New Dursban 50W.
Awesome bug control
is here.

Now DURSBAN* insecticide, with three formulations, gives you awesome control of bugs, grubs, mites, chiggers, ticks, fleas and weevils.

New DURSBAN 50W is a wettable powder especially for professionals who prefer lower phytotoxicity in treating turf, ornamentals and trees. The elimination of chemical solvents makes this possible. DURSBAN 50W gives extended residual control...eight weeks and more compared to four or six weeks with most other brands.

So now you can do the whole job with DURSBAN 2E, concentrated 4E and new DURSBAN 50W wettable powder. That assures you of maximum bug control and minimum inventory problems.

With all the advantages, you’d expect DURSBAN to cost more. Actually it costs less than most other brands. You can treat 1,000 sq. ft. for only 35¢! And when you use DURSBAN, it means fewer callbacks and more satisfied customers. That’s a big step in the right direction.

DURSBAN products are available from your Dow distributor. Also ask him about our “DURSBAN delivers the goods” incentive program. Be sure to read and follow all label directions and precautions.

Agricultural Products Department, Midland, Michigan 48640.

DURSBAN 50W
Now you’re a giant step ahead.

Dow Chemical U.S.A.
*Trademark of The Dow Chemical Company.

Circle No. 112 on Reader Inquiry Card
Trimmer Makers See Trend To Durability, Flexibility

Trimmer manufacturers focus on more durable gasoline-powered trimmers as homeowners trade up to professional-strength models. Options now include small cultivators and snowblowers. Professionals benefit from homeowner selection.

1984 Edition of the INSECT CONTROL GUIDE

Two new insecticides should receive turf labels this spring while research on turf resistance to insects has already resulted in one new perennial ryegrass. A report on the spread of the imported red fire ant in the South and other recent developments are included.

Earl Crane, Still Selling Turf Equipment at 78

Earl Crane sold his first mower during the 30's, bought and ran a golf course in the 40's, and now sells more than seven lines of turf equipment from his home in Tiffin, Ohio. Crane has witnessed the development of the turf aerifier since its creation and keeps tinkering to refine it.

New Column Clears Up Special Plant Needs

Dr. Michael Dirr, plant identification specialist and book author, provides tips to often-confused plant problems.
"I don't need different tractors for different jobs. I need one tractor to do every job!"

Every landscaping job requires a different combination of grading, loading, moving, leveling and tilling. That's why I like my International 784 tractor. It has the right features for me.

Durability features like a clean-burning diesel engine, hydraulic disc brakes, independent PTO, Dyna-Life clutch and quick-response hydraulics to keep me working efficiently.

Comfortable, too. Thanks to convenience features like the walk-through operator's platform, hydrostatic power steering, right- and left-hand control consoles and fully synchronized transmission. Plus the Hi-Lo-Reverse range lever that lets me quickly shuttle between forward and reverse—a real time saver in loader work.

Ask your HI Dealer about the full line of International 84 Series tractors—from 42 to 72 PTO hp—with models and features to meet today's performance requirements.

If your landscaping is anything like mine, it's the best tractor value you'll find.

84 Series.
Value, Versatility and Reliability.

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INTERNATIONAL HARVESTER

Circle No. 124 on Reader Inquiry Card
LONG-LASTING OFTANOL HITS MOLE CRICKETS WHERE

Mole crickets. There is one product and only one product that stops them so completely for so long. ®OFTANOL turf insecticide.

It works.

One application will control mole crickets for up to 120 days. OFTANOL works so well for so long because its low water solubility helps it resist leaching to keep it in the upper soil profile. Where mole crickets burrow.

OFTANOL comes in two formulations: OFTANOL 5% Granular and OFTANOL 2 insecticide, a liquid. Use recommended rates and follow label directions.

OFTANOL turf insecticide. It hits mole crickets where they live and then they're dead. See your turf chemicals distributor.

OFTANOL is a Reg. TM of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.
THEY LIVE AND THEN THEY'RE DEAD.

OFTANOL STOPS THEM COLD.
Applications of OFTANOL, properly timed, will control existing populations of sod webworm larvae, billbug larvae, and chinch bugs. It works.

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

Circle No. 136 on Reader Inquiry Card
How tough is your course?

Superintendents may be able to compare the difficulty of their course to others if USGA’s ‘Slope’ system works out in trial states.

Albert Mulberry, executive director of the Northern Ohio Golf Association told 200 superintendents during a regional USGA Conference, “The purpose of the slope system is to provide visiting golfers with a method of equalizing their handicaps with home course golfers.”

A team of four officials must rate the course using a complicated procedure intended to gauge the difficulty of a course by the difference in scores between scratch golfers and bogey golfers. The average course would have a slope of 113. Scores below 113 are easier than average and scores higher indicate difficulty.

James Farrell, USGA manager of the Mid-continent region, said, “If the system works out, we may be in a position to take the program national by 1986.”

New mowers drop pounds

Mower manufacturers were given an opportunity to discuss new product changes during the Canadian Turfgrass Conference in Toronto in March. Overall, the changes represented a shift toward lighter fairway mowers, away from wheel-driven gangs, and longer-life engines.

David Leg of Ransomes stressed light-weight mowing and hydraulics with Ransomes products. Leg said light-weight fairway mowers are gaining in use as fairways are contoured and reduced in size. “Some 18-hole courses now devote only 20 acres to fairways,” Leg pointed out. At 2.5 acres per hour, a triplex can cut all fairways in one day.

Henry Larsen from Jacobsen announced changes in the five-gang, 11-ft. cut HF-5, making it lighter, adding a 33-hp Volkswagen diesel engine, and offering baskets for clippings. Jacobsen also offers 18-to 22-hp Kubota diesel engines on its Turf Cat riding rotary. Two new products mentioned by Larsen were walk-behind rotaries and the Motomop, a motorized roller squeegee capable of removing 3,000 gallons/hour of water from greens, tennis courts or other areas.

Toro’s Roy Eldridge had the most to say with 14 new products for 1984, including seven 21-inch trim mowers, three with a new two-cycle engine made by Suzuki. Toro introduced two large walk-behind rotaries this year with a sulky to be available soon.

Gordon Mitchell of Canada’s Brouwer Turf Equipment Ltd. showed a three-gang mower for low-budget golf courses. Powered either by tractor PTO or a Honda engine, the pullbehind gang is also available with verticutter reels. Tractors with as little as 17-hp at the PTO can operate the gangs. Mitchell also showed Brouwer’s 76-inch triplex mower which is belt-driven and powered by a Robin engine.

Cushman/Ryan’s Dan Hedglin described improvements to the Front-Line 72-in. riding rotary. Now available with diesel engine, the Front Line now offers a series of engine protection devices, including an air-induction system, overheat warning system, a systems check button, and a remote oil fill tube. The Front Line options include a grass collection system and a snow blower.
QUICK TURN-AROUND

This new hydraulic 3-wheel mower with its powerful 23 HP Kohler engine has a smooth way of turning big mowing jobs into small ones. Use one foot to control speed and direction. The rear wheel steering pivots the front cutting deck to trim close to posts or trees. The cutting deck floats lightly over the ground because it doesn't have to carry any extra weight. This means there is less chance of scalping the lawn. The deck can reach out and cut grass beneath low limbs, bushes and fences. And it can cut to the edge of a lake while the drive wheels and operator stay high and dry. One demonstration of the Yazoo Hydro Rider is all it will take to turn you around from any other way to mow.

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Yazoo Manufacturing Company/P.O. Box 4449/3650 Bay Street/Jackson, Mississippi 34216/Phone (601) 366-6421/Telex 504-150

Quality commercial mowers since 1945.

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Circle No. 171 on Reader Inquiry Card

MAY 1984/WEEDS TREES & TURF 7
LEGISLATION

New York law stuns Long Islanders

A major topic of discussion at the recent annual plant and turfgrass conference of the Nassau/Suffolk Landscape Gardeners Association was a law just passed by the New York State Legislation concerning pesticide applications.

Cynthia Harmon, chief of New York's Bureau of Pesticide Management told almost 2,000 attending the conference, "More applicators (of restricted use pesticides) will have to be certified." The law is still open to public hearings and comment so final details are unknown. The new law states all applicators of restricted use pesticides must be certified, not just supervisors.

The law immediately requires pre-notification of property occupants, although adjacent land owner requirements are not finalized. Notification must include all information on the label, including warnings.

Harmon said penalties have been increased to $5,000 for the first violation and $10,000 for each subsequent violation. Pesticide talk was heard throughout the day’s conference from Long Islanders feeling a backlash from the local alarm over chlordane contamination found last year. The DEC’s office was inundated with 15,000 calls at the time. One landscaper in the audience told Harmon that DEC is understaffed and unable to handle calls from applicators.

The DEC could not answer a question where one could legally wash application equipment, another concern of Long Island applicators with so much emphasis on ground water contamination there. The DEC recommended the industry pool its resources with the community and hire a waste hauler for a designated pickup of waste water.

CONTESTS

Supers pay bills with Weeds winnings

Three superintendents left the Golf Course Superintendents Show in Las Vegas richer this year. They are the winners of the Third Annual Golf Show Sweepstakes.

The first place, $1,000 prize went to Pat Brinkman, superintendent of Amarillo Country Club, Amarillo, TX. "When I filled out the entry card at the Bunton booth, I never dreamed I would win. It came as a complete surprise!"

Tim Fuller, of DuBois Country Club, DuBois, PA, left Las Vegas $500 richer after filling out his entry at the Aquatrols booth.

Least, but not last, was William Ward, superintendent of Morris Park Country Club, South Bend, IN, who took home $250. Bill, who entered at the Otterbine booth, called the prize and the show exciting. "It was quite a surprise and very appreciated to be a winner in the Sweepstakes held in Las Vegas. My thanks for promoting this event and adding to the excitement of the Conference.”

First place winner Pat Brinkman took $1,000 home from the GCSAA Show after entering the Sweepstakes at the Bunton booth.

"The pleasure is ours," responds Publisher Dick Gore. "Three years ago we decided to support the GCSAA Show with a Show Daily and a sweepstakes for the superintendent. This year was our first year as the recognized publication of the GCSAA Show. The golf superintendent seems to know an opportunity when he sees one. So far, thousands of superintendents have filled out entry forms, and nine have won. Everyone wins in our opinion."

TURF MANAGEMENT

Beard says future depends on efficiency

Dr. James Beard left his warm lab at Texas A&M in March and travelled through a blizzard to speak at the Canadian Turfgrass Conference in Toronto. His message to the predominantly golf course superintendents group was start getting prepared for changes in turf management.

Higher prices for petroleum products and equipment will force a much closer look at their use in the future, Beard said. Staff and equipment movement will need to be better scheduled for cost efficiency. Growth regulator use will increase as new products enter the market. Integrated pest management and biological controls will work their way into maintenance programming.

"What up to now has been an art will also become a science," Beard claimed. The amount of knowledge necessary to consider all aspects of efficient turf management will increase greatly.

A second prime consideration for the future is water use according to Beard. Smaller, lower-pressure irrigation heads will be used to cut down on pumping costs. Records will have to
It looks like a riding mower. It cuts like a riding mower. But this Kubota is something else. We call it a Kubota G. You might just call it great. Because it's the first lawn and garden tractor of such remarkably small size to have a diesel engine.

A Kubota G tractor comes with a powerful 2- or 3-cylinder water-cooled diesel engine. The engines are built to the same exacting standards as our bigger tractors. And the advantages of a diesel engine vs. gas are many.

- Diesel is thriftier on fuel.
- Maintenance is cheaper, too, with no spark plugs, carburetor or distributor to wear out. So you can just concentrate on maintaining your lawn instead of your lawn mower.
- Most important, a Kubota diesel will last longer. A good deal longer than any gas mower.

Other big tractor features include a live front PTO shaft drive to the mower. Unlike a belt drive, the shaft can't stretch and is unlikely to break. The result is a smooth, more even cut. You can also attach a front blade or snow blower. While an optional rear power take-off lets you operate a tiller.

There are four Kubota G lawn and garden tractors, from 10 to 14 horsepower. Two models come with an easy-to-drive hydrostatic transmission.

You can see and drive them all at your nearby Kubota dealer. Just say you want to get behind the wheel of a diesel.
Rossi tapped by golf car group

Don A. Rossi, executive director emeritus of the National Golf Foundation, was named executive director of the National Golf Car Manufacturers Association, Inc. The formation of the new association was announced at the recent PGA Merchandise Show. George H. Inman, president and chairman of the board of Club Car was named president, and Fred Sommers was appointed general council.

NGF’s first school a success

Attendees from 22 states and Canada were at the first Golf Management School sponsored by the National Golf Foundation and Oglebay, a destination resort in a 1,400-acre municipal park in Wheeling, WV. All registrants were, in some way, involved in the management of public golf facilities. The first year of the two year program drew 78 registrants. The second year of the program is scheduled to begin the week of Jan. 13, 1985.

Subject matter ranged from the philosophy of public golf to promotion, merchandising and accounting procedures.

Hurdzan to stress nature of golf

Dr. Michael J. Hurdzan, the new president of the American Society of Golf Course Architects, wants the nature and art of golf course architecture to be recognized and to encourage more children to play.

Hurdzan is a partner in the golf course architectural firm of Kidwell and Hurdzan, Inc., Columbus, OH. The firm has designed more than 80 new courses, mainly in the Midwest.

"During my term I have three main goals I’d like to implement," Hurdzan told WT&T. "They include establishing golf course architecture as an artform. Secondly, I’d like to establish a close alliance with national wildlife associations, especially the Audubon Society, to attract useful wildlife to golf courses, such as bluebirds, which help in insect and weed control. Thirdly, we’d like to keep trying to encourage growth of the game of golf and encourage the development of courses for children. Right now, the average age for learning to play golf in the U.S.is 25. If children were encouraged and had a convenient, inexpensive place to learn the game, that figure could be dropped measurably. The Society would like to work with allied golf associations to make this happen.”

The Society currently has 86 members, which represents 75 percent of the active golf course architects in the country and Canada.

Other officers elected are John Watson, Lachute, Quebec, Canada, vice president; Kenneth K. Killian, Palatine, IL, secretary; and Roger G. Rulewich, Montclair, NJ, treasurer.

DISEASES

Canada’s Burpee offers disease tips

More emphasis should be put on the turfgrass environment, Dr. Lee Burpee of the University of Guelph told superintendents at the Canadian Turfgrass Conference.

Burpee provided some tips to discourage disease. "If you won’t to control disease, reduce the period of leaf wetness," Burpee said. He also recommended watching the pH of the soil and thatch since grass under stress is

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