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around. It's hard to find an insect that DURSBAN insecticide won't control.

Unlike slower acting insecticides, DURSBAN goes to work as soon as applied ...spring, summer or fall. And for as little as \$3.50 per 10,000 square feet of lawn or turf, it's a lot cheaper than the cost of call-backs.

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Cover: Efficiency is the driving force behind new products for 1984. Shown are Ryan's Ride-Aire, Jacobsen's walk-behind rotary, Toro's Groundsmaster, and Mobay's Oftanol.



Certain trees do well by water, see page 22.

22

Plants Adapted to Watersides Ease Care

Douglas Pullman of Dow Gardens evaluates plants for success along lakes, streams, and ponds. Why manage a plant which is not suited to waterside conditions when many plants are?



More maneuverable mowers, see page 25.

25

New Product Roundup: Emphasis on Efficiency

If you still are using belly mowers on tractors, trim mowers to do medium-sized lawns, or small, slow aerifiers, your work is not as efficient as it can be. Manufacturers have given the professional landscape market a new look and have started making more efficient equipment for 1984.



Getting nutrients to tree roots, see page 32.

32

Fertilizer Guide: Part 3, Trees & Shrubs

In this third and final section, Davey Tree Expert Company's

Funk and Rathjens outline the fertilizer needs of trees and shrubs and the practical methods to meet them. Determining fertilizer needs for an area rather than for each tree is helpful to commercial applicators.

41

1983 Index of Articles and Authors

We want you to save your back issues and also save you the trouble of paging through them each time you are looking for a specific article or author. Each year we provide an index like this to make your research work easier. Make sure your library includes the December index of articles and authors.

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WEEDS TREES & TURF (ISSN 0043-1753) is published monthly by Harcourt Brace Jovanovich Publications. Corporate and Editorial offices: 7500 Old Oak Boulevard, Cleveland, Ohio 44130. Advertising Offices: 757 Third Avenue, New York, New York 10017, 111 East Wacker Drive, Chicago, Illinois 60601 and 3091 Maple Drive, Atlanta, Georgia 30305. Accounting, Advertising Production and Circulation offices: 1 East First Street, Duluth, Minnesota 55802. Subscription Rates: \$16 per year in the United States; \$20 per year in Canada. All other countries: \$45 per year. Single copies (pre-paid only): \$2 in the U.S.; elsewhere \$4.50; add \$3.00 for shipping and handling per order. Second class postage paid at Duluth, Minnesota 55806 and additional mailing offices. Copyright © 1983 by Harcourt Brace Jovanovich, Inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical including photocopy, recording, or any information storage and retrieval system without permission in writing from the publisher. Microfilm copies of articles are available through University Microfilm, International, 300 N. Zeeb Road, Ann Arbor, Michigan 48106.

POSTMASTER: Send address changes to WEEDS TREES & TURF, P.O. Box 6198, Duluth, Minnesota 55806-9898. **HBJ** A HARCOURT BRACE JOVANOVIH PUBLICATION



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Circle No. 106 on Reader Inquiry Card



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

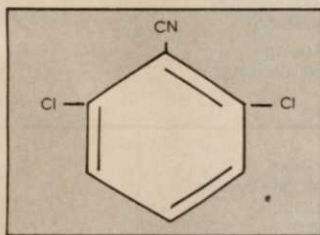
Because proper distribution of Dyclomec is important, this patented Acme Spred-Rite® G Spreader is the ideal tool. Granules are gravity-fed through deflector spikes that give a uniform pattern. Hold the head high for a wide swath; lower for a narrow swath; remove it for the finest line of control. Regulate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



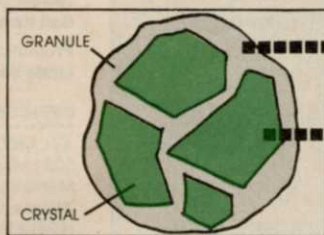
Dyclomec with its pre-emergent and post-emergent action is ideal for vegetation control in mulch, or bark around roses and ornamentals, or in flagstone and

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.

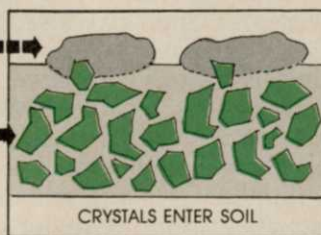
How Dyclomec controls weeds without harming ornamentals:



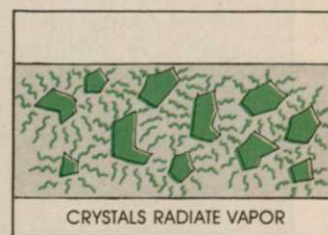
1. Dyclomec is a 2,6-dichlorobenzonitrile, commonly known as Dichlobenil. This unique herbicide goes directly to a vapor stage without going through a liquid stage. It is activated by temperature and soil moisture.



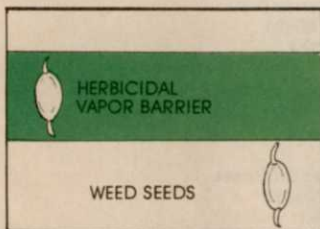
2. This remarkable herbicidal compound of razor-thin crystals is uniquely processed by PBI/Gordon to make a precise granule.



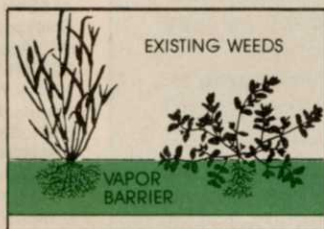
3. Granules are spread on soil surface. Moisture carries the Dyclomec crystals into the upper layer of soil. Because of adsorption by soil particles, lateral movement is minimal.



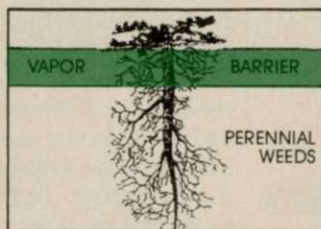
4. Temperature and soil moisture activate the Dyclomec crystals and they begin to radiate a herbicidal barrier. This continues for an entire growing season, and the spent crystals disappear, leaving no residue.



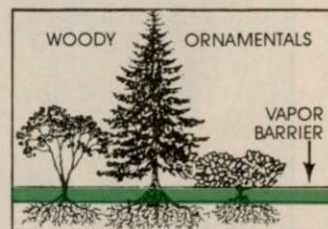
5. In this vapor barrier no plant cell division can occur. Seeds trying to germinate in the barrier will die. Sprouts below this zone will be killed as they try to penetrate the barrier.



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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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.

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Circle No. 115 on Reader Inquiry Card

By Bruce F. Shank, executive editor

Who'll be number two and three in the lawn care industry?

If Mark Parr is right, two more \$100 million plus lawn care companies are going to pop up in the next few months or years.

Parr, a market analyst for Rouleston Co., of Cleveland, says every established market has at least three major companies and the lawn care market lacks two. His job is to investigate companies in markets to determine their potential for investors. He has studied ChemLawn and the lawn care market for more than a year.

Few companies are close to ChemLawn's \$150 million plus in lawn care services. Orkin, a division of Rollins, is in the big leagues if you combine pest control with lawn care. There are perhaps ten other companies doing between \$10 and \$30 million in lawn care on a regional basis; including Tru Green, Evergreen, Lawn Doctor, Davey and others.

Parr described how numbers two and three can be created. One way is large regionals combining under a holding company. They maintain their individual identity but gain the advantages of being larger. The buying power of large companies is beginning to entice manufacturers into selling direct, as they often do to the government.

Another way is investor groups, foreign or domestic, buying out existing lawn care companies. Such groups are actively studying the industry. They have enough faith in the lawn care market to invest millions long term. Meanwhile, owners of lawn care companies established in the 60's and 70's may be interested in cashing in.

Finally, Parr thinks privately-held lawn care companies may decide to go public to generate cash for expansion or to increase the value of their stock. He says this option is often overlooked.

By this time next year there may be two or more lawn care companies in the \$100 million bracket.

WTT



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REGULATIONS

Pesticide fight approaches boiling point

After ten years of regulation under the Federal Insecticide Fungicide Rodenticide Act (FIFRA), pesticide manufacturers and users seem more involved in legal disputes than at any other time in the history of the Act.

Hearings on extension and amendment of FIFRA in Washington, D.C., new state laws on pesticide use, and a Supreme Court case to determine compensation to Monsanto for use of its glyphosate data by competitors all have associations preparing defenses.

Green Industry organizations are reacting quickly and professionally. You expect the National Agricultural Chemicals Association (NACA) to respond with "big guns", but today we are seeing very organized defenses being developed by the National Arborists Association (NAA) and the Professional Lawn Care Association

of American (PLCAA) because they have combined their muscle in a group now known as the Pesticide Public Policy Foundation (PPPF). This new group has contracted a paid staff and applied to be incorporated as a non-profit foundation through a Washington, D.C. law firm. It has already received pledges of \$50,000 and expects the 2,4-D Coalition to merge with it soon. NAA has asked members to donate .5 percent of their chemical sales to the group.

The American Association of Nurserymen keeps close watch on legislative activities, but is currently adjusting to the retirement of its lobbyist Leo Donahue. The Golf Course Superintendents Association of America is reviewing its involvement in governmental affairs under new Executive Director John Schilling.

During recent hearings by a House Subcommittee considering amendments to FIFRA, NAA Executive Vice President Robert Felix testified along with representatives of the National Wildlife Federation, the National Audubon Society, and NACA.

PPPF is establishing a group of listening posts to alert the organization of local or state legislation to defend the industry against anti-pesticide legislation, such as recently passed in Wauconda, IL.

The facts that EPA has a new administrator which environmental groups are lobbying hard, that FIFRA is up for extension, and that there is considerably more anti-pesticide legislation activity at the state and local level, all indicate an organized industry defense is needed more today than at any time since the law was passed.

PGMS seeks full-time executive director

The Professional Grounds Management Society has begun a search for a full-time executive director, replacing its current part-time director.

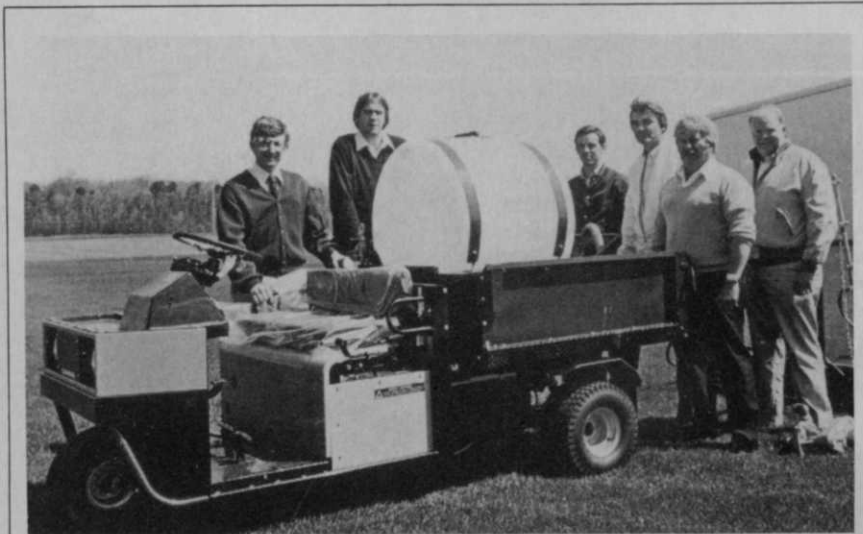
Allan Shulder, grounds supervisor at the Greater Baltimore Medical Cen-

ter for the past 18 years, has been the executive director of the 1,100-member organization on a part-time basis for the past six years.

The move to a full-time director was decided at a board meeting at the group's 71st annual conference in Cincinnati. Mort Rolsky, PGMS treasurer, told WEEDS TREES & TURF, "The board decided that in order to

promote the organization properly, we needed someone who could devote time to it during the normal work day, when most (business) people are in and our members are out working."

Rolsky said qualifications for the new director will be in the public relations, marketing field, a recent college graduate or an assistant to a pr/marketing director. The search committee would like to be interviewing candidates by April.



Drs. Paul Rieke and Bruce Branham of the Michigan State University Crop and Soil Sciences Faculty and Michigan Turfgrass Foundation Board members Ed DeJong, John Read, Jerry Gill and Robert Hope inspect a portion of the turf care equipment recently presented to the foundation for use by MSU. The equipment is on loan to the university through a unique program sponsored by OMC-Lincoln, makers of Cushman and Ryan Turf care equipment, in cooperation with Spartan Distributors of Sparta, MI.

SEED UPDATE

Bentgrass harvest wrecked by rain

This summer it looked like the bentgrass seed harvest would survive the rain damage experienced with the fescue and ryegrass crops. The rain had stopped and it looked like the bentgrasses, the last seed crop to be harvested in summer, would escape damage in the fields.

But, the rain started falling again and Penncross and Penneagle crops are now reported to be only 30 percent of last year's crop. That means less seed and higher prices.

Tom Stanley of Turf-Seed Inc., of Hubbard, OR, said the bentgrass crop "was a disaster". Tee-2-Green Corp, also of Hubbard, represents growers of Penncross and Penneagle.

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