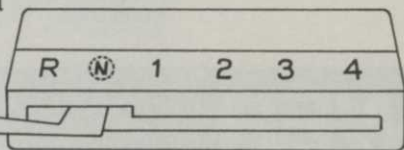
a single speed like some variable speed pulley systems.

And, knowing the continual

problems you have with belts breaking, we added a much wider traction belt that's

designed to last the life of the machine. We also eliminated an idler pulley on the deck drive belt, to make it last longer, too.

Even the





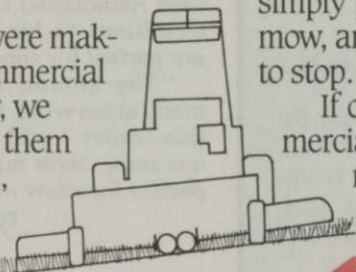
cutting spindles are engineered and protected to better withstand the shocks and jolts of everyday cutting.

While we were making our new commercial mowers tougher, we decided to make them more productive, as well.

We gave them a floating deck, same as our Groundsmasters®, so they'll follow the contours of the terrain while minimizing scalping.

We made it possible to change the height of cut in a minute by simply moving four pins.

And we came up with a



new steering design that makes it easier to maneuver around trees, shrubs and other obstacles. You simply push the steering bar to mow, and release it to stop.

If our commercial walk rotary

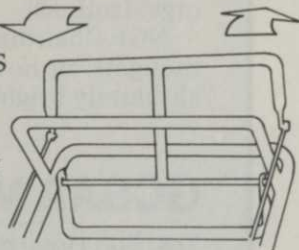
mowers are beginning to sound like no other walk rotary mowers you've

ever seen maybe it's because they are.

Visit your

Toro distributor soon. He can fill you in on all the details.

Whichever one you choose, it'll keep you cutting yard after yard, year after year.



The professionals that keep you cutting.

Circle No. 172 on Reader Inquiry Card

UPDATE

USGA begins building expansions

The United States Golf Association has announced plans to build two buildings adjacent to Golf House, the USGA headquarters in Far Hills, NJ.

The association will build an office building and a test facility next to its present headquarters, according to USGA. The price tag will be around \$5 million.

The two buildings will house approximately 85 USGA staff members. Golf House, which now includes administrative offices will be devoted entirely to the USGA museum and library.

The new office building on the 62-acre site will be a three-level structure with approximately 38,000 square feet of space. The test building will have about 7,000 square feet of space.

Hueber returns as NGF president

In 1977, David Hueber was a hospital administrator in Memphis, TN. He had studied for six years at Florida State and Memphis State to become a hospital administrator. But, he had also played outstanding golf at both institutions. The walls of the hospital must have seemed like bars.

Deciding golf meant too much to him to leave behind, he accepted a field service position with the National Golf Foundation. After three years he moved to the PGA as marketing representative and worked his way up the ladder to vice president of PGA Tour Properties.

In February, Hueber assumed a position 60 others had tried to get, president of NGF. At 32-years-of-age, he seems young for the job. But then, he has an MBA, he has been champion of the Tournament Players Club at Ponte Verde, FL, the past two years, and he has seven years of management experience in golf organizations.

NGF Chairman Joe Phillips said, "He impressed us with his thoughts on how to move the Foundation forward. He is an absolutely bright, young talent."

GCSAA Vegas show was flawless

Yes, Bob Hope did attend the banquet at the GCSAA Show in Las Vegas to receive the "Old Tom" Morris Award from Arnold Palmer. And yes, a record number of superintendents from around the country attended the educational sessions and explored the exhibits despite the lure of gambling. GCSAA pulled it off.

As Robert Osterman stepped down as president of GCSAA after one of its most challenging years, he had to feel both a sense of relief and accomplishment. He managed the group through a change of executive director, a law suit, restaffing, and financial audits. But, just like the conference, he, the executive committee, and the GCSAA staff pulled it off.

GCSAA had a triple bypass last year, and Osterman was the chief surgeon. The operation was apparently a success.

CHEMICALS

"Chemical insanity" defense in murder

In the first legal case of its kind and one that will send a stinging after-shock through the chemical industry, a former employee of a Massachusetts lawn care company is alleging chemicals he used on the job caused him to become insane and drove him to murder a 34-year-old woman.

David Garabedian, 23, formerly employed by Old Fox Lawn Service of Chelmsford, MA, is being tried in the bludgeoning-strangulation slaying of a former customer after she chided him for urinating in her yard.

His defense attorney contends Garabedian's mind snapped and was "twisted" from chemicals he used on the job and likened the mental condition of his client at the time of the slaying to that of "someone on drugs or alcohol."

Richard Gillette, manager of Old Fox Lawn Service, was quoted as saying that there was no documented evidence that anyone has ever committed murder while "under the influence" of lawn care chemicals.

The outcome of Garabedian's trial could have far-reaching implications in the chemical industry, however. The case may be the breeding ground for a new legal precedent for other workers in the chemical industry — chemical insanity as a defense plea.

DISEASES

Zontek says conditions perfect for snow mold

Stanley Zontek, north central regional director for the United States Golf Association Green Section, says conditions in his region this winter are perfect for snow mold.

"The ground was not frozen in many areas when the snow covered it this winter," said Zontek. "Continuous snow cover means conditions are perfect for snow mold development."

continued on page 18

Correction

In the December 1983 issue, iron chlorosis on an oak leaf pictured on page 37 was inadvertently misidentified. A number of readers brought this to the editors' attention. We regret any confusion.

—The Editors

Create a Colorful Difference



WITH **Pinto** BRAND WILD FLOWER MIX . . .

the colorful and decorative answer for low maintenance landscape areas.

Multi-colored blends of annuals and perennials like Chicory, Scarlet Flax, Bachelor's Button, Baby's Breath and Painted Daisy. A blend that reseeds itself for lasting beauty year after year.

Pinto is ideal for any landscape — parks, roadsides, golf course roughs, home gardens, industrial and landfill sites. And perfect for areas where you don't have to mow.

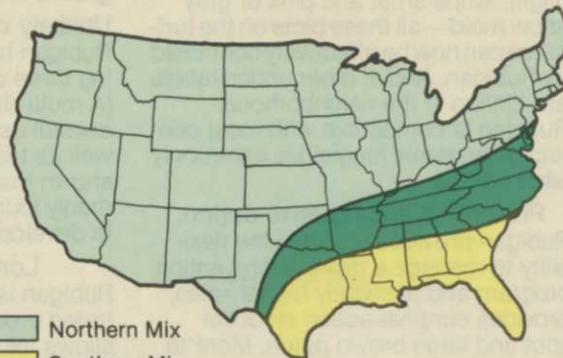
Available either as 100% wild flowers, or mixed with a fescue as a Meadow Mix to aid soil stability.

It's custom blended in a Northern or Southern mix. So wherever you live, your Pinto order will be perfectly adapted for your climate. It will make this year the start of many colorful years to come.

Pinto Wild Flower Mix: the easy, low-maintenance way to naturalize your surroundings.

For more information or to place your Pinto order, call:

- Lance Bentley, Lofts/New York (518) 677-8808
- Tim Bowyer, Sunbelt Seeds, Inc. (404) 491-1311
- John Sours or Grant Jurgensen of Jacklin Seed Company (800) 635-8726



- Northern Mix
- Southern Mix
- Either Mix



Lofts Inc.

Bound Brook, New Jersey 08805

Jacklin Seed Company

Post Falls, ID 83854

Create a Colorful Difference



Good

New Rubigan™ sends these And then some.

Unwanted, unloved, unwarranted. So the logical course of action is to evict these tenants before they call your turf their own.

Broad spectrum control.

Dollar spot (even fungicide resistant strains), large brown patch, fusarium blight, stripe smut and pink or gray snow mold—all these blots on the turf-grass can now be effectively controlled by Rubigan. And, if other undesirables are lurking in the neighborhood, Rubigan is compatible with most contact or systemic fungicides commonly used on turf.

Preventive and curative action.

Rubigan provides you with the flexibility to manage a disease prevention program and at slightly higher rates, provides curative action on dollar spot and large brown patch. More to

the point, Rubigan acts as an enforcer that prevents turf diseases from making themselves feel at home on tees, greens and fairways.

Unlikely development of resistance.

Rubigan has a mode of action involving three or more sites of inhibition. (A multi-site inhibitor.) Years of successful use outside of the U.S., as well as trial usage in the U.S., have shown that susceptible fungi commonly found in turf have not been able to develop resistance to Rubigan.

Longer-lasting control.

Rubigan is a very active, concentrated product. Long lasting control allows for longer intervals between

fuel and labor costs. What's more, lower use rates mean less storage and lower handling costs.

Rapid leaf penetration.

Rubigan is a foliar-applied, locally systemic fungicide. It is absorbed almost immediately into leaf tissue and is not susceptible to washoff by rainfall or irrigation once the spray has dried. While the spray is drying, the active ingredient sets up shop inside the plant where it can't be washed out. Disease protection begins immediately after application.

Excellent turfgrass safety.

No adverse effects or discoloration occurs when Rubigan is used at

spraying. You can reduce the number of application trips and save on





riddance.

turf fungi packing.

recommended rates. Your university turfgrass research personnel will tell you that Rubigan is as beneficial to your turf as it is destructive for five major turf diseases. For more information on cost-efficient Rubigan, contact your distributor or write: Elanco Products Company, 740 S. Alabama St., Dept. E-455, Indianapolis, IN 46285.

reduction of this species from the turfgrass area. Cumulative dosages of 5 pounds of RUBIGAN 50W per acre or 2 ounces per 1,000 sq. ft. are usually necessary for this response to occur. Turfgrass areas containing *Poa annua* which cannot tolerate its reduction should not be treated with RUBIGAN.

Rubigan™ (fenarimol, Elanco Products Company)

Precautions: Applications of RUBIGAN to turfgrass areas containing *Poa annua* (annual bluegrass) may result in the gradual



ELANCO

Rubigan. It's spreading.

For best results, always read and follow the label directions.

ELANCO
 Elanco Products Company
 A Division of Eli Lilly and Company
 Indianapolis, IN 46285

UPDATE

First woman ASLA president named

Darwina L. Neal, FASLA, a senior landscape architect with the National Park Service in Washington, D.C., was installed as the new president of the American Society of Landscape Architects at the 1983 Annual Meeting recently. She is the first woman president of the organization, succeeding 35 consecutive male presidents.

Neal's goal is to stress the need to strengthen the role of landscape architects in influencing public decision-making to ensure full consideration of environmental issues.



Darwina Neal and Theodore J. Wirth

"No longer can landscape architects merely react to changing societal conditions. We must identify forces of change, define their impacts on our nation's future and identify ASLA's role in leading the profession to meet these challenges," Neal said.

Neal succeeds Theodore J. Wirth of Wirth Associates, Billings, MT. President-elect is Robert Mortensen, FASLA, Mortensen Associates, Falls Church, VA.

Cleveland architect awarded President's Medal

William A. Behnke, FASLA, president of Behnke Associates, a Cleveland landscape architecture firm, was awarded the American Society of Landscape Architects' President's Medal recently.

The ASLA President's Medal is given each year to an ASLA member in recognition of unselfish and devoted service to the national society.

In presenting the medal to Behnke, outgoing ASLA president Theodore J. Wirth said, "Bill's dedication to the advancement of the profession and the Society has been a continual inspiration to us all. This award is offered in special recognition of his outstanding accomplishments, which have contributed greatly to the growth of ASLA over the last decade."

A past national president of ASLA, Behnke has served on most major committees of the professional association and was elected a Fellow in 1975.

SNOW MOLD from page 14

Zontek also said covering greens to obtain early green-up may further encourage snow mold development.

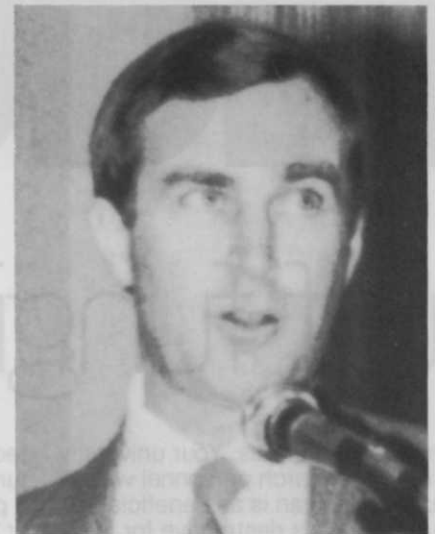
GOLF

8 tips for supers to increase professionalism

Professionalism is an elusive attribute.

Dave Harmon, superintendent at the Golden Horsehoe Golf Club in Williamsburg, VA, outlined some suggestions for increased professionalism for golf course superintendents at the recent Virginia Turfgrass Association Convention in that city.

"We (superintendents) are as much professionals as doctors and lawyers," he said. "People put faith in our advice."



Dave Harmon

Harmon suggested the following areas as starting points to a more professional image:

- Make sure the lane to the maintenance headquarters is clean and neat. This may be the first impression a visitor gets of the maintenance operation.
- Make sure your clothes are neat and clean and wear a shirt with the club's monogram on it.
- Organize your office files.
- Foster a good relationship with your golf pro. Initiate a weekly round of golf or lunch to get to know each other.
- Make sure you take the time to train your crew properly. Encourage employees to attend special schools

continued on page 20

Subdue. The most effective fungicide against Pythium blight and damping-off.

Pythium weather. High temperatures, high humidity and high anxiety. Once Pythium takes root, it can destroy turf within hours.

Unless you take a grass-roots approach to Pythium. With Subdue.

Subdue works both on contact and systemically.

Subdue fights Pythium blight and damping-off—as well as downy mildew (yellow tuft)—in two ways. On contact, Subdue destroys

the fungi in the soil. Systemically, Subdue prevents disease from within grass plants. That's because Subdue is water soluble—easily absorbed by roots. So Pythium—and now, downy mildew—don't have a chance.

Subdue also controls costs.

Subdue's systemic action means longer, more effective residual

protection. Fewer applications. Lower chemical costs. And savings in maintenance and labor. And Subdue's low application rate—1 to 2 fluid oz. per 1,000 sq. ft. for 10 to 21 days on established turf—makes Subdue the most cost-efficient protection you can buy.

Before Pythium weather strikes, subdue it. Use Subdue in a preventive maintenance control program. And get a good night's sleep.

Ciba-Geigy, Ag Division, Box 18300, Greensboro, NC 27419.

CIBA-GEIGY

© 1983 Ciba-Geigy Corporation

A photograph of a house at night. The house has a dark exterior with a prominent white window frame. A person is visible looking out from the window. The house has a porch with a railing. The overall scene is dark, suggesting nighttime.

**HOW TO AVOID SLEEPLESS NIGHTS
DURING PYTHIUM WEATHER.**

SUBDUE

Circle No. 207 on Reader Inquiry Card

UPDATE

USDA changes lawn seed regs

The U.S. Department of Agriculture has amended the Federal Seed Act to give turf seed growers ten additional months between germination testing and shipment.

Before the change, which took effect in February, seed companies had to ship seed within five months of germination tests. Since the growers convinced USDA certain grasses maintain germination qualities longer than previously thought, they now have 15 months after doing tests before they have to ship.

The change applies to bentgrass, Kentucky bluegrass, chewing fescue, hard fescue, red fescue, tall fescue, annual ryegrass and perennial ryegrass.

The Federal Seed Act is a truth in labeling law. It requires seed growers to provide information on the components and germination rates of the seed on the label. Each component of the seed mix must be listed in order of predominance and the oldest germination test must not be older than 15 months.

Briefs pour in for Monsanto case

The Who's Who of the chemical industry have lined up behind Monsanto in its Supreme Court case against EPA and Stauffer Chemical Co. by submitting amici curiae briefs to the Court in late January. Monsanto is suing EPA for allowing Stauffer to use safety data to support registration of a product similar to Roundup.

American Cyanamid, American Hoechst, BASF Wyandotte, Chevron, Ciba-Geigy, Dow, duPont, Elanco, ICI Americas, MoBay, PBI Gordon, Rhone Poulenc, Rohm & Haas, SDS Biotech, Union Carbide, Uniroyal and Zoecon have all told the Court that they side with Monsanto. Stauffer filed its own brief telling the Court that FIFRA never adequately provided just compensation for data developers and that registrations acquired under the existing law should not be retroactively nullified.

Monsanto and the other chemical companies contend data required for registration are "trade secrets" and not the property of EPA once submitted.

Meanwhile, SDS Biotech has asked EPA to cancel a registration for chlorothalonil (Daconil 2787) by Griffin Corporation saying it never gave and never will give Griffin permission to use SDS Biotech data. EPA intends to hold cancellation hearings on the Griffin technical chlorothalonil registration.

Child-proof exemption proposed

EPA has proposed exempting from child-proofing laws insecticide containers greater than one gallon or 40 pounds and herbicide and fungicide containers larger than five gallons or 75 pounds. EPA said containers in these sizes are used by commercial users and are not stored around children. A final ruling is due this month.

HARMON from page 18

and courses. And don't neglect your own continuing education.

■ Set up a viable purchasing system and inventory control. Send out bid lists to track down the best deal on all supplies.

■ Keep course equipment in good working order and have an equipment inventory.

■ When you have a problem or need advice, ask for it. A true pro will never hesitate to ask for help. When someone comes to you for help, give it freely and willingly. Get to know your county extension agent. They can become valuable friends.

PEST CONTROL

Ecogen is new bio pesticide company

A new company has sprouted in the field of biological pest controls.

Ecogen Inc. is focusing on microbial and viral pesticide products derived from the latest advances in biotechnology. The company will also be involved in the development of specialty pest control products with applications in agriculture, forestry and households.

The company will also be involved in the development of specialty pest control products with applications in agriculture, forestry and households.

John E. Davies is president and chief executive officer, formerly senior vice president and general manager of the Agrochemical Division of Rhone-Poulenc, Inc.

Bruce C. Carlton, Ph.D is vice president of research and development. He is a professor of molecular and population genetics at the University of Georgia, Athens. Harold V. Smith is Chairman of the Board.

Ecogen Inc. was founded by Johnston Associates, Inc., Princeton, NJ.

GOLF

PGA Tour OKs mobile golf workshop

The PGA Tour will have a mobile golf workshop that will travel with it the entire season, logging about 100,000 miles.

The mobile unit is the brainchild of Mizuno Golf Company USA, the American marketing arm of Mizuno Corporation, headquartered in Osaka, Japan.