



Now Available!

Fourth Edition of

HANDBOOK OF PEST CONTROL

by

Arnold Mallis

All New, the HANDBOOK OF PEST CONTROL is the latest book published on household and industrial pests and their control. Written in easy-to-understand language by a recognized authority with years of scientific and practical field experience, it is technical, yet easily followed by those with a limited knowledge of science and the chemistry of pesticides. Deals fully with rodents, insects, decay, fungi, habits, identification, and latest control methods. A complete, up-to-the-minute book, bound in sturdy maroon cloth, gold stamped.

**1148 Pages
250 Illustrations**

List of Contents Includes:

Rats and Mice, Silverfish
Springtails, Cockroaches
Crickets, Earwigs
Termites, Decay Fungi
Woodboring, Bookboring Beetles
Book Lice, Bedbugs
Clothes Moths
Hide and Carpet Beetles
Ants, Bees and Wasps
Stored Products Pests, Lice
Fleas, Flies, Gnats, Mosquitoes
Spiders, Mites, Ticks
Miscellaneous Household Pests
Pesticides
Control Methods

\$14.25 in U.S.A.

\$14.75 Canada, Mexico

\$15.25 elsewhere

(Check must accompany order)

**TRADE MAGAZINES, INC.
1900 Euclid Avenue
Cleveland, Ohio 44115**

Date

Enclosed is our check for \$..... for a postpaid copy of **"Handbook of Pest Control."**

PLEASE PRINT

Name

Company

Address

City State Zip Code

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

BRANCH MANAGERS. Connecticut through Virginia area. To head local operations for progressive national corporation specializing in professional management of turf, shrubs, ornamentals. Education, experience, and/or interest in turf, horticulture, or related fields desirable. Expert sales and technical training; close guidance by Regional Directors. Good salary plus substantial commissions. Willing to relocate if necessary. Send resume to Charles W. Ridinger, Turf Kings, Inc., 46 John St., Yonkers, N.Y. 10720.

AGRONOMIST. Graduation from a recognized college with specialization in grasses, fertilizers and chemicals used in turf management. Salary \$5250-\$6600. Appointment may be made above the minimum depending on qualifications. Send complete resume to Personnel Department, P. O. Box 2842, St. Petersburg, Florida.

FOR SALE

TREE SPRAYING BUSINESS—Western Suffolk County, L. I., N. Y. 1960 International truck, excellent; 500-gallon tank; 60 gpm piston Hardie pump; 500 ft. of $\frac{1}{2}$ " and $\frac{3}{4}$ " high-pressure hose. Five hundred spraying customer contracts. Write Box 5, Weeds Trees and Turf magazine.

MISCELLANEOUS

TO EMPLOYERS who advertise for men! The letters you receive in answer to your advertisements in WEEDS TREES and TURF are submitted by each of the applicants with the hope of securing the position offered. When there are many applicants it frequently happens that the only letters acknowledged are those of promising candidates. (Others do not receive the slightest indication that their letters have even been received, much less given any consideration.) These men often become discouraged, will not respond to future advertisements and sometimes even question if they are bona fide. We can guarantee that every advertisement printed in WEEDS TREES and TURF is duly authorized. Now won't you help keep our readers interested in this advertising by acknowledging every application received, even if you only return the letters of unsuccessful applicants to them marked, say, "Position filled, thank you"? If you don't care to reveal your identity mail them in plain envelopes. We suggest this in a spirit of helpful cooperation between employers and the men replying to Help Wanted advertisements. Put yourself in the place of the other fellow.

NACA Committee to Develop Good Practice Principles

Formation of a special committee charged with the responsibility of developing principles of good practice for pesticide manufacturing and the disposal of empty containers and plant wastes, was announced recently by the National Agricultural Chemicals Association.

Named the Grady Committee, its objectives include preparation of a manual on manufacturing procedures designed to reduce the possibility of cross-contamination of pesticides during blending and mixing. The committee will also prepare recommendations for proper disposal of plant wastes from pesticide manufacture and formulation, and for disposal of empty containers such as bags, and fiber and steel drums, in a manner to afford maximum protection of the environment.

Following completion of its studies the committee plans to hold a series of regional workshops at which plant managers, and others responsible for manufacturing operations, would discuss good housekeeping practices and procedures developed by the committee.

Members of the committee represent many specialized fields in the chemical industry including authorities on management, legal affairs, quality control, waste disposal, production, formulation, and environmental health.

Howard J. Grady of California Chemical Co. has been named chairman of the committee. Other members include Richard Heinz, Niagara Chemical Div., FMC Corp.; James D. Hopkins, Hopkins Agricultural Chemical Co.; James A. Kelly, The Dow Chemical Co.; Richard Owen, Stauffer Chemical Co.; L. W. Roznoy, Olin Mathieson Chemical Corp.; George T. Scriba, Union Carbide Chemicals Co., and George Simches, Planters Chemical Corp. Other members of the committee will be appointed in the near future.

The first meeting of the Grady Committee was held Dec. 1, in Washington, D. C.

Advertisers

The Ansul Co.	Dec.
Baird & McGuire, Inc.	Dec.
John Bean Div., FMC	Dec.
The R. H. Bogle Co.	Dec.
Bowie Machine Works, Inc.	Dec.
Brayton Chemicals, Inc. ..	Dec.
Buffalo Turbine Agricultural Equipment Co.	Dec.
Diamond Alkali Co.	4
E. I. duPont de Nemours and Co., Inc.	25
Elanco Products Co.	2nd Cover, 3
Hardie Sprayers	5
Hercules Powder Co.	3rd Cover
Miller Products Co.	Dec.
The F. E. Myers & Bro. Co.	Dec.
Niagara Chemical Div., FMC	4th Cover
B. G. Pratt Co.	Dec.
Residex Corp.	Dec.
Rowco Manufacturing Co., Inc.	Dec.
Seymour Smith & Son, Inc. ..	28
Solo Industries, Inc.	Dec.
Sudbury Laboratories	15
Tennessee Corp.	Dec.
Triangle Chemical Co. ...	Dec.
Union Carbide Corp., Chemicals Div.	Dec.
U. S. Rubber, Chemical Div.	7
Vandermolen Export Co. ...	Dec.
Velsicol Chemical Corp.	6
Vineland Chemical Co.	21

Watch Storm-Damaged Trees

Severe storms that swept across the nation last November and early December caused a lot of damage to shade trees, the National Arborist Association observes.

NAA's press service reminds groundskeepers and others to remove broken branches that resulted from these storms, since they not only impair tree health and appearance, but may fall causing bodily injury to a passerby.

Branches with a split crotch should be drawn together with block-and-tackle until the split closes.



Using portable power chain saws, these men clean up the cut limbs and brush from a city street tree trimming operation. A short time before these saws were used high in the air for pruning and topping.

McCulloch Introduces 1965 Line of Power Chain Saws

A new idle control device claimed to smooth out engine idle, reduce fuel puddling, and eliminate manual depressing of the throttle when starting the saw, is one of many improvements built into the 1965 line of lightweight, power chain saws manufactured by McCulloch Corp., Los Angeles.

According to Bill Johnson, general sales manager for McCulloch, the new chain saws concentrate on further internal improvements for more power, economy, and dependability. McCulloch's basic lightweight design and streamlined styling remain the same.

Saws directed primarily to the requirements of street and park departments, utility companies, tree surgeons, etc., are the direct-drive models 450, 740 and 790, and the gear-drive models 35A, 640, and 890. Both the 790 and 890 are said to have substantial power increases over last year, making them ideal for stump removal and tree trimming.

Other 1965 improvements pointed out by Johnson include new fully lined clutches for greater clutch efficiency, and a negative polarity flywheel which increases spark plug life and expedites starting.

Retained with the new line of

saws are McCulloch's automatic/manual chain oiling system, the "power-boost" carburetor with built-in primer, and rubber shock mounting system.

Another heavy-duty unit is the Model 940, the power head of which can be adapted to 6-, 9- and 12-inch earth augers. A greater investment return can be realized with this machine wherever holes need to be dug for sign erection, fences, telephone poles, etc.

Smaller McCulloch saws are the direct-drive models 300, 250, and MAC-15. Suited to many municipal and industrial wood-cutting applications, these smaller units are said to deliver maximum power for their compact size and have many of the features of the larger saws.

Johnson emphasizes that McCulloch's line of chain saws is designed, engineered and manufactured under strict standards of quality control. Standard with each saw are drop-forged steel connecting rods, insulated fuel tanks, cast-iron lined reborable cylinders, weather-proof ignition, ball and needle bearings throughout, chromed rings, enclosed carburetors and corrosion-resistant, spark-arrestor mufflers.

Complete information is available from McCulloch Corp., 6101 W. Century Blvd., Los Angeles 45, Calif.

Suppliers Personnel Changes

Amchem Products, Inc., Ambler, Pa., has acquired the services of M. Wyatt Wilkinson and Lester J. Tesch, according to a recent announcement by M. B. Turner, vice president, sales manager, Agricultural Chemicals Division. Wilkinson is now Amchem representative for southeastern Missouri, western Kentucky and western Tennessee. Tesch now represents Amchem in South Dakota and southern Minnesota.

California Chemical Co., Ortho Div., recently appointed R. Harper Brame branch sales manager of garden and home products in Atlanta, Ga. According to R. M. Staples, southern regional sales manager, Brame's new position entails marketing coverage of Virginia, North and South Carolina, Georgia, and parts of West Virginia, Tennessee, and Alabama. In other field moves, John R. Bigger was named technical sales representative—special products for Ortho Division, in Des Moines, Ia. Alfred B. Grey is now sales promotion specialist for Ortho, according to L. F. Czufin, manager, advertising and public relations. Grey will be responsible for creation of promotional material used in the company's marketing programs.

Hercules Powder Co. advises that David D. Speltz is now a technical representative in the North Central states for its agricultural chemicals division. Speltz will work from the company's Chicago office and will cover Wisconsin, Minnesota, and North and South Dakota.

Heyden Newport Chemical Corp. recently designated John Pickup, sales manager, agricultural chemicals. Pickup will direct sales of Heyden's agricultural chemicals throughout the United States.

Snow Aeronautical Corp., Olney, Texas, has acquired the services of Henry Gardner, long active member, and former president, of the Texas Aerial Applicator's Assn. Gardner's new title as sales manager makes him responsible for domestic sales of the Snow S-2C ag-plane.

Bowie Booklet Tells of New Grass Growing Technique

In a new booklet titled, "Facts About Hydro-Mulching," Bowie Machine Works, Inc., describes its method of establishing grass along highways, in parks and other areas, faster, better, and more economically.

The fully illustrated booklet, the first published by the company, describes application of seed, fertilizer, and mulch in one operation with the use of its equipment.

A free copy of the booklet can be obtained from the company, by writing to P. O. Box 630, Bowie, Texas.

Oregon Weed Conference

(from page 28)

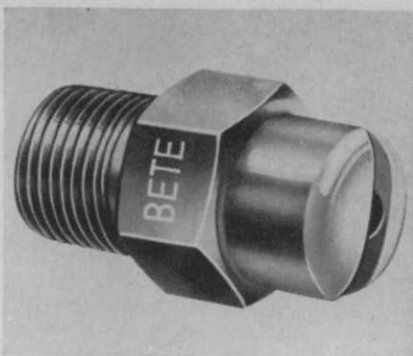
concentrate for extra strength against perennials in mixed vegetation is called Maintain by U. S. Borax. This sprayable compound calls upon the action of Tritac, a low volatile 2,4-D ester, and bromacil. The representatives listed quackgrass, wild carrot, and Canada thistle as three of several perennial weeds Maintain is claimed to control.

Ronald Collins, Hillsboro, Oregon, detailed Velsicol Chemical Corporation's Banvel-D (dicamba).

"Research has shown that combinations (dicamba plus 2,4-D) can increase the spectrum of weed control," Collins related. "Combinations often give better control of specific weeds than when either material is used alone." Collins presented tests results to show Conference delegates this was so.

Dicamba is presently registered to control such weeds as Canada thistle, field bindweed, and Russian knapweed, among others.

"For commercial turf use, Velsicol is marketing Banvel-D 4S," Collins continued. He disclosed that soon there will be a formulation of dicamba plus 2,4-D amine designed to increase the control spectrum to include red sorrel, chickweed, dock, and clovers.



This new NF Series nozzle will deliver a high-impact, flat spray pattern wherever a hard, driving spray is required, Betefog Nozzle, Inc., reports.

Bete Has New Spray Nozzle

A new line of narrow angle fan spray nozzles, claimed to deliver a high impact spray pattern, was recently introduced by Betefog Nozzle, Inc., Greenfield, Mass.

Called the NF Series, the nozzles are available in spray angles of 0°, 15°, 30°, 50° and 80°, and in 18 sizes from 1/2 to 75 gpm capacity. Stock materials are brass, teflon, 303 stainless steel, and other materials on special order.

A data sheet is available from the company at the address given above.

Biographics Has Data Service

Consolidated, uniform reports of new data on the basic toxicity or biological activity of older, widely used chemicals, are now available, according to Biographics, Inc., a Princeton, N. J., firm that compiles such data for subscribers to its service.

Called Biograms, these reports are said to be time-saving devices for the busy researcher and will constitute a valuable addition to the technical library as the volumes grow.

The company believes that much of the information on older chemicals was published prior to World War II, with little basis for making valid comparison with these and newer compounds now available. Biograms are designed to fill this need.

Complete details on this service are available by writing to Dr. R. W. Fogleman, President, Biographics, Inc., 3-288 Province Line Road, Princeton, N. J.

Trimmings

General Grant. Had a note recently from Grant's Lawn & Tree Culture, a company which, like many we write about in this column, offers a complete and general line of vegetation maintenance services, including insect, disease, and weed control in lawns, along with aeration and power raking, and tree services. Owners are Ulysses S. and Steven P. Grant, and the firm is relatively new in this endeavor. Judging from the sample mailing piece which we received, they should go a long way in Utah in the coming years when more and more homeowners and industrial installations are turning to the professional for weed, tree and turf work.

* * *

This Place Is Bugged! The relentless advance of science becomes more electrifying every day, and now we learn that a group of scientists at the University of California's Davis campus have learned how to wire an aphid's back with a copper wire, place the insect on a leaf which contains a mild electric charge, and thereby learn when the aphid begins to feed on plant juices. So far, apparently, there have been no editorials in national journals about this intrusion on an aphid's privacy, although this type of complaint is not currently uncommon!

* * *

South of the Border. Just back from an exciting floral tour of Mexico City, Guatemala, Costa Rica, and Merida are nurseryman Ralph Pinkus and his wife Muriel, who run North Haven Gardens in Dallas, Texas. Ralph and Muriel escorted the tour, open to other industry men, because of his wide experience in that part of the world. We here in the frozen Midwest would be inclined to think that next time we'll have to go along to get firsthand news coverage!

* * *

Was It Him or Her? Lawn service firms which have customers who occasionally complain of any brown areas in the lawn can point out that even the lush terraces of the White House's south lawn are being attacked by the notorious fungus disease fusarium rosium. According to Irwin M. Williams, who's chief horticulturist for the National Park Service, there's not much that can be done for this disease. Mr. Williams has the awesome task of caring for the turf and trees about this national shrine, and must right now be a little nervous about Easter Sunday (fast approaching) and the annual egg hunt which delights the kids but probably turns the White House grounds maintenance men into mere shadows of their former selves. In any case, anybody who's traveled to Washington recently can say, regardless of his politics, that the men in charge of the White House (the lawn, that is) are doing a fine job!

ASK FOR.... **AZAK***

Selective Pre-Emergence Herbicide



A 12.5-lb. bag of Azak wettable powder covers one acre. One application lasts through crabgrass germination period.

FOR CRABGRASS CONTROL

AZAK*, Hercules' new carbamate herbicide for pre-emergence crabgrass control in established turf, puts effective and proved control within the reach of every budget. Dollar for dollar there is no pre-emerge crabgrass control on the market that has the many advantages of Azak:

Economical—a 12.5-lb. bag of wettable powder covers one acre, or 43,560 sq. ft.

Nonleaching—one application lasts through the crabgrass germination period.

Safer—to established turf.

Low in toxicity—to warm-blooded animals.

Practically odorless—pleasant to handle and use.

Of Special Interest to Manufacturers

Azak is compatible with most fertilizers and pesticides. Available as an 80% wettable powder, Azak 80-WP, it can be applied in conventional spray equipment or used for granular formulations. Also, it's low in cost.

For Technical Information and Product Availability, contact the nearest district office listed below or Agricultural Chemicals, Synthetics Department, Hercules Powder Company, Wilmington, Delaware 19899.

*HERCULES TRADEMARK



BOSTON, MASS./CHICAGO (OAK BROOK), ILL./DALLAS, TEXAS/GREENVILLE, MISS./LOUISIANA, MO./MONTGOMERY, ALA./PHOENIX, ARIZ./RALEIGH, N.C./SAN FRANCISCO, CALIF.

SZ65-2