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

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

PLEASE PRINT

Name
Company
Address
City ____________________________ State ____________________________ Zip Code ____________________________

Date ____________________________

When Writing to Advertisers Please Mention WEEDS TREES AND TURF
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 Carbidie 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.
- The R. H. Bogle Co.  .  .  .  .  .  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.
- Niagara Chemical Div., FMC  .  .  .  .  4th Cover
- B. G. Pratt Co.  .  .  .  .  .  Dec.
- Residec Corp.  .  .  .  .  .  Dec.
- Seymour Smith & Son, Inc. .  .  28
- Solo Industries, Inc.  .  .  .  .  Dec.
- Sudbury Laboratories  .  .  .  .  .  15
- Tennessee Corp.  .  .  .  .  .  .  Dec.
- Triangle Chemical Co. .  .  Dec.
- U. S. Rubber, Chemical Div.  .  .  .  .  .  7
- Vandermolen Export Co.  .  .  .  .  Dec.
- Velsicol Chemical Corp. .  .  Dec.
- 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.
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 woodcutting 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.

Hereules 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 Applicant'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, Vel-sicol 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.

Oregon Weed Conference

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.

Oregon Weed Conference

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.

Oregon Weed Conference

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.

Oregon Weed Conference

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.
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

HERCULES

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