

costs; depreciation; correspondence and record keeping; and other administrative expenses.

Bidrin in DED War

A new weapon which may help arborists wage successful war against dreaded Dutch elm disease is an organic phosphate compound, from Shell Chemical Company, called Bidrin. The new chemical was examined in detail by Dr. Hugh E. Thompson of Kansas State University in Manhattan.

Dr. Thompson said only expertly trained and experienced people are qualified to apply the new chemical, and that the correct dosage for trees is a critical one. Too little may fail to achieve control but too much may harm the tree, the KSU researcher maintained. Bidrin has a residual effect of four weeks, so timing is also crucial. Proper application time is when elms are in flower, Dr. Thompson said.

The material is packaged in specially designed capsules, color coded for different strengths, which can be attached to tree trunks for injection.

Dr. Thompson said the promising new material has received limited label approval and that Shell has printed recommendations for using the product. Use of Bidrin is limited to persons who have become qualified by examination, the Kansan said in conclusion.

Maple Ills Delineated

A variety of ailments which afflict maples in many areas, referred to variously as decline, blight, dieback, etc., were more specifically described by Dr. George H. Hepting, Principal Research Scientist, U. S. Forest Service, Asheville, N.C. Dr. Hepting said the problems are in fact: (1) New England roadside maple decline; (2) General maple decline in the Northeast; (3) Pathology of the sugar-bush maples; (4) Insect-induced maple blight of northern Wisconsin; and (5) Sapstreak disease of North Carolina and the Lake States.

Factors related to the New England ailment are road salt application, road widening, as-

phalt applications, and snow plow damage, Dr. Hepting said. In Wisconsin, an epidemic of maple webworm was intensified by a simultaneous infestation of leaf roller. Defoliation and its side effects contributed to a general decline.

The sapstreak disease was shown to be concurrent with extended drought conditions. An overlying problem associated with decline of maples and other northern hardwoods is that of general attrition due to a succession of years with below-normal precipitation and above-normal temperature. Accumulated moisture deficits brought about a chain of adverse happenings which cause decline.

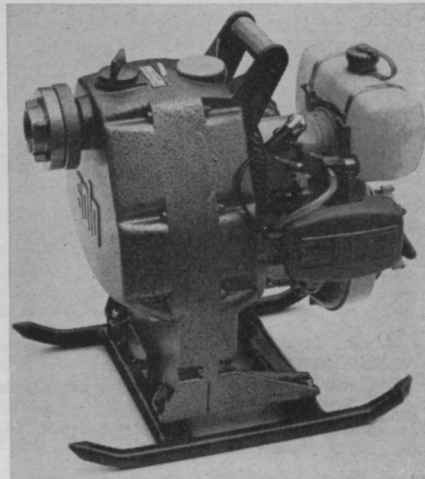
What the Utilities Want

A lecture of avowed interest to arborists, who traditionally reap much of their present income from utility work, was presented by P. C. O'Shee, Superintendent of Distribution, Alabama Power Company, Birmingham. O'Shee said fair prices, economical tree trimming, good public and customer relations, financial considerations about expensive equipment, and good line clearing supervisors are necessary to fulfill utility work. But he hastened to point out that it is indeed a "two-way street," and that the utility should have a supervisor who's trained in line work so he can work with the contractor; that the utility should realize the contractor must make a profit and pay for expensive equipment; and that personalities of foremen, owners, and utility personnel should be compatible.

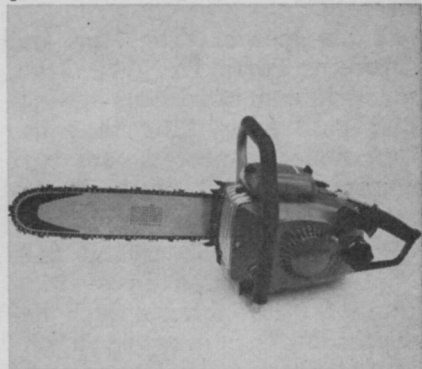
He reminded the arborists that when they're out doing work for the utility, they are in effect working for the utility itself, and must be careful to create good impressions for the power company.

NAA officials told *Weeds Trees and Turf* that dates for next year's meeting will be announced on these pages at a later date. The NAA also meets jointly August 15-20 in Washington, D.C., with the International Shade Tree Conference.

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So light, but oh so strong! The new SOLO 50 Power Saw offers you lightness combined with power, with overstrain-protected crankshaft, easily exchangeable sprocket, and outstanding cutting efficiency. Wonder why so many arborists and vegetation supervisors are joining the swing to SOLO? Fill out the coupon on page 35 and see for yourself!

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Interested in keeping abreast of latest developments in turfgrass research, consulting agronomist Dr. Fred Grau took notes as Dr. Joseph Duich explained studies underway at Pennsylvania State University. Dr. Henry W. Indyk of Rutgers (extreme left); Warren Lafkin of Lawn & Garden Supply Co. (left of Dr. Grau); and Dr. Robert W. Schery, Director of The Lawn Institute (far right) also listened attentively to Dr. Duich's report. The address was part of Rutgers' turfgrass conference held on the campus recently.

Turf Expert Dr. Grau Has Advance Look into Future of Turf for Rutgers Turf Conference

A dramatic peek into the future of turfgrass management was offered 370 delegates to the annual Rutgers Turfgrass Short Course on the University's campus in New Brunswick, N.J., recently.

In his speech, "The Past and Future of Turf," Dr. Fred Grau, widely known consulting agronomist, said everything that has been done in professional turf management thus far is only a beginning.

Peering into his crystal ball, Dr. Grau predicted an exciting future which includes such developments as: use of high-frequency sound for mowing and controlling disease organisms; electronic formulation of fertilizer in accordance with soil test data; fertilizer ingredients with a steady release rate for 4-5 years; root zone placement of fertilizers; completely automated sprinkling systems designed to provide water as it is needed; electronically guided mowers; infrared heating of stadiums for the comfort of spectators and growth of green grass 365 days a year; synthetic grass substitutes; and controlled top growth of turfgrasses with the development of dwarf varieties as well as chemical growth regulators.

Also on the program for the annual Rutgers seminar was Dr. Henry W. Indyk, Extension Specialist in Turf Management at Rutgers. He discussed problems associated with sod production, singling out for comment weed infestation, uniformity of stand, maintenance practices, thickness of cut, sod placement, and harvesting costs as major problems confronting the sod producer.

The Turfgrass Conference is conducted under the leadership of Rutgers staffer Dr. Ralph Engel, with the assistance of Drs. C. R. Funk and H. W. Indyk.

ABC Compounding Represents Gabriel in Southeast

Gabriel Chemicals, Ltd., New York-based pesticides formulator, and ABC Compounding Co., Inc., of Atlanta, manufacturers and distributors of industrial chemicals, have formed an agreement whereby ABC Compounding will function as Gabriel sales representatives in the Southeastern United States.

In addition to representing Gabriel as sales agents, ABC Compounding will manufacture and warehouse various pesticide formulations under Gabriel's label and laboratory control.

Meeting Dates



New Jersey Certified Tree Experts Society Quarterly Meeting, Andrew Wilson, Inc., Springfield, N. J., April 19.

Triangle Turfgrass Assn. Regular Meeting, Green Hill Country Club, Louisburg, N. C., April 20.

Rutgers University Turfgrass Equipment and Products Field Day, New Brunswick, N. J., April 23-24.

Florida Turf-Grass Assn. Meeting, Sheraton Hotel and Plantation Field Laboratory, Ft. Lauderdale, May 6-7.

Florida Nurserymen and Growers Assn. Meeting, Sheraton Hotel, Ft. Lauderdale, May 13-15.

Alabama Nurseryman's Assn. Meeting, Admiral Semmes Hotel, Mobile, June 6-8.

Louisiana Nurserymen's Assn. Meeting, Municipal Auditorium, Lafayette, Aug. 5-7.

Southern Nurserymen's Assn. Meeting, Golden Triangle Motor Hotel, Norfolk, Va., Aug. 8-10.

Texas Association of Nurserymen, Shamrock Hilton Hotel, Houston, Aug. 15-18.

Midwest Regional Turf Field Days, Purdue University, Lafayette, Ind., Aug. 16-17.

Penn State Turfgrass Field Day, on campus, University Park, Pa., Sept. 15-16.

Ohio Agricultural Experiment Station, Lawn and Ornamentals Field Day, Wooster, Sept. 21-22.

Velsicol Offers Wall Chart

Turfmen can have a handy aid hanging right on their office wall, in the form of a new Turf Pest Control Guide, offered by the Velsicol Chemical Corp.

The chart measures 22½ x 35 inches and readily identifies 28 turf diseases, insects, and weed damage situations. Each illustration appears in four colors to further aid in quick identification.

For a free copy, write Velsicol Chemical Corp., 341 East Ohio St., Chicago, Ill. 60611.



Reports of the Georgia Clean Acres Weed Control Program were read by Georgia Weed Control Society president Virgil H. Young, Jr., (left), of Fort Valley. With him was visitor Dr. D. E. Wolf, president of the Southern Weed Conference. Dr. Wolf, from Wilmington, Del., is sales manager for duPont agricultural chemicals. He gave keynote address for the Georgia conference.

Georgia Weed Controllers Meet to Hear Results of New "Clean Acres" Program

By VIRGIL E. ADAMS, Extension News Editor, University of Georgia, Athens

Some crack Georgia weed controllers assembled February 24-25 in Macon to hear results of the "Clean Acres Program" launched by the Georgia Weed Control Society in 1963, at the same time the Society was organized.

Meeting at the Dempsey Motor Hotel, the Georgians learned more about Clean Acres, a project directed by the Extension Agronomy Department of the University of Georgia. Weed control specialists James F.

Miller and W. H. Hogan are spearheading the project. Clean Acres is designed to saturate from 25 to 30 counties a year with the latest technology and research findings on chemical weed control. County agents use newspaper articles and pictures, radio and TV programs, banners, and other means to get the weed-destroying story across.

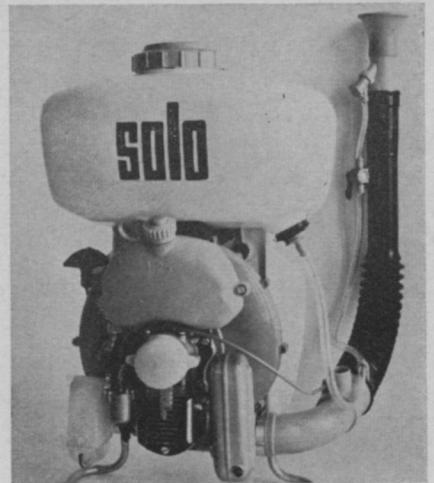
Keynoter for the conference was Dr. D. E. Wolf, president of the Southern Weed Conference and sales manager for the agricultural chemicals section of E. I. duPont de Nemours and Co. in Wilmington, Del. Dr. Wolf cited the dramatic advances in weed control which have marked our times and said, "There's no question of the tremendous interest in weed control, and likewise, there's no doubt that weed science is a healthy and dynamic field, particularly here in the South."

Looking to the future, Dr. Wolf stated that "the science of weed control is occupying some of the best and most creative minds in research, extension, commercial agriculture, and industry. No one branch of science and certainly no individual or business firm is going to have a monopoly on all the know-how."

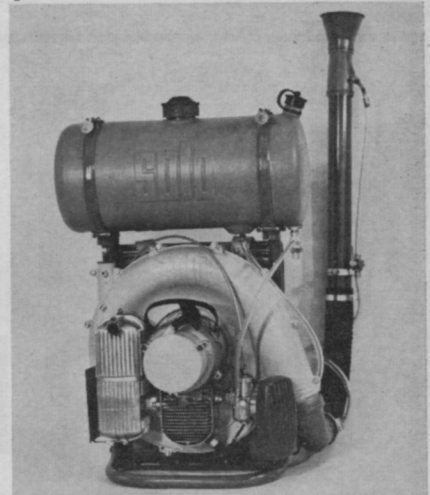


New herbicide research was subject for two slide-illustrated talks delivered by these weed controllers. Left is Dr. Jack Thompson, agronomist with the Georgia Experiment Station. With him is Dr. E. W. Hauser, USDA researcher from the Coastal Plain Experiment Station.

● HERE'S SOLO IN ACTION 2



Last year a neophyte, this year's old pro. That's the new SOLO JR., the knapsack mistblower that weighs only 15 lbs.! Its easy portability and unparalleled efficiency have made it the choice of thousands across the country. Use the coupon on page 35 to get the details. P.S. Did you know SOLO also builds the world's foremost heavy duty self-propelled motorscythe?



Big brother to the SOLO JR., the SOLO MISTBLOWER is the proven knapsack sprayer used the world over by applicators who demand the most efficiency, the most reliability, the greatest accuracy. Weighs a mere 27 lbs., achieves 5 h.p. One unit to apply liquid, dust, or granules with professional accuracy. Did you know you can buy most all of your vegetation maintenance equipment from a single manufacturer, SOLO Industries? Fill out the coupon on page 35 and you'll see how!

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Morton Introduces Two New Postemergence Herbicides

Introduction of two postemergence herbicides was recently announced by Morton Chemical Co., Chicago.

One of them, Mecopex, introduced on a limited basis last year, is a selective herbicide formulated and proven safe even for application on bentgrasses, Morton reports. It is especially useful for weed control in golf greens and fairways and other places where bent or other sensitive grasses are used. Mecopex is said to be effective on clover, chickweed, knotweed, and plantain.

Mecopar, the second herbicide, provides for broader spectrum weed control than Mecopex, while still retaining greater safety on sensitive grasses. Mecopar controls dandelion, lambsquarters, ragweed, and other weeds controlled by Mecopex, the company says.

Field tests by Morton's research personnel have shown Mecopar to be safe on bluegrasses, fescues, bermudagrass, and even bentgrasses at fairway cutting height. Both products are water soluble.

More details on Mecopex and Mecopar may be obtained by writing to Morton Chemical Co., Div. of Morton Salt Co., 110 N. Wacker Dr., Chicago, Ill. 60606.

Contree Offers Fiberglas Bin

A lightweight, transparent bulk fertilizer bin has been developed by Contree Sales, Inc., Columbus, Wis. Built of Fiberglas, this bulk bin will carry a payload of 1½ tons, the company says. Volume of the bin is 60 cu. ft.

The Contree bin weighs less than 200 pounds, making it possible for one man to load or unload it. Metal parts such as unloading gate and handle are made of stainless steel. These bins can be adapted for hauling or storage of liquids.

Further details are available to those who write Contree Sales, Inc., P.O. Box 129, Columbus, Wis.

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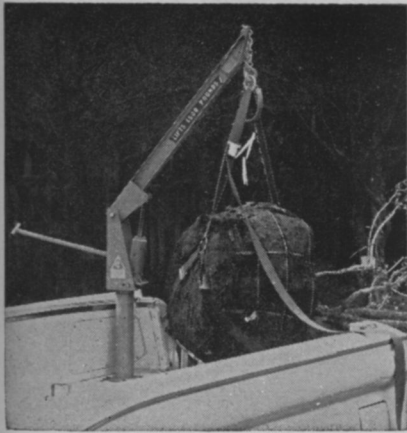
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605 Weatherly Bldg. Portland, Ore.



Using an adjustable nylon sling to lift balled tree onto truck for transport to site of landscaping project cuts the task to a one-man operation, Ideal Crane company spokesmen say.

Lightweight Crane Gives Man Muscle for Heavy Lifts

A portable, hydraulic crane, which reportedly makes it possible for one man to lift up to 1500 pounds, is available from Ideal Crane of Tulsa, Okla. The crane can be installed on any truck and has a 360° turning radius. Another model has a hoisting capacity of 2500 pounds.

The 1500-pound capacity crane weighs 68 pounds, and is mounted in a pipe base which is welded or otherwise fastened to the truck body. Several of these pipe bases can be stationed at other locations: at loading platforms, at scales, on warehouse dollies, or on more than one truck. The crane can easily be placed where it is needed.

Lifting power is provided by a hydraulic ram. The company lists several lifting accessories, among them barrel chains and an adjustable nylon sling for hoisting balled trees, and other large shrubbery.

Complete data on this equipment, including prices, are obtainable by writing to Ideal Crane Div., Bert Parkhurst & Co., 15051 East Admiral Pl., Tulsa 18, Okla.

Dow Tests New Dursban

A new experimental insecticide shows promise for control of a variety of nonfood-crop insects, The Dow Chemical Co. announces.

Named Dursban, the insecti-

cide demonstrates a broad range of effectiveness at low dosages during 3 years of research and development, Dow says. Dr. Henry E. Gray, of Dow Bioproducts research and development, reports research continues in the area of controlling chinch bugs and other turf and lawn insects, cockroaches and other household pests, and mosquitoes.

Further information about Dursban is available to those who write Dr. Gray or Milton B. Irvine at Dow Bioproducts Center, Midland, Mich.

Hercules Brochure Explains Rhap-Trol Spray System

A new, colorful brochure explaining the Rhap-Trol system of herbicide spray application has been published by the Hercules Powder Co.

This new system produces droplets of optimum size to control drift and assure more effective brush control, Hercules says. Droplets are formed in the chamber of a specially engineered nozzle as the herbicide is sprayed. There is no resultant product waste, according to Hercules.

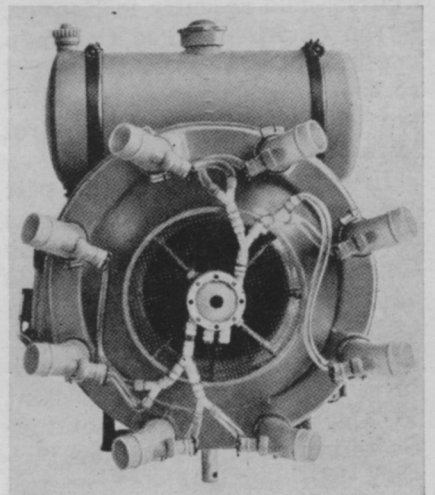
The system can be used in both ground and aerial spraying programs. It is said to be particularly efficient in aerial spray programs since the controlled droplets are of a size that reduces drift caused by wind and air turbulence.

Applicators interested in obtaining a copy of "Keep the Herbicide on the Right-of-Way," (Form 400-722) may write to Hercules Powder Co., Agricultural Chemicals, Synthetics Dept., 910 Market St., Wilmington, Del. 19899.

Century Catalog Available

Wide-area sprayers, agitators, and special trailer mountings are among the many items featured in a new 20-page catalog recently published by Century Engineering Corp. For copies, write the company at Cedar Rapids, Iowa 54201.

● HERE'S SOLO IN ACTION 3



Now meet the Super Custom, the newest in SOLO's line of sprayers designed to the exacting specifications of professional sprayers. You may couple the Super Custom to any size tank or drum exactly as you wish and need.

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Colorado Applicators Asked To Back Proposed Weed Laws

In a keynote address before the 17th annual Colorado Applicators Convention and Short Course, held recently in Denver, Byron G. Allen urged Colorado applicators to support suggested state legislation in enactment of uniform weed and pest control laws.

He was referring to the pest control compact drawn by a committee appointed by the Council of State Governments and a uniform weed law written by the National Association of State Departments of Agriculture. Allen, who is an assistant to Department of Agriculture Secretary Orville Freeman, further said that the pest control compact was designed to forestall the spread of pests from state to state and each state would contribute to a fund with the federal government providing matching dollars to finance campaigns against plant pests in any area.

He said chemicals used against weeds and insects "bear watching" for possible harmful effects to humans and animals, but there is no need for a "fear complex" about their use. He urged the industry to combat adverse attitudes through public education.

Paul W. Swisher, Colorado Commissioner of Agriculture, noted that only the uniform weed law was being considered at this time. The act would require landowners to kill or control noxious weeds under a control authority to be set up in each state to enforce the measure. Failure to comply would result in the authority hiring the work done and assessing the landowner for the cost.

During a joint session of the Colorado Aerial Dusters and Sprayers Association and the Ornamental Spraymen, Jim Omura, a national director of the Associated Landscape Contractors of America, read a report on the movement to establish a national spraymen's association. The assembly voted to support the movement without a dissenting vote.



Midwestern turf chiefs. Here are 1965-66 officers of Midwest Regional Turf Foundation, elected during group's annual conference at Purdue University, Lafayette, Ind., last month. Left to right are Dr. W. H. Daniel, Purdue turf specialist, exec. sec'y.; Norman Kramer, Point O Woods Country Club, Benton Harbor, Mich., V-P; and Morgan Boggs, Bunton Seed Co., Louisville, Ky., president.

Floridians Plan Best Turf Show Ever May 6-7 in Ft. Lauderdale

For the first time since its inception four years ago, the Florida Turf-Grass Trade Show will be held entirely in Fort Lauderdale. Scheduled to take place May 6-7, show activities will center in the newly opened Sheraton Hotel and the Plantation Field Research Laboratory.

A record number of registrants is expected to view the greatest number of turf product exhibits ever shown at the yearly affair. On display will be a wide range of equipment, chemicals, insecticides, herbicides, fertilizers and other products for use in Florida's \$130,000,000-a-year turf industry.

The show will open with the traditional tours of turf plots at the laboratory showing the extensive research projects conducted during the past year. Tours are directed by Dr. Evert D. Burt, assistant turf technologist at the laboratory and co-chairman of the show.

Guided tours will be conducted for lawn maintenance men; park, cemetery, and athletic field directors; sod growers; horticultural spraymen; golf course superintendents; etc.

Special demonstrations are

being added to the tours this year. These include demonstrations of sprayer-calibration techniques, methods used for measuring irregular areas for spraying and fertilizing purposes, and explanations of the various types of specialized spray equipment available to the professional sprayman.

Agenda for May 7 calls for an early morning start with an increasingly important business management clinic. Designed to assist the turf professionals in all phases of their business operation, the clinic will feature several speakers who will discuss the latest trends and thinking in business management with special reference to the turf industry.

During the course of the show several other groups will hold important business sessions, including the Florida Society of Golf Superintendents and the Horticultural Spraymen's Association of Florida (on May 7).

Additional information and preregistration forms for the show may be obtained by writing to the Florida Turf-Grass Assn., 4065 University Blvd. North, Jacksonville, Fla. 32211.

At Fairview Country Club, Grass Stops Growing.



Elmsford, New York: Acres of hard-to-mow turf stopped growing this summer at the Fairview Country Club of Elmsford, New York. The grass was treated with MH-30^T by Club Superintendent Ted Joswick. Mowing costs were cut to a minimum.

Mr. Joswick reports: "We started using MH-30^T experimentally ten years ago. We now use forty to fifty gallons per year on all areas that can't be cut with regular gang mowers — on steep banks, roughs, and around traps, rocks and trees. The savings in labor costs and machinery repairs are tremendous. And, of course, the always 'just trimmed' look MH-30^T gives us, can't be measured in dollars."

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An amazing chemical is dramatically reducing the expense of cutting grass throughout the country. This chemical is called MH-30^T.

A single spraying of MH-30^T controls the growth of grass for an entire season. Here's how it works:

MH-30^T temporarily stops cell division (this is what makes grass grow). It does not affect cell expansion. This means grass can stay healthy and vigorous even though it does not grow taller.

The effects of MH-30^T gradually wear off late in the growing season. And the grass grows slightly. (The actual amount of growth varies

from region to region.) It may have to be cut once or twice a year. Three times if you're extra fussy.

Thousands of acres of highway grass in Connecticut have been treated with MH-30^T. Now, mowing costs each year are \$20 an acre instead of \$70 in hard-to-mow areas. MH-30^T is also controlling grass at golf courses, parks, cemeteries, military bases, and airports all across the country.

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The destruction of empty containers—or disposal by other recognized methods—is one of the essential parts of any pesticide program.

To ensure safety and effectiveness throughout your program follow these simple steps: (1) read the label on any pesticide carefully, before you

start, (2) follow the directions and precautions exactly, (3) make sure your application goes only on the crop to be protected; drift to neighboring cropland or streams is bad business, (4) never clean or flush out your equipment near a stream, and (5) complete the job by crushing and burying all small empty containers.

To dispose of drums: return them to the formulator, sell them to a cooperator equipped to decontaminate them, or destroy them according to procedures recommended by the U.S.D.A.

Play it safe and you do a great deal to ensure the efficient and profitable performance of any pesticide.

**NATIONAL AGRICULTURAL
CHEMICALS ASSOCIATION**

Suppliers Personnel Changes

American Pulley Co. president John A. Brnich announces appointment of Charles A. Berry as sales manager of Hardie Products Div. in the Midwest. Berry was formerly midwest district manager for Hardie, and in his new position will be headquartered at the company's Philadelphia offices. American Pulley Co. is a division of Universal American Corp.

Niagara Chemical Div., FMC Corp., has added Dr. Loren K. Gibbons to its organic synthesis group of the research and development department. Gibbons will engage in the synthesis of potential fungicides for control of plant diseases. He received his Ph.D. degree in chemistry from the University of Kansas.

Pennsalt Chemicals Corp. recently appointed E. G. Warren to the post of product manager-inorganic chemicals for the industrial chemicals division. At the same time Donald A. King moved from product manager-

inorganic chemicals to regional sales manager in Detroit.

Smith-Douglass Co., Inc., has placed Gerald D. Johnston in the Michigan territory to represent Nutro plant food. He was formerly with Heritage House Products, Inc. Donald O. Newhart has been named to represent Nutro pesticides sales in the Midwest. Directing private label sales for the entire Midwest is Hartl W. Lucks, whose new title is midwest manager, Nutro private label sales.

U. S. Borax & Chemical Corp. has appointed H. F. (Hal) Griswold to executive assistant to the marketing department vice president. Griswold was formerly with McCann-Erickson, Inc., Los Angeles advertising agency. Borax has also acquired the services of C. Wayne Jordan, agronomist, who will work at the firm's Auburn, Alabama, offices. Others involved in field moves include David V. Parker, who now heads sales of all the company's products, including industrial and agricultural chemicals.

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.

Canada Thistle and Its Control, 1963, 8 pp. il., 5¢, Catalog No. A 1.35:523, Superintendent of Documents, United States Govt. Printing Office, Washington, D. C. 20402.

Know Your Soil, Rev. 1963, 16 pp. il., 15¢. Catalog No. A 1.75:267/2 Superintendent of Documents, U. S. Govt. Printing Office, Washington, D. C. 20402.

Scale Insects on Shade Trees and Shrubs, Bulletin E-29, Agricultural Publications Office, Agricultural Experiment Station, Purdue University, Lafayette, Ind., 5¢.

Dyrene Turf Fungicide, 8 pp. il., Chemagro Corp., P. O. Box 4913, Kansas City 20, Mo.

Pruning Woody Plants, Extension Bulletin, 2 pp. il., Agricultural Extension Service, University of Delaware, Newark, Del.

General Contact Weed Killers, Bulletin C-447, Agricultural Experiment Station, U. of Cal., Berkeley 4, Cal.

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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.

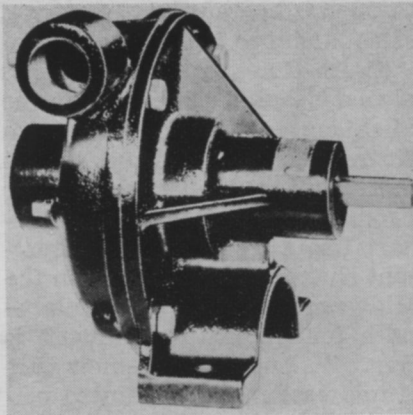
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BRANCH MANAGERS, Connecticut through Virginia. To head operations for progressive national corporation specializing in professional management of turf, shrubs and ornamentals. Education, experience and/or interest in turf, horticulture or related fields desirable. Expert sales and technical training by top men in the field. Extraordinary opportunity for advancement. Excellent starting salary plus substantial commissions. Must be willing to relocate if necessary. Send resumé to: Charles W. Ridinger, Director of Personnel and Training, Turf Kings, Inc., 46 John St., Yonkers, N.Y. 10702.

QUALIFIED TREE SALESMAN to handle a territory approximately 25 miles. Starting salary \$150 week, plus commissions. Company car furnished, vacations, excellent working conditions. Send resumé and references. All replies confidential. For those qualifying, expenses will be paid for personal interview. Write to: Mr. F. R. Micha, Sales Manager, Monroee Tree Surgeons, Inc., 2525 W. Henrietta Rd., Rochester, N.Y. 14623.

LANDSCAPE MAINTENANCE supervisor needed for hard work, mental and physical. A challenge to keep beautiful, Atlanta's finest industrial landscaping. If you have a happy family and 5 years' recent experience, apply Symmes Nursery, Inc., 650 Canterbury Rd., N.E., Atlanta, Ga. 30324.

FOREMAN OR SUPERVISOR needed by rapidly expanding tree surgery and weed control company in New York State. Experience in private work and utility work preferred but not required. Write Box 7, Weeds Trees and Turf magazine.



Model FMC all-iron centrifugal pump is ideally suited for spraying weed control chemicals, reports the Ace Pump Co., P.O. Box 1802, Memphis, Tenn. This new pump can be frame-mounted for use on self-propelled sprayers, for small-lot irrigation, or tank filling. Another feature is counterclockwise rotation (when facing shaft) making the FMC ideal for replacement of roller pumps, the company says.

DuPont's New Weedkiller Can Be Applied at Seed Time

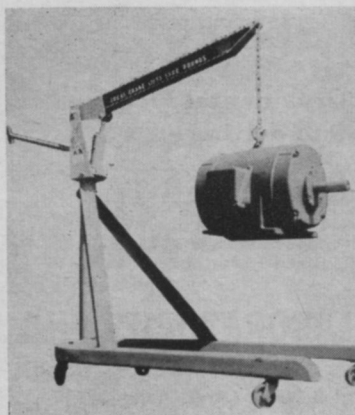
A chemical to control crabgrass and other grassy-type weeds with a high degree of safety to turf, even at time of seeding, has been developed by E. I. duPont de Nemours and Co.

Called Tupersan, the new herbicide has been tested in greenhouses, field plots, lawns, and golf courses under a variety of environmental and climatic conditions for crabgrass control in turf. An outstanding feature of the chemical, du Pont spokesman add, is its high degree of safety to many cool-season grasses. Its safety to newly seeded turf was demonstrated by mixing the chemical with seeds of many cool-season grasses, sowing them together, and producing crabgrass-free turf.

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Tupersan was applied at five times the recommended rate without injury to established turf, du Pont says. The herbicide will not harm annual bluegrass (*poa annua*) or clover, and has been applied under many trees and ornamentals without injuring them, it is reported.

Interested applicators may obtain more information on Tupersan by writing to E. I. du Pont de Nemours & Co., Product Information Service, Wilmington, Del.



ONE-MAN HYDRAULIC CRANE

Comes complete with truck mount and 6-ft. chain. Can be mounted on any type truck. Accessories include Nylon Adjustable Tree Sling, \$27.50; Barrel Chain, \$4.95; Stiff Leg for use under truck bumper, \$9.95. Floor Dolly shown only \$99.50. Crane is interchangeable from dolly to truck mount.

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