

## —W & T Mailbox—

### Perturbed . . . for a moment

After seeing the first few copies of the new *Weeds and Turf*, I was somewhat perturbed by the seemingly casual approach to this type of work. However, your warnings and recent cautions to new applicators are very timely and to the point. You have pointed out some of the hazards of weed control and they should not be taken lightly.

For the past 10 years, a large percentage of our volume has been from weed and grass control for oil and related industries. Our experience with pre-emerge chemicals led us into the field of lawn weed control and for the past two years, we have concentrated on this area. This has had its problems.

Perhaps, Problem No. 1 has been the porosity of the soils that we have to work with. Clay soils seem to give us the most trouble. Sandy soils do not hold the materials well enough to get the proper control. There also seems to be a correlation in the pH of the soils and combinations of different herbicides we have used.

We have had problems in the application of liquid fertilizers. We do not get the quick "bounce" in the grasses that we had expected. We ran some tests on the addition of an iron chelate and that is not complete, but will let you know what our tests prove.

In view of these problems, I would strongly urge that any operator approach this new type of business with extreme caution; a bad job and a ruined lawn will cause a great deal more grief than the monetary benefits will take care of.

I am proud of you for publishing this magazine for us.

Tom Graham

Graham Pest Control Garden Clinic  
Oklahoma City, Oklahoma

*Weeds and Turf welcomes expressions of opinions from its readers. Send ideas and comments briefly as possible to Charles D. Webb, Editor, Weeds and Turf, 1900 Euclid Ave., Cleveland 15, Ohio.*

### Clear Downed Elm Wood Fast To Halt Dutch Elm Disease

Quick cleanup of branches broken off trees by windstorms, or felled through other means, was urged recently by Iowa State University entomologist, Harold Gunderson.

If downed elm wood isn't cleaned up by the middle of August, Gunderson said, the bark beetles that spread Dutch elm disease will begin laying eggs in the debris. Result will be an increased beetle population for 1963, and more chances for widespread Dutch elm damage.

Gunderson said it is important also that people recognize that no spraying treatment gives 100% protection. In elm trees 60 to 110 feet tall, for example, it's quite possible that at least one crotch won't receive enough insecticide to protect against bark beetle feeding in the spring. And one feeding beetle can infect a healthy tree.

Gunderson said spraying elms under ideal conditions during the dormant season, with a proper mixture of DDT, will give 95-99% protection. Methoxychlor used under similar conditions will give 93-96% protection.

Where elms grow very close together, Gunderson explained, it's

possible for Dutch elm disease to be transmitted through root grafts. When this happens, spraying offers no protection whatever.

Trees infected with Dutch elm disease show in the early stages a yellowing and wilting of leaves on water sprouts along the trunk or on one or more branches at the treetops. Elm leaf beetle larvae feed on the underside of leaves, causing a skeletonizing effect.

Another control recommendation for combatting the ailment comes from David Matthew, Purdue University extension entomologist. He says severe infestations may be controlled by spraying the trees with DDT at 1/2 pint 25% emulsifiable concentrate or 1/4 pound 50% DDT wettable powder per 25 gallons. Lead arsenate may be used at 1 pound, plus 1/4 pint of summer oil, per 25 gallons.

### Sol-Kraft Grows, Relocates

Sol-Kraft, Inc., American distributor of West German Solo small engine equipment, is moving into new and larger quarters at 37-41 57th St., Woodside 77, N.Y. New facilities will feature offices, an enlarged stock room, and increased warehouse facilities.

### Literature you'll want . . .

Here are the latest government, university and industrial publications of interest to contract applicators. Some can be obtained free of charge, while others are nominally priced. When ordering, include title and catalog number, if any. Sources follow booklet titles.

**The Biology and Control of Turf Grubs**, Research Bulletin No. 829, 1959, Ohio Agricultural Experiment Station, Wooster, 15¢

**Improving Athletic Field Turfgrass**, Product Use Bulletin No. 2, 24 p. il., West Point Products Corp., West Point, Pa.

**Chlorobenzilate to Control Mites on Ornamentals**, Technical Bulletin No. 62-1, 8p. il., Geigy Agricultural Chemicals, P.O. Box 430, Yonkers, N.Y.

**Diseases and Other Disorders of Turf**, Circular 208 (Revised), April 1962, 11 p. il., Connecticut Agricultural Experiment Station, New Haven.

**Lawn Diseases and How to Control Them**, Home & Garden Bulletin No. 61, 16 p. il., Office of Information, U.S.

Department of Agriculture, Washington 25, D.C., 25¢

**Chemical Control of Diseases Affecting Turf on Golf Greens**, Processed Series P-422, June 1962, 11 p. il., Oklahoma State University Experiment Station, Stillwater.

**Control of Crabgrass and Other Weeds in Turf**, Bulletin 649, April 1962, 18 p. il., Connecticut Agricultural Experiment Station, New Haven.

**Better Lawns: Establishment; Maintenance; Renovation; Lawn Problems, and Grasses**, Home & Garden Bulletin No. 51, Office of Information, U.S. Department of Agriculture, Washington 25, D.C.

**Controlling Insects on Flowers**, Catalog No. A 1.75:237, 80 p. il., Superintendent of Documents, Government Printing Office, Washington 25, D.C., 40¢

**Fall Renovation of Greens and Fairways**, Product Use Bulletin No. 3 (Revised), August 1960, 48 p. il., West Point Products Co., West Point, Pa.

**Herbicide Recommendations for Common Lawn Weeds**, Home & Garden Bulletin No. 59, Office of Information, U.S. Department of Agriculture, Washington 25, D.C.

## Trimmings

**Lucky Pierre!** We had a chance to renew some old friendships at the recent Florida Spraymen's Convention, and were particularly happy to talk with Pierre and Winnie Nobs, who run Northwest Power Spraying in Miami. These two genial Floridians have three sons and a daughter who're a great help to their folks in running the business. So much help, in fact, that the family seems to have plenty of time for their favorite sport, sailing. Pierre's "Raven" class sailboat is a well-earned weekend retreat for the Nobs after five days of hard work! Any readers in New York, Chicago, or other spots in the frigid zone want to join us in a mass exodus to Florida?

\* \* \*

**On the bandwagon.** Two tarheel PCOs, who also spray lawns, traveled several hundred miles to join in this year's HSAF Convention. H. E. Frye of Frye Exterminating, Raleigh, N.C., and Ivey Coward, of Ivey Coward Co. in Greenville, have both added complete lawn spraying services to their thriving firms. Both North Carolinians said they welcomed a chance to come to the Miami Beach convention after they read about it in *Weeds and Turf*. No better way to keep abreast of new developments and have a ball at the same time!

\* \* \*

**Sadler Cinches Chinchies.** Another PCO who takes care of large turf areas is Charles Sadler who runs Bruce-Terminix in Houston, Tex. Among other large and small contracts, Charlie treats the local Coca-Cola bottling company lawn for fertilization as well as control of chinch bugs, other insects and diseases. This versatile Texan says chinch bugs are reported in increasing frequency in the Panhandle state!

\* \* \*

**Rootin' Teuton.** One safety expert who's always on the sprayman's side is Willson Product's W. J. Wiswesser, a frequent speaker at CA meetings. Bill says his name, in the original German centuries ago, meant "water spreader," or something of the sort, so he feels a special kinship with applicators who frequently find lawn irrigation among their contracts. Besides being a foremost advocate of safe practices, this Reading, Pa., industryman is now collecting all newspaper and magazine articles which resulted from certain recent antipesticide volumes. It's a winning project, because the knowledgeable are on the spraymen's side, Bill says happily!

\* \* \*

**Man of the Year.** Charlie Johnson, whose spraying business is in Miami, was honored during the recent HSAF convention as "Sprayman of the Year." At the annual banquet, Charlie beamed graciously while the conventioners applauded this pioneer in the Florida organization. We join in congratulating this Grand Man of Miami, and wish him many more years of active service!

\* \* \*

**Sprayman's Pal.** We just had a letter from Southern Weed Control Conference Publicity Chairman James M. Brown. Jim says this Jan. 16-18 meeting in Mobile, Ala. is packed with sessions aimed at contractors. Included are talks on horticulture, industrial sites, and aquatics. We'll have a complete advance on this conference next month.

## Canadian Town Reports Numerous Dew Worms Becoming a Problem

Reports from Lethbridge, in Alberta, Canada, indicate that dew worms have noticeably affected nearly half the lawns in the city. Although the damage is not excessive in many lawns, chemical treatment has been used in some areas.

Lead arsenate and chlordane have been effective in controlling the dew worms, reports state, although control measures usually have to be repeated each year as the worms invade the lawns from adjacent areas. Recommended dosage of lead arsenate is 1-2 lbs. per 200 sq. ft.

Before applying the chemicals, lawns should be allowed to dry out for about a week, Phil E. Blakeley, information officer at the Lethbridge Research Station, recommends. When applied, the chemicals should be watered well to reduce hazards to animals and humans.

## Gandy Markets New Disc-Mount Granular Pesticide Applicators

Applying granular chemicals and incorporating them into the soil can be combined in one field operation with the new Disc-Mount Applicator introduced by the Gandy Co., the firm announced recently. The Disc-Mount was developed to apply soil insecticides that must be disced-in immediately to make them effective or to preserve the potency of the chemical, and to apply weed control chemicals that require soil incorporation, the firm says.

Another development announced by the company is the "Lo-Hi" for broadcast or band application of granular chemicals. Gandy recommends this machine for broadcasting soil insecticide granules on the soil surface during late winter or early spring.

CAs interested in more information on the applicators may write Gandy Co., Owatonna, Minn., for introductory brochures.

## Study Nematode Control in Iowa

Nematodes, small, round soil-worms that attack underground plants, are being studied carefully at Iowa State University, Don C.

## Meeting Dates



**North Central Weed Control Conference,** Hotel Lowry, St. Paul, Minn., Dec. 3-5.

**Northeastern Weed Control Conference,** Hotel New Yorker, New York, N.Y., Jan. 9-11, 1963.

**Southern Weed Control Conference,** Admiral Semmes Hotel, Mobile, Ala., Jan. 16-18.

**California Weed Control Conference,** Santa Barbara, Jan. 22-24.

**Aquatic Weed Control Society Annual Meeting,** LaSalle Hotel, Chicago, Ill., Feb. 12-13.

Norton, plant pathologist, announced recently. Control measures are being directed mainly at developing long-range methods of control, he said.

In an article in the July issue of *Iowa Farm Science*, Norton points out that nematodes, once thought to be mainly a warm-climate problem, are now known to be active even in northern parts of Iowa.

More information about nematodes is in the complete *Iowa Farm Science* article. CAs can get copies of it, Reprint #FS-975, from Publication Distribution Room, Morrill Hall, Iowa State University, Ames, Iowa.

## Use Herbicidal Oil for Neat Lawn

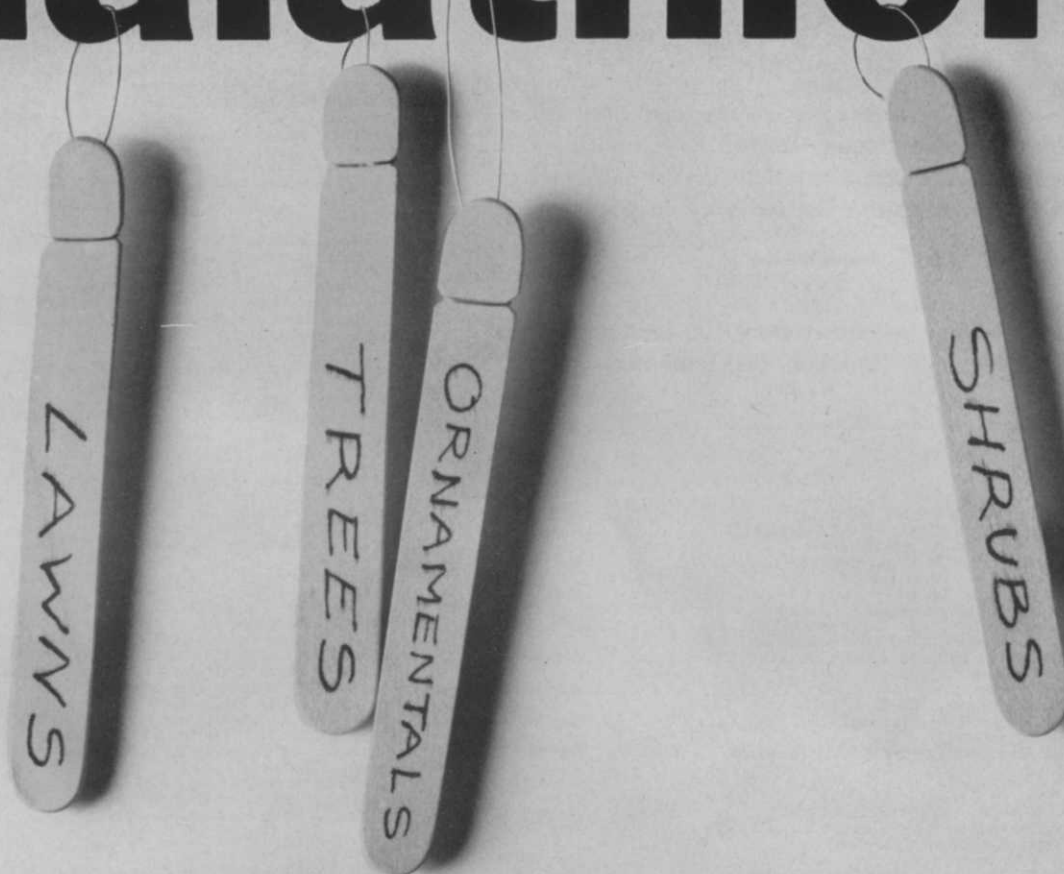
Spraying a band of herbicidal oil around plants and along the drive and walks will give a lawn a neat, trim appearance, Dr. Neil G. Odenwald, horticulturist at Louisiana State University Extension Service, recommends.

Used to kill weeds and grasses, herbicidal oil is a petroleum product that penetrates and kills young plant tissues, Dr. Odenwald points out. It is available under such names as Esso 38, Cities Service-No Weed Oil No. 1, and Varsol.

Three or four applications will usually keep the weeds and grasses down.

"Never spray on the leaves of desirable plants or on the trunks of trees or other large woody ornamentals," Dr. Odenwald cautions CAs, "since the oil will kill all tissue it contacts."

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50-lb bags. **Malathion 4 Niatox Dust**—4% Malathion, 5% DDT; 50-lb bags. ¶ For exceptional kill of resistant insects . . . for safety in use on a wide range of plants and crops . . . *plus* dependable customer service, rely on Malathion formulations by Niagara. Call your nearest Niagara dealer for complete information.

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NIAGARA CHEMICAL DIVISION  
MIDDLEPORT, N. Y.

# WEEDS and TURF

## Directory

### of 1962 ARTICLES

An alphabetical reference to subjects and titles of all major feature articles, feature columns, news stories, letters published in *Weeds and Turf* in 1962. A list of authors of this year's articles follows the Directory on page W-15.

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## Attack on Aquatic Weeds Begins At University of California

A new research team at the University of California is investigating submerged plant life, seeking more effective and less expensive control measures.

California's 50,000 miles of irrigation ditches, 10,000 miles of drainage canals, and thousands of farm ponds and lakes could be threatened by aquatic weeds such as the free-floating, brush-shaped "coon-tail" and the bottom-rooted pondweed, a university report noted.

The research team, one of four in the nation recently set up in state agricultural experiment stations with federal funds, is co-operating closely with the Bureau of Reclamation and the California Fish and Game Department so the programs will be mutually beneficial.

## Lead Arsenate Kills Webworm

Mimosa webworm infestations, found in trees such as pecan, walnut, persimmon, and locust, can be controlled with a spray of

4 lbs. lead arsenate to 100 gallons of water, Dr. M. E. Gardner of North Carolina State College reports. He notes the same spray will also control the bagworm.

Webworm infestation can be recognized by rolled and webbed leaves, a result of the webworm's feeding operations. Affected leaves then brown, and their food manufacturing functions are destroyed.

Where spraying is impractical, Gardner recommends pruning out the limbs anchoring the tent houses, or destroying the tents with a long pole. Another method is to tie a rag ball to the end of a pole and saturate it with kerosene oil. Ignite the oil and carefully burn out the webs with quick thrusts of the flame, being careful not to damage the plant tissue.

## Diquat Gives Capeweed Control

Diquat spray has been successful in eliminating Capeweed from some heavily infested paddocks in Busselton, Australia, reports M. Cullity, superintendent of dairying in the Department of Agriculture there.

## Pests on Flowers Guide Ready

A new pamphlet from the U.S. Department of Agriculture, "Controlling Insects on Flowers," gives descriptions, and in many cases pictures, of insects that attack flowers.

Control measures for each insect, as well as a chapter on using insecticides and mixing sprays, are also included.

The pamphlet, Agricultural Information Bulletin No. 237, is available from the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C., for 40 cents.

## City Bills Weed Control to RR

Failure to initiate a weed control program along a right-of-way, after repeated requests from city officials, brought a New Jersey railroad a bill for \$180.

City officials in Elizabeth, N.J., report that they authorized a public works crew to eliminate the growth when the Jersey Central Lines failed to comply with requests to do so, and billed the railroad for the work.