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Oxalis

Wild Violet

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# Weed control that only looks expensive.

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# WEEDS TREES & TURF

The Magazine of Landscape and Golf Course Management Since 1962



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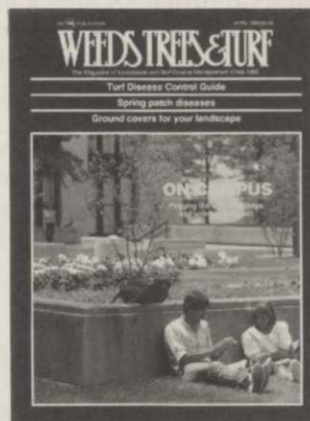
At least 17 exist and symptoms are similar. A positive identification is needed for control and treatment.

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Case Western Reserve University, Cleveland, Ohio.

WEEDS TREES & TURF (ISSN 0043-1753) is published monthly by Harcourt Brace Jovanovich Publications. Corporate and Editorial offices: 7500 Old Oak Boulevard, Cleveland, Ohio 44130. Advertising Offices: 7500 Old Oak Boulevard, Cleveland, Ohio 44130, 111 East Wacker Drive, Chicago, Illinois 60601 and 455 East Paces, Ferry Road, Suite 324, Atlanta, Georgia 30305. Accounting, Advertising Production and Circulation offices: 1 East First Street, Duluth, Minnesota 55802. Subscription rates: \$25 per year in the United States; \$35 per year in Canada. All other countries: \$70 per year. Single copies (pre-paid only): \$2.50 in the U.S.; \$4.50 in Canada; elsewhere \$8.00; add \$3.00 for shipping and handling per order. Second class postage paid at Duluth, Minnesota 55806 and additional mailing offices. Copyright© 1986 by Harcourt Brace Jovanovich, Inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical including photocopy, recording, or any information storage and retrieval system, without permission in writing from the publisher.

POSTMASTER: Send address changes to WEEDS TREES & TURF, P.O. Box 6198, Duluth, Minnesota 55806-9898.

**HB** A HARCOURT BRACE JOVANOVIH PUBLICATION



Jerry Roche



Ken Kuhajda



Heide Aungst

## Your turf can survive with limited water

■ Dr. Jim Beard, turfgrass professor in the Dept. of Soil and Crop Sciences at Texas A&M University, says he's been getting more and more phone calls from golf course superintendents in sunbelt areas who are faced with more stringent water restrictions. What should supers do to keep their turf healthy while water becomes more scarce?

Dr. Beard, speaking at the recent GCSAA convention in San Francisco, suggests several actions: enhance root growth; cultivate to enhance water penetration; control thatch levels; lower the nitrogen levels; raise potassium levels; and minimize the use of herbicides (which can hurt roots). Three factors Dr. Beard said reduce drought hardiness are high nitrogen levels, low potassium levels, and iron deficiencies.

Dr. Beard maintains that large water users, such as golf courses, will have to appear before a local water control board to argue for allotment of water. That's already common in some areas.

## Water woes touch all in green industry

■ Moreover, it's not just the golf course sector of the green industry that is affected. Dr. Beard says landscape firms and other large green industry water users should seek new conservation solutions because there will be a water shortage in this country. And that day is not far off, he said in the September, 1985, issue of the *Landscape Contractor*. There's plenty of water in the U.S., but as more people move off the farms (where water is generally plentiful), we need to find a way of getting the water from the country to the city, where many housing allotments are rising. That's not always an easy task.

Dr. Beard recommends that water managers keep records of water use. He says users who can document their requirements will have a better chance of receiving adequate supplies if allotment is based on past consumption.

## Phoenix gets Colorado River water

■ Late last year, Phoenix, Ariz., got its first taste of Colorado River water it was promised by the U.S. Congress in 1979. The successful partial completion of the Central Arizona Project (CAP) has allowed water to be pumped from Lake Havasu eastward and uphill—more than 200 miles—to Arizona's capital city.

The joint federal/state cost-sharing project is not yet finished. Work is continuing on another goal: extension of Colorado River water to Tucson, some 110 miles to the southeast of Phoenix, by 1991. As the project progresses, the state will assume more responsibility for CAP. When completed, CAP will provide 60 percent of Arizona's renewable water supply.

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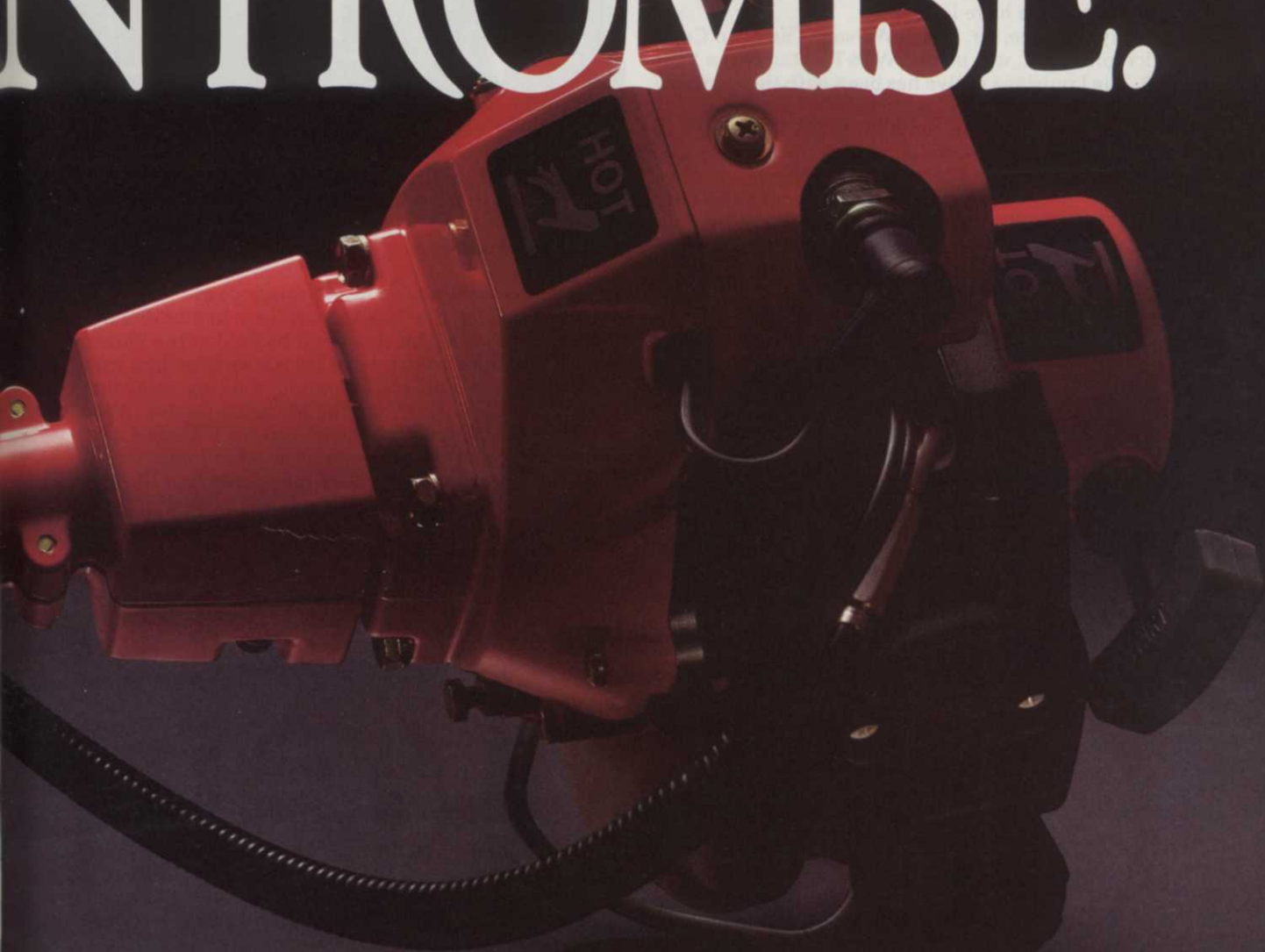
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**TORO**



## ASSOCIATIONS

### GCSAA show draws record crowd of 10,912

If there's a legend you've always wanted to meet in the green industry, you probably did at this year's GCSAA conference and trade show held Jan. 27 through Feb. 4 in San Francisco.

Well-knowns from all areas of the green industry descended on the Bay City for the 57th annual show. The GCSAA says a record 10,912 attended.

Test pilot Gen. Chuck Yeager, speaking to the nation's golf course superintendents just days after the Challenger space shuttle tragedy, observed that "when we fool with high technology, we have losses."

On a happier note, Dr. James Watson, The Toro Company vice-president, was named WT&T's Man of the Year for 1986. The Louisiana native has been with the company for 33 years.

Other luminaries at the show included LPGA Hall of Famer Patty Berg and entertainer Dinah Shore, who presented Berg with the "Old Tom Morris" award.

Attendance wasn't the only record broken at the show. Seventy-two new exhibitors numbered among the record 317 total. That meant a trade show which topped 107,000 sq. ft. in exhibit and display area. Some advice: give yourself at least a day next year to visit all booths. You'll need it.

GCSAA sales and marketing manager Tuula Wright says the association was "very pleased" with the turnout. "It was a very beneficial show," Wright tells WT&T. "I was pleasantly surprised at the number of new products introduced at the show."

Wright says some smaller companies took more sales orders



Del Cooper (left) of Tory Pines Resort, Francess town, N.H., engages in friendly conversation with Bob Brown of Jacobsen Div. of Textron on the GCSAA trade show floor in San Francisco.

in three days than they do in an average year.

Unfortunately, the GCSAA may have to turn down exhibitors next year. The show will be held at the Phoenix Civic Plaza which has a total of 110,000 sq. ft. of floor space. When you take into consideration walking area, that's about 5,000 sq. ft. less than the Moscone Center. Wright says she will be flying to Phoenix to see if there's a possibility of gaining space by adding another room.

Some of the educational session speakers at the show included doctors Richard Smiley, William Meyer, C. Reed Funk, Paul Rieke, James Beard, and a host of industry people and superintendents.

An interesting addition to this year's GCSAA conference was the simultaneous Sports Turf Managers Conference held Feb. 1.

The STMA is also planning its 1987 conference to be held in conjunction with the GCSAA show.



Dr. James Watson... WT&T's Man-of-the-Year.

## ASSOCIATIONS

### Mid-Year show is cancelled

The Golf Course Superintendents Association of America is doing away with its mid-year turfgrass trade show which debuted just last year.

Executive director John Schilling says the seminar portion and benefit golf tournament may still be held. The GCSAA will make its final decision at its board of directors meeting in May. If the board gives the go-ahead, the seminars would be held in the fall, without the trade show.

"The trade show was promoted well, but attendance dropped off the second day," Schilling says. "We felt a one-day trade show was asking too much of our exhibitors."

Schilling says another factor which

contributed to the decision is the volume of state and regional shows held around the same time, particularly in the East. "They're serving regional areas," Schilling says. "There's no market out there."

The golf tournament brought in about \$7,000 for turfgrass research last year. Schilling says the interest and the need for research funds is too strong to drop the idea completely.

"It takes a lot of money to be able to study the grasses available which use less chemicals and water," Schilling says. "And, by playing the tournament in the fall, we can be on northern courses, which gives us exposure there."

## ACADEMIA

### Rutgers students get Lofts' awards

Rutgers University students Jennifer Johnson-Cicalese and David Dugan recently received the Peter Selmer Loft Memorial Scholarship Awards from Lofts Inc. president Jon Loft.

Both are graduate students in turfgrass science.

The award is named after the late Peter Loft of Lofts Inc., who was active in the turfgrass industry. This is the second year the awards have been given.

## TREES

### Arborists care for Ellis Island trees

Last November, more than 100 tree service personnel worked to preserve trees on Liberty and Ellis islands.

The National Arborist Association, under the direction of Robert Kirwin and staff from American Tree Care, Inc. on Long Island, organized the event. Represented were 23 NAA firms from New York, New Jersey and Connecticut, along with 20 arboriculture students from the University of Massachusetts.

The group pruned several hundred trees, providing a donation in excess of \$30,000.

"Never have so many climbers been assembled in one location before," says NAA executive vice-president Bob Felix. "It's a thrill to be involved in this historic scene and to see so much tree care talent donating their services."



An arborist prunes while Miss Liberty looks on.

## TREES

### Canadian college spares life of giant tree

Olds College in Alberta, Canada practices what it teaches. When a new driveway was planned on campus, the staff decided to save a 40-foot mountain ash instead of chopping it down.

"It's important to me to see the tree replanted," says grounds supervisor Dennis McKernan. "After all, we teach growing here at Olds College,

and here was a golden opportunity to demonstrate one aspect of that."

Moving such a large tree involves risk and preparation. Before the move, the tree was pruned back and sprayed to reduce moisture loss. Its root system was boxed up with plywood and a steel framework was welded into place.

It took a 30-ton crane to hoist the boxed tree onto a trailer. The tree weighed more than 12 tons. Two power lines and one telephone line had to be dropped to let the towering tree pass by. The tree was then lifted off the truck and put into the ground without any problems.

The tree is doing fine.



Left to right, Paul Mengle, manager professional turf and garden sales; Kendall Tomlinson, vice president and chief operating officer; Vernon Bishop, president and chief executive officer; and Jim Kuhle, plant production manager.

## TURF

### Lebanon's new turf production warehouse to open next month

Lebanon Chemical Corp. is building a new warehouse for turf products.

The facility, located in Lebanon, Pa., will have more than 52,000 sq. ft. of space. It will be able to store about 5,000 pallets.

The new warehouse will complement Lebanon's existing four warehouses which offer 234,000 sq. ft. of combined storage space for more than 22,000 pallets of finished goods.

"This additional storage capacity will allow Lebanon to fully service turf professionals during peak seasonal demands without sacrificing our production standards," says Lebanon president Vernon Bishop.

The warehouse is scheduled to open in May.

## PBI/Gordon acquires Bulkem Corporation

The PBI/Gordon Corp. has acquired the Bulkem Corp.

Skip Skaptason, PBI/Gordon group vice-president, says the acquisition will strengthen the company's market distribution.

Bulkem's basic operational procedures will be unchanged.

"Bulkem is not as strong as a stand-alone company as it is integrated into our group," Skaptason tells WEEDS TREES & TURF. "The acquisition will provide additional muscle in the marketing area."

Skaptason says that the increased visibility will also mean increased availability of local help for lawn care operators. Additionally, LCOs can now receive same day delivery of many products, including several new products now available from PBI/Gordon.

"The combination of the acquisition of Bulkem and the increased distribution organization makes it easier and more effective to introduce new products," Skaptason says.

Among the new products are Bov-A-Mura, a concentrate of dairy cattle slurry that turns problem thatch into

humus; Pestroy, a PBI/Gordon formulation of sumithion, an insecticide used world-wide; and Transfilm, an anti-transpirant that protects plants against damaging conditions.

### CHEMICALS

## Glyphosate receives safe rating by FIFRA

The FIFRA Scientific Advisory Panel has reviewed glyphosate, used in Roundup and Rodeo herbicides, and found inadequate evidence of carcinogenicity.

The EPA had originally petitioned the panel to put glyphosate in the Class C (possible human carcinogen) category because of one controversial and suspect mouse study.

In those tests, mice of one sex of one species which were given maximum tolerated doses of glyphosate had a higher incidence of kidney tumors. But one panel member called the study's statistics "a pretty weak endpoint" and "open to question."

A large part of the panel's Feb. 11th meeting was devoted to the pesticide. Robert Harness of Monsanto, which manufactures Roundup and Rodeo, called for a Class E, "no evidence of

carcinogenicity," classification.

### LEGISLATION

## EPA issues booklet on hazardous waste

The EPA has issued a publication called "This brochure will help you comply with hazardous waste laws."

The brochure contains a special insert describing hazardous wastes, along with chapters defining the new RCRA law, who is regulated, how to prepare and ship hazardous wastes, and how to manage wastes on-site.

The EPA estimates that 175,000 small businesses will be affected by the new RCRA law. (See Sept., 1985 WT&T).

For more information on how the new law might affect your business, call the EPA's Small Business Hotline, 800-368-5888 or the EPA's RCRA Hotline, 800-424-9346. You can also pick up information through your state hazardous waste management agency or your EPA regional office.

### PESTICIDES

## Ornithologists: DDT ban brings back birds

The bald eagle and four other rare birds have made a dramatic comeback since the reduction of DDT and other persistent pesticides in the environment, according to ornithologists at Cornell University.

The group says the North American birds of prey have increased in population in the last four years. Besides the bald eagle, other species including the prairie falcon, northern goshawk, merlin, and gyrfalcon, have increased in population.

Populations dropped when large amounts of DDT were present in the environment in the early 1970s. The chemical impaired the birds' reproductive capabilities. Most uses of DDT were banned in the United States in 1972.

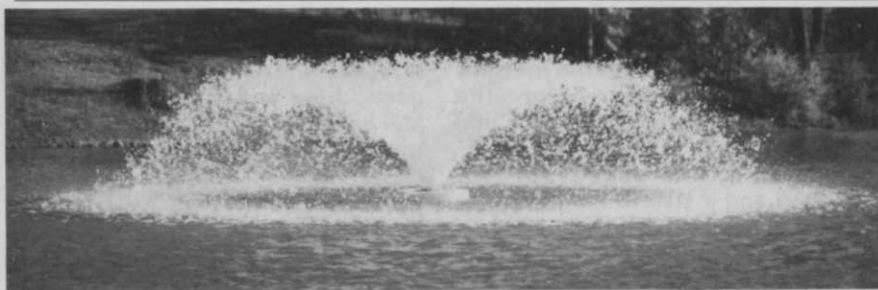
A decade ago, bald eagles were cited in only 39 states. Scientists say their number has increased by 92 percent and can be found in every state except Hawaii.

### LAWN CARE

## PLCAA creates new technical services post

The Professional Lawn Care Association of America is looking for someone to fill the newly created position of director of technical services.

*continued on page 12*



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