



# TURFLON<sup>®</sup>

## D HERBICIDE

For the Control of Annual and Perennial Broadleaf Weeds in Ornamental Turf

|   |       |
|---|-------|
| Active Ingredients:   |       |
| 2,4-Dichlorophenoxyacetic Acid, Sodium Salt                     | 34.4% |
| Trifluralin (2,4,6-trichloro-1,1-dimethyl-3-pyridinyl)acetamide | 16.5% |
| Surfactant Ester  | 49.1% |
| Inert Ingredients   | 0.0%  |
| 2,4-D Acid Equivalent 23.7% — 2 pounds per gallon               |       |
| Technical Acid Equivalent 11.6% — 1 pound per gallon            |       |
| E.P.A. Registration No. 484-588                                 |       |
| E.P.A. Est. 484-60-1  |       |

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

**AVISO: PRECAUCION AL USUARIO:**  
 Si usted no lee inglés, no use este producto hasta que le ayude a leer este producto en español.

**PRECAUTIONARY STATEMENTS**  
 Hazards to Humans and Domestic Animals

**HARMFUL IF SWALLOWED**  
 Avoid Contact With Eyes, Skin, or Clothing • Avoid Contamination of Food • Wash Thoroughly After Handling

**STATEMENT OF PRACTICAL TREATMENT:**  
 In case of skin contact, wash skin with plenty of water. Get medical attention if irritation persists. Remove and wash contaminated clothing before reuse.

When it is wet, do not mow or rake. Call a physician.

**Physical or Chemical Hazards**

**COMBUSTIBLE**  
 Do Not Use or Store Near Heat or Open Flame. Do Not Cut or Weld Containers.

**Environmental Hazards**  
 This pesticide is toxic to fish. Keep out of lakes, streams, or streams. Do not contaminate water by washing of equipment or disposal of excess.

See Back Panel for Important Use Precautions.

In case of an emergency, call your local poison control center or hospital. 1-800-424-9293.

**AGRICULTURAL CHEMICAL**  
 Do not contaminate water, food or feed by storage or disposal.

**NOTICE:** Read the entire label. Use only according to label directions.

Before buying or using this product, read "RESTRICTIONS, LIMITATIONS, AND DIRECTIONS" on this label. It contains important information concerning use of this product. Do not use this product if you do not understand the directions on the label. If you do not understand the directions on the label, do not use the product. Call your retailer for more information.

**9.46 L/2.5 gal**

**THE DOW CHEMICAL COMPANY**  
 Midland, Michigan 48667 U.S.A.

© 1988 Dow Chemical Company



# INTRODUCING New TURFLON\* D FIRST LINE OF DEFENSE.



New TURFLON\* D herbicide. Here's a post-emergence herbicide for broadleaf weeds. It's been thoroughly tested by the major universities in the Bluegrass Belt and proven under Experimental Use Permit

(E.U.P.) on hundreds of lawns.

It works. It will reduce callbacks. It will make you money!

Here's why: TURFLON D will get the early season weeds including the tough ones like veronica spp. along with dandelions and other easier-to-kill weeds. A later application gives outstanding control of wild violets, ground ivy, spurge, oxalis and others.

TURFLON D wide-spectrum control works to your advantage when it comes to customer satisfaction. You'll make more money because you'll reduce callbacks, customer cancellations and probably save

**Stops the  
broadleaf invasion...  
...even tough weeds  
like veronica,  
ground ivy, oxalis,  
wild violet, spurge.**

**New  
cost-efficient  
weed fighter!**

a round or two of herbicide application.

TURFLON D herbicide is a combination of triclopyr and 2,4-D that will control both the tough and standard weed species without injuring established cool-season

turf such as tall fescue, bluegrass and perennial ryegrass. It is a low-volatile ester formulation designed especially for professional applications.

And it offers reduced potential for off-target injury because of low volatility and little movement in the soil.

Now there's cost-efficient broadleaf control you can count on. TURFLON D herbicide... your first line of defense... for better weed control! For more information, contact your chemical distributor or write: The Dow Chemical Company, 9001 Bldg, Midland, Michigan 48640.



\*Trademark of The Dow Chemical Company

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## STOP LEAF SPOT FROM THE FIRST OFFENSE TO THE FINAL VERDICT.

Disease is a natural occurrence in nature, which proves that nature isn't as interested in beautiful, playable turf as you are. To overcome nature's little oversight, we present a proven product.

®DYRENE Turf fungicide is proven in control of leaf spot, melting-out, or going-out—popular names for diseases caused by *Helminthosporium (Drechslera)*.

DYRENE works on contact and should be part of any complete program of disease control.

It's compatible with other turf products, plus it provides control of dollar spot, brown patch, copper spot, snow molds, and rusts.

Leaf spot, one of nature's serious afflictions needs serious relief. DYRENE. Always read the label before use.



**DYRENE.**  
**WHEN YOU'RE SERIOUS  
ABOUT LEAF SPOT.**



Mobay Chemical Corporation  
Specialty Products Group  
Box 4913, Kansas City, Mo. 64120

DYRENE is a Reg. TM of Mobay Chemical Corporation.

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The Magazine of Landscape and Golf Course Management Since 1962

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HBJ A HARCOURT BRACE JOVANOVIH PUBLICATION



by **Bruce F. Shank**, executive editor

## Reregistration costs may cause companies to drop old pesticides

Older pesticides may not be worth the \$500,000 to \$2 million investment to meet EPA's reregistration requirements industry insiders say. New pesticides, with patent protection and complete data packages at EPA, will take the place of older ones.

Older products tend to become commodities, with lower profit margins due to competition. Major investment in new data for older chemicals is just not practical insiders say. Newer pesticides, often with complete registration data and new, more efficient production facilities, provide more value added for manufacturers.

## Yank firms add foreign products

The world gets smaller every day as U.S. chemical and equipment companies cut deals with foreign companies to market products here.

Sumitomo Chemical Co. Ltd. of Japan recently completed pacts with Velsicol Chemical and PBI Gordon. Velsicol will jointly market the fungicide Rizolex while Gordon will market the Japanese firm's insecticide Sumithion. Gordon also signed papers with the British company Farmura to market an organic fertilizer in the U.S.

Nearly all small diesel tractors are made in Japan today, even though many are painted U.S. colors. Italian engine and small power equipment companies are aggressively expanding in U.S. markets. Bunton recently joined with JL Traktor of Denmark and also markets a greensmower made in Japan. Toro has recently signed manufacturing agreements with companies in Argentina and New Zealand.

The turf and landscape markets now have an international flavor.

## Biotech heats up universities

Huge biotech research grants from chemical manufacturers have many university fund raisers carrying on like traders on the floor of the futures market.

Some say many solid vocational and specialty programs are being neglected in the heat of passion for biotech, like old wives in a harem with a new teenage beauty.

An untenured assistant professor was recently told he would have to go out and find endowment funds before he could hire someone to help maintain the research center. The instructor is expected to perform notable research, teach, publish, and take care of the research center virtually alone. The state turf foundation may have to provide funds just to have research continue.

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# UNDERCOVER AGENT

## TURCAM<sup>®</sup> INSECTICIDE

For Use Only by Professional Applicators on  
Ornamental Trees, Shrubs and Turf

| ACTIVE INGREDIENT:   | Percent by Weight |
|--|-------------------|
| Bendiocarb: (2,2-dimethyl-1, 3-benzodioxol-4-yl methylcarbamate) | 76%               |
| INERT INGREDIENTS:   | 24%               |
| Total  | 100%              |

\*Protected by U.S. Patent No. 3,736,338

EPA REGISTRATION NO. 45639-59  
EPA EST. NO. 45639-MI-1

### KEEP OUT OF REACH OF CHILDREN WARNING

HARMFUL OR FATAL IF SWALLOWED

#### STATEMENT OF PRACTICAL TREATMENT

**If swallowed** — Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to unconscious person. Get medical attention.

**If inhaled** — Remove patient to uncontaminated area. Keep patient strictly at rest and transfer to hospital immediately to get medical attention.

**If on skin** — Wash with soap and warm water.


**If in eyes** — Flush thoroughly with clean water.

**NOTICE TO PHYSICIAN** — Contains anticholinesterase compound. Advise physician of this fact. Advise patient of this fact. Advise patient of this fact.

An advanced carbamate insecticide that roots out and ruthlessly destroys white grubs, chinch bugs, sod webworms, mole crickets and other lawn and turf "terrorists". This tough operator doesn't get trapped in thatch, thus assuring positive grub control. TURCAM<sup>®</sup> is odorless...works well in spray equipment...won't damage turf or ornamentals. You'll find that TURCAM packs a federally-approved nationwide label, too.

Powerful reasons for assigning TURCAM to your toughest pest control problems.

For more information on TURCAM, including full labeling and recommendations for use, contact your local distributor or write to:

 **NOR-AM**  
NOR-AM CHEMICAL COMPANY  
3509 Silverside Road, P.O. Box 7495  
Wilmington, DE 19803

Circle No. 158  
on Reader Inquiry Card





# Nobody else makes We guarantee it.

## John Deere introduces a two-year, 1000-hour warranty.

It's an industry leader. And it may never be used. Because John Deere builds some of the most durable commercial equipment on the market. The most versatile, too.

Our F910 and F930 Front Mowers maneuver under shrubbery and fence rails, climb over curbs, cut up, down and around hills, handle dips and bumps and mow the straightaway.

They're also easy to service. With attachments and belts that are a snap to work on. And competitively priced parts that are readily available at your local dealer.

It's true that you may never get the chance to use the warranty. But with all these other great features, you'll never know what you're missing.

Hydrostatic power steering eliminates troublesome mechanical linkage and makes tight turns easy — getting you in and out in a hurry.



Dual hydraulic lift cylinders allow the mowing deck to tilt and float up to 12 inches over rough terrain to avoid turf gouging or scalping.

The mowing deck raises 8 inches to clear most curbs without the need for a ramp or driveway.



# a mower this good.



Driver's area is designed for comfort and efficiency — with a high-back driver's seat and two-position footrest to reduce fatigue, and easy-to-reach controls while you ride.

Efficient clean-air intake cooling system protects the 24-hp Onan engine from overheating and clogging with dirt, dust and clippings — so it runs cooler and lasts longer.

Differential lock on the F930 distributes power evenly to prevent wheel-spinning slippage on slopes and provides better straight-line traction — especially on wet grass.

See how owning a John Deere front mower can cut your high cost of mowing. For the dealer nearest you, call toll-free 800-447-9126 (Illinois 800-322-6796), or write John Deere, Dept. 75, Moline, Illinois 61265.



Nothing Runs Like a Deere®

The 20-hp F910 gives you the same great maneuverability for smaller turf-maintenance jobs.

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## ASSOCIATIONS

### ALCA attracts 460 to annual conference

Another Associated Landscape Contractors of America convention is history, but for most who attended the four-day conference at the Kona Surf Resort Hotel in Kona, Hawaii, the convention theme of "Profit in the Pacific" paid off in many ways.

Gail Morgan, executive director of ALCA, said the 460 total registrants learned from the educational sessions as well as from networking among themselves.

"I think we had just the right mix of formal educational sessions and enough time allotted for interaction around the swimming pool or in small groups. There's a lot to be said for learning from each other."

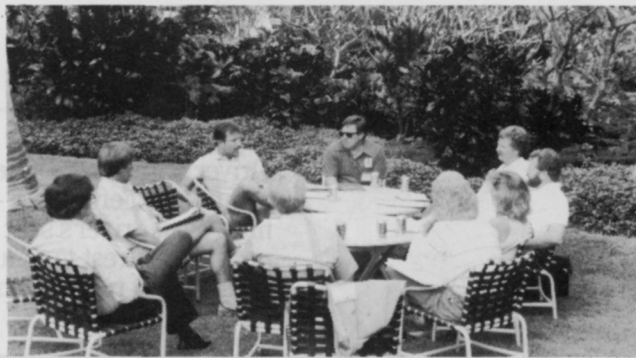
At a luau-styled installation banquet, President Rod Bailey said, "We're ready for growth and it will come. We've set a goal of 25 percent growth in '85. We're celebrating our 25th anniversary with that goal. Together we can do it."

The 26 exhibitors set up shop in the Kona Surf Convention Center and had a "fairly good" flow of traffic.

Warren Hamlin of B. Hayman, Hawaii, said booth traffic was good in general, but slowed down considerably in the afternoons.

"We were pleased with the (exhibit floor) turnout," Morgan adds, "Most exhibitors didn't expect big turnouts every day. The exhibits had to compete with outside activities."

Plans are in the works for the Landscape Maintenance Division of ALCA and the Professional Grounds Management Society to co-sponsor a trade



ALCA board meets in Hawaii.

show next year in Milwaukee.

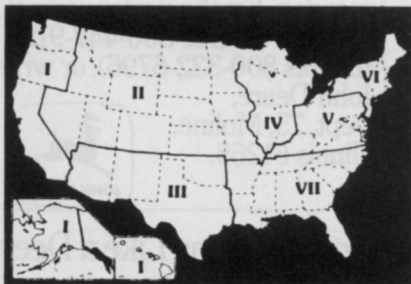
If certain details can be worked out, the two associations would jointly sponsor a trade show, while retaining their own individual educational sessions. Depending on the subject matter, some joint educational sessions may be planned. The boards of each have approved the plan.

## ASSOCIATIONS

### ALCA survey shows wages, procedures

A survey taken at the Associated Landscape Contractors of America Landscape Management Division conference in Atlanta in October gives a composite of the contractor and his company.

There were two parts to the survey—wages and procedures and benefits. Some of the results follow: (Results were listed by region).



**Wages**—Production manager, a high salary of \$48,000 (Region III); low of \$15,600 (Region VII).

Production supervisor, high \$32,000 (Region I), low \$11,400 (Region VII).

Route/Site Foreman, high \$22,500 (Region III), low, \$10,400 (Regions V and VII).

Equipment operator, high \$45,000 (Region III), low \$9,360 (Region II and V).

Crew member, high \$15,000 (Region IV), low \$6,500 (Region V).

Shop foreman, high \$30,000 (Region V), low \$10,400 (Region VII).

Mechanic, high \$26,000 (Region V), low \$9,360.

**Procedures and benefits**—The average survey respondent works eight hours a day, five days a week, beginning his day between 6 and 7 a.m. or 7 and 8 a.m. He gets five paid holidays, zero paid sick days and is given a salary increase annually. Overtime is paid weekly. His company provides him with a uniform and small equipment and hand tools and also pays his medical insurance. The respondent is involved in weekly management meeting with his supervisors/foremen. A weekly activities report is also given to each of his clients.

Equipment damage caused by neglect is the responsibility of the employee. Mowing crews are responsible for pruning and mulching in a majority of the cases.

Most firms answering the survey do not have published job descriptions for all jobs, but they do have a formal policy and procedures manual. A majority employs a full-time gradu-

ate horticulturist on staff.

Most companies pick up the tab for educational fees for job-related courses and give performance reviews every three months. Few companies provide compensation for employee-generated ideas that are implemented. A minority of companies had an incentive program for field personnel.

## PESTICIDES

### Sevin supply good, but questions remain

The supply of Sevin, the insecticide manufactured from methyl isocyanate, (MIC) by Union Carbide, is expected to remain adequate for the 1985 season, according to a spokesman for the company.

Late last year, methyl isocyanate leaked from a pesticide manufacturing plant in Bhopal, India, killing more than 2,000 people and stirring up controversy over the safety of pesticide manufacturing and use.

Tom Arnold of Union Carbide says, "Right now, we don't anticipate any shortages. We're cautiously optimistic but greater than normal uses could change our supply of Sevin. We're suggesting people cover their needs, but don't load up."



**FYLKING**  
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**FYLKING**

Remember the name because you're going to hear a lot about it. Fylking Kentucky bluegrass lawn is something special. It forms a dense, thick turf, more disease and drought resistant. Greens up earlier, stays greener longer. Fylking can be cut as low as  $\frac{3}{4}$  inch, even  $\frac{1}{2}$  inch for home putting greens. Proven over many years of international certified testing. Ask your seed distributor for Fylking.

Fylking — the World's Fair grass.

**FYLKING**  
**KENTUCKY BLUEGRASS**

U.S. Plant Patent 2887

*Another fine, quality-controlled  
product of Jacklin Seed Company.*

**Supplies are excellent.  
The price is right.  
Order Fylking now!**



## Lure of OPEI Show grows, 100 new exhibitors to court buyers

The phenomenal momentum established by the first International Lawn Garden & Power Equipment Expo last year in Louisville continues unabated. More than 100 new exhibitors will court the 10,000 plus distributor/dealer buyers in Louisville this July 29-31. Nearby hotels are already booked up for the second show that boasts outdoor demonstration areas as well as air-conditioned indoor exhibits.

A fourth national association has endorsed the show, the Portable Power Equipment Manufacturers Association. The Outdoor Power Equipment Institute sponsors the show and the National Equipment Servicing Dealers Association, the Engine Service Association, and now the PPEMA endorse and promote the show.

Chemical manufacturers have now discovered the show and will play a growing role in it.

Interested distributors or exhibitors can contact The Kentucky Fair and Exposition Center, P.O. Box 37130, Louisville, KY 40233.

## 400 Case/IH dealers on the block

International Harvester and J.I. Case dealers in the same town are competing for more than business this winter, they are competing for the one dealership that will remain this spring.

Case dealers are basically short-line dealers who carry other short lines to round out their product mix. The new Case/IH dealers will be full-line, meaning competing short-lines will be dropped. But, the strongest distributor in the area, whether Case or IH, will be chosen.

The consolidation of Case's 650 dealers with IH's 1,400 dealers may shake up more than Case and IH dealers. Being one of 400 losers may not be all bad. Other agricultural equipment manufacturers are carefully comparing the Case/IH losers to their own local dealerships. One company's loss may be another company's gain, and who is going to sell the short lines dropped by Case?

Meanwhile, Deere is adding dealers, making a profit on reduced production, and its industrial division increased sales 37% in 1984. Allis Chalmers is looking for a mate, maybe Germany's Deutz or Canada's Massey Ferguson. The local IH dealer may be a Ford or Deere dealer by this summer.

In-the-Middle covers the turf and landscape distributor and dealer. Distributors are invited to send news items to Weeds, Trees & Turf, 7500 Old Oak Blvd., Cleveland, OH 44130.

Because of the questions hanging over the highly toxic MIC, production of chemicals like Sevin and Zectran (for ornamentals) has halted. Arnold says future availability of chemicals using MIC in the production process will depend on how soon Union Carbide can resume production.

Other pesticide manufacturers are strongly considering alternative methods of making certain products, following on the heels of the Indian mishap.

"This nation faces a quiet, but deadly crisis in the millions of pounds of hazardous air pollutants emitted each year, many of which are as toxic as MIC," Rep. Henry Waxman of California has said. Waxman is chairman of the House Energy and Commerce Subcommittee.

Looking to the future of pesticides, the representative of one manufacturer said, "Certainly there's a lot of thinking going on about alternatives to methyl isocyanate but it's too early. We don't know what's going to happen."

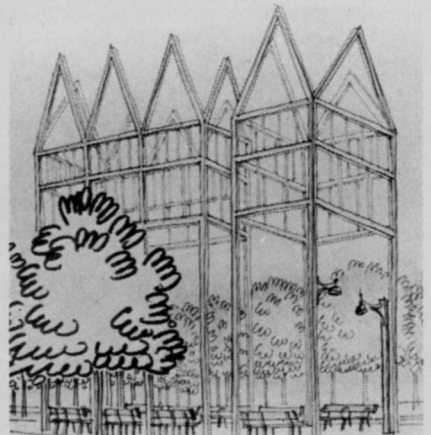
## PARKS

### Bronx parkway to get facelift

Architect Phillip Wild is anxious to see the design he worked up for the entranceway to the Pelham Parkway in New York implemented in coming months. Wild's design—a steel frame pavilion surrounded by suitable shrubbery and plantlife—was chosen over 50 other conceptions, and earned the 28-year-old New York architect \$2,000.

"The pavilion resembles the profile of a house as a reminder that the Pelham Parkway is a community of homes," Wild says. "It addresses the small scale issue of providing a functioning neighborhood park and the large scale issue of providing local identity."

Wendy Fleischer, who administered the contest through the not-for-profit Neighborhood Initiatives



Wild's design for the pavilion