

Announcing new Sarolex for turf.

Get spectacular control of both nematodes and insects with just one product.

Season long effectiveness against nematodes. Long-lasting control of insects. Fast green-up. All this with only one product . . . new Sarolex* nematicide-insecticide. No other product can do as much.

One application of Sarolex provides outstanding, long-lasting control of lance, pin, ring, root-knot, sheath, sheathoid, spiral, sting, stylet, and other plant-parasitic nematodes that attack established turfgrasses. And control generally lasts for an entire season.

Three years of plot and field work in Florida has proved that Sarolex produces results far superior to those you have been able to get with other control materials. Visitors at the recent Florida Turf-Grass Association meeting were amazed when they saw the results of the tests.

Sarolex treatment greens up grass fast . . . Bermudagrass in as little as two weeks, and St. Augustine grass in six to eight weeks, in hot weather.

You get an exclusive bonus with new Sarolex because the rates recommended for nematode control also provide outstanding control of a wide range of turf insects . . . lawn chinch bugs, sod webworms (lawn moths), crickets, armyworms, and many more.

Sarolex has a high margin of safety to established turfgrasses.

You can use Sarolex in combination with other chemicals, and with liquid nitrogen fertilizer.

The most effective period for making Sarolex treatments on home lawns, parks, athletic fields, commercial sod, golf greens and fairways, and around motels, hotels, and office buildings, is between May and September . . . when grass is usually growing fastest, and when nematodes and insects are also most active.

For more information about Sarolex write:

Geigy Agricultural Chemicals,
Division of Geigy Chemical Corporation, Ardsley, New York.

*SAROLEX is a trademark of Geigy Chemical Corporation.



Geigy
CREATORS OF CHEMICALS FOR MODERN AGRICULTURE
Sarolex

Why do so many corporations contribute to America's colleges?

1. () they want to help the colleges

You were right if you checked No. 2.

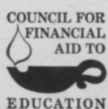
American corporations want to make sure there will be enough college-trained leaders to fill the management jobs open today and in the future.

This is good insurance for business.

And the need, we must remember, isn't getting smaller.

World trade is developing fast; business is getting more competitive, more complex; science is introducing new products and processes rapidly.

College-trained men and women are needed, in increasing numbers, to plan and direct the activities of business.



Published as a public service in cooperation with The Advertising Council and the Council for Financial Aid to Education

2. () they need the leaders colleges train

But the colleges can't do the training job alone. They need classrooms, laboratories and facilities, yes. But even more, they need backing to maintain a staff of top-notch teachers.

This is the human equation that makes the difference in reaching the **margin of excellence** needed in the U. S.

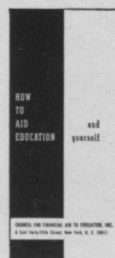
This is everybody's job, but especially industry's.

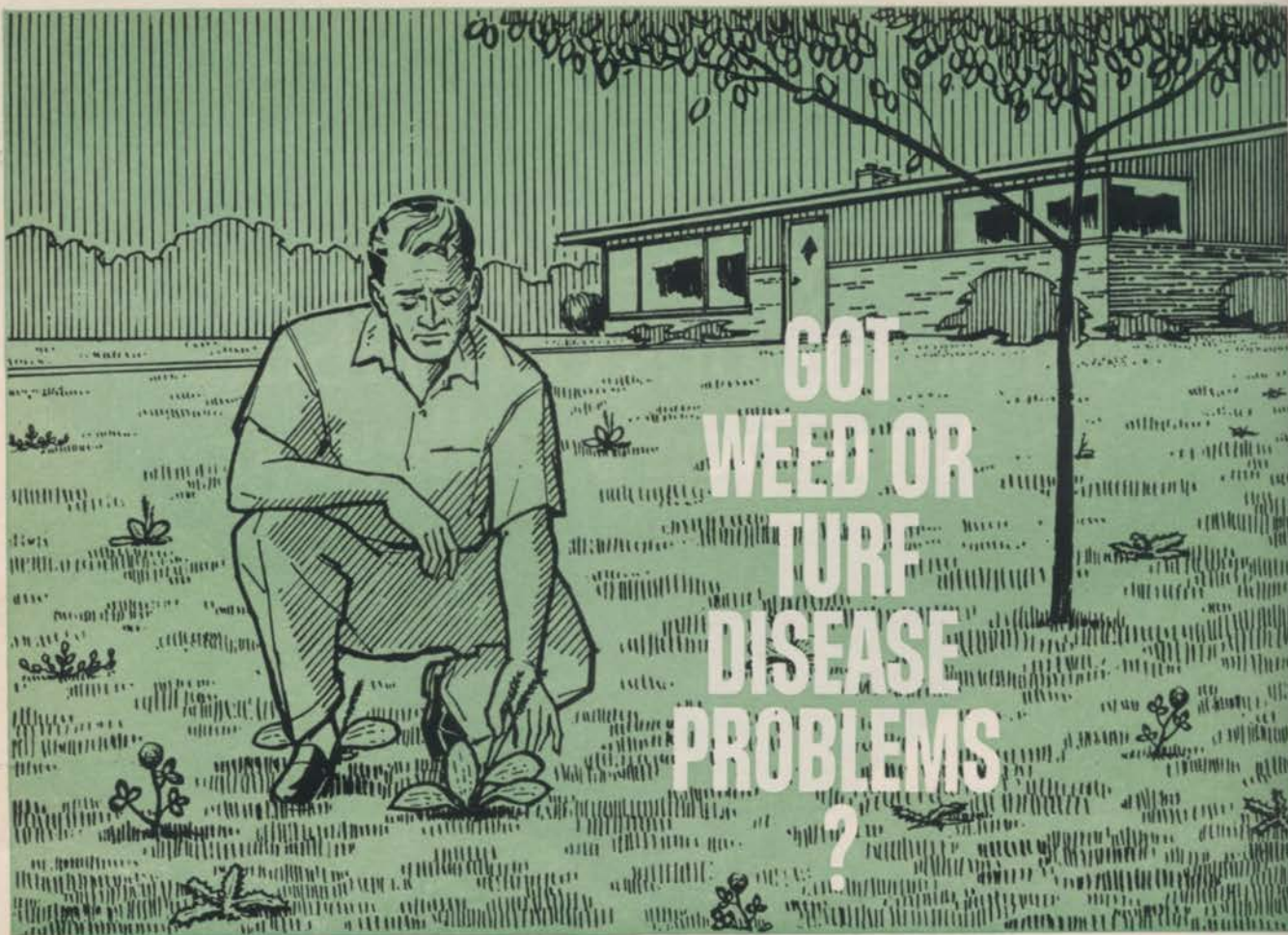
Of course American business wants to help the colleges, so you were also right if you checked No. 1. College, after all, is business' best friend.

GIVE TO THE COLLEGE OF YOUR CHOICE.

SPECIAL TO CORPORATE OFFICERS—A new booklet, of particular interest if your company has not yet established an aid-to-education program. Write for:

"How to Aid Education—and Yourself"
Box 36, Times Square Station
New York 36, N. Y.





GOT
WEED OR
TURF
DISEASE
PROBLEMS?
?

*Solve them easily and surely
with MORTON "Peace-of-Mind" Products*

Mecopar..

Broad-spectrum weed control . . . safer on sensitive grasses. Including blue grasses, fescues, Bermuda and even bent grasses at fairway cutting height.

Eliminates virtually all common turf weeds including dandelion, clover, chickweed, English daisy, Veronica, spurge, knotweed, plantain and others.

Mecopex..

A specific weed killer proven safe on sensitive grasses, even short-cut bent—especially effective on clover, chickweed, knotweed and plantain. Low volatility lessens drift hazard.

Panogen.. **Turf Fungicide**

For maximum disease control on the biggest variety of diseases—Helminthosporium fading out and damping off, melting out, dollar spot, copper spot, fairy ring, brown patch, and snow mold.

ALL WATER SOLUBLE LIQUIDS . . . APPLIED EASILY WITH TURF SPRAYING EQUIPMENT . . .
READ THE LABELS FOR BEST RESULTS . . . SEND FOR INFORMATION



PEACE OF MIND PRODUCTS FROM . . .

MORTON CHEMICAL COMPANY

Division of Morton Salt Company

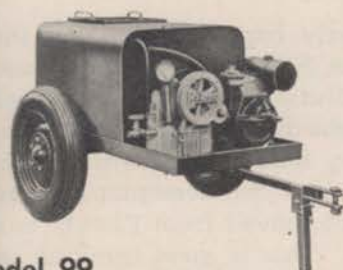
110 N. WACKER DRIVE • CHICAGO, ILLINOIS 60606

HARDIE

HAS THE RIGHT SPRAYER FOR YOU



Aeromist Sprayer-Duster



**Model 99
50-100 gal. Skid-Trailer**



15-30 gal. Town & Country

Hardie has just the sprayer for your particular job, whether it be for mosquito control; combatting Dutch Elm disease; nursery work; contract lawn, tree & shrubbery service . . . Whatever your need may be . . . write to Hardie today, or call your local Hardie Dealer for more information or an on-the-spot demonstration.

HARDIE SPRAYERS
4300 Wissahickon Avenue, Dept. PC
Philadelphia 29, Pa.

Have a Hardie Salesman call on me.

Literature

NAME.....

ADDRESS.....

CITY..... STATE.....

A DIVISION OF
UNIVERSAL AMERICAN
CORPORATION

WEEDS TREES and TURF

FORMERLY WEEDS AND TURF

July 1965

Volume 4, No. 7

Features:

Alabama's Weed Spraying Experiment By C. W. Himes and Holly Mitchell	12
A New Nematode in Turfgrass By L. R. Krusberg	14
Brush Control at TVA—Part II By John R. Aldred	16
Current Trends in Sod Production By Ben Warren	20
Tensiometer Cuts Water Bill in Half, Survey by UC Turf Expert Proves	25
Sod, Sprigs of New Centipede Variety Available to Certified Growers for '66	26
Tree Dedication by LBJ to Highlight International Shade Tree Conference, Aug. 15-19	29

Departments:

Editorial: Congratulations to the NSA!	6
Letters	8
Know Your Species: Prickly Pear	28
Meeting Dates	29
Classified Ads	32
Advertisers Index	32
Trimnings	34

JAMES A. NELSON
Publisher

CHARLES D. WEBB
Editor

DAVID E. SCHNEIDER
Staff Biologist

D. BUNKIN
Circulation Supervisor

Advertising Representatives
National Headquarters
1900 Euclid Avenue
Cleveland, Ohio 44115
Phone: Area Code 216+771-4169

Chicago 60601
Peck & Billingslea, Inc.
185 North Wabash Ave., Suite 1809
Phone: 312+DEarborn 2-0292-93

New York City 10017
Billingslea & Ficke
420 Lexington Avenue
Phone: 212+532-1632

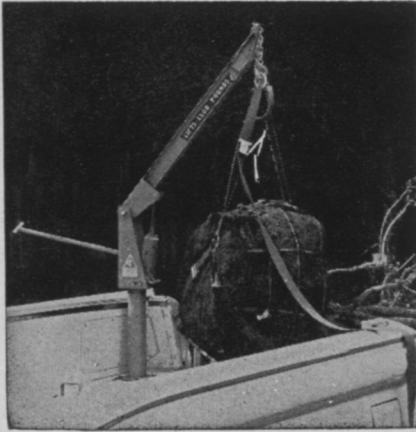
WEEDS TREES AND TURF is published monthly by Trade Magazines, Inc. Executive, editorial, and advertising offices: 1900 Euclid Ave., Cleveland, Ohio 44115. Publication office: Corner of East North St. and Cadwallader St., Fostoria, Ohio. Send all correspondence to WEEDS TREES AND TURF, 1900 Euclid Ave., Cleveland, Ohio 44115.

Single Copy Price: 50 cents for current issue; all back issues 75 cents each. Foreign \$1.00.
Subscription Rates: U.S. and possessions, 1 year \$3.00; 2 years \$5.00. All other foreign subscriptions, 1 year \$4.00; 2 years \$7.00. **Change of Address:** Three weeks advance notice is necessary for change of address. Both old and new address must be given. Post Office will not forward copies. Third Class postage is paid at Fostoria, Ohio.

Contents of this Issue © Trade Magazines, Inc., 1965

ONE-MAN HYDRAULIC CRANE

Gives One Man the Strength of 10!
Easily mounted on any type truck. 360° Swing.



1500-Lb.
Capacity

\$119.50

2500-Lb.
Capacity

\$169.50

**BOTH
COMPLETE
WITH TRUCK
MOUNT AND
6' CHAIN.**

Equipped with ad-
justable nylon sling
Ideal Crane easily
hoists balled trees
onto truck.

Ideal Crane is portable. Place it on the truck, loading platform, or warehouse dolly . . . wherever it is needed. Pipe bases stationed at several loading points all use the same crane!

Many accessories available. Sold on a Guaranteed Performance Basis! Hundreds now in use throughout U. S. and Canada.

If check accompanies order we pay freight to your door.
Call collect to place your order.

IDEAL CRANE

A Division of
Bert Parkhurst & Co.

15051 East Admiral Pl.

Tulsa 18, Okla.

Telephone: 918 + GE-7-3313

The Job: Roadside Spraying!

The Time: Now!

The Equipment:



Custom Spray's New Boom.

Engineered with such precision you can "scratch your ear with it." But it works best for spraying. Spray 8 miles per man hour, with ease, with this versatile, efficient, money-making spray boom.

WRITE FOR FREE, ILLUSTRATED BROCHURE

Custom Spray Equipment Corp.

RD #2

Binghamton, N. Y.

Congratulations to the NSA!

This magazine, since its very inception, has urged the establishment of a national association of contract applicators engaged in weed and brush control, tree service, and turf management. And we note with pleasure the foundation, at long last, of such an organization, the National Spraymen's Association (WTT, June, pg. 26).

There were a great many pitfalls encountered in setting up this trade group; there were frustrating delays, and complications brought about by the great scope and geographical diversity of the industry nationally. But through continued efforts of several leaders from various sections of the country, and in particular through the continuing drive of a group of applicators in Florida, the association is now a reality and, we hope, is well on its way to success.

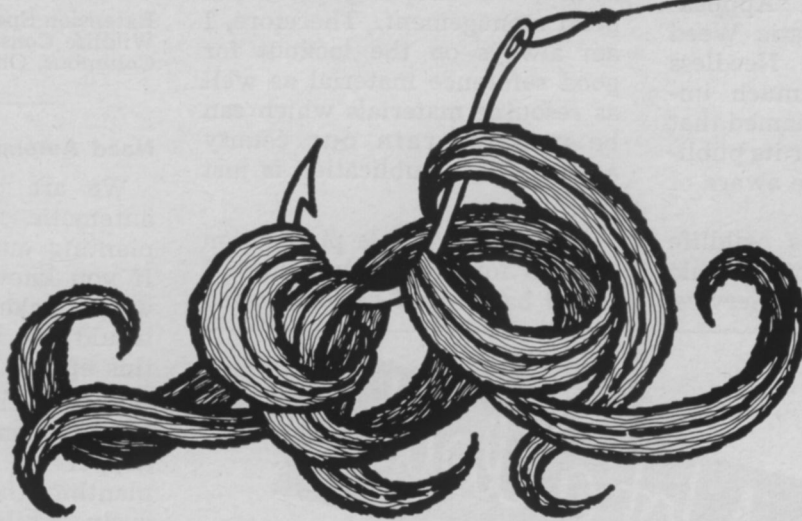
We were particularly happy to see that the initial members of the NSA have not precluded changes in their constitution and bylaws. In fact, they invite modifications during their first national meeting, which may take place yet this year; and we're glad to see that the headquarters and state of charter may be moved from Florida to a more central location. This is good thinking on the part of the charter members, and shows an earnest willingness to put aside regional differences and work for advancement in a rapidly growing, complicated, highly technical field.

We urge our readers to consider whether or not the NSA can be a valuable asset to their activities. Those who engage in any of the contract services implied by this magazine's name no doubt have many questions which a national could answer, questions of legal issue; of technological significance; or of marketing and business management nature.

The road from here on, for the National Spraymen's Association and its members, will not be a smooth one; there are many roadblocks, many hurdles. But the start has been made, and progress will come in direct proportion to the efforts and abilities of the members themselves. We wish them well!

WEEDS TREES AND TURF is the national monthly magazine of urban/industrial vegetation maintenance, including turf management, weed and brush control, and tree care. Readers include "contract applicators," arborists, nurserymen, and supervisory personnel with highway departments, railways, utilities, golf courses, and similar areas where vegetation must be enhanced or controlled. While the editors welcome contributions by qualified freelance writers, unsolicited manuscripts, unaccompanied by stamped, self-addressed envelopes, cannot be returned.

Weed-choked pond?



FIGHT BACK! WITH ORTHO®

In just ten days, new ORTHO Diquat can give you a clean, weed-free pond



New Diquat makes short work of the common water weeds—water lettuce, water fern, pondweed, coontail, Southern Naiad, water hyacinth and Elodea. Diquat is easily applied by spraying or injection under the water surface. The weeds absorb it, and quickly wilt, collapse and die. (For free-floating weeds, use a standard sprayer.)

Diquat is non-hazardous, used as directed. It would take 20 times the maximum recommended dosage to be at all harmful to fish. It's inactivated immediately on contact with soil, and it doesn't build up in water. In just 10 days (be sure to follow label directions), you can have clear, clean water for irrigation, watering your animals, swimming, or even a fishing hole.



"Helping the World Grow Better"

CHEVRON CHEMICAL COMPANY, ORTHO DIVISION, 200 Bush St., San Francisco 20, California

(FORMERLY CALIFORNIA CHEMICAL COMPANY)

ON ALL CHEMICALS, READ CAUTIONS AND DIRECTIONS BEFORE USE.

T.M. REG. U.S. PAT. OFF. 1 ORTHO, HELPING THE WORLD GROW BETTER

When Writing to Advertisers Please Mention WEEDS TREES AND TURF

He's Impressed

Recently a reprint of your excellent series entitled "Applicator's Manual of Aquatic Weed Control" reached me. Needless to say, I was very much impressed and a little ashamed that it was over a year after its publication before I became aware of it.

In my capacity as wildlife specialist on the staff of the Ohio Cooperative Extension Service,

one of my major educational programs is farm pond management. The control of aquatic vegetation is, as you are well aware, the major problem in pond management. Therefore, I am always on the lookout for good reference material as well as resource materials which can be used to train our county agents. Your publication is just that.

Never, in a single publication written for layman use, have I found basic pond ecology, weed

identification, and control so digestibly presented. Congratulations on an outstanding job!

Thomas M. Stockdale

Extension Specialist
Wildlife Conservation
Columbus, Ohio

Need Automatic Planter

We are trying to locate an automatic fairway planter for planting our hybrid Bermudas. If you know of any companies which make such a machine, we would like to hear from you to this effect.

This machine should be capable of planting sprigs from a hopper or shredding sod and planting the sprigs simultaneously, while carrying a supply of material.

Leo W. Klarr

Mississippi Grass Nurseries
Hattiesburg, Miss.

We can't recommend any specific manufacturer to the exclusion of another. You may consult our Suppliers Guide which appears in the December 1965 issue, and we are printing your letter here so others may write directly to you if they wish.—Ed.

"Surfactant" Reprints Depleted

I have had the opportunity to review a series of your recent issues of *Weeds Trees and Turf*. There are many interesting articles included which would be of real assistance to me in my program, which is primarily aimed at the nutrition and fertilization aspects.

I would like to know if reprints are available on the articles, "Surfactants," and "How to Use Your Soil Test Kit," which appeared in the January, 1964, issue of your magazine.

Paul E. Reike

Assistant Professor in Soil Science
Michigan State University
East Lansing, Mich.

Sorry, our January supply is depleted, and the last "Surfactant" reprint has been sold. There was an unprecedented demand for this popular issue.—Ed.



New **DIALOAM**

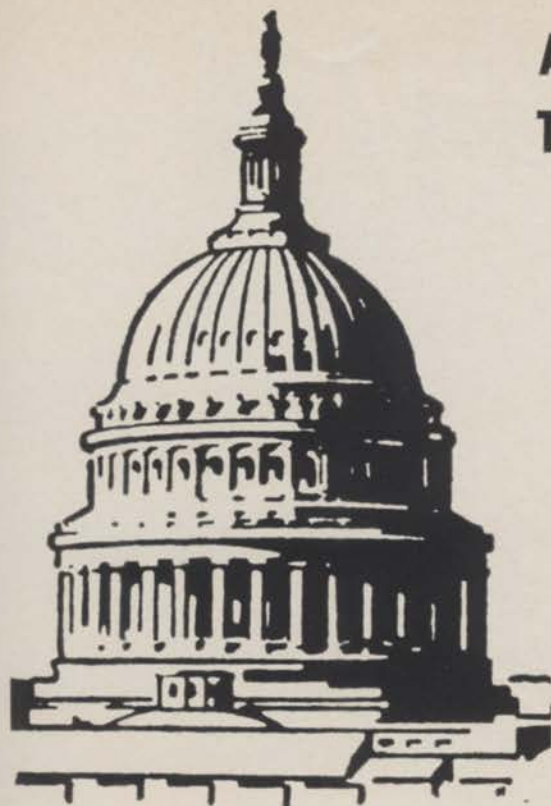
Soil Conditioner Absorbs 150% of its weight in water, provides controlled release of moisture, won't compact.

At last here's a soil conditioner/mulch/top dressing that ends turf moisture problems. Won't cake, won't leach away. DIALOAM is a granulated, diatomaceous earth composed of millions of microscopic water-life plants and fossils. DIALOAM absorbs up to 150% of its weight in water. Moisture release is gradual, just right for healthy grass . . . a life-saver in dry weather. Particles tend to work into the earth giving it a porous, loamy texture that leads to strong, healthy turf. Try DIALOAM on your turf this year! Write for more information.



SINCE 1843

EAGLE-PICHER
The Eagle-Picher Company
American Building, Dept. W-7
Cincinnati, Ohio 45201



A Capital Suggestion for Suppliers To the Tree Maintenance Industry:

Build Sales with an Advertisement in the **AUGUST SHADE TREE ISSUE**

of **WEEDS TREES AND TURF**

Celebrating the 41st Annual
Convention and Trade Show of

The International Shade Tree Conference
(Washington Hilton Hotel, Washington, D.C., August 15-20)

1. Accent on Trees!

★ A panorama of the latest technical and managerial data for arborists, the August issue of *Weeds Trees and Turf* is perfect to carry your sales message. Tree specialists from across the land find this annual commemorative edition full of indispensable information designed to help them do a better job. Articles this year include a special feature on labor management in the tree business; a quick look at brush chippers; and a *striking 4-color insert* on insect pests of ornamentals and how to control them. ■ In addition, there are the customary articles and features on allied subjects, including this August an exclusive article on hawkweed control in turf, and the monthly weed identification box. An issue to be read carefully, and referred to time and time again!

2. Handy Reader Reply Card

★ Automatic Inquiries! Bound into each issue will be a *Reader Inquiry Card* listing each August advertiser. To get more information about advertised products, *WTT* readers simply check the advertiser's name and drop the pre-addressed card in the mail. We compile inquiries weekly and send neatly typed lists to each advertiser. Readers also like this service which makes it easier to get data.

3. Bonus: Extra Circulation

★ Copies of the August issue will be available to delegates to the International Shade Tree Conference Convention (expected to be the biggest ever) when it meets in Washington. This means a minimum of 750 extra copies will be circulated, and there's no increase in rates for this bonus mileage for your ad dollar. (Total distribution of this issue will be over 10,500!)

Reserve Space Today! Address Advertising Department

WEEDS TREES AND TURF

1900 Euclid Ave., Cleveland, Ohio 44115

Phone 216 + 771-4169

CLOSING DATE
JULY 10th



Investment Opportunity

Enter this in your inventory—now. Twenty years from today you may be spinning fibers from it, laminating beams from it, turning out rolls of newsprint from it.

This tree is a resource that our industry, our people *cannot afford to waste!*

You have an investment in it. You can help protect it, and *all* of your country's rich heritage, by joining with other leading American businessmen in promoting the Treasury's Payroll Savings Plan for U.S. Savings Bonds. The Treasury's Plan works to encourage the habits of thrift, self-reliance and love of country in all Americans—attributes so essential to conservation and democracy.

When you bring the Payroll Savings Plan into your plant—*when you encourage your employees to enroll*—you are investing in the resources that will help clothe, house, and teach future generations. Resources that will keep American industry supplied with a steady stream of materials. You are investing in America's riches and glory—in beauty that, once lost, can never be regained. In America's future. In freedom itself.

Don't pass this opportunity by. Call your State Savings Bonds Director. Or write today to the Treasury Department, United States Savings Bonds Division, Washington, D. C. 20226.



in your plant...promote the PAYROLL SAVINGS PLAN for U.S. SAVINGS BONDS



The U.S. Government does not pay for this advertisement. It is presented as a public service in cooperation with the Treasury Department and the Advertising Council.