

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.

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24 Going for Gold ... and Green

Dr. Kent Kurtz of Cal Poly, Pomona, describes from a turf viewpoint the fields hosting the athletes of the XXIII Olympiad. Each field manager has gone the extra mile to insure the eyes of the world will focus on turf befitting the world's greatest amateur athletes.

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28 Thirsting for Answers ... The Solutions (Part II)

Last month, we looked at some of the problems facing the Green Industry due to shrinking water resources. This month, some solutions are offered by university-level research, irrigation company and industry association involvement.





44 Tall Fescues Pasture to Turf

No longer is tall fescue being used for just forage, road stabilization and erosion control. An increasing demand has been put on it because of the overall economy, drought tolerance and ability to do well at reduced soil and fertility rates.

Dr. William A. Meyer of Turf-Seed, Inc., gives an in-depth look at the new and old tall fescues in the third part of the Turf Seed Series.

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Developed for use on the most popular turfgrasses, Fluid Fungicide adds a new dimension to Scotts traditional dry, granular approach to turf maintenance. To find out about all its advantages, call your local ProTurf. Tech Rep.



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NEWS/TRENDS

by Bruce F. Shank, executive editor

Turf haulers fight ATCs in West

California has been a tough market for U.S. turf vehicle makers with the importation of Dihatsu, Sanfu, and other Japanese small carriers. Now the battle has gotten worse with the knobby-tired, three-wheel all-terrain cyles by Honda, Yamaha, and Suzuki.

The ATC market is based upon volume, whereas the U.S. turf vehicle market is a specialized, relatively low volume market. Placed side-by-side, price can easily sway a golf course superintendent from the tough, boxy, rough-riding turf vehicle to the sporty, quick, freedom of the three wheelers from overseas. Prices can be three times greater for the domestic product.

Meanwhile, Club Car, Columbia Car, and Yamaha are offering an in-between type of hauler, a golf car with improved suspension and small bed, priced in the \$3,000 range, or 30 percent more than ATCs.

Bottom line will be how long the ATCs last, what type of service buyers receive from ATC dealers, and what happens when the fun is replaced by the actual usefulness of the vehicles. In our November issue, we'll take a closer look at the ATC and the Green Industry.

Panel points out service trend

A panel, formed by the American Association of Nurserymen to point out trends five to fifteen years in the future, has pointed to an increasing "service-based" economy, motivated by twoincome families with less leisure time. The "Point" Committee mentioned interior landscaping specifically.

The AAN committee's projection may be less than five years away. Chem-Lawn, Davey, Sears, Stanley Steemer, and Rollins have already made steps toward multi-service business. Interior landscaping still lacks a national service company, a market which Davey is said to be researching. Look for Davey and perhaps a franchise or two to develop in interior landscaping in the next eighteen months.

Mechanics can make or break you

Ray McMiken, president of B. Hayman Company, an equipment distributor in the Los Angeles area, often asks, "Who should be the second highest paid person on a golf course?" The answer is the mechanic who keeps the equipment productive.

When airlines negotiate with their mechanics, I listen closely before deciding which airline to fly. Parks, distributors, contractors; we all depend on equipment for our jobs. It makes tremendous sense to take advantage of every possible equipment training seminar by sending the head mechanic and perhaps part of his crew.

Equipment will be getting more advanced with hydraulics and solid state components. Manufacturers and distributors will be adding regional equipment maintenance and repair seminars as their equipment gets more complex. Don't miss these classes when they come to your area.



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Prevention is the key to successful turf disease control programming. And, with a fast-acting disease like *Pythium*, you need to gain every advantage you can as quickly as possible. For more information about Pythium Control, call your local ProTurf Tech Rep.



Leading Granular Fungicide Technology

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This may be the only by trees, playgrounds and

430

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

line of tractors designed hedgerows.

420

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.

JOHN DEERE

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

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JOHN DEERE

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GREEN INDUSTRY NEWS

PESTICIDES

Improper chemical use kills 546 geese

The Seawane Golf Club, Long Island, NY, agreed to a payment of \$5,000 to the New York State Department of Environmental Conservation after being held responsible for the May 12 death of 546 Atlantic Brant, a species of geese that breed in the Artic but winter in the area between Massachusetts and Virginia.

It was the largest reported kill of water fowl in the Long Island area in

recent history, according to Regional Wildlife Manager Harold Knoch who blamed the deaths on the improper use of diazinon, a pesticide used for grub control.

Knoch said there have been "four or five other bird kills in this area" in recent years due to diazinon poisoning in spite of recommendations that the pesticide not be applied where waterfowl are likely to gather, and then only when rain or sprinklers quickly dissolve the pesticide into the turf. The problem has become more noticeable, he added, since the mid-1970s when Brant in larger numbers began feeding on lawns and golf courses.

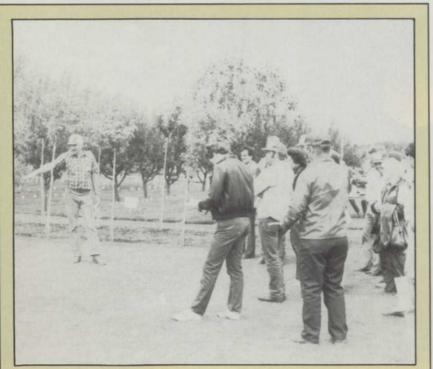
"The maximum fine could have been more," Knoch said of the penalty, "but they felt bad about it and cooperated."

CHEMICALS

EPA gives Orthene turfgrass approval

Orthene Tree & Ornamental Spray Insecticide has received EPA approval for use in the control of turfgrass insects. The insecticide is registered to control many species of armyworms as well as sod webworm, leafhopper, and greenbug.

In tests performed in six states over a nine-year period, Orthene proved successful in the control of armyworm infestations in dichondra, St. Augustine and bermudagrass. Orthene also was judged successful in the control of sod webworms in bluegrass, fescue, bentgrass and bermudagrass following tests in 14 states,



250 attend field day

Bill Rose points out features of a bentgrass green used for research during the Second Annual Turf Field Day in Hubbard, Oregon, in June. 250 people from more than ten countries attended the event. Shade tolerance plots are in the background. Turfgrass varieties from all seed companies are tested at the facility for shade, wear, low fertility, mowing height, and water use. according to a release from the Chevron Chemical Company.

Ted Coman, Chevron's product manager for insecticides, says Orthene kills foliage-feeding insects two ways, on contact and by ingestion, and is compatible with most commonly used fungicides. Coman notes that the insecticide spray can be applied without protective equipment or clothing, and workers can re-enter the turfgrass area as soon as the spray deposit has dried.

Because of its low toxicity, Orthene presents reduced hazards to fish, wildlife, and the environment, according to the company.

PESTICIDES

Florida restricts phenoxys, asks prenotification

After numerous complaints of crop damage from vegetable growers, the Florida Department of Agriculture and Consumer Services issued an emergency ruling designed to force applicators of phenoxy and dicamba herbicides to keep records and warn the Department before spraying.

The Department classified phenoxys and dicamba herbicides as 'restricted use' thus forcing applicators of these products to keep time and place records of uses. The Department took additional steps for applications made in four counties, requiring notification of the Department prior to application.

Vegetable growers blame drift and poor placement by farmers, ditchbank and aquatic weed sprayers, and rightof-way clearance crews for damage to crops.

Hec Amine-D



THE 3-WAY COMPOUND THAT'S 3 WAYS BETTER!

New Mec Amine-D from Clean Crop® is the effective Dicamba/ Mecoprop/2,4-D formula you've used and trusted for years. Now it's better because it comes to you more economically, faster, and in more sizes than you ever got it before! Like its predecessor, Mec Amine-D controls tough broadleaf weeds safely and without repeated treatments . . . it's biodegradable and vapor free after application . . . it's easy to use, temperature tolerant, stays stable for years. Be Clean Crop Confident with Mec Amine-D. **For more helpful information call 1-800-228-0096, or 1-800-642-TURF in Nebraska.**





Special Products P.O. Box 37800 Omaha, NE 68137



GCSAA has computerized calendar

The most up-to-date listing of national golfing events, including tournaments, turfgrass conferences, GCSAA chapter meetings and PGA events, is only a phone call away.

The Golf Course Superintendents Association of America now has available a national clearinghouse calendar of golfing events which will be kept up-to-date through the use of the Association's computer.

Also listed on the computer are LPGA events, USGA events, CMAA meetings and other organization meetings and events in the world of golf.

The toll-free GCSAA number, 1-800-GSA-SUPT, will get you a computer printout of current events. You can call the same toll-free number to have your event listed.

Callaway honored for service

Lionel F. Callaway, best known for creating the golf handicapping system that bears his name, has been named the first 1984 recipient of the National Golf Foundation's Outstanding Service Award.

"Lionel Callaway's contributions to the game go beyond his handicapping system, though that would certainly be enough (of an accomplishment)," said Joe Much, NGF executive director. "He is one of golf's true pioneers and is responsible for countless innovations and ideas to make the game easier for all."

Callaway, 88, was born in England, the son of a golf professional and golf course architect. He turned professional at the age of 13 and immigrated to this country four years later. One of his first stops was Boston, where he came up with the idea for an indoor putting game which evolved into miniature golf. Callaway also was responsible for combining outdoor miniature courses with driving ranges.

Callaway first used his handicapping system at local courses in North Carolina and Pennsylvania. Eventually it was adopted nationally.

"I made no money on most of my ideas," he said. "I prefer to call them my contribution to a game that has been good to me."

No praise or money, thank you

Ed Stimpson, Sr., a 79-year-old native of the Boston area is credited with inventing the Stimpmeter in 1935. The 36-inch gauge is used to measure the speed of putting surfaces.

Golf Digest reports that years after his invention, a friend suggested he would make millions if he marketed the idea, but Stimpson said he wanted nothing to do with the commercializing of his invention.

"Golf doesn't owe me a thing," he said. "I owe golf ... and I've had a marvelous life playing golf."

EQUIPMENT

Tractor sales rise; fuels recovery hope

An upturn in the sale of tractors this past April is giving the manufacturers of farm equipment hope the remainder of 1984. Tractor sales rose 15 percent in April compared with a year earlier, from 12,257 to 14,085. However, the farm-equipment industry is still concerned as the sale of combines remained at an all-time low.

Combine sales fell 15 percent in April to 457 from 539 the year before. For the year, combine sales fell 32 percent to 2,467, according to a report carried in the Wall Street Journal.

Exceptionally strong sales for the rest of the year would be needed to meet predictions of a modest increase in the farm-equipment industry since April is normally the strongest month for tractors, the report added.

CHEMICALS

Roundup beats proposed Milwaukee Co. ban

Legislation to ban the use of Roundup herbicide by public employees in Milwaukee County, WI, has been temporarily halted by county administrators, according to sources in Milwaukee.

The resolution, proposed by the local American Federation of City, State and Municipal Employees, was never signed by the County Executive, who had been out of town. Members of the County Board then rescinded the resolution. The County Board turned the matter over to a standing committee to examine the entire pesticide issue and report back to the board. Milwaukee sources say that the introduction of new legislation—which could include other pesticides—may be pending.

PEOPLE

Stalford takes post with 3-M Farms

Harry Stalford, Vice President Product Development of International Seeds, Inc., Halsey, OR, has accepted a position with the 3-M Farms in the Willamette Valley. Stalford was with International Seeds for 10 years.

"I enjoy the Valley. It's a beautiful place to live and I really love it," Stalford said of his decision to accept the *continued on page* 14