

sweet gum and elm, Fusicoccum canker of mountain ash, Melanconium canker and dieback of birch, and Botryosphaeria canker of redbud and tupelo were among unusual bark diseases discussed by Dr. Carter. Usually, he pointed out, these diseases are more severe on less vigorous trees and on those growing under unfavorable conditions.

Watering during dry periods, fertilizing to stimulate growth, surgery in some instances (when the affected areas can be pruned away), and complete removal of trees not responding to treatment for these bark diseases were recommended controls.

Stem diseases covered by the Illinois expert included witches-broom in pine, spruce dwarf, and fasciation. Causes of these unusual diseases are not known. Witches-broom in pine and fasciation disease of several species can usually be controlled by pruning away the affected branches. Spruce infected with dwarf disease should be removed and destroyed.

Too Many Trees

Dr. Paul Tilford, editor, International Shade Tree Conference, described the typical small-city street tree problem as one of "too many trees of the wrong kinds." This situation has come about because most small cities have not controlled street plantings. Abutting property owners have planted—and usually overplanted—whatever kinds of trees they wished. In many places these practices continue, with the result that each spring brings new problems that will become serious 25 years later.

To prevent such problems, cities must take over control of street trees by ordinance, Dr. Tilford stated. Cities must either plant the trees or require abutting property owners to obtain permission before planting approved trees at properly spaced intervals. Without control, new problems will continue to be created. Dr. Tilford cited the street tree ordinance of Wooster, Ohio, and the Wooster Shade Tree Commission as one small city's effort to do something about its shade tree problems.

Much more than a mist.



... a powerful, hit-the-mark, jet spray is what is produced by this Solo Mistblower... Shoots the atomized drops in just the right concentration to the target. Light enough to carry into and over rugged, choked terrain, the Solo combines performance with portability. Power to reach tallest fruit tree tops. Versatility for all types of jobs.

Virtually maintenance-free, the Solo is ideally suited to a wide range of liquid application jobs. This is the mistblower that has blazed the trail for portable spray application throughout the world... because this mistblower produces much more than just a mist.

Write for complete line of free, full-color brochures.

solo
performs

SOLO INDUSTRIES, INC.
5100 Chestnut Avenue
Newport News, Va. 23605

Leading manufacturers of engines, chain saws, hand sprayers, mist blowers and other outdoor equipment for home and industry.

Something for All Turfmen At Midwest Meet, Mar. 6-8

Golf course superintendents, sod growers, park and roadside men, suppliers, nurserymen, teachers and researchers, and others—both beginners and “old hands”—will find discussions directed toward them when the Midwest Regional Turf Conference convenes Mar. 6 at Purdue University, Lafayette, Ind., for its annual three-day confab.

Following the Monday afternoon opening on a sales note, speakers in eight different areas of turf work will offer their evaluations of “Trends for Turf Managers.” Wrapping up the opening session will be talks on cost cutting and soil warming. Midwest Regional Turf Foundation will hold its annual banquet on Monday evening.

Tuesday morning, participants will reconvene in special sessions for golf course interests, general turf interests, and sod growers. Golf men will look at “Personnel on Wheels,” “Automatic Irrigation Saving Time,” and “Upgrading from *Poa annua* and Crabgrass”, then will hear personal experiences with different grass varieties from experts in the field. General turfmen will consider seed supplies, St. Louis Stadium, and “Performance of New and Old Turfgrass Varieties,” among other topics. “Developing a New Sod Farm” and “Sod Farm Irrigation” are two subjects on tap for sodmen. Set for Tuesday afternoon are discussions of various ways to regulate irrigation water.

On Wednesday, Mar. 8, basic information on grass varieties, soils, grass development, sod, and herbicides will be offered for fledgling turfmen. Oldtimers will hear talks on ornamental horticulture training and artificial turf, as well as new ideas

on wilt reduction, herbicides, and additives. Readers desiring more information on this conference, which has a \$10 registration fee, should contact Dr. W. H. Daniel, Department of Agronomy, Purdue University, Lafayette, Ind. 47907.



James Burdett (standing, right) 1966 president of the Illinois Turfgrass Foundation, looks on as three featured speakers discuss the program for December's 7th University of Illinois Turfgrass Conference. Seated is **Dr. M. C. Shurtleff**, University of Illinois plant pathologist, who urged participants to use caution in tank mixing of turf chemicals because of the lack of basic knowledge on compatibilities, and offered some combinations not recommended because of known incompatibilities. Standing (left) is **Dr. Roscoe Randell**, U. of I. entomologist, who related sod webworm damage in bluegrass turf to management practices, pointing out that good management (irrigation and monthly fertilization) during the hot, dry summer months of webworm buildup can help grass to “outgrow” a good bit of the damage. Standing (center) is **Dr. Paul Rieke**, Michigan State University staffer, who investigated techniques for growing sod on Michigan's muck soils, where its production has become the fastest growing segment of the state's agricultural industry. The Conference drew specialists from across the country with its exchange of up-to-date ideas for maintaining quality turf. Proceedings are published by the University of Illinois, which sponsors the event in cooperation with the Illinois Turfgrass Foundation.

KWH Mistblowers & Dusters

Knapsack Models 2 and 4 HP
Skid & trailer models: 6-36 Hp

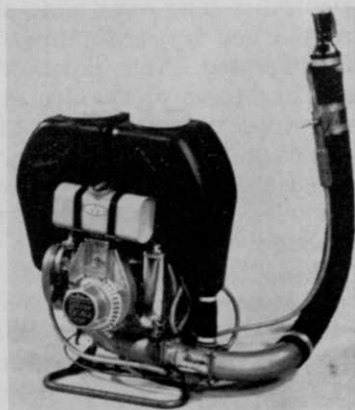
DIADEM FERTILIZER SPREADER

Precision Broadcast 10-2500 lbs.
per acre—UP to 50 ft. swath

Best Feeding with Conical Steel
Hopper of 700 lbs. capacity

The VANDERMOLEN CO.

378 Mountain Ave. • N. Caldwell, N.J. 07006

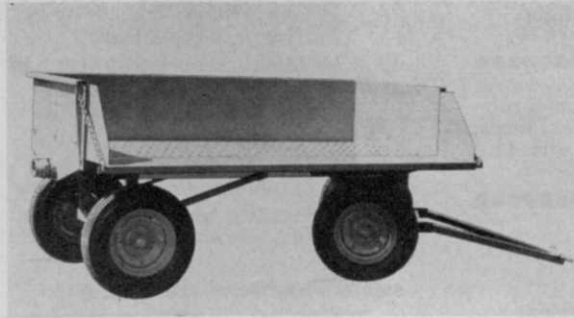


Virginia Hosts Dixie Arborists, Mar. 12-15

Arborists from throughout the South will gather at the John Marshall Hotel, Richmond, Va., for the '67 Southern Shade Tree Conference, Mar. 12 to 15. Equipment exhibits and educational sessions will get underway Monday morning, with the role of trees in recreation, problems in highway beautification, new insecticide developments, and safety in tree work among opening topics.

Conference participants will tour Richmond's Park System and see arborists' equipment demonstrated on Tuesday. Wednesday's activities will return to the host hotel, with discussions to include tree planting programs, economics of underground utility lines, and a forum on utility-municipality cooperation.

For more details, contact Gordon Scott, secretary, Southern Chapter, ISTC. Address: Director, Tennessee Botanical Gardens, Cheekwood, Nashville, Tenn.



Lindig Manufacturing Co.'s Soil Treating and Planting Cart has double floor. Aerated steam enters through holes in upper floor, penetrates soil mix; condensate drains through lower floor. Hinged side panel of 4-ft. by 8-ft. cart lowers to make workbench.

Lindig Adds Soil Treating Equipment

Most harmful weed seeds, insects, and fungi are destroyed in soil mixes by heating at 145° to 165° for 30 minutes, according to Lindig Manufacturing Co. With its new steam aerator, controlled aerated steam is applied to soil materials in a specially designed cart.

Using normal steam line pressure, the entire process takes about 45 minutes, which includes heating soil to required level. Soil treating and planting cart is constructed of rust-resistant copper-bearing steel, and can be used with Lindig's shredder-

screener for soil preparation before treatment. After treating soil, steam line can be shut off to allow the aerator to blow cool air into soil, which is then ready for potting, planting, or topdressing.

Good control of harmful soil elements, survival of beneficial bacteria, improved plant growth, savings of fuel and time, and the elimination of heat damage connected with raw steam methods have been reported by growers using the equipment, Lindig says. For illustrated brochure and additional specifications, write Lindig Manufacturing Co., Inc., 1875 West County Road "C", St. Paul, Minn. 55113.



Reprinted to Meet Demand

Weeds Trees and Turf's widely hailed series of articles on aquatic weed control covers species identification, chemicals for control, methods and equipment for application. Now available in a single 16-page illustrated reprint for handy reference!

PRICES: 1-10, \$1.00 each; 11-25, 90¢ each; 26-50, 80¢ each; 51-250, 75¢ each; 251-500, 60¢ each; 501 and over, 50¢ each; postage prepaid in the United States only.

WEEDS TREES AND TURF

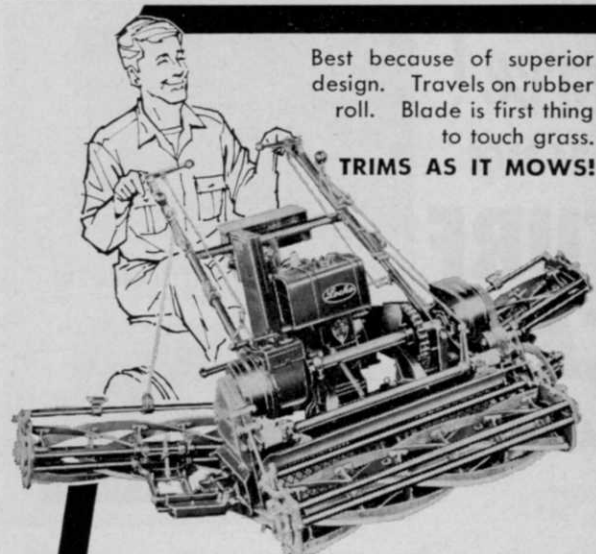
1900 Euclid Avenue
Cleveland, Ohio 44115

Send me copies of your aquatic reprint at \$.....each. My check for is enclosed.

Name

Address

City State Zip



Best because of superior design. Travels on rubber roll. Blade is first thing to touch grass.

TRIMS AS IT MOWS!

Where grass cutting's serious business:

There's nothing like a LOCKE REEL!

25" and 30" Single Units • 70" and 75" Triplexes • Electric Starters

**WRITE FOR FREE BOOKLET
COMPLETE LINE OF REEL & ROTARIES**



Manufacturing Companies, Inc.

1037-L Connecticut Avenue Bridgeport, Connecticut

Insect Report

WTT's compilation of insect problems occurring in turfgrasses, trees, and ornamentals throughout the country.

Turf Insects

A BILLBUG

(*Sphenophorus phoeniciensis*)

Arizona: Medium infestation reported in many lawns in Salt River Valley. Larvae are feeding on roots.

A FLEAHOPPER

(*Spanogonicus albofasciatus*)

California: Nymphs and adults infesting dichondra lawns at Orange, Orange County.

Insects of Ornamentals

APHIDS

New Mexico: *Cinara* spp. heavy on various junipers in Albuquerque, Bernalillo County. **Oklahoma:** *C. tuja-filina* appearing in evergreen hedges at Stillwater, Payne County.

ARMORED SCALES

Alabama: *Phenacaspis pinifoliae* reported on isolated loblolly and slash pine in ornamental plantings in Lee County. **California:** *Aonidiella citrina* heavy on cymbidium plants at La Mesa, San Diego County.

A WHITE FLY

(*Tetraleurodes acaciae*)

California: Medium on coral trees in San Diego County.

Tree Insects

APHIDS

(*Eulachnus* spp.)

Alabama: Feeding and increasing on pine needles in central part of the State.

SMALLER EUROPEAN ELM BARK BEETLE

(*Scolytus multistriatus*)

California: Adults heavy on elms in rural area near Stockton, San Joaquin County for a new county record. **Nebraska:** Heavy in dead elms at Lincoln, Lancaster County.

RED TURPENTINE BEETLE

(*Dendroctonus valens*)

California: Locally heavy in pines at Los Gatos, Santa Clara County.

A GALL MIDGE

(*Contarinia* sp.)

California: Defoliating Douglas fir trees in 6,000-acre stand in Bluff Creek area and 15,000 acres in Red Cap Creek area. Most severely affected are shaded and depressed trees.

A FALSE SPIDER MITE

(*Brevipalpus pini*)

California: Heavy populations reported infesting numerous Monterey pines on Vandenburg Air Force Base, Santa Barbara County.

Literature you'll want

Here are the latest government, university, and industrial publications of interest to the readers of *Weeds Trees and Turf*. 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.

How Trees Grow. Catalog No. A 13.20/3:T 71/2/966, 1966, 21 x 24 in., 20¢, Supt. of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

Suggested Guide for the Use of Insecticides to Control Insects Affecting Crops, Livestock, Households, Stored Products, and Forest Products. Agricultural Handbook No. 313, \$1.25, Supt. of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

Turfgrass Varieties for Colorado. Pam. 6-S, Colorado State University Extension Service, Ft. Collins, Colo.

New Chemical for Control of Bluebell, Black Medic and Yarrow in Bluegrass Turf. Pam. 7-S, Colorado State University Extension Service, Ft. Collins, Colo.

A Survey of Extent and Cost of Weed Control and Specific Weed Problems. Publication No. ARS-34-23-1, 78 pp. 1965, Office of Information, U. S. Dept. of Agriculture, Washington, D. C. 20250.

Free!

24 PAGE

TURF CARE HANDBOOK



RYAN "GUIDE TO GREENER GRASS" tells in simple terms what you should do to establish and maintain healthy, luxuriant turf. A valuable source of expert advice for *anyone* who has *anything* to do with turf.

Also describes the complete line of golf course proved, golf course approved Ryan Turf Equipment. Has 24 pages, 87 illustrations! Send today for your free, personal copy!



Manufacturers of WORLD FAMOUS turf equipment

EQUIPMENT COMPANY

2055 White Bear Avenue, St. Paul, Minn. 55109

WORLDWIDE SALES THROUGH LEADING TURF EQUIPMENT DISTRIBUTORS

Keep Your Weeds Trees and Turf magazines

In specially designed

Permanent Binders

Helps You Keep 24 Full Issues of *Weeds Trees and Turf* In One Neat Package

- Keeps back numbers handy for quick reference
- Protects issues from needless damage. Holds 24 issues.
- Gives your bookshelf a neat appearance

Magazines can be inserted as they are received

Still Just \$3.25

Please send check or money order to

WEEDS TREES AND TURF

1900 Euclid Ave.

Cleveland, Ohio 44115

Classifieds

When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, 1900 Euclid Avenue, Cleveland, Ohio 44115.

Rates: "Position Wanted" 5c per word, minimum \$2.00. All other classifications, 10c per word, minimum \$2.00. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment.

HELP WANTED

POSITIONS AVAILABLE as working foremen for growing lawn service firm in New Jersey. Background in turf or supervisory experience necessary. Excellent salary and benefits with opportunity for advancement to a sales and management position. Send résumé to Tech-Turf, Inc., 1859-61 Springfield Ave., Maplewood, New Jersey 07040.

AGRONOMIST OR BOTANIST. If you have B.S. or M.S. in either of above fields, then we would like to talk to you about our industrial weed control service. Send complete resume to Western Soil Management Corp., 3909 Baltimore Ave., Philadelphia, Pa.

WANTED TO BUY

HIGH-PRESSURE sprayers, skid or truck mounted, prefer 500-1500 gal. tank capacity. Paul Kucik, 17207 Archdale, Detroit, Mich. KE 3-8589.

FOR SALE

JOHN BEAN 100 Mist Sprayer mounted on 1958 I.H.C. A.C. 160 with new 12' body and saddle tanks for insecticides. Also John Bean Hyd. Sprayer 25-gal. pump and 200-gal. tank with 2-cyl. Wis. motor and hose and gun all mounted on same truck. John Bean Hyd. Sprayer 25-gal. pump and 300-gal. tank with 2-cyl. Wis. motor hose and spray gun. Equipment in A-One condition, always garaged. Gosch's Nursery, 2001 S. Arlington Rd., Arlington Heights, Ill. 60005, PH 437-3603.

TREE BUSINESS and equipment for sale; high-class clients in desirable area of Westchester County with opportunity to expand; enjoys high reputation of 28 years of repeat clients. Annual gross, approximately \$100,000.00 with a profitable net personal income above \$20,000.00. Inventory of 5 trucks, 2 high-powered sprayers, numerous chain saws, etc. Asking \$40,000.00—\$50,000.00, terms. Owner would stay on for short duration and sell on commission basis if desired. Modern office and warehouse also for sale or option to lease. Write, phone, or visit office of Wade Tree Experts, 107 N. Greeley Ave., Chappaqua, N.Y.

Western Weedmen To Meet

Regulations, extension, and research reports are on tap for the first two days of the '67 Western Weed Control Conference, set for Mar. 15-17, at the Westward Ho Hotel, Phoenix, Ariz. Industry developments will be covered on Mar. 17. For details, contact conference secretary, K. C. Hamilton, Department of Agronomy, University of Arizona, Tucson, Ariz. 85721.

Dow Offers Fumigation Book

"Plunder Underground," a 48-page booklet on nematodes and their control, is now being offered by The Dow Chemical Co. Nematode damage, basic fumigation practices, and Dow's soil fumigants are reviewed. Illustrations of fumigation equipment and its application, and several charts are included. Readers can obtain a copy from Merchandising Section, Agricultural and Industrial Bioproducts Sales, Bioproducts Center, The Dow Chemical Co., Midland, Mich.

Advertisers

INDEX TO ADVERTISEMENTS

| | |
|--|-------------------|
| John Bean Div., FMC ...2nd Cover | |
| The Borden Chemical Co., Smith-Douglass Div. | 45 |
| Brillion Iron Works, Inc. | 33 |
| Cal-Turf Nursery | 31 |
| Chemagro Corp. | 7 |
| Chevron Chemical Co., Ortho Div. | 29 |
| Diamond Alkali Co. | 18 & 19 |
| E. I. duPont de Nemours & Co., Inc. | 3 & 35 |
| Ezee Flow Div. | 5 |
| Fitchburg Engineering Corp. | 28 |
| Friend Manufacturing Corp. | 6 |
| Geigy Agricultural Chemicals ... | 4 |
| Hardie Sprayers | 21 |
| Hercules Incorporated..... | 15 & 3rd Cover |
| International Harvester Co. | 24 & 25 |
| Jacklin Seed Co., Inc. | 22 |
| Jacobsen Manufacturing Co. | 11 |
| Kemp Manufacturing Co. | 14 |
| Locke Manufacturing Companies, Inc. | 43 |
| The F. E. Myers & Bro. Co. | 39 |
| B. G. Pratt Co. | 34 |
| Ryan Equipment Co. | 44 |
| Shell Chemical Co. | 23 |
| Solo Industries, Inc. | 41 |
| The Vandermolen Co. | 42 |
| Velsicol Chemical Corp. | 4th Cover |
| Whitney Seed Div., W. R. Grace & Co. | 16 |



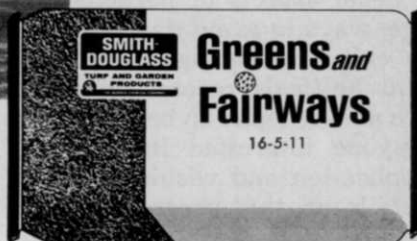
PROFESSIONALLY
YOURS . . .

New Greens & Fairways

16-5-11
FOR TURF

New Greens & Fairways 16-5-11 Turf Food delivers the deep green color, the even, healthy turf desired by golf course superintendents. Formulated especially for institutional use.

The extra nitrogen puts green-up energy into tired turf. Phosphorus and potash in plentiful amounts produce thick, uniform turf with a healthy root system. Free-flowing for easy spreading. Easy-to-use 50-lb. bags.



Save on spreading costs with the NUTRO spreader. Covers 10,000 square feet in 10 minutes.

For prices and name of nearest NUTRO distributor, write Smith-Douglass Division, The Borden Chemical Co., 5100 Virginia Beach Blvd., Box 419, Norfolk, Va. 23501



Classified Ads in

Weeds Trees and Turf Get Results

USE THEM!



James A. Nelson (left), editor and publisher of Trade Magazines' WEEDS TREES AND TURF, and **James Milholland, Jr. (right)**, president of Home State Farm Publications, confer after announcing acquisition of TM by Home State. WTT will operate under the Trade Magazines Division of the parent organization, with Nelson continuing as editor and publisher, and also serving as a vice president of Home State Farm Publications, Inc.

Applicators Meet in Nebr.

A program beamed primarily toward commercial and municipal applicators has been planned for the 3rd annual Nebraska conference on "Selection and Handling of Pesticides," set for April 3 and 4, at the Nebraska Center for Continuing Education, University of Nebraska, East Campus, Lincoln.

Legal aspects of pesticide usage, ways to avoid damage, how to calculate damages, and current pesticide recommendations are among topics to be discussed. Anyone interested in pesticide application and wishing further details on this program should contact J. D. Furrer, Extension Specialist, Pesticide Chemicals, University of Nebraska, East Campus, Lincoln, Nebr. 68503.

Sodman Becomes Manufacturer

In last month's WTT, Daymon Manufacturing Corp., Gregory, Mich., introduced its new line of specialized equipment for sod producers. Bob Daymon, president of Daymon Manufacturing, says the decision to enter equipment production was based on sod growers' labor problems and cost-price squeeze.

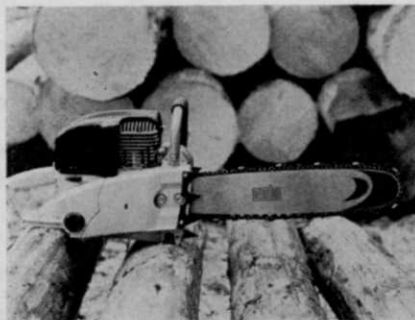
Daymon points out that nearly 30 years of sod experience contributed to the new product line, which is topped off by the Daymon Sod Roller, said to be able to roll up to 1,500 yds. per hour under average conditions. Daymon established its first commercial sod farm in 1938, now owns and operates the mechanization-minded 1,300-acre Emerald Valley Turf Nursery near Fowlerville, Mich.

Solo 635 Chain Saw Has Increased Cutting Power

Increased cutting power, minimum vibration, and easy starting are said to be features of the new model 635 chain saw from Solo Industries. Design extras include die-cast magnesium casing and hood, the latter readily removable for access to spark plugs, carburetor, and air filter.

Quality carburized steel is used in the crankshaft, which will withstand excessive rotations, Solo says. Aluminum cylinder has a fused-in steel sleeve that can be reground as necessary. Weighing 22 lbs. without bar, 635 has automatic lubrication coupled with a manual hand pump system.

Solo also manufactures the lightweight Combi gasoline engine, now offering 4½ hp. Combi is a detachable unit that can be used to power several equipment items interchangeably, including chain saw, lawnmower, garden tiller, water pump, and outboard motor. Further data on these products is available from Solo Industries, Inc., 5100 Chestnut Ave., P. O. Box 1728, Newport News, Va. 23606.



Solo 635 chain saw weighs 22 lbs. without bar, which is available in 17, 21, and 25-in. sizes. Hood and casing are magnesium.

Trimmings

Of mice and miscellany. We were sitting in the front row of the Commodore Hotel's East Ballroom, in New York City, during the opening session of this year's Northeastern Weed Control Conference. The speaker was Rutgers entomologist, Dr. B. R. Wilson. The room wasn't crowded near the front, it being a human characteristic to avoid front rows wherever people gather, so we may have trouble gaining corroboration for this mouse tale. But there it was—peeping from under the speakers' platform at the august assembly of weed controllers: one small wide-eyed gray mouse. Apparently, the mouse decided it was all right to venture out on the theory that a roomful of weed experts wasn't interested in a single rodent. Another look around. Pause. Discovery of entomologists and pest controllers in the audience. And a very hasty retreat.

Exit mouse, and there are more than a few vegetation maintenance men around who wish all rodents would beat such a hasty retreat. It seems to be the season for rodent damage to trees and shrubs. As Richard Crumm, Hoosier entomologist, points out, "rodents cause more damage when snow covers their food supply." Thiram fungicide, brushed or sprayed on plants, "can often turn the rodents' attention to other less important food," he suggests.

Second thoughts on above notes: Mention of the solitary gray mouse is not intended as a reflection on the Commodore Hotel. Indeed, NEWCC's host hotel was most cooperative to visiting weedmen, and Northeast controllers decided before the meeting was out to hold their '68 conference there, too. We hope the mouse will be back next year. But probably the shock was too much for it.

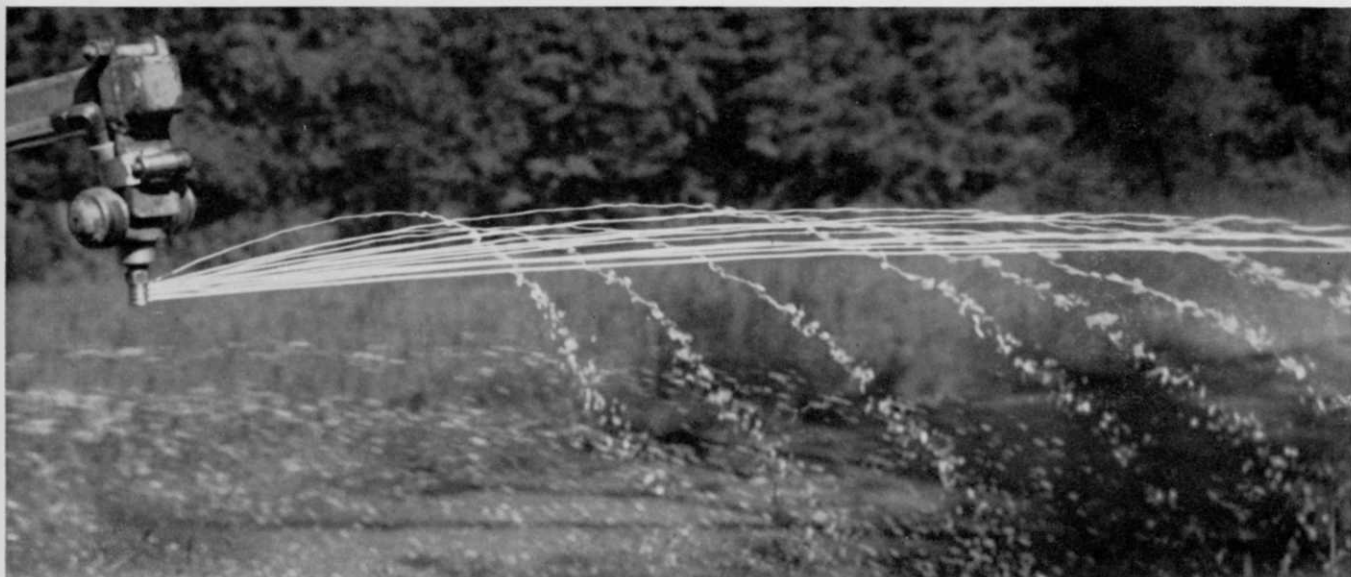
* * *

Congratulations to the new Mid-Continent Weed Control Association, to Al Price, Ralph Reid, John Lehr, Dick Evans, Tom Graham, and company. The need for applicators to band together for the protection of their legitimate interests has never been more apparent.

* * *

Travelling Tifdwarf. Received an invitation to attend the opening of the new Kauai Surf Golf and Country Club, in Hawaii of course. Deeply regret that our jampacked travel schedule prevents us from attending any but winter meetings held in northern latitudes and summer meetings in southern latitudes. We don't know why it works out that way, but it always seems to. If there's a winter turf conference in the Aleutian Islands next year, it will probably show up on our schedule. Remarkable thing about the Kauai course is that it's ready for play, when the greens were sprigged with Tifdwarf bermudagrass just last October. First time for this popular new grass variety in Hawaii. It took Cal-Turf's new Hawaii operation more than a year to ready the grass for the Kauai greens. Now everything is set for surfside putters. Happy putting out there...

**if you do
roadside
spraying...
take a look at**



VISKO-RHAP* **herbicides**

To Control Drift of Herbicide Spray . . .

Visko-Rhap* herbicides form a thick invert spray when mixed in a special chamber in the Rhap-Trol* spray system. Leaving the nozzle in spaghetti-like streams, the spray resists drift, and breaks up into heavy droplets before hitting the weeds and brush in a uniform pattern.

To Increase Spray Acreage Per Season . . .

With drift-resistant droplets, herbicide spraying is made possible many hours when weather conditions would not permit spraying with the fine droplets of conventional formulations.

To Control Weeds and Brush . . .

Visko-Rhap herbicides are available containing 2,4-D, 2,4,5-T, and silvex. They are giving effective drift control and weed and brush control. The oil-coated invert droplets stick to the leaves even in showery weather and resist washoff.

To Get More Information . . .

Contact your Hercules representative; you may want him to arrange a showing of "The Particle of Difference," a new motion picture on this latest spray method for phenoxy herbicides. Or write: Agricultural Chemicals, Synthetics Dept., Hercules Incorporated, Wilmington, Delaware 19899.



*HERCULES TRADEMARK

SP67-2