

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.

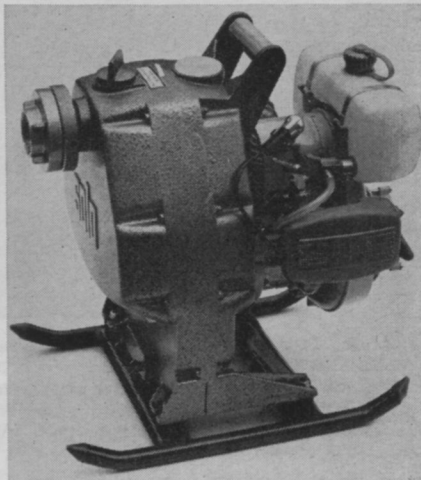
What the Utilities Want

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.

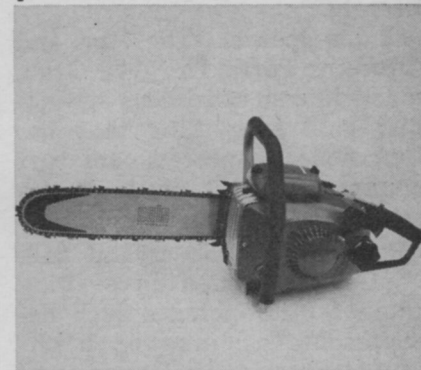
He reminded the arborists that when they're out doing work for the utility, they are in effect working for the utility itself, and must be careful to create good impressions for the power company.

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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California Weed Conference Is Largest Ever Held

(from page 22)

erside campus of the sprawling state institution.

Dr. Leonard described his recent experiments with brush control, saying he had obtained outstanding results in poison oak control using silvex applied by mistblower.

He also said he had better results in blue oak control using Tordon, new from Dow, instead of amine forms of 2,4-D.

Dr. Bayer said surfactants (surface active agents) can't be used in very hard water. And certain herbicides may react with the surfactant.

Since surfactants that work in one instance may fail in another, applicators must treat each application as unique and formulate accordingly.

Bill Harvey asked where the Californians are going in weed control. He suggested using the term "vegetation control" instead of weed control because so

much more is really involved. He also boldly underscored the importance of noncrop vegetation maintenance and control as a rapidly growing portion of the industry.

Dr. Boysie Day attempted to summarize by defining the "basic principles of weed control." He cited such statements from the literature as "Prevention is better than cure; control is more feasible than eradication; and eradication is normally impossible" as true "basics" in weed science.

The California Weed Conference is an efficiently run, well-attended affair that attracts more delegates than any other state weed meeting. There is a definite sense of tradition, an esprit de corps, and an obvious dedication to the serious pursuit of weed science. The growing attendance is evidence of the importance of vegetation maintenance in California, and of the benefits accorded the practitioners of weed control by the Conference program.

New Gandy Broadcaster Spreads in Small Quantities

A new 3-point-hitch granular chemical applicator can apply as little as 5 lbs. material per acre on a broadcast basis, according to the Gandy Co., Owatonna, Minn.

A patented five-blade rotor assures that material will not leak out the openings in the hopper bottom when the rotor is not turning.

Another feature, Gandy says, is that the applicator has been designed to be easily cleaned and maintained. The hinged rate-control slide can be dropped down, away from the bottom, in a matter of seconds for overnight "freeze-proof" storage.

For more details on the chemical applicator, or the agricultural model of this same machine, interested applicators may write to the Gandy Co., Owatonna, Minn.



A granular chemical applicator said to apply as little as 5 pounds material per acre is manufactured by the Gandy Co., Owatonna, Minn. The applicator is made in 4 sizes from 8 to 14 ft.

Meeting Dates



Wisconsin Park and Recreation Society, 34th Annual Meeting, Northland Hotel, Green Bay, March 10-12.

35th Annual Michigan Turfgrass Conference, Kellogg Center, Michigan State University, East Lansing, March 11-12.

Wisconsin Turfgrass Conference, Wisconsin Center Building, Univ. of Wisconsin, Madison, March 23-24.

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.

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

Turf Big Business in Texas

Establishment and maintenance of turf areas is developing into a \$200,000,000 nonfarm market in Texas for the fertilizer and limestone industry, delegates were told at the annual Fertilizer and Limestone Conference held at Texas A&M University, January 4-6.

Dr. G. G. McBee, turf specialist at Texas A&M University, added that this amount includes grassed areas for home lawns, golf courses, ball fields, parks, cemeteries and landscaped business and government buildings.

Small Homeowner Contracts May Grow to Be Big Business For Arborists, Felix Tells 15th Annual N.Y. Tree Group

By PROF. A. M. S. PRIDHAM, New York State College of Agriculture, Ithaca

"Homeowners may become acquainted with arborist services from observation and their needs can be a source of present and often future business as young families move up the economic ladder," according to Robert Felix, Harder Tree Service, Hempstead, L.I., N.Y.

Felix addressed his remarks to the 15th annual meeting of New York State Arborists at Statler Hall, Cornell University, Ithaca, Jan. 17-19.

Arborists gathered for the annual New York meeting heard a varied program which embraced fertilization, brush control, marketing, and equipment demonstrations.

Professional tree work, Felix pointed out, began on the estates of Long Island; while few of these large holdings remain, the small 2- or 3-acre homesite offers arborists on the Island, and throughout the nation, a growing and lucrative market for professional tree care.

Use of MH-30T, the growth regulator from U. S. Rubber, was discussed by Paul R. Bohne, research physiologist for the manufacturer, who said proper spring application of the compound will retard, prevent, or suppress shoot growth on many woody ornamentals.

Since ornamental plantings may not be able to utilize fertilizers applied in the spring when they need nutrients most for rapid growth, observations on fall feeding of woody ornamentals was a welcome addition to the 15th annual NYA program.

Professor H. B. Tukey, of the New York State College of Agriculture, said plant roots grow during the dormant season and, unless frozen, absorb nutrients. Further investigation has shown these nutrients are moved to the tops of dormant plants, Tukey said. However, the researchers found soil temperatures may be



Changing of the Guard. George H. Callaway, Llenroc Tree Experts, Argyle, (left) presented a maple gavel to president-elect Arthur C. Sandstrom, Lewis Tree Expert Co., Jordan, while secretary-treasurer Dr. John A. Weidhaas of N.Y. State College of Agriculture looked on.

so low in spring the roots cannot absorb the spring-applied fertilizer before spring growth begins. Fertilizers applied in the fall after the plants were fully dormant were utilized by the plant for spring growth, Professor Tukey indicated.

Fall application of nutrients offers several advantages over spring application, Tukey concluded. However, since there is some belief late summer applications increase tender shoot growth that may be winter killed, he warns that fertilizer should not be applied until plants are fully dormant in the fall.

How should arborists dispose of waste wood which results from Dutch elm sanitation or regular trimming? According to Fred Donovan of Donovan Tree Service in Mechanicsville, burning of wood presents local problems of smoke and fire, but permits to establish brush and wood disposal can be obtained. Public objection to garbage dumps is understandable because of disease, smoke, and rat problems, Donovan maintains.

Alternate possibilities include formation of a forest products

company that might run any of several operations including woodchips or woodchip-chicken manure compost, or such art-fancier items as driftwood or gnarled branches for patio or garden.

The use of woodchips in roadside construction specifications can be a good conservation measure providing the forest products company with a good market, Donovan concluded.

Dr. A. A. Johnson, Director of Extension, spoke at the final luncheon and emphasized the fact the suburban sprawl will require roads and sewage on what is now poor land for agriculture, Johnson said. Information on soils, drainage, and water is limited to present agricultural data.

Arborists engaged in tree removal and tree planting are aware of the value of such information from bidding and planting landscape jobs in new communities or the expansion of small communities. For this reason, Johnson expects arborist services will become increasingly important in the future economy of New York State and the nation.

Turf Tips, Arborist's Advice, and More—

All on Agenda for 36th Ohio Hort. Course

With horticultural conferences in general attracting record-breaking attendance this year, it's no surprise to find a whopping 850 delegates registered for the 36th Annual Ohio Short Course for Arborists, Turf Management Specialists, Landscape Contractors, Garden Center Operators, and Nurserymen.

Meeting Jan. 25-28 at the Columbus Plaza Hotel, delegates found themselves in company of fellow industry men from 20 states and the District of Columbia as they heard three days of top-level talks on virtually every phase of vegetation maintenance and control.

One of the highlights of the meeting was an address by Dr. James Watson, agronomist for Toro Manufacturing Co., Inc., in Minneapolis, who filled delegates in with a general background of good turf management practices.

Watson said that obviously judicious use of water is mandatory for efficient and economical turf maintenance. Water used improperly, he said, contributes to weed infestation, disease incidence, loss of nutrients (especially nitrogen), and weak, easily damaged turf in general.

A sound watering program must be based on the plant's requirements, applied as needed and not necessarily on a predetermined schedule. As a matter of fact, Dr. Watson cautioned,

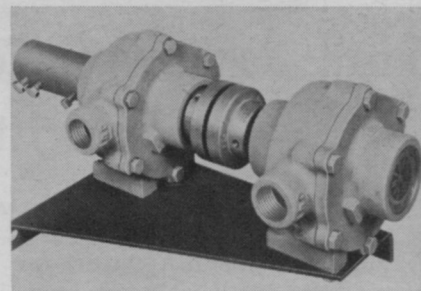
it is almost impossible to determine when and how to water the golf course where he himself plays.

Aeration is the only practical means of alleviating soil compaction, the Toro man continued in his listing of basic management procedures for turf professionals.

Aeration helps control and reduce thatch and improves water infiltration as well; it also permits deep placement of mineral fertilizer elements which do not move downward in solution as does nitrogen.

Earthworms, sod webworms, cutworms, and sometimes grubs, cause damage to turf, Dr. Watson advised the Ohioans and their out-of-state guests. Chlordane, dieldrin, and heptachlor are all effective against these insects, he added. And addition of pyrethrum to the sprays will cause the insects to become agitated, thus bringing them in contact with the long-lasting materials.

In one of the treemen's sessions, Winston E. Parker, a certified tree expert from Moorestown, N.J., told his audience that arborists can claim the honor of having the oldest profession in the world. He said that records show arboriculture was practiced in 2,000 B.C. In 1400 B.C., grafting and tree-wound healing were practiced, and in the early 16th Century, the first book on tree care was written.



This new dual pump can supply up to 30 gallons per minute with pressures up to 300 psi, says Century Engineering Corp.

Dual Pump Offered by Century

A new dual pump, Model 1581-DP, that provides a free-flow volume up to 30 gallons per minute and pressures up to 300 psi, is now offered vegetation managers by Century Engineering Corp.

The unit has two 8-nylon-roller pumps mounted in line with a 1 $\frac{3}{8}$ " PTO adapter. Adapter can be removed and pump unit operated by other power sources.

One pump can be used to provide tank agitation while the other is used to operate a sprayer, or both pumps can be utilized to operate a sprayer if high gallonage per acre is required.

Complete data on this product is available from Century Engineering Corp., Cedar Rapids, Iowa 52401.

Musk Thistle Sheet Out

Chemical control of musk thistle in pasture lands is the subject of the new Weedone LV 4 Agribulletin No. 2 published by Amchem Products, Inc., Ambler, Pa.



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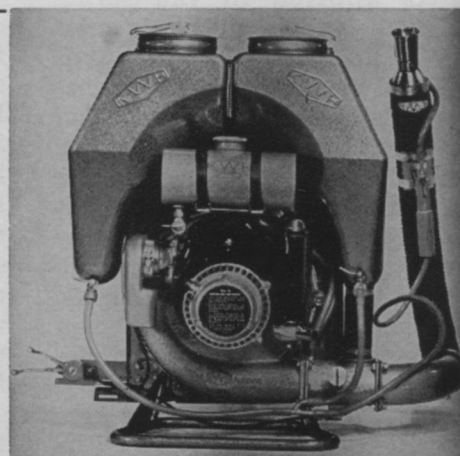
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Aquatic Weedmen Review

Nonchemical Controls

(from page 27)

ppm. After reaching that point, no more chemical will go into solution.

"To be effective, Simazine will have to be applied as an overall treatment; this is partly why our first experimental registration will be for farm ponds and hatcheries only," Flanagan disclosed.

"A hatchery has two possible treatment times," Flanagan pointed out. "Simazine can be applied to the exposed bottom at 10 lbs. per acre to control submersed weeds. Or one can apply the material directly to water, just before algal "blooms" occur, at the rate of 2 ppm per 3 acre feet (20 lbs. per acre) and achieve algae and submersed weed control."

At its annual business meeting the Society elected E. Victor Scholl, Modern Weed Control Service, Grand Rapids, Mich., as president for the coming year. Dr. Duncan McLarty, Department of Botany, University of Western Ontario, London, On-



Over the 1,000 mark! Entomologist H. B. Petty (left) and agronomist Ellery Knake (right) discussed the program for the 17th annual Custom Spray Operators Training School which this year drew over 1,000 delegates to the University of Illinois Urbana campus, Jan. 20-21. Applicator Harold Allen of Findlay, Ill., (center) offered his advice on the program.

tario, Canada, is the first vice-president representing the research phase of aquatic weed control. James Flanagan is the second vice-president who represents the suppliers and manufacturers. Secretary-Treasurer for the coming year is R. Eugene Bass, District Biologist, Avoca, Ind.

It was voted that the Aquatic

Weed Society should cooperate with the Weed Society of America Aquatic Section to produce a joint program in 1966 in St. Louis, Mo. This meeting is scheduled to be held in the Sheraton Jefferson Hotel, Feb. 6-11, 1966.

Northern California Plans First Turfgrass Exposition

An exposition which will include a symposium on methods, materials, and equipment for professional and amateur turf and garden enthusiasts, is planned for April 1-3 at the Santa Clara County Fairgrounds, San Jose, Cal.

Sponsored by the Northern California Turfgrass Council, the exposition will be held annually. This show is expected to offer something for everyone, ranging from the backyard gardener to the golf course superintendent, nurseryman, contract applicator, and the landscape architect. The latest equipment, plant materials, and chemicals will be on display.

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Dept. W.T., Green Lawn Labs.

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

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.

MANUFACTURER of a unique lawn care tool with four models that fit tractors from 7 to 50 h.p., is looking for sales representatives to sell dealers in certain territories. Write Viking Mfg. Co., Manhattan, Kansas 66503.

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.

Alco Introduces "Weed Out"

A new granular soil sterilant said to effectively prevent regrowth of weeds and grass for several years, is the newest product of Alco Chemical Co., Artesia, Cal.

Called "Weed Out," the product can be applied either in its granular form or dissolved in water and used as a spray. In either case, rain or sprinkling is necessary to carry the sterilant to the root zone for final killing action.

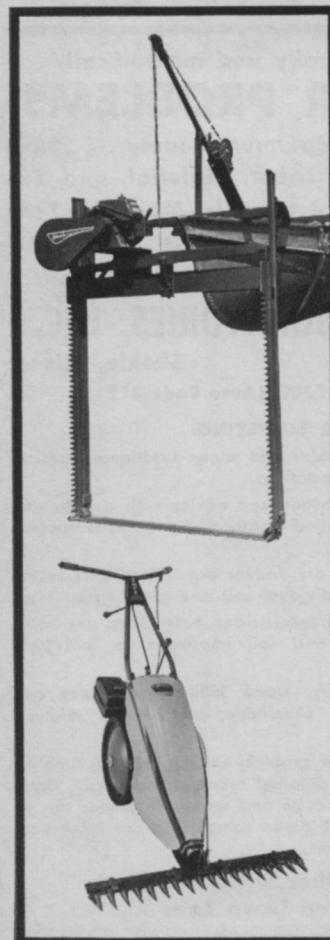
Interested readers may obtain further details by writing the company.

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New Underwater Weed Mower

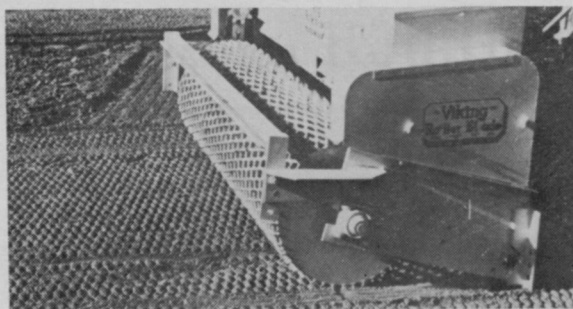
- ★ Clears a 42" wide swath
- ★ Easy to mount on standard rowboats
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Monarch Sickle Bar Mower

- ★ Self propelled, 3 H.P. Model
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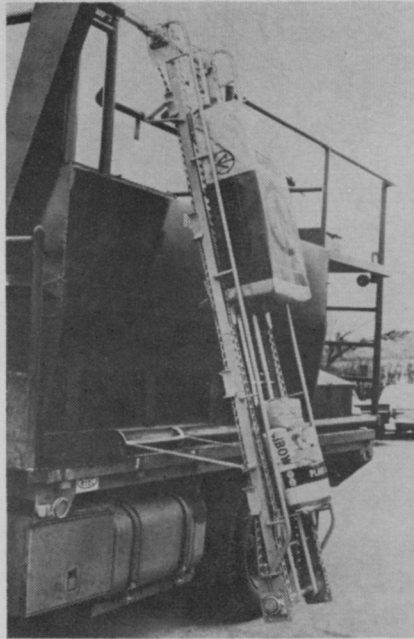
Poison Plant Guide Published

A 23-page, quick-identification guide of common poisonous plants of the Northeast was issued recently by the Public Health Service, U. S. Department of Health, Education and Welfare.

Titled "Common Poisonous Plants of New England," the booklet is illustrated with color photographs to help identify poisonous plants that grow in many gardens and countryside. Most of the plants also grow in areas other than New England.

The guide includes basic information for physicians on how to treat the toxic effects of the plants illustrated. It also lists Poison Control Centers in the New England area and their telephone numbers.

"Common Poisonous Plants of New England," Public Service Publication No. 1220, is available for 35 cents from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.



This automatic loader sharply reduces time required to load Hydro-Mulcher. It also eliminates need of additional men for this work.

Bowie Has Automatic Loader

A new automatic loader to speed Hydro-Mulcher loading time has been perfected by Bowie Machine Works, Inc. This unit, called Swif-Lift, may be specified on all new Hydro-

Mulchers as auxiliary equipment, or it may be added to present Hydro-Mulchers.

The loader is driven from a power takeoff and is built for continuous service. One size Swif-Lift fits all models. With this new unit, operation of Hydro-Mulchers can easily be accomplished with two men, Bowie maintains.

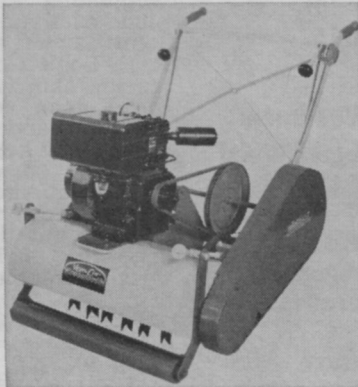
Illustrations and other details may be obtained by writing for Bowie Swif-Lift Bulletin, Bowie Machine Works, P.O. Box 630, Bowie, Texas.

Weed Studies Available

A series of studies on nutgrass, yellow foxtail, giant foxtail, quackgrass, and horse nettle are available from the Agricultural Experiment Station, University of Rhode Island, Kingston, R. I.

Each of the weeds is represented as a complete study published under the general title "Life History Studies as Related to Weed Control in the Northeast."

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Verti-Cut®

Vertical cutting blades of the VG-2 Landscape Verti-Groove slice into turf to remove thatch and excess lateral growth. Water, fertilizer, chemicals reach soil surface.



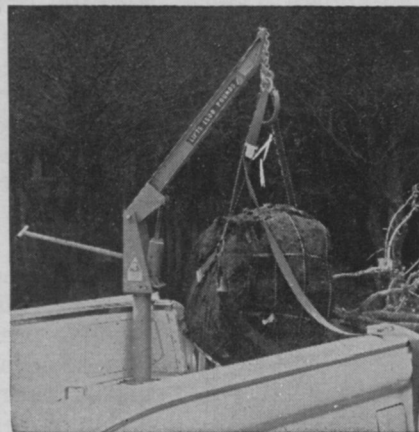
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The J-4 Jr. Dial-a-matic fertilizer spreader features a highly accurate metering and spreading mechanism, says Tyler Mfg. Co., Benson, Minn. Said to be ideally suited for use in orchards, on truck farms, sod plantings, golf courses, and parkways, this unit features a ground-driven, stainless-steel conveyor to assure uniform spreading regardless of speed.

Tyler Introduces New Fertilizer Spreader

A new 2-wheel trailer spreader with 1-ton load capacity has been introduced by Tyler Manufacturing Co., Inc. Capacity can be increased to 2 tons with box extensions.

Named the J-4 Jr. Dial-a-matic, the PTO-drive spreader features a highly accurate metering and spreading mechanism used for the well-known Tyler 4-ton pull-type spreader.

Relatively light weight on full-size tires provides superior flotation, the company says. Low profile and short coupling give tight turning radius, making it easy to apply fertilizer where it is needed in areas which are normally hard to reach with bulk spreading equipment.

The patented metering dial is easy to set for exact pounds of fertilizer per acre to meet soil requirements, it is reported. Twin 12-inch angled distributors deliver a uniform 30-foot spread pattern. The stainless-steel, heavy-duty conveyor is ground driven to assure uniform distribution regardless of speed. Field operating speeds range up to 12 mph.

The company adds that this unit is ruggedly built for general-purpose service wherever a compact, high-performance

spreader is needed. Solid axle and Timken bearings with heavy-duty hubs is another feature of the J-4 Jr. It is capable of high-speed highway travel.

Further information about the Tyler J-4 Jr. Dial-a-matic is obtainable from the company by writing to Sherman Kavanaugh, sales manager, Tyler Mfg. Co., Inc., Benson, Minn. 56215.

Kosesan Heads Ore. Weedmen

Delegates to the Oregon Weed Conference, held recently at Salem, elected Bill Kosesan president for 1965. Kosesan is associated with the Oregon State Department of Agriculture, Salem.

Assisting him in future guidance of the organization are: Paulene Kaseberg, grower, Wasco, vice president; Rex Warren, Oregon State University, Corvallis, secretary; and Clark Amen, American Cyanamid Co., Corvallis, treasurer.

Diamond Adds Phenoxy Plant

Expanded facilities for the production of phenoxy herbicides at Diamond Alkali Company's Newark, N. J. plant are nearing completion, according to John S. Cort, Jr., general manager, Agricultural Chemicals Division, Cleveland, Ohio.

Arborist Acton Retires. After 27 years with the Asplundh Companies, Daric Acton has retired. He was regional manager of Asplundh's Pittsburgh office, from which he directed Asplundh activities in the entire Western Pennsylvania Division. A family man through and through, Daric was assisted in recent years by his son, Gareth, who for the past several years was chief of field operations, and who now takes over as regional manager! Daric, at the time of his retirement last June, was Asplundh's senior vice president. His wife Sally, long a staunch supporter in her husband's career, will share the retirement days with her husband. We congratulate the entire family on their many years of service!

* * *

Paving the Way! A versatile weed controller in Diablo, Calif., Mac D. Osburn, is a well-known contract applicator in West Coast circles who's been in the business for a long time. In addition to his industrial and commercial weed control jobs, Mac also offers prepavement control to prevent weeds from disrupting the roadways and parking lots of the nation's fastest growing state. Our reporters had a chance to benefit from veteran Osburn's comments during the recent California Weed Conference in Fresno.

* * *

Flying High. Anyone who's had any frightening experiences with airplane trips recently should talk with John Vawter, sales engineer for the R. H. Bogle Co. in Alexandria, Virginia. John was reactivated during the Korean conflict a number of years ago and tells how he and his flight crew kept running out of gas over the same spot while flying practice missions. Actually a crewman tended to forget to switch tanks in time, but the interim aloft with sputtering engines tops most of our tales of trouble in the air!

* * *

Water Wonder. On hand for the recent Aquatic Weed Control Society Meeting in Chicago was Dave Sheridan, who, with his father Robert, runs an aquatic weed abatement service in Dover, N.J. In addition to out-and-out contract jobs, Dave and his Dad offer consulting services for people with water weed problems. Unusual to find a father and son team in such a relatively new business? We would think so, although readers may know of similar instances??!

* * *

Neighbor from the North. Delegates to the recent International Turf-Grass Conference and Show in Cleveland included at least one contract applicator from Canada. He's Jack Cliff, of General Lawn Spray, Ltd., in Downsview, Ont. Good to have a chance to welcome our good neighbors to this side of the Great Lakes!

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