

Agile as a cat

**Jacobsen Turfcats II gives you
all the moves for quality cutting.**

Get the agile machine with the moves of a cat. Get a Jacobsen Turfcats II.* It's a fast-moving, clean-cutting mower. With all the power and maneuverability you need.

Smooth power steering makes your job easier. The dependable hydraulic design saves time and fatigue, while increasing productivity.

Turfcats II grips the ground with hydrostatic traction. Just a touch with your right foot delivers variable speed for precise maneuvering. And your left foot pedal can hydraulically raise or lower any mounted implement for easy transport.

Four-wheel wide track stance

provides excellent stability. With four large tires, you get good curb-climbing ability, and real operator comfort.

The heart of the hard-working Turfcats II shown here is a rugged 23 hp, 51.6 cu. in., 4-cylinder, liquid-cooled Continental gasoline engine. It's designed for durability, performance and long life. Other gasoline and diesel engines are available in a variety of sizes.

And you'll get cleaner, cooler engine operation with our special dual screened radiator. A handy warning system alerts the operator when to clean screens—for longer engine life.

Best of all, you'll like the

superior performance of the rotary decks. You get a clean, smooth quality cut on all types of turf. And the agile Turfcats II handles extra close trimming with ease.

Turfcats II offers you lots of other advantages. Like easy service access; an extra large air cleaner; and a mechanical or hydraulic P.T.O. drive with a wide choice of implements to give you a complete year 'round system.

So if you need a fast, maneuverable machine with all the moves, pounce on a Turfcats II.

It's as agile as a cat. Jacobsen Division of

Textron Inc., 1721 Packard Ave., Racine, WI 53403. J-1-4

*Choose from five models, diesel and gasoline, with three-wheel or four-wheel configurations and a variety of deck sizes.

**JACOBSEN
TEXTRON**

Jacobsen Division of Textron Inc.

Engineered from the ground up.

Circle No. 125 on Reader Inquiry Card

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UPDATE

A super's best friend

"I'm sold on them. A person can do anything a computer can do, but it's not as easy or as efficient."

Those are the sentiments of James F. Moore, golf course superintendent at Ridgewood Country Club in Waco, TX, and president of the Texas Turfgrass Association.

As computers and "computerese" creep their way into more and more industries, Moore told an audience at the recent Texas Turfgrass Association Convention in Houston, that superintendents can do their jobs more efficiently and in less time with a little help from a personal computer.

Moore applied his \$4200 system to six areas of his job: equipment maintenance, employee records, daily records, available products, budget and communications.

"It can do as much or as little as you want it to," he said.

One of the largest areas where his computer has come in handy is in the equipment maintenance area.

"With a computer, you can easily keep a record of every repair on a piece of equipment and when it was made and why," he said. "This helps tremendously when you have to convince a greens committee it's time to buy a new piece of equipment. You have a complete record of everything done.

"I could live without a computer on the job, but I'd hate to try now that we have one."

Watson on maintenance levels

Developing a long range plan for maintenance levels on your course -- one that is approved by the club's membership and is greens committee-proof -- is one of the best ways to insure first-rate course maintenance, according to James Watson, vice president of customer relations and agronomist with the Toro Co.

Watson, speaking at the Texas Turfgrass Conference in Houston, said it is up to the superintendent to keep the lines of communication open between the membership and greens committee to insure proper maintenance levels.

"No matter what your budget, strive for consistent application of fertilization, watering, mowing, cultivating and disease, insect and weed control," said Watson. "Of course the intensity with which you go about any of these boils down to the budget."

Watson also said a thorough soil analysis for texture, structure, porosity, air-water relationships, compaction and organic matter is important before application of cultural practices.

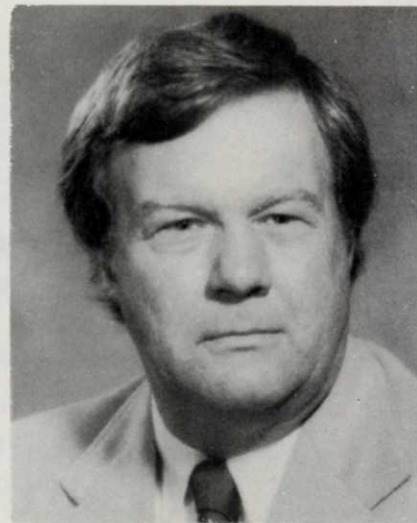
Course development almost in a boom

Golf's growing popularity and lower interest rates are being credited with an increase in new golf course development.

The National Golf Foundation's Golf Facility Development division reports it supplied more than 100 golf course planning groups in 31 states with basic golf course planning and operational information, including estimated course development costs, to assist them in developing new golf facilities.

Requests for help came from all over the country and pertained to all types of courses.

E-Z-GO from page 8



L.T. Walden, Jr.

traffic, order entry, service parts, warranty, field service and quality assurance departments. He also oversees the firm's service training schools and currently is acting director of project engineering.

CHEMICALS

Monsanto expands research facilities

The Monsanto Co. has announced plans to build a multi-million dollar addition to its research and development facilities currently under construction in west St. Louis County, MO.

The addition includes a two-story building that will house process-development laboratories for the firm's plant-growth regulator, animal-nutrition and human health-care products. Scheduled for occupation by late next year, the new facility is to be fully operational by 1985.

According to a Monsanto spokesman, an estimated \$150-\$170 million pricetag for the entire facility is "within the ballpark" of the project's cost, including the new addition.

CONFERENCES

Houston conference tops ever, draws 760

The Texas Turfgrass Association's 38th Annual Convention and Trade Show attracted more than 760 registrants, the group's largest turnout ever.

continued on page 16

1984 PGA putts on PENNCROSS



18th green at Shoal Creek, Shoal Creek, Alabama

Shoal Creek, Alabama

At the rugged Shoal Creek course, host of the 1984 PGA Championship August 16-19, 1984, the touring professionals will again be putting on Pennncross creeping bentgrass. Pennncross and Penneagle, the Penn Pals, are no strangers to the pros. Most of the recent major championships have been played on one or the other. The Western open at Butler was played on Penneagle fairways and greens. The 1983 US Open at Oakmont was played on Penneagle tees, fairways and greens. Maybe you saw the sixty-foot putt on Penneagle.

So, when the Shoal Creek course was designed, it's no wonder Pennncross was specified for the putting surface. It was a 'natural' to choose Pennncross bentgrass, with its glorious history, for a course with a sparkling future!

The PENN PALS



Penneagle's Oregon certified blue tags qualify for cash awards to qualifying turf organizations for turf research. Call our toll-free number for details. Marketed by **TEE-2-GREEN Corp.**, PO Box 250 Hubbard, OR 97032 1-800-547-0255 TWX 510-590-0957



The grass along the fence in the photo at left was killed with a fast-acting systemic post-emergent herbicide. Obviously, no professional groundskeeper could abide this ugly mess, so the dead vegetation has to be removed with expensive hand labor. The systemic product is recommended for lawn renovation so, naturally, vegetation will

grow back as new seeds germinate, resulting in an endless cycle of retreatment, ugly dead vegetation and more hand labor. Clean up a fence line with Dyclomec and vegetation will never again be a problem, because an annual pre-emergent application of Dyclomec will form a vapor barrier and keep the area absolutely clean.

Dyclomec turns Problem Areas into Beauty Spots

... and the vapor barrier eliminates repeated investment of hand labor to clean out dead vegetation.

Dyclomec is surely the most efficient herbicide that has ever been offered to professional landscapers. In fact, it is called the *landscaping herbicide*.

Now, at last, the groundskeeper can easily and economically achieve that manicured look, which consists of contrast. Of sharply defined areas where immaculate turf is contrasted with areas of beautiful, naked earth. Where ornamentals grow in an area of beds that are free of any distracting growth.

Until the advent of Dyclomec, such pristine landscaping could only be achieved with repeated investments of hand labor to clean out dead vegetation resulting from an endless cycle of

regrowth and retreatment with a systemic herbicide.

But once an area has been cleaned up with Dyclomec, hand labor to remove dead vegetation will never again be necessary because an annual application of Dyclomec will keep the area absolutely clean. How is this possible?

On the page at the right are step-by-step illustrations of how Dyclomec works. Understanding its principle will help you discover the many labor-saving, money-saving ways it can help you in landscape maintenance.

We urge you to read it carefully and call us toll free if you have any questions.



Dyclomec Applicator for Uniform Distribution

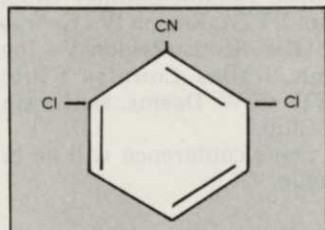
Because proper distribution of Dyclomec is important, this patented Acme Spred-Rite® G Spreader is the ideal tool. Granules are gravity-fed through deflector spikes that give a uniform pattern. Hold the head high for a wide swath; lower for a narrow swath; remove it for the finest line of control. Regulate flow with interchangeable orifice disks. Spreads any granular material. Lightweight. No moving parts.



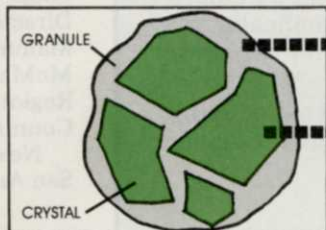
Dyclomec with its pre-emergent and post-emergent action is ideal for vegetation control in mulch, or bark around roses and ornamentals, or in flagstone and

gravel walkways. It works its way down to the ground and forms a vapor barrier which provides season-long weed control and maximum safety to desirable plants.

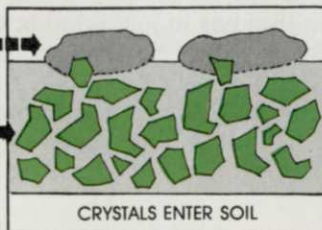
How Dyclomec controls weeds without harming ornamentals:



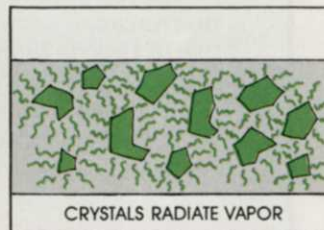
1. Dyclomec is a 2,6-dichlorobenzonitrile, commonly known as Dichlobenil. This unique herbicide goes directly to a vapor stage without going through a liquid stage. It is activated by temperature and soil moisture.



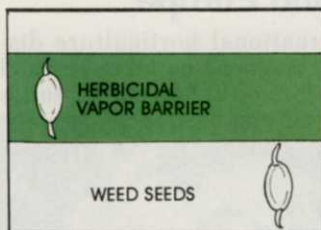
2. This remarkable herbicidal compound of razor-thin crystals is uniquely processed by PBI/Gordon to make a precise granule.



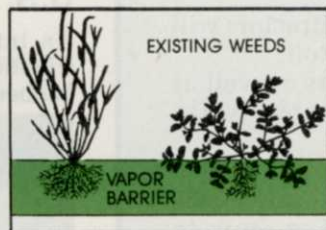
3. Granules are spread on soil surface. Moisture carries the Dyclomec crystals into the upper layer of soil. Because of adsorption by soil particles, lateral movement is minimal.



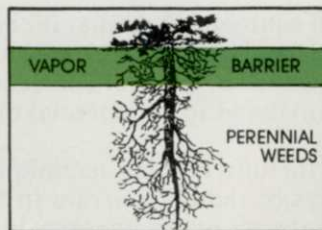
4. Temperature and soil moisture activate the Dyclomec crystals and they begin to radiate a herbicidal barrier. This continues for an entire growing season, and the spent crystals disappear, leaving no residue.



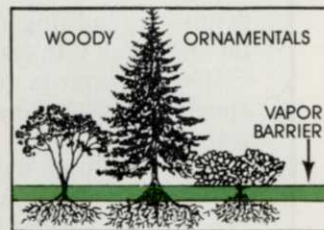
5. In this vapor barrier no plant cell division can occur. Seeds trying to germinate in the barrier will die. Sprouts below this zone will be killed as they try to penetrate the barrier.



6. Existing vegetation such as shallow-rooted grasses and annual weeds having root structures in this barrier will likewise be affected and die after two to three weeks.



7. Certain perennial weeds coming out of dormancy and attempting new growth within the Dyclomec barrier will run into the same dead end: they will be killed by the vapor.



8. Dyclomec, when used as directed, does not affect woody ornamentals, shrubs and trees that have deep roots extending well below the herbicidal vapor zone.



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Dyclomec 50-lb. bag not available in Washington, Oregon, Idaho, Neither size is available in California.

Call Gordon's
Technical Service Department

If you have any questions about where and how to use Dyclomec, we invite you to call us. Our technical people have a combined experience of 95 years in working with the Dyclomec chemical.

TOLL FREE 1-800-821-7925
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Circle No. 141 on Reader Inquiry Card

UPDATE

Loss of large ficus high, Florida marl planting suspected

An unusually high mortality rate for large ficus trees has been reported by many interior landscape contractors during 1983, according to Dick Ott, chairman of the Associated Landscape Contractors of America's Interior Landscape Division.

Most contractors have reported that the loss shows up among large ficus that had originally been grown in the field in Florida and subsequently transplanted into large containers. The trees were then held by other Florida nurseries in acclimatizing houses and eventually sent to the contractors for installations.

Where losses have occurred, an unusually large percentage of the trees installed have been lost.

Growers in Florida are generally aware of the problem, as are the research people at the University of Florida, although there is no consensus among them as to just what is specifically the cause of this developing problem, or, for that matter, whether there is a single cause.

There is agreement on one thing, however; most of the dying trees have been grown in fields of Florida marl before they have been transplanted.

Estimating seminar planned for March in Houston, Dallas

A one-day bidding and estimating seminar for contractors will be on March 9 in Dallas and on March 10 in Houston.

The seminar is designed for general contractors as well as specialty contractors involved in commercial or public works projects.

Session topics will include bidding techniques to improve project cash flow, ways of reducing errors in the estimating process, the disadvantages of percentage billing, how to develop a good cost accounting system and effective ways to ensure accurate communication between office and in-field employees.

Preregistration is required and enrollment is limited to 60 people. Enrollment fee is \$135. For more information on registration, contact The Idea Bank in Tempe, AZ, (602) 829-1233.

ALCA plans student field days

The Associated Landscape Contractors of America will sponsor its 8th Annual Student Field Days March 23-25 at Ohio State University's Agricultural Technical Institute in Wooster, OH.

The three day competitive event allows students from horticultural programs from colleges across the country to compete in events which directly relate to the skills necessary for a career in the horticulture industry.

Eighteen colleges are expected to participate in this year's event. For more information, contact Kent D. Hammond, ATI Dover Road, Rt. 250, Wooster, OH, 44691, (216) 264-3911.

CONVENTION *from page 12*

"Registration was much better than expected and it sure feels good," said Dr. Richard Duble, conference chairman and turfgrass specialist, Texas A&M.

Noted turf and industry specialists from Texas and across the country conducted seminars during the four-day show.

New officers elected to the association are: James Moore, superintendent, Ridgewood Country Club, Waco, TX, president; Gary McElvaney, Chemical and Turf Specialty, Dallas, TX, president-elect; Jerry Roberts, vice president, director of development, Laurel Land, Ft. Worth, TX, vice president.

Directors include: Region III - Louis Quick, Denton Country Club, Director of NTTA; Region IV - George Manuel, O.M. Scotts; Region V - Joe McMahan, Dallas Country Club; Region VII - R.W. Deems, Herlingen Country Club.

Next year's conference will be in San Antonio, TX.

INTERNATIONAL

Trade venture links U.S. and Europe

An international horticulture distribution company based in Holland has been formed by Shemin Nurseries



Emanuel Shemin

Inc. in a joint venture with the Weyerhaeuser Co.

Shemco International (CQ) B.V. has been formed to initiate horticultural trade between the United States and Europe and within Euro-

continued on page 20

Inquiries serviced for 90 days from date of issue. For those countries outside the U.S., please apply appropriate postage before mailing.

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For more information on products or services mentioned in this issue, circle the corresponding numbers below, fill in appropriate information and mail today.

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- 0005 Golf courses
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 0050 Cemeteries/memorial gardens
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 0070 Multiple government/municipal facilities
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B. CONTRACTORS/SERVICE COMPANIES/CONSULTANTS:

- 0105 Landscape contractors (installation & maintenance)
 0110 Lawn care service companies
 0125 Landscape architects
 0135 Extension agents/consultants for horticulture
 Other contractor or service (please specify) _____

C. SUPPLIERS:

- 0205 Sod growers
 0210 Dealers, Distributors
 Other supplier (please specify) _____

Approximately how many acres of vegetation do you maintain or manage? _____

What is your title? (please specify) _____

YOUR NAME _____

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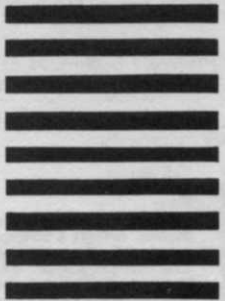
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WE'RE GROWING!

Building and maintaining a business on a profitable basis depends upon **KNOWLEDGE** and **EXPERIENCE**. PLCAA can give you that knowledge and experience. Grow with us!

PLCAA is the only national organization dedicated to serving the needs and interests of lawn care professionals.

Here are just some of the benefits available to you when you join PLCAA:

- **Annual Convention and Show**—The annual PLCAA Convention and Show keeps members abreast of the latest ideas, operating know-how, and industry developments. The national meeting encourages the exchange of new ideas and gives industry suppliers the opportunity to demonstrate products and equipment.
- **Newsletter**—To help members keep up with the latest ideas, trends, and activities of the association and industry, PLCAA publishes "Turf Talks". Included are articles covering current technical, management, economic, legislative and association news.
- **Awareness Program**—Developed to increase the visibility of PLCAA and your participation as a member, the program promotes professionalism and increases the confidence of the public in the integrity of the lawn care industry.
- **Property and Casualty Insurance**—A comprehensive business protection program that protects your company from the dangers of underinsurance and the waste of overinsurance.
- **Soon to be Offered: Major Medical and Group Life Insurance**—Programs designed to serve members with quality insurance at a competitive cost.
- **Technical Resource Manual**—This publication provides members with technical information vital to operating their businesses on a professional and agronomically sound basis.
- **Seminars**—Regional seminars are offered to members at a reduced registration fee. Sessions are aimed at providing agronomic and management information tailored to today's business climate and the lawn care profession.

• **Credit Association**—The Professional Lawn Care Credit Association is designed to meet the collection of delinquent account needs of members. The PLCCA is the only collection service sanctioned by PLCAA, and is open only to members.

• **Legislation Update**—A significant factor in today's business climate is the constant presence of proposed changes in local, state and national legislation and directives by regulatory agencies—changes that could seriously affect the successful operation of your lawn care company. Through PLCAA's Pesticide and Environmental Issues Alert Committee and the Pesticide Public Policy Foundation, Inc., you'll be kept informed of issues and legislation affecting the profession and industry.

Don't stand alone. Participating in your trade association's growth can save you valuable time and money. Invest now and be one of the top profitable businesses in the lawn care market. Grow with us.

ARE YOU?

Tell me more.

The Professional Lawn Care Association is growing! Together we can make things happen. Grow with us. Complete this application for further information and mail it today.

NAME _____ TITLE _____

COMPANY _____

STREET _____

CITY _____ STATE _____ ZIP _____

Mail to: PLCAA, Suite B-220
1225 Johnson Ferry Rd. N.E., Marietta, GA 30067



Professional Lawn Care Association of America

UPDATE

Reagan makes environment priority for election year

President Reagan, the consummate politician, is preparing to take a daring stance during his campaign this year in favor of environmental issues, according to administration officials.

His position is intended to counteract bad impressions made by James Watt at the Department of Interior and Anne Gorsuch Burford at the Environmental Protection Agency. But, it also pushes Reagan toward a confrontation with Big Business.

Meanwhile, both houses of Congress are actively considering environmental legislation, including amendments to FIFRA and the Toxic Substances Control Act. Since Congress was unable to produce this legislation in 1983, continued delay will be fought strongly by lobbyists.

Companies fear label nullification if Monsanto data decision stands

Drexel Chemical Company and Griffin Corporation fear they will lose registrations for current products if the U.S. Supreme Court rules in favor of Monsanto in its registration data suit against EPA and Stauffer Chemical Company.

Du Pont, the initial registrant of linuron, has notified Drexel and Griffin that it will seek to nullify their registrations of linuron products obtained with du Pont's data. At the same time, Zoecon has asked EPA to cancel registration of Sathon's dienochlar miticide, saying Sathon failed to properly arbitrate for use of Zoecon's dienochlar data.

Drexel and Griffin have filed briefs with the Supreme Court in the Monsanto case, along with the Pesticide Producers Association and PPG Industries.

EPA says Monsanto traded data for right to hold registration

EPA has filed its brief in the Monsanto case with the Supreme Court stating Monsanto gave up its exclusive rights to glyphosate health and safety data in exchange for the privilege of a registration.

EPA also defended its arbitration and compensation process in which an EPA arbitrator determines appropriate compensation for use of the data by others, subject to review by an EPA law judge.

EPA toxic waste inspectors want guns, fear for safety

Enforcing hazardous waste laws is dangerous business and EPA inspectors want the same rights as other law enforcement officials.

EPA inspectors have testified to a House committee they face threats daily from criminal elements in the toxic waste business. The committee is investigating why the Department of Justice has not deputized EPA inspectors as EPA had requested months before.

SHEMCO from page 16

pean countries. With headquarters based in Aalsmeer, Holland, Shemco's trade products will include interior foliage, flowering plants and cut flowers, exterior nursery plants and related horticultural supplies and accessories.

Emanuel Shemin, president of Shemin Nurseries, said, "We feel that major market expansion can occur by our becoming part of the European community and having international associates working together for mutual trade benefits."



Carl Johnson, left, President of Sensation, a division of Gilson Brothers Company, presents Sensation's first annual marketing leadership award to Howard Phelps, the firm's founder, recognizing his contributions to Sensation and the power equipment industry.

TURFGRASS

Portz to advise Illinois Turfgrass

Agronomist Herbert L. Portz has been reappointed adviser to the Illinois Turfgrass Foundation.

Portz has been professor of plant and soil science at Southern Illinois University-Carbondale for the past four years. He specializes in turf research and has developed methods for seeding difficult-to-grow zoysia grasses.

Since 1959, the Illinois Turfgrass Foundation has awarded more than \$260,000 in turf research grants to various projects.