Don't let insects make your turf a jungle.

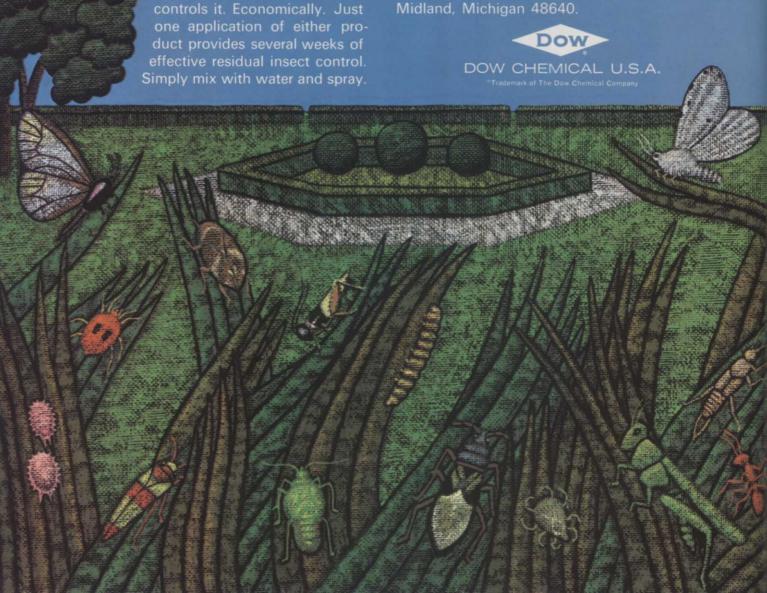
DURSBAN

For less money than any other major turf insecticide, DURSBAN* brand insecticides can keep more than a dozen insect pests from turning healthy turf into a teem-

ing insect jungle. Chinch bugs, sod webworms, you name it. If it's a major turf insect problem, DURSBAN 2E or more concentrated DURSBAN 4E probably controls it. Economically. Just one application of either product provides several weeks of effective residual insect control. Simply mix with water and spray.

Or call one of our selected custom formulators, and apply a DURSBAN granular formulation straight or in a dry fertilizer mixture.

Life is a big enough jungle without insects tearing up your turf. So for broad-spectrum insect pest control at a very low cost, make DURSBAN insecticides part of your turf program. Just read and follow all label directions and precautions. Agricultural Products Department, Midland, Michigan 48640.



WEEDSTREESETURE.

MAY 1977, Vol. 16, No. 5

14 Landscaping the Multi-Family Complex — How one landscape contractor turned an old, abandoned airstrip into a masterpiece of color.

18 Hydro-Mulching as an Alternative — Hydro-mulching is emerging as an effective and profitable method of turfgrass establishment.

22 Reflections on Fusarium Blight — Dr. Richard Smiley offers some practical advice on short and long range control of the devastating disease.

30 Topdressing with Sand — Tests at the University of Maryland show promise for this inexpensive turfgrass application.

Editorial 6	Lawn Care Industry49
Government News 8	Meeting Dates56
Industry News10	New Products55
People on the Move12	Classifieds60

Advertisers Index62

ON THE COVER — This month WEEDS TREES & TURF highlights four important facets of our Green Industry.

Copyright[©] 1977 by The Harvest Publishing Company, a subsidiary of Harcourt Brace Jovanovich, Inc. Publishers of Pest Control, Weeds Trees & Turf, Golf Business, Pennsylvania Farmer, Ohio Farmer, Michigan Farmer, Missouri Ruralist, Kansas Farmer. Books: Scientific Guide to Pest Control. 9800 Detroit Ave., Cleveland, Ohio 44102.

Member, American Business Press, Business Publications Audit





Single Copy Price: \$1.00 for current and all back issues. Foreign \$1.50. Subscription Rates: WEEDS TREES AND TURF is mailed free, within the U.S. and possessions and Canada, to qualified persons engaged in the vegetation care industry and related fields in controlled circulation categories. Non-qualified subscriptions in the U.S. and Canada are \$10.00 per year; other countries, \$12.00 per year. Controlled circulation postage paid at Cleveland, Ohio 44101.

Gail D. Hogan Editor

Ray Gibson Graphics Director

BUSINESS STAFF

Hugh Chronister Publisher

Richard J. W. Foster General Manager

Dorothy LoweClassified Advertising Manager

Darrell Gilbert Production Manager

Jack Schabel Circulation Manager

ADVERTISING OFFICES

HEADQUARTERS: 9800 Detroit Ave., Cleveland, OH 44102 (216-651-5500) Richard J. W. Foster, General Manager

NEW YORK: 757 Third Ave. New York, NY 10017 (212-421-1350) Steven Stone, Eastern Manager

CHICAGO: 333 N. Michigan Ave., Room 808 Chicago, IL 60611 (312-236-9425) Joe Guarise, Midwestern Manager

ATLANTA: 3186 Frontenack Court, NE Atlanta, GA 30319 (404-252-4311) Richard Gore, Southern Manager

LOS ANGELES: 4311 Wilshire Blvd., Los Angeles,CA 90010 (213-933-8408) John Sandford, Western Manager

SAN FRANCISCO: 615 Montgomery St., San Francisco, CA 94111 (415-982-0110) Robert A. Mierow, Western Manager

Standard.



Established by years of consistent performance.



You know how your tees, greens, and fairways look is a reflection of the care you give them. So give them the very best. Use Acti-dione turf fungicides. They're the standard.

Division of The Upjohn Company

Circle 109 on free information card

TO OUR READERS

ongratulations — this is the season when the fruits of your labor are most evident. It's a delight to drive home in the evenings now, past the peopled golf courses and busy athletic fields with spring practice in full swing.

Entering my subdivision, which is built in a valley, I see even more Green Industry labors - beautiful flowering dogwoods, birch and red maple, lush evergreens, nearly perfect lawns and tree lawns.

Each evening I notice trucks from new lawn care companies as well as established landscape contractors and tree care companies. And to think, each year it will get more beautiful as the six-year-old development takes on more character and the feeling of establishment.

In Cobbs County, Georgia, a multi-family complex took on this character immediately, thanks, in large measure, to the determination and talent of a young landscape contractor, but see for yourself on page 14. The contractor, Jim Gibbs, told me a story about work attitude, and, although it is about another industry, I pass it along as the concept is applicable to all of us.

One late spring afternoon, two railroad track gang workers were lining up crossties when a train pulled up and an imposing man in a pinstripe suit got off.

"Hi, Bill", said the man to the older worker. "How are

Joan and the children?"

The conversation went on a few minutes longer, then the man got back on the train and it pulled away.

The younger worker, who had stood in silence during the conversation, said, "Bill, do you know who that was?"

"Sure," said Bill. "That's the president of the railroad." "How do you know him?" the younger worker asked in

"Why," said Bill, "thirty years ago we worked on a track

gang together."

After a long silence, the younger worker said, "Bill, I don't mean to hurt your feelings, but have you ever wondered why, after 30 years, he's the company president and you're still on the track gang?"

"Sure," said Bill. "I've thought about it a lot. Thirty years ago I was working for 35 cents an hour. Today I work for \$3.75 an hour. Thirty years ago he was working for the rail-

road."

This month we take a long, hard look at Fusarium blight, see page 22. Dr. Richard W. Smiley of the New York State College of Agriculture and Life Sciences at Cornell, prepared the article. He recommends you take a multi-pronged approach to the disease. It's well worth reading.

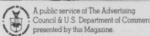
At the University of Maryland, Dr. Douglas Hawes is working with sand as a topdressing for turfgrass, see page 30. Dr. Hawes' four management tools are sand versus none and summer versus winter fertilization. This low-cost application shows promise for some turfgrass combinations.

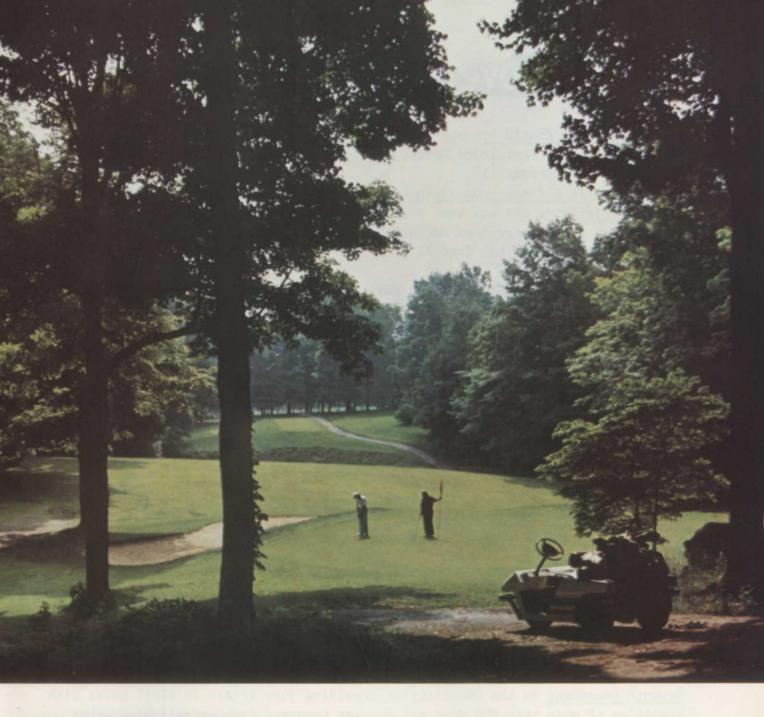
Yail D. Nogan

American Economic vstem is (check one)

Most Americans (about 80%) believe that our economic system—with its individual freedom—is the best in the world, yet some changes are needed. To help give you a clearer picture of our system on which to base decisions, a special booklet has been prepared. For a free copy, write: "Booklets", P.O. Box 1887, New York, N.Y. 10001.







DACONIL 2787° Pours it to nine fungus diseases.

Broad-spectrum Daconil 2787 fungicide controls nearly all fungus diseases found on golf greens, tees and fairways, as well as many ornamentals.

It is highly effective against brown patch, copper spot, dollar spot and Helminthosporium in the spring and fall.

And now Daconil 2787 is available in either a convenient flowable or a wettable powder formulation.

Excellent turf tolerance permits use right on through the hot summer months.

Tested and used successfully on at least 35 species and varieties of turf-grasses, including all major bluegrasses, bentgrasses, bermudagrasses, ryegrass, fescuegrass, Dichronda and zoysiagrass. Can be used on new seedings and established turf.

Follow the Diamond Shamrock Turf Care System for professional turf care over your entire golf course. Many of the leading country clubs across the nation already do. or write the Diamond Shamrock Agricultural Chemicals Division sales office nearest you.

Contact your turf chemicals supplier



The resourceful company.

SALES OFFICES: Three Commerce Park Square, 23200 Chagrin Blvd., Beachwood, Ohio 44112 • 1401 W. Paces Ferry Rd., NW, Atlanta, GA 30327 • 5333 Westheimer, Suite 850, Houston, Texas 77002 • Commerce Plaza Bldg., 2015 Spring Rd., Oakbrook, III. 60521 • 617 Veterans Blvd., Redwood City, Calif. 94063

Government News

<u>Douglas M. Costle has been confirmed</u> by the Senate as Administrator of the Environmental Protection Agency. He was nominated for the post by President Carter on February 16.

Costle is a former commissioner of the Connecticut Department of Environmental Protection, and has been a consultant to E.P.A. on land use policies. He holds an A.B. degree from Harvard University and a J.D. degree from the University of Chicago Law School.

The General Accounting Office has released a copy of a <u>study highly</u> <u>critical of the Occupational Safety and Health Administration and the National Institute of Occupational Safety and Health, the research organization in the Department of Health, Education and Welfare. According to the New York Times, the study points out that although millions of workers are exposed every day to hundreds of substances known to cause cancer and other diseases, final protective procedures have been imposed for only 15 such poisons in the five years the agency has been functioning.</u>

The 116-page report of the G.A.O., the investigative arm of Congress, said that unless the two agencies can expedite the passing of emergency temporary standards, "it will take more than a century to establish needed standards for substances already identified as hazards." The study concluded that some of the \$727 million dollars the agencies have spent in the last five years might have been better spent on education and training activities related to toxic substances.

The enforcement procedure of O.S.H.A. were recently upheld by the Supreme Court. In a unanimous decision, the court rejected the arguments of two contractors who alleged the procedures unconstitutional on the grounds that they had been fined without benefit of a jury trial.

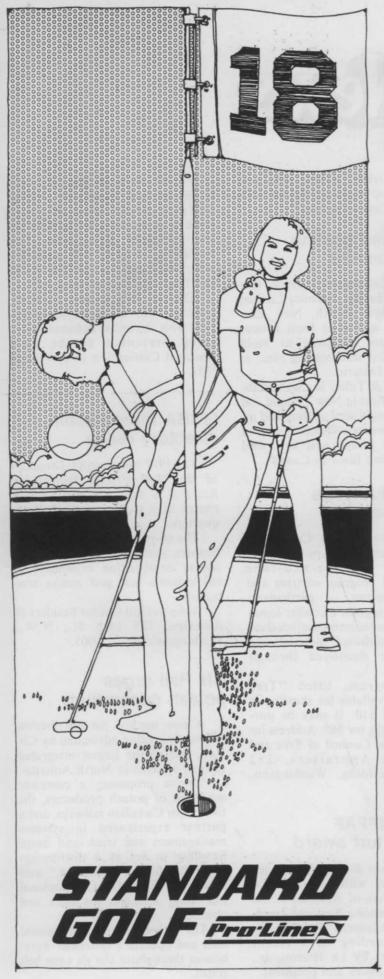
Justice Byron R. White, writing the decision of the court, held that the Seventh Amendment to the Constitution providing jury trials in civil suits with penalties of more than \$20 does not prevent Congress from establishing other enforcement procedures.

Scientists at Mississippi State Chemical Laboratory are attempting to develop degradable insecticides that could be used to control the imported fire ant under a cooperative agreement with the U.S.D.A.

The red and black imported fire ants, Solenopsid invicta and S. richteri, are serious pests of humans and agricultural production in the southeastern U.S. Since Mirex is being phased out as a control for the imported fire ant, new toxic bait formulations must be developed.

In studies to develop new baits, <u>researchers at Mississippi State will</u> <u>synthesize new candidate chemicals</u> that are readily degradable and have a slow or delayed toxic action.

The Agricultural Research Service of U.S.D.A. will provide \$24,000 for the study.



Flag Poles of all types

only from Standard!

Nobody but nobody offers such a wide selection of quality poles - in so many types - and colors.

4 proven-popular kinds to choose from! Flex-King, Royaline and Tournament Poles in high-grade, weather-proof fiberglass; Slim Line poles in superstrong, heat-treated aluminum.

Select from tapered and untapered types - in 5-foot through 10-foot lengths.

Colors? Standard can furnish any color combination to fit

your needs.



Simply contact your local Standard Distributor. Or write: Standard Golf Company, 220 East Fourth Street, Cedar Falls, Iowa 50613, (319/266-2638).

Why not order all of your poles, flags and cups from Standard Golf -today?

Industry News

GCSAA adopts stricter code

A stronger code of professional ethics and enforcement procedures have been approved by members of the Golf Course Superintendents Association of America.

One of the code's new standards is a requirement that product endorsements be based strictly upon satisfactory personal experience with the item.

In addition, gifts offered by any firm must be made available to all similarly situated superintendents, with the understanding that no actions will be forthcoming as a result of the acceptance of such gifts.

In conjunction with the approval of the new code, GCSAA members approved two bylaw revisions to provide stringent enforcement of it. The enforcement procedures will begin with the Ethics Committee. Upon that committee's recommendation, the Executive Committee can, under the new provisions, enforce the code by disciplining or expelling members who violate it.

IH reorganizes: creates new group

International Harvester has changed its organizational structure from a divisional concept to five free standing, self-sufficient world-wide business groups, according to Brooks McCormick, IH president and chief executive officer.

"After a year-long study by outside consultants, the Board of Directors has approved the recommendations that we create four autonomous world-wide groups to manufacture and market our products — agricultural equipment, trucks, construction equipment and turbo machinery. A new, and the fifth, world-wide group, called the Components Group, will be created with responsibility for manufacturing axles, engines, castings and management of IH's parts distribution system."

Can. seed coating plant planned

Oseco Limited of Bramton, Ontario, and Hodder & Tolley Limited of Palmerston North, New Zealand, have agreed to form a new, joint venture company to build Canada's first seed coating plant at Brampton, Ontario.

Hodder & Tolley is a well established seed firm in New Zealand and has developed a seed coating and inoculating process. Oseco is one of the largest forage and turf seed merchandising firms in Canada.

Tree value slide show available

The newly-formed Council of Tree and Landscape Appraisers has produced a slide-and-tape audio/visual program of trees and landscape values — particularly from the standpoint of dollar losses which may be recaptured when trees and other landscape materials are damaged or destroyed through casualty.

The program, titled "Tree Values," is available for showing at a use fee of \$10. It may be purchased outright for \$65. Address inquiries to The Council of Tree and Landscape Appraisers, 232 Southern Building, Washington, D.C. 20005.

Scott's, NFFAF sponsor turf award

O. M. Scott & Sons has signed an agreement with the National Future Farmers of America Foundation to sponsor a Turf and Landscape Management Proficiency Award, according to a recent announcement by Le Herron, Jr., company chairman and president. The award is designed not only to complement classroom training with practical experience, but also to serve as an incentive for both career and leadership development. This Proficiency Award will recognize and reward students excelling in turf and landscape related projects.

The first local awards under the program will be made in Spring 1978 with the initial national award being presented at the FFA National Convention in November 1978.

GCBA membership directory ready

The 1977 Membership Directory of the Golf Course Builders of America is now available without charge from the association's head-quarters.

The 44-page, three color booklet features names, pictures and golf course construction experience of the nation's best golf course contractors.

Write to Golf Course Builders of America, 725 15th St., N.W., Washington, D.C., 20005.

CN Rail urges potash consortium

A new method for distribution of potash is being advocated by CN Rail, one of the largest integrated railway systems in North America.

"We're proposing a company made up of potash producers, the two major Canadian railways, and a partner experienced in systems management and truck and barge handling to act as a distribution agent for potash producers," said Peter L. Schwartz, CN national marketing manager for fuels and chemicals.

The proposed company would own and operate a system of warehouses throughout the six corn belt states.