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
Keeps you looking good all year.

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Circle No. 109 on Reader Inquiry Card
The Magazine of Landscape and Golf Course Management Since 1962

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.

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.

DEPARTMENTS

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46 Professional's Guide to Kentucky Bluegrasses
The difference between varieties of Kentucky bluegrass is significant to professional turf managers. Drs. Reed Funk and Ralph Engel of Rutgers describe strengths and weaknesses of common and proprietary Kentucky bluegrasses.

44 Turf Fungicide Directory
With Free Inquiry Card
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.

64 Engineers Build Self-preservation Into Turf Equipment
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.
From the same people who developed the "state-of-the-art," computerized MC Series irrigation control systems now comes the ultimate Master and Satellite System, the CMC3200. In addition to unsurpassed ease and versatility of programming and 12, 18, and 24 station satellites capable of independent operation, you'll find many unique features available for the first time in a competitively-priced product. Prominent among these is the first reliable cassette tape interface and printer option. For additional information, contact Irri-Trol.

The CMC 3200, see it soon.

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At John Deere, we think we've found the perfect designers for our 318, 420 and 430 Lawn and Garden Tractors …trees, playgrounds and hedgerows.

After all, look what they've put into our line.
Tough, economical 2-cylinder gasoline engines in the 318 and 420 (18 and 20 hp respectively). A 3-cylinder water-cooled diesel engine in the 430 (19 hp).

All three tractors have a 26-inch turning radius to get around easily in tight places. And power steering makes turning nearly effortless.

There's hydrostatic drive that lets you change speed and direction without clutching. And a welded steel frame takes humps and bumps in stride.

For better power delivery and greater durability, these John Deere tractors have differential axles with large cut-steel bevel gears. The 420 and 430 even have a 2-speed rear axle and differential lock for better traction in slippery conditions. And to help you finish big jobs without refueling, the 400 Series tractors have a large 6½-gallon capacity fuel tank.

There's even an optional Category "O" 3-point
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.

Plus, you can count on John Deere dealer service. It's as reliable as the equipment he sells.

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.

Nothing Runs Like a Deere®
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.
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® 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:

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Circle No. 130 on Reader Inquiry Card
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 industry 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

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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