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Dacthal effectively kills weeds and undesirable grasses in the ground before they sprout. Won't damage ornamentals and shrubs. Best weed control yet for golf-course and fairways, parks, rights-of-way, etc. Keep your turf weed-free with Dacthal applied professionally for best results. Diamond Chemicals, Diamond Alkali Company, 300 Union Commerce Building, Cleveland, Ohio 44115.

 **Diamond Chemicals**

When Writing to Advertisers Please Mention WEEDS TREES AND TURF

August 25-26 Set for Hawaiian Turf Conference

Over 150 turf specialists from the Hawaiian Islands and the mainland are expected at the second annual Turfgrass Management Conference for the state of Hawaii at the University of Hawaii, Aug. 25 and 26.

"Beautification and Community Appearance" with special interest on "Weeds and Weed Control" is the theme of this year's conference.

Superintendent of Maintenance, Hawaii Highway Dept., Edwin B. Andresen, is conference director. His co-chairman will be Major Robert Bohan, past secretary-treasurer, U. S. Army Golf Association.

The conference is designed to be of interest to professionals faced with landscaping problems or yard maintenance decisions. All interested parties are invited to the conference.

Committee chairmen include: Program, David Akana; Registration and Refreshments, Major Robert Bohan; Publicity and Banquets, Charles McCrary; Exhibits, James Kim and Makoto Takahashi; Proceedings, Jean Gutierrez; Housing, Roy Sato; and Tours, Allan McKay.

Protect Elms, Is Appeal

If more people realized the true value of their elm trees, they would be more concerned with protecting the shade trees from Dutch Elm disease.

According to standards set by

the International Shade Tree Conference, an American elm having a diameter of 14" at breast height, in reasonably good health and in a desirable location, is worth approximately \$300 to \$350.

Dr. Ray Keen, department of horticulture, Kansas State University, Manhattan, urges a sanitation program that will control bark beetle breeding in dead trees and provide protection by spraying DDT.

Bulletin Aids Tree, Shrub Insect Identification

Ornamental tree and shrub insect pest identification is covered extensively in an illustrated research bulletin just published by Ohio Agricultural Research and Development Center.

The bulletin, to aid nurserymen and arborists, is titled "Insect and Mite Pests of Trees and Shrubs." It was written by Dr. Ralph B. Neiswander, professor emeritus of zoology and entomology at the Research Center. Dr. Neiswander, who retired in 1964, specialized in insects of ornamentals and greenhouse varieties during his 38 years with the Center staff.

Descriptions, habits, and life histories of 86 destructive pests in Ohio are included in the bulletin. Its pages discuss 28 suckling pests of foliage and twigs, 14 gall makers, 7 leaf miners, 7 defoliators of conifer and deciduous trees, 17 wood-boring insects, and 2 root feeders.

Five full-color and 92 black

and white photos in the 56-page publication illustrate insect and mite damage, and various life-cycle stages of most pests described in the bulletin.

Copies of Research Bulletin 983, are available for \$1, from Mailing Room, Ohio Agricultural Research and Development Center, Wooster, Ohio.

"Expressway" Locke Mower Has 60-inch Blade Swath

Grass as tall as a man and 40-degree slopes reportedly don't stop the recently developed "Expressway Patrol" mower.

Developed by Locke Mfg. Co. to meet needs of highway maintenance on hillsides and long strips of grass, the 700-lb. mowing machine is said to cut up to 3 acres of grass per hour. A safety feature stops the heavy mower after 7 ft. of free travel. With the engine only 5" off the ground for low center of gravity, and dual wheels for stability, the rig is virtually untippable manufacturers claim. More details on the "Expressway Patrol" are available from Locke Mfg. Co., Inc., 1085 Connecticut Ave., Bridgeport, Conn.

Four-Stage Lawn Rig Introduced by Adt Co.

Complete grading, pulverizing, seeding, and fertilizing of a 7-ft. swath of ground for grass all the way from Baltimore to Washington, D. C. (40 miles) would take only 80 hours with the "Grader," a new John B. Adt Co. tractor-mounted processing machine, the company reports.

Designed to simultaneously perform all four operations, the unit can treat up to 25,000 square feet of roughly prepared ground an hour, the firm claims.

Featuring a dual hopper with capacity for automatically seeding and fertilizing up to 8 acres per load, the "Grader" is said to be useful for seeding lawns, golf courses, parking areas, playgrounds, or other turf areas.

Inquiries about the new device may be addressed to "Grader," John B. Adt Co., 110 West Timonium Rd., Timonium, Md., 21093.



Inventor of the Adt "Grader," George Ulsh, demonstrates his new lawn machine.

Dry Form Panogen, Drinox

Panogen liquid seed fungicide and Drinox liquid seed insecticide are now also available in dry forms from the Morton Chemical Co.

The new, dry seed-treatments are named Panogen PX Seed Fungicide and Drinox PX Seed Insecticide. Dry formulations are said to give users the opportunity to treat seed quickly and conveniently right in the drill or planter-box just prior to sowing.

For more information, write, Morton Chemical Co., 110 No. Wacker Dr., Chicago, Ill. 60606

Roller Applies Weedkiller

A damp roller technique has been applied in the development of a new weed control unit which reportedly distributes herbicide without danger to adjacent flowers, shrubs, and ornamentals.

Named "The Drip," the unit has a 36-inch applying roller, above which is fixed a 15-gallon tank. Six adjustable valves control drip of liquid onto roller.

The unit weighs 140 pounds and is said to be easily towed with small garden-type tractors and riding mowers. A smaller, self-propelled hand model is also made. A multiple model combines three or more for wider coverage.

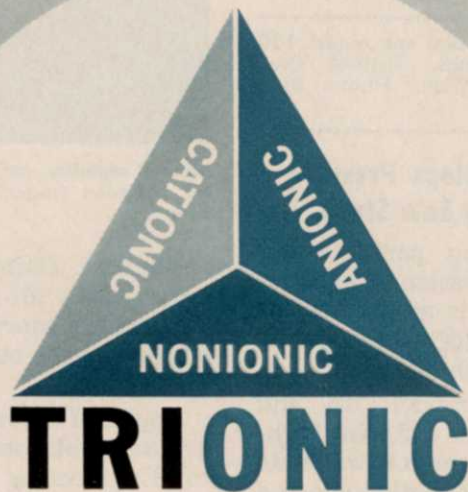
Complete details on "The Drip" will be sent if you write the Lakes Supply Co., Inc., P.O. Box 101, Dundee, Ill. 60118.



Liquid weedkiller drips onto "The Drip's" 36-inch applying roller which in turn presses it onto undesirable weeds without "drift" to shrubs, Lakes Supply claims.

new!

NON-FOAMING ADJUVANT MATERIALLY REDUCES FOAM OF MOST HERBICIDE SPRAYS



...another helpful
Colloidal product

TRIONIC is a new 3-in-one non-foaming adjuvant—anionic—nonionic—cationic—formulated to minimize foaming common to most herbicidal sprays. Completely water dispersible. Substantially improves wetting and distribution of the spray on the plant. Enhances penetration of waxy cuticles. Try TRIONIC—the new **non-foaming** spreader-activator for systemic herbicide sprays. For further information, write:



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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.

FOR SALE

ONE MODEL 1200 and one Model 150 Dyna-Fog machines. United Tree Service, Byron, Mich. Phone 313-266-4363.

McCulloch Develops Pressure Release for Easy Saw Starts

A "de-stroking port," which acts as a compression release for easier starting, is an innovation on two new McCulloch power chain saw models.

Direct-drive model 795 and gear-drive model 895, the highest powered one-man saws made by the company, both have the easy-start feature.

McCulloch reports that the "de-stroking port" permits fullest use of the high compression ratios needed to achieve maximum power, yet it sharply decreases effort required to pull the starter rope. The device is actuated by a lever near the pistol grip of the saw. As the lever is pushed up, it opens a port in the combustion chamber. When the operator pulls the starting rope, heavy compression is released through the port.

Other engineering advances on the heavy-duty power saws include, automatic chain oiling systems, fingertip primers for quick starting, an idle governor for smooth idling, and ball and needle bearings throughout.

Inquiries about the new models can be sent to McCulloch Corp., 6101 W. Century Blvd., Los Angeles, Calif. 90045.

"Economy Tractor" Detailed

Description and specifications of "Economy Tractors" produced by Engineering Products Co. are offered in a new 12-page catalog which includes information covering a wide selection of attachments and optional equipment.



Sidehill stability and traction are added to the "Economy Tractor" by dual rear wheel option.

Producers claim the 10 to 12 horsepower all-gear-drive tractors weigh more and are more rugged than other tractors in their class.

Copies of the information piece are available on request. Write to Engineering Products Co., 1005-HF, Anoka Ave., Waukesha, Wis.

Pramitol 5P Introduced For Noncrop Weed Control

Long-term weed control on noncrop lands is easy with new, fast-acting pelleted herbicide Pramitol 5P, says its developers, Geigy Chemical Corp.

This broad-spectrum, nonselective weedkiller for use before or after weeds emerge, is for application around buildings, in equipment storage areas, or along fencerows and roadways, the company reports. It is said to be particularly effective against such tough perennials as Johnsongrass, Bermudagrass, and bindweed, as well as annual broadleaf and grassy weeds.

Recommendations are to use 1 to 2 lbs. of the herbicide per 100 sq. ft. of soil surface. A higher rate is suggested for deep-rooted perennial control, or for use in areas where there is a heavy rainfall and long weed-growing season. For broadleaf weeds and grasses, 1/2 to 1 lb. per 100 sq. ft. is effective, Geigy claims.

Once weeds are eliminated, the manufacturer notes, weed-free conditions can be maintained

Advertisers

INDEX TO ADVERTISEMENTS

Amchem Products, Inc.	4
The Ansul Co.	35
Bowie Machine Works	6
Brillion Iron Works, Inc.	5
Burton Supply Co., Inc.	38
Chemagro Corp.	45
Chevron Chemical Co.	21
Colloidal Products Corp.	43
Diamond Alkali Co.	41
E. I. du Pont de Nemours & Co., Inc.	29
Eagle Picher Co.	33
Fairfield Chemicals	19
Hercules Incorporated 7, 3rd Cover	
Hooker Chemical Co.	12
H. D. Hudson Mfg. Co.	3
International Harvester Co.	36, 37
McCullough Corp.	11
Morton Chemical Co.	4th Cover
Robert B. Peters Co., Inc.	6
B. G. Pratt Co.	40
Solo Industries, Inc.	13
Stauffer Chemical Co.	30, 31
Thompson-Hayward Chemical Co.	25
Union Carbide Corp., Chemicals Div.	8, 9
Universal Metal Products	28
Velsicol Chemical Corp. 2nd Cover	

from year to year by making supplemental applications of Pramitol 5P at a lower rate.

Address inquiries for further details to Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., Saw Mill River Rd., Ardsley, N. Y.

Unveils Granular Herbicide

Borolin granular weedkiller combines proven herbicides in a free-flowing granulated material intended for dry application by shaker cans or cyclone type spreaders, U. S. Borax reports. The granules, formulated for the destruction of deep root systems of noxious weeds, are applied over the surface of weed-infested areas.

It is recommended for use on perennial broad-leaved weeds like bindweed, Canada thistle, leafy spurge, bur ragweed, Russian knapweed, larkspur, and poverty weed. Because of its high potency, Borax claims a low application rate is possible. Write U. S. Borax, 3075 Wilshire Blvd., Los Angeles, Calif. 90005 for details.

Dyrene is formulated expressly for park superintendents, golf course superintendents, greens keepers, managers and other professionals engaged in the care and maintenance of lawns and turf.

Dyrene's broad spectrum effect combats or prevents all major turf diseases. When used as recommended, it controls: brown patch • copper spot • dollar spot • leaf spot • melting-out • rust • snow mold (*typhula* sp.).

Under normal weather conditions, apply Dyrene at the rate of 4 oz. per 1,000 sq. ft. every 7-10 days. During weather particularly favorable for disease, such as high temperature and humidity, Dyrene may be applied more frequently (5-7 day) or at higher dosages (6-8 ozs. per 1,000 sq. ft.) to keep disease under control with no injury to fine turf grasses. Frequently

**Do you use
the proven
fungicide that
offers golf course
superintendents,
park
superintendents
and other lawn
and turf
professionals
unmatched
effectiveness
in the control of
major fungus
diseases?**

**Your dealer
stocks
it.**

golf course and park superintendents use a Dyrene program of 3-4 ozs. per 1,000 sq. ft. of turf on a 12-14 day schedule. This has resulted in disease-free turf all season. When using Dyrene to clean up a disease condition in turf, use 6-8 ozs. per 1,000 sq. ft. for best results.

Dyrene is a 50% wettable powder that provides a good suspension in water and is suitable for use in all common types of spray equipment. The formulation is dyed green to blend with turf and eliminate the unsightly appearance of spray deposits on treated areas. Once dried, dye does not stain shoes or fabrics. Dyrene will not harm spray equipment, clog nozzles or corrode metal parts of the sprayer.

For complete instructions, read the label or send for folder DY4. 1552



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Suppliers Personnel Changes

Allis-Chalmers Farm Equipment Division has named Harry Hanley sales manager for its Columbus, Ohio, branch. Hanley, a native of Floral Park, Long Island, N. Y., was district representative in the firm's Syracuse, N. Y. branch since 1963.

Appointment of B. C. Brandenburg as midwest manager of Colloidal Products Corp., Sausalito, Calif., was revealed recently. A graduate of Iowa State University, Brandenburg's knowledge and understanding of midwest agriculture is expected to further the Colloidal program of research and development of spray adjuvants. Brandenburg's background is in the field of agricultural resources and chemicals.

Elanco Products Co. promoted three men from field sales manager to regional sales manager positions and chose two chemical sales representatives for field sales manager duties. Advancing to regional sales managers are: Robert W. Collins for the East Central Region, headquartered in Indianapolis, Ind.; William L. Hopkins for the Western Region, headquarters in Fresno, Calif.; and A. Mincher Hillis for the Southwest Region with headquarters in Dallas, Texas. Promotion to field sales managers were given James H. Dunn III for the Pacific Northwest area, and Bill G. Page, for the states of

California, Arizona, Hawaii, and a section of Nevada.

Smith-Douglass division of Borden Chemical Co. appointed Donald O. Newhart area manager of sales for S-D's Turf and Garden Products division. Newhart will manage sales in Illinois, Wisconsin, Minnesota, Iowa, Missouri, and Kansas, from his Chicago office. He is a graduate of Ohio State University and has been with S-D since 1963, when he started as sales supervisor. More recently he has been the firm's Midwest Pesticide Specialist for its Turf and Garden Division.

Power Feed Aids Mulching

Power Feed automatically loads bales of mulch to Finn Equipment's Model P Mulch Spreader and eliminates the need for an extra man to handle the bales, Finn claims. The Power Feed unit, run by the mulch spreader's engine, allows one man instead of two, to transfer mulch from the truck and feed it to the spreader. Another man operates the machine.

The new device feeds one to eight bales per minute into the spreader at an even, controllable rate, according to Finn. Bulletins describing Finn Mulch Spreaders and Power Feed are available from W. L. Schulze, Sales Manager, Finn Equipment Co., 2525 Duck Creek Road, Cincinnati, Ohio 45208.

Trimmings

Works Like a Beaver. We've been receiving carbon copies of letters "Tricks of the Tree Trade" (WTT, Feb. '66, pg. 8) author Horace Bryan has been writing to his "fans" who've questioned his hinge-cut method of falling trees. (See this month's "Letters" column.) In one reply, Bryan writes: "Did you ever notice how a beaver falls a tree? Now there you will find the perfect worker with the hinge-cut. Do you think that beaver just haphazardly falls trees without knowing where they're going?" Bryan, a Texas treeman who's swung on hickories when he was a lad, warns fellow arborists to be sure of the kind of tree they're working with. Some are too old or too brittle to use the hinge-cut on.

* * *

The other morning, on the way to work, we heard a clever (??) disc jockey announce that he was accepting memberships in the Weed Society of America. The only one requirement, he said, was that the person had to be a garden club dropout!!! Oh, what fools these mikesters be!

* * *

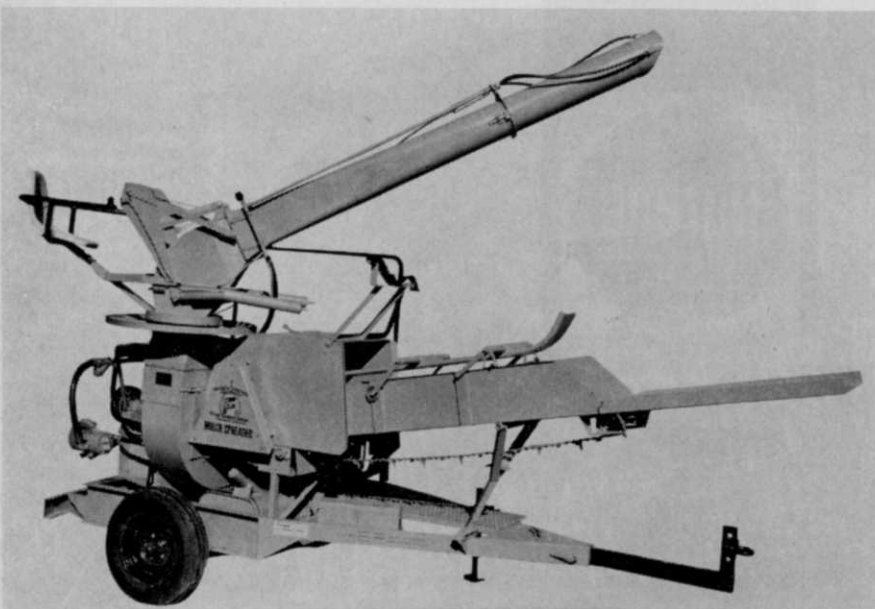
Washington in Cleveland. Committee men Chadwick and Milchalko have been using their influence with success to land as the keynote speaker for their International Shade Tree Conference, in Cleveland, Aug. 28-Sept. 2, Ohio Senator Frank J. Lausche, one of the more highly respected on Capital Hill. Complete arrangements for the program are to be announced in WTT next month.

* * *

Missing a Bet? In a recent survey we conducted, we asked contract applicators to check off which of the kinds of customers we had listed that they do work for. We itemized: homeowners, industrial firms, municipal areas, utility rights-of-way, and residential building contractors. A West Coast respondent commented: "You left out the most important customer—the farmer. The second most important users of our services are military installations." How many other CAs have cultivated these potential customers?

* * *

Northeast Weedman Dies. News just reached us at presstime that Dr. Donald A. Schallock, 46, extension specialist in weed control at Rutgers University, died of a heart attack at his home on April 3rd. Don had been a member of the executive committee of the Weed Society of America, and was a past president of the Northeastern Weed Control Conference. Before joining Rutgers in 1954, he had been an assistant professor of agronomy at the University of Rhode Island, and had previously taught at the University of Wisconsin and the New York State Agricultural and Technical Institutes in Delhi. Don, whose jovial presence and always-willing help will be missed, served five years in the Army and was discharged as a captain.



Power Feed eases bale loading of Finn Mulcher.

You say **BLUE CHIP**[®] means to fertilizer what diamonds meant to me?

That's right, Diamond Jim, just as diamonds were the trademark of your successful salesmanship, the Blue Chip tag on a fertilizer bag is the customer's assurance of a quality product that contains enough of the right kind of nitrogen.

Here's what the Blue Chip tag looks like. Be sure to ask your favorite supplier for a Blue Chip[®] fertilizer . . .



Nitroform[®] ureaform plant food contains 38% nitrogen and is one of the most efficient forms of nitrogen used today in fertilizer mixes. Released for plant use only by soil bacteria—active when growth conditions are right—Nitroform nitrogen is long-lasting and nonburning. Essentially water-insoluble, it will not leach out of the soil, and unused portions carry over as residual nitrogen until the next growing season. A synthetic organic fertilizer, Nitroform is odorless. And, Nitroform requires fewer applications for equivalent nitrogen, and less storage and handling than conventional fertilizers.

Nitroform is recommended for use on turfgrass, ornamentals, trees, and all plants that require sustained nitrogen feeding. It is easy to use and comes in two forms. Granular Blue Chip is applied by mechanical spreaders and is used in the fertilizer mixes that carry the Blue Chip tag. Powder Blue* is the first sprayable ureaform and is used on closely knit turf.



HERCULES[®] TURF AND HORTICULTURAL PRODUCTS

FOR FURTHER INFORMATION WRITE: AGRICULTURAL CHEMICALS, SYNTHETICS DEPT., HERCULES INCORPORATED, WILMINGTON, DEL. 19899, OR CONTACT THESE SALES OFFICES: BOSTON, MASSACHUSETTS • BROWNSVILLE, TEXAS • CHICAGO (OAK BROOK), ILLINOIS • DALLAS, TEXAS • FRESNO, CALIFORNIA • GREENVILLE, MISSISSIPPI • LOUISIANA, MISSOURI • MONTGOMERY, ALABAMA • ORLANDO, FLORIDA • PHOENIX, ARIZONA • RALEIGH, NORTH CAROLINA • SAN FRANCISCO, CALIFORNIA • VANCOUVER, WASHINGTON.