



Look beyond spring. Use DURSBAN to stop fall bugs, too!

Nothing tops DURSBAN* Insecticide for stopping spring-emerging insects in turf. But unless you spray it again in late summer, you could be heading for a fall, come autumn. Because even the long-lasting residual action of DURSBAN won't last quite that long. So you could miss sod webworms and other tardy types.

To protect your customers' lawns from spring through fall, apply DURSBAN Insecticide twice a year—on your first round to control the early risers, and again later in summer to stop the late arrivals.

The cost is reasonable: as little as 46¢ per 1000 sq. ft. application. That makes a double treatment a sound investment for your customers. They get year-long protection against insects. And you avoid the

awesome costs of call-backs and weakened customer relations.

DURSBAN will get just about every bug you want it to... chinch bugs, sod webworms, bill bugs, turfgrass weevils, armyworms, cutworms, ants and more. So look beyond spring. Apply DURSBAN Insecticide twice this year and get the fall bugs, too.

DURSBAN insecticide. In familiar 2E and concentrated 4E liquid formulations, and now 50W wettable powder. See your Dow distributor. And ask about our new "DURSBAN Delivers The Goods" incentive program. Be sure to read and follow all label directions and precautions. Agricultural Products Department, Midland, Michigan 48640.

DURSBAN

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Dow Chemical U.S.A.

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Circle No. 109 on Reader Inquiry Card

4901

WEEDS TREES & TURF

The Magazine of Landscape and Golf Course Management Since 1962



22 Disease Control Guide: Cool-Season Strategy

Dr. Joe Vargas, turf pathologist, Michigan State University, offers the latest tips on controlling major cool-season diseases. Chemical and cultural control are included in this reference you'll want to keep.

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38 Disease Control Guide: Southern Turf Strategy

Dr. Don Blasingame, extension plant pathologist, Mississippi State University, zeroes in on the major diseases of warm-season turfgrasses and overseeded cool-season grasses.



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Compile a reference file of labels and background on turf fungicides by circling the numbers of products listed in this directory on the free information card in the magazine.

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Manufacturers of professional turf equipment step beyond the basic engine:wheels:blade to provide longer life and greater reliability. New cleaning and cooling devices take equipment beyond the homeowner grade.

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line of tractors designed hedgerows.



hitch and a 2,000 rpm rear PTO. And a variety of attachments, including rotary tillers, snow blowers or throwers, front blade, thatchers, 3-point hitch mowers, and center-mounted mowers with 46-, 50- or 60-inch cutting width, depending on tractor.

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For the name of your nearest dealer, or a free folder on the John Deere lawn and garden tractor line, call 800-447-9126 toll free (1-800-322-6796 in Illinois) or write

John Deere, Dept. 50/50T, Moline, Illinois 61265.

John Deere lawn and garden tractors. Made to handle the work around trees, playgrounds and hedgerows... quickly and efficiently.



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Circle No. 108 on Reader Inquiry Card

by Bruce F. Shank, executive editor

Multi-course ownership grows as TPC eyes 20 courses by 1990

The pattern established by Club Corporation of America and American Golf Corporation is being carried a step further by the Tournament Players Club, which has set a goal to own 20 prestige, stadium-style golf courses within ten years.

TPC courses are designed to attract various tournaments and the revenue television and other media shell out. Pete Dye, primary architect for TPC, has a mean pen when he designs the courses.

Word is most of the 20 courses will be new, but a few, such as Edgewood Country Club, are reconstructed to Dye's specifications. See story in Golf Update.

Low dose pesticides may alter application methods in future

New low-dose herbicides and growth regulators, such as Du Pont's Oust and 3M's Embark are testing current application equipment and technique. These products are used in ounces per acre rather than pounds. Slight miscalculations can have harmful results. The value of the products and the sense of low dose pesticides in regard to environmental concerns, will force rethinking of application technology within the next five years. The resources of companies like Du Pont and 3M will see to that.

Housing starts to hit 1.7 million

The National Association of Home Builders are forecasting more than 1.7 million new homes for 1984. The increase may slow in the second half depending upon interest rate increases following the presidential elections. Apartment construction is expected to fall in some areas due to overbuilding.

Ford exec sees landscape boom

Jack Johnson, general sales manager for Ford Tractor North America, expects a complete recovery in construction by year's end. "The key to revival is housing starts," Johnson told HBJ Group Publisher Bob Earley during Ford's product introduction news conference in San Antonio, TX. The company has introduced new tractor/backhoe/loader models specifically for the landscape construction market.



Jack Johnson

STAFF

Executive Editor
Bruce F. Shank, Cleveland
Managing Editor
Maureen Hrehocik, Cleveland
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Senior Vice President
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Promotion Manager
Linda Winick, Cleveland

OFFICES

ATLANTA
3091 Maple Drive
Maple Center One Building
Atlanta, GA 30305
(404) 233-1817

CLEVELAND
7500 Old Oak Boulevard
Cleveland, OH 44130
Editorial: (216) 243-8100

CHICAGO
111 East Wacker Drive
Chicago, IL 60601
(312) 938-2344

SEATTLE
1333 N.W. Norcross
Seattle, WA 98177
(206) 363-2864

DULUTH
120 West Second Street
Duluth, MN 55802
(218) 727-8511

MARKETING REPRESENTATIVES

Dick Gore
Atlanta (404) 233-1817

Ron Kempner
Atlanta (404) 233-1817

Joe Kosempa
Cleveland (216) 243-8100

Robert Mierow
Seattle: (206) 363-2864

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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 — Obtain a cholinesterase inhibitor as a pre-emptive measure to counteract the effects of the insecticide. It is suggested that the patient be given 1 mg of atropine 1/2 hour before surgery. The patient should be observed for 24 hours after surgery.

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CHEMICALS

Ortho takes aggressive marketing stance

The Ortho Division of Chevron Chemical Company, which is currently negotiating a takeover of Gulf Oil, has reactivated plans for construction of a fertilizer plant in Wyoming and restructured its Ortho marketing, manufacturing and research organizations to move its marketing management closer to its key markets, says Joseph Eckhart, general manager of the Ortho Agricultural Chemicals Division.

Ortho holds the lead position in consumer gardening products and indications are it intends to do the same in agriculture and professional horticulture. Expanded labels for Orthene and the construction of both a new fertilizer plant in Rock Springs, WY, and a research center in Richmond, CA, indicate the company is aware of the maturing nature of agriculture and the opportunity of specialty markets.

"We are focusing our future activities in research and development on innovative, highly-active products for major crop markets; and we are taking steps to significantly increase new product introductions," Eckhart told Weeds Trees & Turf. "Our market strategy is to improve our operating efficiency and response to customer needs."

Other chemical companies are using Ortho for consumer marketing.

EQUIPMENT

Thieves alter target to farm equipment

For more than a decade equipment thieves have favored construction equipment over farm equipment. That is until this year, says W.E. Rutledge, chairman of the heavy equipment theft committee of the International Association of Auto Theft Investigators.

"Because the construction indus-

try has been depressed, nobody's been working and the contractors were not buying heavy equipment," Rutledge explains. The Association's figures for Missouri show 167 pieces of construction equipment were stolen, compared to 451 pieces of farm equipment. The total loss in the state to large equipment theft is estimated at \$19.7 million. Missouri ranks fourth in the nation in large equipment theft.

Law enforcement officials have traced a large portion of the stolen

equipment to ports on the Gulf of Mexico. They complain that the equipment is easy to steal, hard to trace, and easy to sell because it is not registered.

With construction on the upswing, thieves might return to their old favorite, construction equipment. Also, since the average cost of stolen equipment is \$32,000, it makes sense to take extra precautions as business picks up and work schedules get complicated.



Dinah presented golf architect's award

Dinah Shore was presented the Donald Ross Award for her support of Women's golf during the American Society of Golf Course Architects annual meeting in Palm Springs, CA.

MEETINGS

Arborist reservations needed now for 1985

February 1985 seems like a long way off, but if you are an arborist planning to attend the National Arborist Association annual meeting on St. Thomas, Virgin Islands, you need to send your deposit to the hotel before the end of this month.

The meeting will be held at the Frenchman's Reef Beach Resort, Feb. 3-7, 1985. The area features tennis, golf, sailing, scuba diving, and, of course, a beach.

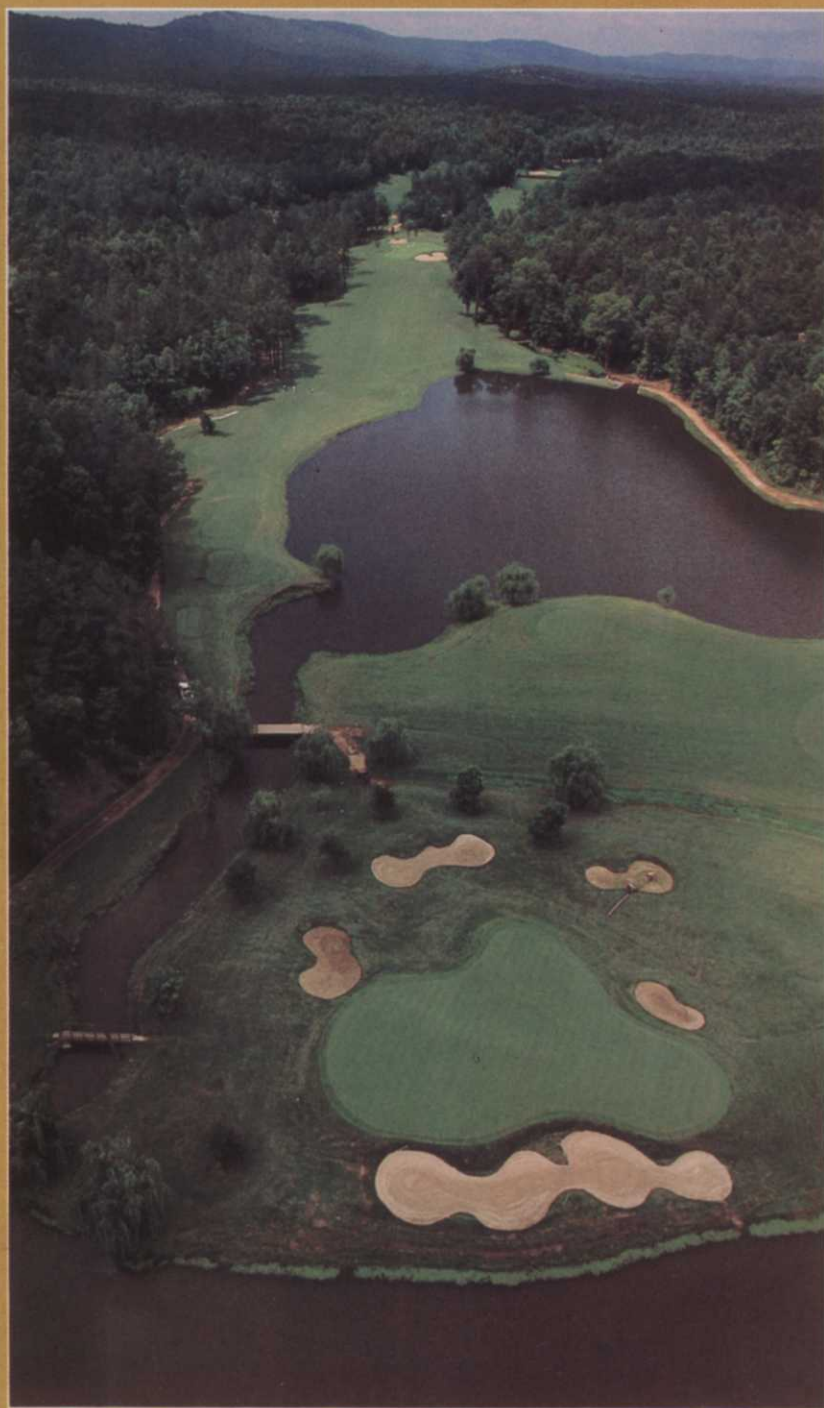
Bob Felix, NAA executive vice president, says early reservations are needed since there is no such thing as walk-ins on an island and the hotel must coordinate services with ships and planes. For information contact NAA at (516) 221-3082.

TREES

Deterioration of forests noted in Eastern U.S.

Air pollution is the chief suspect for
continued on page 12

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 Penncross creeping bentgrass. Penncross 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 Penncross was specified for the putting surface. It was a 'natural' to choose Penncross bentgrass, with its glorious history, for a course with a sparkling future!

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