New water soluble packaging conquers one more hazard.

DURSBAN® 50W insecticide: even more operator safety. Because it's a wettable powder, DURSBAN 50W insecticide contains no irritating solvents. Now it comes in water soluble pre-measured packets which are even safer for operators to handle since they do not need to come in contact with the powder.

Reduced phytotoxicity, too. DURSBAN 50W controls insects on turf, trees, and ornamentals without causing damage. Even sensitive bentgrass varieties in greens are not harmed by treatment with DURSBAN 50W.

Controls a wide range of pests. DURSBAN 50W is particularly effective against cutworms, armyworms, billbugs, sod webworms and chinchbugs, among others. And it remains effective for significantly longer periods than solvent-based insecticides.

Priced for value. Available in 2-lb. fiber containers as well as the new water soluble packaging, DURSBAN 50W is priced in line with other comparable insecticides. Four 4-oz. water soluble packets are sold in foil-wrapped 1-lb. pouches. For golf course and turf uses, one packet in 100 gallons of water will treat 5,000 sq. ft.

DURSBAN 50W Insecticide in Water Soluble Packaging. One less hazard for your course. See your ag chemicals distributor.

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OK, Doug. What is it about Scotts new ProTurf 22-0-22 NK Fairway Fertilizer that makes it a high quality product? “We use only top quality ingredients. All the potassium is in the form of potassium sulfate. The nitrogen is balanced between quick- and slow-release forms. And each high-density particle is homogeneous... providing a consistent feeding.”

What does that mean on a fairway? “Several things—quick greenup, a greening effect that lasts up to two months, even distribution of nutrients. Also, less chance of burning turf, the addition of sulfur to the soil, and no chloride salts.”

And you say it’s designed for fairways? “Yes. It’s composed of large particles that throw a wide, even swath from a rotary spreader.”

What benefits do I get from a high potassium feeding? “It’s been shown that potassium will enhance turfgrass performance — better drought hardiness, improved disease resistance, more tolerance to wear, things like that. And studies on bermudagrass attribute reduced winterkill to high potassium.”

Sounds like it would be hard to go wrong with ProTurf 22-0-22 NK Fairway Fertilizer. “That’s right. It can be applied any time, and it’s very versatile, too. You can use double rates spring and fall in the north and all summer in the south. Half rates are great for cool season grasses during the hot summer months.”

Can you sum all that up, Doug? “ProTurf 22-0-22 NK Fairway Fertilizer is a great program complement to our regular Fairway Fertilizer at 32-3-10 and our High K Fairway Fertilizer at 15-0-30.”


Circle No. 137 on Reader Inquiry Card

“Superintendents have been talking about a high quality 1-0-1 product designed for fairways. We’ve been listening.”

Doug Horn, Scotts Research project leader (Fertilizer R&D), talks about new ProTurf 22-0-22 NK Fairway Fertilizer.
16 COVER STORY: THE SEED REPORT
Although yields are about average for most grasses, demand is high. Carryover from last year’s harvest is light. It all adds up to a tight, but not too tight, market.

28 THE RESORT BOOM
In Sun Belt states, resort construction is fast and furious, thanks to a healthier economy. WT&T profiles three resorts, one of them new.

• 28 Grand Champions
• 30 Sea Pines
• 32 Horseshoe Bay

38 COMING BACK
A pest of the past, the green June beetle, is again causing headaches in the eastern United States.

46 GIVING WATER A HELPING HAND
Two golf courses on the West Coast find a handy tool for helping conserve a precious resource, saving big bucks at the same time.

52 AN ALTERNATIVE
Integrated pest management is drawing raves from Longwood Gardens in Pennsylvania where some 350 acres are being effectively managed.

58 NATURAL LANDSCAPING
Where chemicals or IPM techniques aren’t applicable, landscape managers might want to design a landscape with indigenous materials.

60 MOTIVATION TIPS
Getting the most out of employees is a key to a successful business. Increasing salaries sometimes will not work, but there are options.

ON THE COVER: Dr. Joe Duich (left) and seed grower Ron DeConinck in an Oregon field of Pennlinks (PSU 126), by Larry Kassell
The Switch is On...

to the 1804

Rain Bird's 1804 Pop-Up Sprinkler is a trendsetter. The most popular model of the widely accepted 1800 Series, the 1804 sets the industry standard for lawn pop-up spray head performance.

With the 1800 Series, what pops up always pops down ... each time, every time. These heads will perform flawlessly even in the most difficult field conditions. And the 1804, with a pop-up height of four inches, is ideally suited for countless residential and light commercial applications wherever performance is critical.

The 1800 Series, which includes 2-, 6- and 12-inch models, has the industry's most comprehensive selection of nozzles. Plastic nozzles. Brass nozzles. More than 50 patterns, angles and trajectories.

Spray heads, nozzles, accessories ... unparalleled flexibility at an unmatched value.

Rain Bird ... make the switch.

For a complete information package on the 1800 Series, write:
Rain Bird Sales, Inc. Turf Division, 145 N. Grand Ave., Glendora, CA 91740
Artificial putting surfaces?

Now we've heard everything.

Not too long ago, an architect called the Weeds Trees & Turf office asking if we had any information about artificial putting surfaces. He was in charge of designing a "life care facility" in Connecticut, a home for people 62 or more years old. It seems his client wanted artificial greens on the facility's three-hole golf course for maintenance reasons.

"The main concern is holding the ball," the architect told us. (Nine iron and wedge shots have a tendency to bounce a bit upon impact with artificial turf, no doubt.)

We don't know what ever became of the project, but we hope the owners wisely up.

California condo owners making waves

Condominium owners—especially those in California—are bringing actions against landscapers for alleged wrongs with their landscaping contracts.

According to the California Landscape Contractors Association (CLCA), condo homeowner groups are banding together, pooling their resources, and generally gang up on landscape architects, installation contractors, and maintenance contractors. Roger D. Fiske, CLCA president, is often called upon as an expert witness or consultant in such litigation.

The problem is becoming so difficult that the CLCA recently offered a one-day panel discussion on condo contracting liability. Besides Fiske, a landscape architect, landscape contractor, and an attorney sat on the panel.

If condo owners in other states follow the trend being set in California, landscape contractors in those states would be well-advised to follow the CLCA's example.

Rebound in chemical earnings?

The end of 1986 is to bring a rebound in earnings among chemical companies, according to a survey in Chemical Week magazine. The survey predicted an increase in earnings per share by all but two of 25 prominent chemical companies.

Chemical Week cited cost-cutting programs by most companies as one of the reasons for higher earnings. Du Pont, Monsanto and Dow, for example, offered early-retirement incentive programs. On its cover, Chemical Week projected a 41 percent increase in earnings for Dow, a 59 percent increase for Monsanto, a 25 percent increase for Du Pont, and a 39 percent increase for American Cyanamid.
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For a free demonstration call your Ryan dealer today. Or, for more information, write: 2722 Cushman, P.O. Box 82409, Lincoln, NE 68501. Or, call toll-free: 1-800-228-2722.
GREEN INDUSTRY NEWS

SALARIES

Midwest boasts highest workers' wages

According to a wage survey conducted by the Professional Grounds Management Society (PGMS), landscape workers make more money in the Midwest than in other parts of the country.

A permanent laborer in the Midwest pulls in an average of $8.32 per hour (the Midwest includes North Dakota, Minnesota, South Dakota, Wisconsin, Michigan, Nebraska, Iowa, Illinois, Indiana, and Ohio).

His counterpart in other areas of the country doesn't make as much. In the Northeast, the average is $7.43. Other areas: Far West, $6.57; Mid-Atlantic, $6.54; Southwest, $5.87; and Southeast, $4.82.

The Midwest foreman fares better than his peers in other areas. He pulls an average hourly wage of $9.32 compared to the others: Northeast, $8.98; Far West, $8.28; Mid-Atlantic, $8.15; Southwest, $7.96; and Southeast, $6.15.

The survey was based on 157 responses from the PGMS membership.

CHEMICALS

Union Carbide agchem is put up for sale

After months of delay, Union Carbide put its Agricultural Chemicals Division up for sale in July. Though the division has had its share of problems the past 1½ years—including the gas leak in Bhopal, India—the decision to sell was actually made last year, Union Carbide president Robert D. Kennedy claims.

"It came as no surprise," says Tom Arnold, manager of specialty products. "We'd been hearing rumors for months. The people around here are treating it like it's finally a relief to know for sure we're on the block."

Arnold would not speculate on what would happen to personnel since the buyer is yet to be determined.

Value of the agchem division is placed somewhere around $500 million. Possible buyers mentioned by industry analysts include FMC (a major Union Carbide customer), PPG Industries, Dow Chemical, Rhom and Haas, Monsanto, American Cyanamid, BASF, Ciba-Geigy, Hoechst, and Imperial Chemical Industries.

The Wall Street Journal speculated that the division was put up for sale because Union Carbide wanted to reduce a $5.5 billion debt incurred earlier this year while fending off a takeover bid by GAF.

Union Carbide manufactures Weedone DPC herbicide and Sevin insecticide for the turf market.

GOLF

Summer drought devastates Southeast courses

Water rationing and dry irrigation ponds on golf courses in the Southeastern U.S. this summer have altered maintenance practices of many superintendents.

Less frequent mowing and fertilization became common practices because of a lack of rainfall in June and July.

"We were about 14 inches below average for rainfall," noted Dave Powell of Myers Park Country Club, Charlotte, N.C. "As a result, we just barely kept the grass alive and green. We cut our water use back to a third of what we normally use."

Added Andy Brennan of Temple Hills Golf and Country Club, Nashville, Tenn.: "I normally have five lakes that I pump from, but I emptied a couple. We also lowered our fertilization rates."

Things were as bad in Georgia. "My fairways were really brown and off-color," said Randy Nichols of Cherokee Town and Country Club, Dunwoody. "We lost some bermudagrass on the fairway, and bermudagrass is hard to kill. There is such stress on the grass that (at one point) we didn't mow any fairways, roughs or tees in 3½ weeks."

Besides cutting back irrigation and fertilization, Nichols also didn't allow golfers to stray from cart paths.
LANDSCAPING

**L.A. Beautiful aids landscape contractors**

Other large cities might take Los Angeles as a good example of a community and its industry working hand-in-hand.

Witness Los Angeles Beautiful, a non-profit organization that cooperates with southern California landscapers to keep the public vista looking as clean and beautiful as possible.

"The landscape is part of your life," claims Gail Watson, executive director. "Our slogan is 'Beauty is good business.' I don't know of any other city with quite as comprehensive a plan as us."

Los Angeles Beautiful was the first—and remains the best—organization of its kind. It was founded in 1949 by the woman who also designed the "Keep America Beautiful" campaign.

Serving as technical advisors to the organization are Stewart Sperber of Valley Crest Tree Service, John Boething of Boething Tree/Land Nursery, and Rose Marie Head, chairperson of the California Landscape Contractors Association. Burton Sperber and Bob Scofield of Environmental Industries are judges in L.A.

Beautiful's annual community awards program, which draws about 200 entries and recognizes the top landscape contracting companies in the area.

"We feel people are responsible for their own environment," says Watson. "Beauty is not just skin deep. Environment affects attitudes. It reflects pride or lack of it; it reflects how people work."

L.A. Beautiful has also recently established a water conservation program. "We're trying to educate the public that they have choices. Basically, water conservation is people rather than plants," Watson observes.

CONVENTIONS

**Four national meetings coming next month**

Dual keynoters will be the highlight of the first joint ALCA/PGMS convention and trade show in Milwaukee next month. That show is one of four major national conventions involving green industry trade associations next month.

Keynoting the educational portion of the convention are former Texas and New Mexico Congressman Ed Foreman and managerial consultant George Wright. The meeting will be held Nov. 9-12 in Milwaukee's Mark Plaza Hotel. Also scheduled are presentation of the annual PGMS awards and a bus tour of Milwaukee and some of its landscape contractors.

The following week, Nov. 17-20, the seventh annual PLCAA convention and trade show will feature Dr. Charles Garfield, author of "The New Heroes of American Business." Site of the event is the 28,000-square-foot Baltimore Convention Center.

"Every indication shows that floor space will be a sellout," notes PLCAA assistant executive director Doug Moody.

Former EPA administrator William Ruckelshaus will address the membership of the American Society of Landscape Architects at that convention Nov. 22-25. The event will be held at the site of this year's GCSSA show, Moscone Center in San Francisco.

Finally, the National Institute on Park and Grounds Management will hold its annual conference in Louisville, Ky. Plans include tours of Churchill Downs, Cave Hill Cemetery and the University of Louisville.

PESTICIDES

**Study condemns uses of 2,4-D herbicide**

Landscape managers may again be in jeopardy of losing access to 2,4-D, a popular broadleaf herbicide, following publication of a new study by the National Cancer Institute and the University of Kansas.

The study claims that farmers exposed to herbicides 20 days a year or more were 600 percent more likely to contract lymphatic cancer than people who did not work with such chemicals.

Dr. Shelia Hoar, the report's chief author, added that the higher cancer risk was particularly associated with 2,4-D. The New York Times quoted Dr. Hoar: "One can't base a regulatory program on one study alone, but if this finding is confirmed there would be serious regulatory implications such as restricting the use of herbicides."

John A. Moore of the EPA said that continued on page 8
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the study would probably cause his agency to re-assess laws now governing pesticides containing 2,4-D.

Dave Dietz of the Pesticide Public Policy Foundation (PPPF) has assembled a task force to deal with what could be a real problem for proponents of the compound.

"The problem with the media is that they're not reporting the whole story, and it's a good one for 2,4-D," says Dietz. "It states that casual use does not pose a risk. And for high exposure techniques, the normal precautions—wearing gloves and good hygiene—greatly reduce the risk."

Dietz's task force plans to question the authors.

"We want to know why this report does not stack up with the millions of dollars of other research," Dietz says. "We're trying to sort through this stuff, but the press, quite frankly, is providing an obstacle."

CONFERENCES

Landscape Expo to cover the spectrum

A comprehensive conference program is scheduled for the 1987 Landscape Exposition next March 3-5 at Chicago's O'Hare Exposition Center.

Concurrent seminars specifically designed for both landscape contractors and managers in the public sector will be held. In addition, special technical sessions on groundwater, thatch, herbicides, plant growth regulators, and turf renovation will be offered.

Altogether, the Landscape Expo management team plans on 30 different seminars spread out over 54 hours.

For information on exhibiting or attending, contact Dawn Pratt at HBJ Expositions and Conferences, P.O. Box 2044, Ridgefield, CT 06877; (800) 243-2815.

CONVENTIONS

PLCAA program on equipment maintenance

A special, hour-long turf equipment maintenance and service seminar is scheduled during the Professional Lawn Care Association of America Conference and Show next month in Baltimore.

The session, "Mowing Equipment Maintenance: Three Case Histories of Success," will be conducted by Rich Smith, commercial service training manager for The Toro Co., Minneapolis.

The seminar will feature a slide presentation with audio based on in
continued on page 12
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