

Capsule News Summaries . . .

United States Gypsum Company has developed a granulation process for gypsum to be used primarily in the formulation of gypsum based agricultural products, including soil conditioners, sulfur fertilizers and pesticides. For the first time gypsum or gypsum-additive mixtures can be formed into granules of any size. The announcement was made by James S. Brinckerhoff, general manager of U.S.G.'s Chemical Division.

Ford Motor Credit Company has announced a new tractor and equipment Residual Value Lease Plan—offering lower payments and longer terms—available through Ford Motor Company tractor dealerships. "Many customers need equipment for intermediate to long periods but, for a variety of reasons, their needs are filled better by leasing than by owning the needed equipment," Says Edward C. Nevergold, executive vice president—North American Sales Financing Operations. "Ford Motor Credit Company's new Residual Value Lease Plan offers customers lower lease payments, and a wide variety of repayment options."

Automated trademark searches made from a computerized data base containing all 750,000 trademark registrations and applications in the U.S. Patent Office, are being offered by TCR Service, Inc., 2001 East Fourth Street, Santa Ana, Calif. This service helps determine whether the right to a proposal mark has been pre-empted by prior use or by registration of a substantially similar mark. These searches should be conducted before adopting a trademark to minimize the risk of advertising and promoting a pre-empted mark. A search of the TCR data base with written comprehensive report can be requested for any single name at a cost of \$32.00.

The U.S. Department of Labor has suspended the effective date of a requirement regulating farm worker exposure to pesticides. The emergency temporary standard was scheduled to take effect Monday, June 18. It will be issued at a later date. The Department's Occupational Safety and Health Administration (OSHA) issued the original standard on May 1. Among other things, the standard set time limits for re-entry into growing areas treated with certain chemicals.

Scientists at the agricultural experiment station of the University of Minnesota, St. Paul, will study methods for the application of sewage sludge to land under a cooperative agreement with the U.S. Department of Agriculture. The department's Agricultural research service will provide \$35,000 for this one-year study. The Metropolitan Sewer Board, St. Paul, Minn., and USDA's soil conservation service will cooperate in the study. The objective of this cooperative study is to develop safe, efficient and practical methods of applying sewage sludge to land while controlling pollution of surface and ground waters through a program of total water management.

Zonyl Fluorosurfactants Developed By DuPont Co.

The Du Pont Company has developed a new family of fluorosurfactants with properties which it described as "far superior to those of nonfluorinated surfactants."

The line of Zonyl fluorosurfactants consists of six products, five in liquid form and one solid. Anionic, cationic, nonionic and amphoteric materials are available. High effectiveness at very low concentrations (0.005 to 0.1 per cent), excellent stability in adverse thermal and chemical environments and greater surface tension reduction than other surfactants are the major attributes of the new product line.

The liquid products offer ease of handling and the broad product spectrum permits selection of those types with best combinations of chemical compatibility, physical properties, surface activity and economy.

Agricultural applications are expected to include the use of the new products as wetting agents for powders or other agrichemicals used in foliar sprays and as corrosion inhibitors for chemical applicators.

Manufacturers interested in evaluating the new products may write on company letterhead for full technical information to Fluorosurfactants, E. I. du Pont de Nemours & Co., Inc., Room 23547, Wilmington, Del. 19898.

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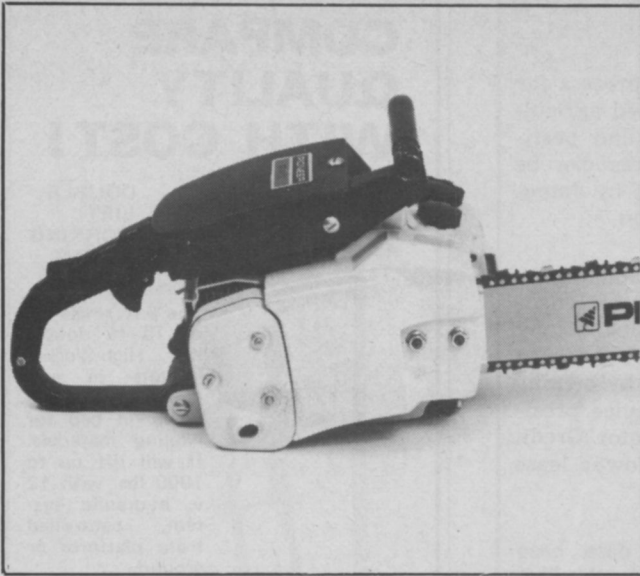
Low cost 12 v. hydraulic powered tailgate matches truck bed when closed. Heavy duty, 28" x 65" non skid steel. Mounts under truck frame for greater clearance.

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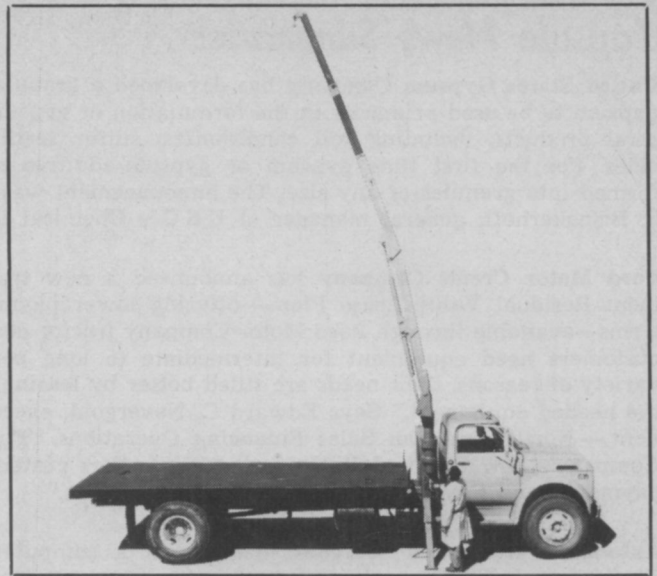
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3333 Main Dept. WT Parsons, Kansas 67357



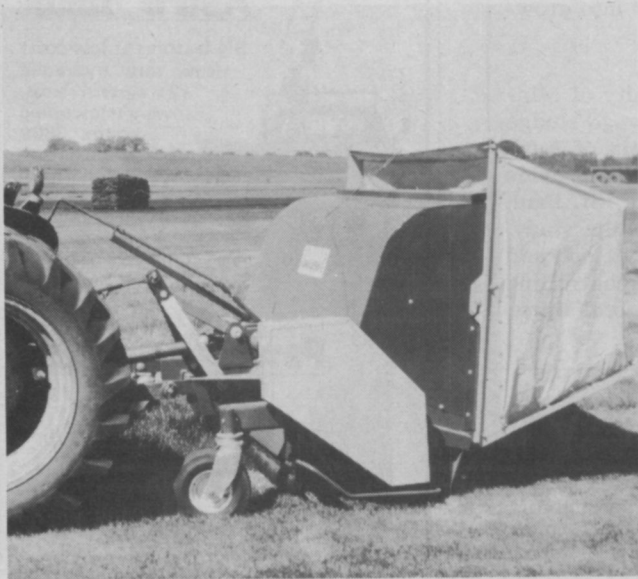
ANTI-VIBRATION SYSTEM: Pioneer Chain Saws, Div. Outboard Marine Corporation

The P40 chain saw is new to the professional chain saw market. It has an anti-vibration system that really works, according to the manufacturer. Six shock mounts keep vibration effectively from getting to the operator. In addition, saw has extra baffles in the spark arresting muffler to keep exhaust noise levels at a minimum. Other features include: a gas tank isolated from heat, a patented Posi-Lube guide bar that delivers constant lubrication to the chain and bar plus an adjustable, positive placement, automatic oil pump and an engine that develops more than one Hp per cubic inch. For more details, circle (701) on the reply card.



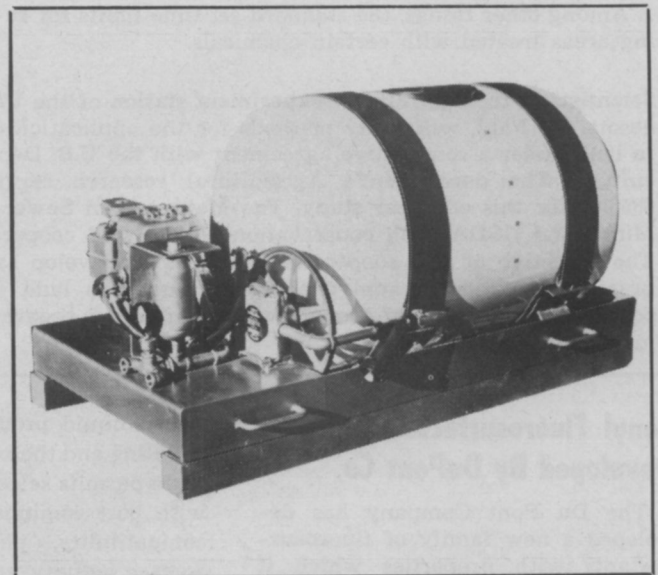
KNUCKLEBOOM: Cascade Corporation, Portland, Ore.

Here's a new truck-mounted folding knuckleboom that takes less than two feet of space between the bed and cab of a truck. It can be operated by one man. Three different models are available. Model 10C is rated 3000 pounds at a five foot radius from the side of the truck. Model 30C has a 5000 pound rating at five foot radius and the rating of the Model 50C is 8250 pounds. Maximum reach with optional hydraulic and manual extension is over 35 feet horizontally and 43 feet vertically. Other features include: dual controls, double acting cylinders, and more. For more details, circle (702) on the reply card.



LAWN GENIE: Mathews Company, Crystal Lake, Ill.

This is a bigger model to accompany an already successful smaller unit. It's a six foot wide, PTO-driven flail mower (model L-72G) that also has a 34 bushel capacity sweeper. Ideal for sod growers who pick up clippings. Also, can be used in other commercial turfgrass areas. Operator can empty the hopper without ever leaving the tractor seat. Unit attaches to tractor via three-point hitch. Flail mower is equipped with patented rotor and free-swinging knives. Accessories include a leaf-mulching screen which mounts on the mower's frame under the rear cover. For more details, circle (703) on the reply card.



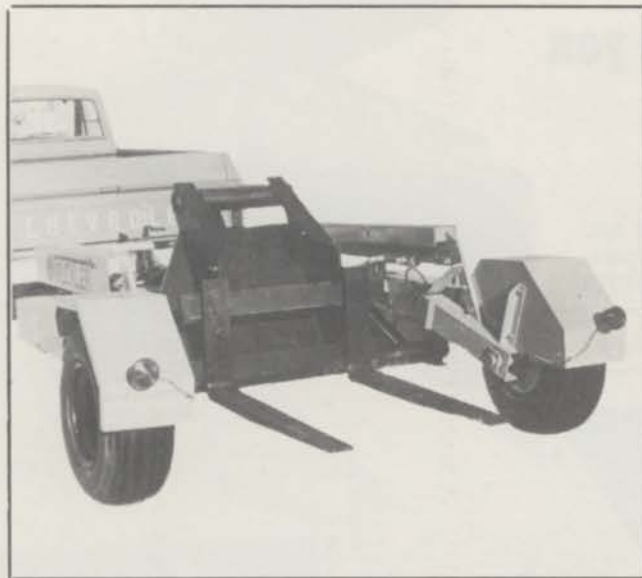
SPRAYER UNIT: Edwards Manufacturing Company, Ponca City, Okla.

Series 6700 sprayer is a versatile, dependable unit for medium-sized spraying operations. Unit is equipped with a five Hp air-cooled engine that delivers 7 gallons per minute at 400 PSI. A dependable twin-piston pump provides a surplus of power at low RPM which adds to the operating life of the machine. Sprayer is available with a 100, 200 or 300 gallon tank. It is skid mounted or may be mounted on any one of four different trailer packages. For more details, circle (704) on the reply card.



FOAM SEAT: Logan Metal Stampings, Inc., Akron, Ohio

Most people after sitting on a tractor seat for a day are ready to find a more comfortable location. Not with the Foamhide-A seat. Unit is made from a micro-cellular urethane compound that is sprayed into a textured mold to form the "side" of the seat. Urethane "cold foam," similar to that used for automotive seats, is then poured into the closed mold, and the entire unit is cured. Result? A seat which is a virtually wear-proof, elastomeric skin, firmly bonded to the foam. Thickness and density are easily controlled. Company logos may be molded into the seat. Many colors are available. For more details, circle (705) on the reply card.



FORK-LIFT TRAILER: Truckler Div., Harvestall Industries, Inc., New Hampton, Ia.

This unit is designed for pallets and boxes. Should be ideal for the sod grower or installer to move pallets to the job. Back up trailer to the load, pick it up and away you go. Load dimensions of 51 inches wide and up to 12 feet long. Hydraulic cylinder raises and lowers forks. Unit can be easily pulled behind a pickup truck. Capacity is 5,000 pounds. For more details, circle (707) on the reply card.



BROMOSAN SYSTEMIC TURF FUNGICIDE: W. A. Cleary Corporation, Somerset, N.J.

Regular use of this new product will give superior year-round prevention and control of all major turf diseases, according to the manufacturer. Used as directed on tees, fairways and greens, or any fine turf area, product effectively curbs dollarspot, copper spot, brown patch, Helminthosporium, red thread, Fusarium roseum, pythium and snow mold. This fungicide is a blend of Cleary's 3336 and thiram. For more details, circle (706) on the reply card.



TURF-AUL: Stockton Specialty Vehicle Div., Otis Elevator Company, Stockton, Calif.

Here's a turfgrass equipment vehicle that has a payload capacity of 1000 pounds. It's ideal for the superintendent who must travel a course regularly. Combines the unique design of a golf cart with the versatility of a truck. Features automotive steering, diamond plate steel cargo box with stake pockets, three speeds forward and one reverse transmission, hydraulic internal expanding brakes, excellent suspension and large turf tires. Weight is just over 1000 pounds. Unit is powered by a two-cylinder, four-cycle air cooled engine which develops 18 Hp. For more details, circle (708) on the reply card.



ONE MAN, TWO COURSES

(from page 20)

grass course is aerified in the early spring and fall and needs irrigation to nurture it through droughts.

"For most turfgrass operations, you just have to tell the crew exactly what to do each time, and then supervise," Shields says. His son Glenn helps lighten the load in this regard, since he's helping finance a college degree in turfgrass management by working as his father's assistant.

Variety is the spice of life, Shields agrees. Electricity, plumbing, record keeping—and turfgrass management—are just a few of the areas he gets involved in while keeping the Woodmont grounds attractive and functional for club members. Having two courses with different management needs just adds a little more challenge to the job.

Cleary's 3336 Turf Fungicide Receives New EPA Label

Cleary's 3336 Turf Fungicide has now received registrations from the Environmental Protection Agency

for the control of 7 major diseases. They are: dollar spot, copper spot, brown patch, red thread, Helminthosporium, Fusarium roseum and pythium.

While the registration provides for all areas of the golf course, the versatility of Cleary's 3336 is unique in that many golf course superintendents report excellent results and superior color on fairways as well as greens and tees.

The manufacturer claims the new fungicide is well suited as an all-season fungicide. Packaged in 2 lb. bags.

More information is available on Cleary's 3336 from W. A. Cleary Corporation, P.O. Box 10, Somerset, N.J. 08873.

Parker Sweeper Company Publishes New Catalogue

The Parker Sweeper Company has just published its 1973 catalog of lawn care equipment. The full-color catalog offers complete details and photographs of Parker's extensive line of lawn sweepers, vacuums, blowers, and power rakes.

The 1973 catalog with detailed

specs on the entire line of Parker Lawn Care Equipment can be obtained free simply by writing to the Parker Sweeper Company, Box 720, Springfield, Ohio 45501.

Norfolk And Western RR To Promote Greenbelt

The Norfolk and Western Railway has announced plans to begin establishment of a "green belt" around its coal piers, in Sandusky, Ohio. The effort will improve the environment and beautify the Lake Erie waterfront.

Working with local soil conservation officials of Erie county, Ohio, staff members of the Pocahontas Land Corp., an NW subsidiary, will plant Austrian pines north of Monroe Street near Mills Creek.

The "green belt" is a part of the railroad's continuing ecology program. Earlier this year the 14-state carrier planted several thousand trees and seeded embankments in Norfolk, Va. Similar projects are being planned at other locations across the NW's 7,600-mile system.

The pines are being purchased from Barnes Nursery and Garden Center of Huron, O.

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711 is the perfect automatic in-field controller for large turf areas. This 11-station system features 0-60 minute control. Waters fairways, greens and tees in less than nine hours.

The ICM series offers three systems: The 12E has 12 control stations, the Dual 12E has two 12E units with two clocks, and the 24E has 24 control stations and one clock, where longer watering times are permissible.

The BR-10 delivers dependable performance at a rock bottom price for a dual program with ten stations.

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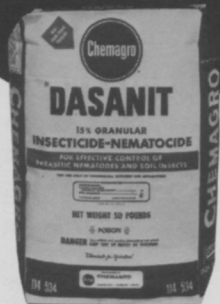
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Now it's easy to control nematodes that destroy roots, cause unexplained spotting, stand reduction of fine turf.

Simple, labor-saving control: merely broadcast ***DASANIT** nematicide, then **water-in**. One application lasts all season.



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For More Details Circle (115) on Reply Card

New Toro Distributor Located in Nashville, Tenn.

Central South Turf Distributors, Inc., a new, independent franchised distributor for the full Toro line of powered equipment for lawn and turf maintenance and irrigation, will be established in the Nashville,



CRABGRASS PROTECTION

(from page 22)

tournament time.

Schmitt went into a high maintenance program two weeks before the tournament. "We normally mow the fairways once a day, at a height of 1¼ inch," he said. "As the tourney approaches, we cut twice a day at a cut of ¾ of an inch."

The greens were also under special care. During this same period, a top-dressing program was initiated with a 1:1:1 ratio of peat, soil and sand. It takes approximately 50 yards of material to top-dress all the greens.

As Schmitt explained it, "Once the greens are top-dressed, we mow at normal heights for a week—this gives us time to get the greens cleaned up. We then start mowing at the tournament height of 3/16 inch twice a day.

"Spraying the Dacthal by helicopter was definitely more expensive than putting it on through a ground sprayer."

"But we had no other choice. It was either the chopper or the crabgrass. However, with as much rain as we had, I would never have been able to apply the material in time by

Tenn. area this month. The firm will serve the marketing area of Kentucky, central Tennessee and southern Indiana.

Stephen C. Asbury, president of the new firm, will make his headquarters in a new building (2837 Logan Street) in Nashville that has 14,000 square feet of space available for offices, service facilities, a depot for parts and irrigation supplies, as



Chopper quickly sprays this course with Dacthal to prevent germination of crabgrass. Rate of application was 16 pounds per acre.

any other method. It was a lifesaver and I'll use it again whenever the conditions merit," he concludes. □

well as for a full inventory of Toro machines and allied lines. Asbury said his company will also establish a distribution outlet in Louisville.

According to David T. McLaughlin, president of The Toro Company, of Minneapolis, the new distributorship encompasses a territory formerly served by three separate distributors: The Bill Voorhees Company, of Nashville (consumer products only); Ernest Hardison Seed Company, also of Nashville (for turf and irrigation products); and Bunton Seed Company, of Louisville (turf and irrigation products).

Asbury, who is 32, comes from Toro headquarters in Minneapolis where he has been government sales and product manager for the turf products division. He joined the company in 1965 as district marketing representative on the east coast and had since held increasingly responsible posts.

He is a native of St. Paul, Minn., and a graduate of Northwestern University where he received a bachelor of science degree in business administration in 1963. The following year he attended the University of Minnesota where he did graduate work in marketing.

Asbury is married to the former Barbara E. Scott, of Chicago.

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If your job calls for spraying, you need to know about Edwards. We have a broad line of spraying equipment that's built better than anything else on the market. Our sprayers are priced competitively and are backed by the strongest warranty in the industry.

What this means to you is dependable, economical performance.

Edwards Sprayers, mounted on skids, fit easily onto turf-maintenance vehicles or truck beds — even the compacts. Or, you can choose any of five different trailer kits. Edwards has the full range of options: choice of mountings, booms, hoses and reels. Attachments go off and on in seconds, so you can switch from one type job to another without losing time.

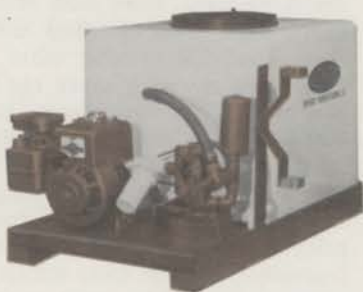
Edwards uses only fiberglass tanks because fiberglass is light, strong and won't rust. We've eliminated pulsation problems with two bladder-type accumulators — standard on all piston-type models.

When you think of sprayers, think of Edwards.



6700 SPRAYER

5-HP, 7 GPM at 400 PSI.
100, 200, or 300 gallon capacities



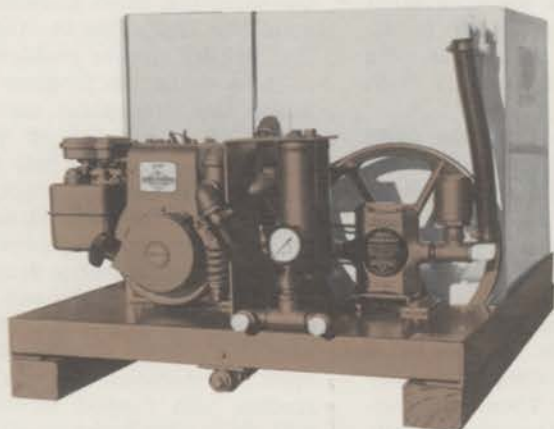
6100 and 5300 SPRAYERS

3-HP, 50-gallon models with
3 gallons per minute, 150 PSI to 400 PSI.



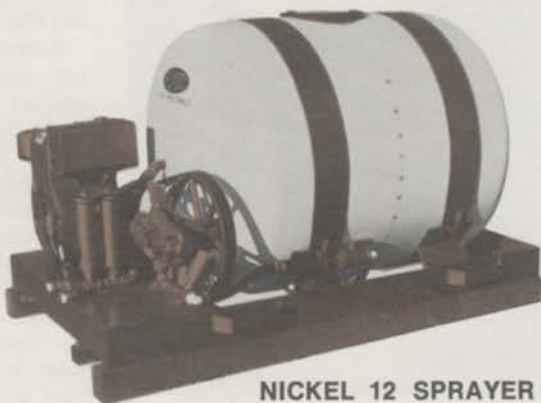
5425 SPRAYER

18-HP, 25 GPM at 600 PSI.
400 or 500 gallon models.



TURFER SERIES SPRAYERS

5-HP, 100-gallon model available with 3
different pumps producing from 7 to 40 GPM.



NICKEL 12 SPRAYER

10-HP, 12 GPM at 600 PSI.
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For More Details Circle (116) on Reply Card



Chipman Division of Rhodia, Inc. has announced Chipco Spot Kleen has been registered by EPA. The turf fungicide will control dollarshot, Fusarium blight, large brown patch and stripe smut. It is a long residual, non-mercurial, systemic fungicide that is available as a wettable powder. For more details circle (720) on reply card.

Training Courses For Mauget Products Completed

Twenty meetings, beginning in January and ending in June, have been held by the J. J. Mauget Company, Burbank, Calif. Purpose of the meetings, according to Del Kennedy, vice president, was to expose the commercial arborist to the professional approach of using and marketing Mauget tree injection products.

In all, several hundred tree company owners, landscape contractors, pest control operators, golf course superintendents and Federal, state and local officials were in attendance.

In the meetings Kennedy pointed out that Mauget products are "just another valuable tool that can be added to the services your company is already doing. We're not suggesting that the commercial operator dispose of his spray rig or deeproot feeding machine," he said.

The Mauget executive pointed out that the commercial arborist can use Mauget products on weak and declining trees, trees with restricted roots, trees with blacktop and concrete obstructions and other areas where the use of a spray rig is impractical. The advantages to this method, according to Kennedy are: no tissue removed, no chemicals outside the tree, a uniform disage distributed to all parts of the tree, application in high winds or rain and treatment of large trees which other methods cannot be used.

Among the items discussed at the meetings were the use of the 65 ml cups with Benlate benomyl fungicide as an aid in the control of Dutch Elm Disease. Those in attendance received instruction and training in order to comply with the Federal label.

Kennedy also reviewed the newest registration, Inject-A-Cide B, and its use in the control of aphids, scale insects, elm leaf beetle, red spider mite, southern pine beetle and other leaf chewing and sucking pests.

Several guest speakers were on the program in the various cities where the meetings were held. They included: Dr. W. D. Thomas, Natural Resources Management Corp. who told applicators and arborists that systemic injectors are becoming more commonplace due to environmentalist activity. Dr. Jerold Johnson of Texas A&M University explained the results of his research with Mauget injectors in the Texas area. Dr. R. V. Sturgeon of Oklahoma State University indicated

that he planned to conduct tests this year on the system.

Kennedy concluded the training courses in Boston. He said that if enough interest develops, more training sessions will be held next year.

Hort, Research Institute Studies Root Regeneration

The Horticultural Research Institute's latest project is the study of root regeneration in shade trees.

According to HRI President Evert Asjes, III, Rosehill Gardens, Inc., Kansas City, Missouri, the rate at which a transplanted tree reroots is a factor that limits the range of plant materials available for landscaping use.

"A number of excellent shade trees are difficult to move because they do not form a new root system quickly enough," says Asjes. "Recognizing this problem, HRI has provided a grant to Dr. Charles E. Hess, dean of George H. Cook College at Rutgers University."

This grant is intended to encourage investigations on the nature of root regeneration in oaks, and particularly to define the systems responsible for poor root regeneration in the pin and scarlet oak.

Dr. Choong II Lee, under the guidance of Dr. Bruno Moser of the Rutgers Horticulture Department, is conducting research on the regeneration rate in oaks seeking an understanding of the basic mechanisms that determine the ease or difficulty with which plants recover from transplanting. Such knowledge then would be applicable to other plants that exhibit similar problems.

These studies, in progress now, indicate that transplant survival depends on a number of variables, among which are the rate at which roots regenerate, the ability of the plant to tolerate water stress during the period of root regeneration, the level of plant hormone translocated to the injured roots, and the resistance of the injured roots to disease entry. Each of these factors is open to manipulation. Subsequent studies, also funded through HRI, will deal with techniques designed to enhance survival.

"The results of this research will be significant to all segments of the nursery-landscape industry," comments Asjes, "and leads to a better understanding of the root regeneration systems of shade trees, as well as possible solutions to the current transplanting problems."

When it comes to new nine-gang mowers, here's where we stand.

Meet Bob Snider, of Moon Equipment Company, the Jacobsen Distributor in Cincinnati, Ohio. He was one of the first customers for the big news in mowing tractors from Jacobsen.

The new nine-gang F20.

Like all the rest of us Jacobsen Distributors, Jacobsen had to sell him first before he takes on any new Jacobsen equipment. The reason: he's an independent businessman. That makes him a buyer before he's a seller. And that means he's convinced the new F20 will perform the way it's designed to.

For instance, the F20 is designed to get the big jobs done in a big hurry. And it does. Because it cuts a huge 19 foot swath, it can mow about 76 acres in a 8-hour day. And move between mowing areas up to 25 M.P.H.

Equipped with rear wheel steering, the F20's reels turn in the same arc as the steering wheels. The result? No skipping, no skidding, no uneven cutting in the

turns. And because the wheels are behind the mowing units, there are no wheel streaks in the straightaways, either.

It's also highly maneuverable. Gets close to bushes or buildings, in and around trees. The rugged front drive delivers sure traction on grades and sidehills. And the front mowing technique gives the operator a safe, unobstructed view of the cutting area and outboard mowers.

About versatility: all nine reels may be lowered and raised from the driver's seat with finger-tip controls. Use any combination of reels for cutting. Median strips are cut right from the roadway with an outboard mowing unit.

We also sell a seven-gang F10 mower. It works just like this new nine-gang model, and cuts a 15 foot path.

For the really big mowing jobs come and see any of us Jacobsen Distributors for the new nine-gang F20.

We're always up on the latest developments.

Your Jacobsen Distributors

Before we sell it, we buy it.



For the name of the distributor near you write: Jacobsen Turf Distributor Directory, 1721 Packard Avenue, Racine, Wisconsin 53403

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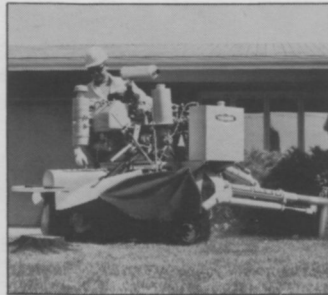
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. . . because every one of The Diggin' Dutchman's seven patented Stump Cutter models is automatic. Each unit saves you thousands of dollars every year, because one man can remove the largest stump in minutes. Out-performs, out-maneuvers, out-lasts a whole crew of laborers . . . because it operates on a tankful of gas, not a handful of expensive paychecks. Chews 'em out with a hydraulically-controlled, high-speed cutting wheel . . . faster, easier, cleaner. Write The Diggin' Dutchman for information or, better yet, call him (515/628-3141) NOW for a FREE demonstration of any Stump Cutter model. Vermeer Manufacturing Company, 7208 New Sharon Road, Pella, Iowa 50219.



THE DIGGIN' DUTCHMAN

VERMEER TREE EQUIPMENT DIVISION
For More Details Circle (121) on Reply Card



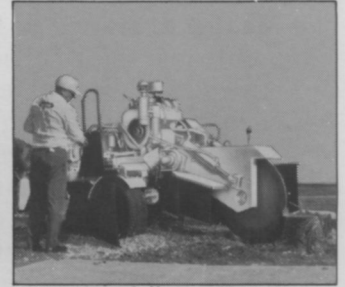
630 Stump Cutter . . . 30 hp model.



Model 10 Stump Cutter . . . 37 hp unit.



1560 Stump Cutter . . . 65 hp unit.



2460A Stump Cutter . . . 65 hp unit.

CHEMICAL FIRST AID

(from page 16)

A Herd granular applicator, mounted on the deck of an outboard powered Boston whaler, was used for application of Casoron G-10 granules.

Matching the boat speed to the application rate resulted in a uniform granule distribution pattern on water surface, granules rapidly sinking to bottom with minimum dislocation. The Casoron granule has excellent sinking qualities and, when applied on the surface, makes the same even pattern on the lake bottom.

As a result of Casoron's excellent performance in 1972, treatments were made again at Westlake in February of this year under the same application rates, methods and conditions. Dr. Jordan, of the University of California, who has worked closely with the lake project from its beginning, reports that the product does a very satisfactory job in aquatic weed control in the lake project. He believes that it is probably the best product currently available for this purpose.

Bert Dell, lake manager, who has worked with the University of California and Thompson-Hayward Chemical Company personnel, and who more than anyone else is responsible for starting the project, is satisfied with Casoron and feels that it has done an excellent job in lake weed control without disturbing the ecological balance of the lake system.

"Casoron will be used in a continuing program of control as long



End result of the treatment for aquatic weeds is shown above. Residents can now use lake without entangling motors and fishing lines in aquatic vegetation. To date over \$60,000 has been spent in managing the lake and achieving a long range, biological balance throughout the lake's ecosystem.

as it performs satisfactorily in the lake maintenance program," says Dell.

To date over \$60,000 has been spent in managing the lake maintenance program aimed at achieving a long range, biological balance throughout the lake's ecosystem. Westlake residents are helped to an understanding of this program, through their community newspaper.

They are told about the capabilities and limitations of chemical com-

pounds, recommended application procedures, effect of chemicals on aquatic life forms, and proper safeguards to insure safe and effective use of chemicals in aquatic weed control programs.

This continuing informational program, detailing the progress of the aquatic weed control project in the lake, has resulted in a common sense acceptance by the Westlake residents of the necessity for such a chemical aquatic weed control program in the lake. □