

industry people  
on the move



**Charles M. Culver**, promoted to refrigeration/air conditioning sales manager for Aeroquip Corporation. Industrial Div., Jackson, Mich. Will have marketing responsibility for all Aeroquip products in this specialized field.

\* \* \*

**Dr. Ming H. Yu**, joined O. M. Scott & Sons, Research Div., as a plant geneticist. He is a graduate of Chung-Hsing University, Taiwan, Texas A&M and Iowa State University.

\* \* \*

**Duane A. Jacklin**, named general management assistant to the Jacklin Seed Company. He has just returned from a tour of duty with the U.S. Navy in which he served as senior systems analyst for the data processing center of the Commander-In-Chief of the Atlantic Fleet.

\* \* \*

**Dan Hedglin** to service manager for Chushman Motors division of Outboard Marine Corporation. He replaces **Oscar J. Wisbey** who is retiring. Will direct service functions involving all Chushman lines of golf, industrial, turf and Trackster vehicles.

\* \* \*

**Dean M. Carpenter**, named manager, outdoor and leisure products, for Allis-Chalmers Corp, Agricultural Equipment Div. He will head merchandising, sales promotion, advertising, engineering specification development and manufacturing liaison.

**Paul L. Conner** and **C. Ben Meadows**, appointed district sales managers for Pioneer Saws, Galesburg, Ill. Conner was midwestern sales manager for Consolidated Furniture Industries before joining Pioneer Saws. Meadows is a professional fisherman and ranks among the top 20 fishermen in the nation.

\* \* \*

**Eldon Reeves**, to controller for the Turf Products Div. of the Toro Company. He was controller for NuLine Industries and division controller for the Cinch-NuLine Division of TRW, Inc. before joining Toro.

\* \* \*

**Joseph E. Testa**, appointed executive vice-president, Melnor Industries, Moonachie, N.J. He has been with Melnor since 1963.

\* \* \*

**Ken Mills**, becomes eastern regional sales manager for Rain Bird. He has been a member of the Rain Bird Golf Sales Team and has served as district manager for the N.E. United States. Will be located in Illinois.

\* \* \*

**Leo Miles**, to product manager for herbicides and plant growth regulants for Niagara Chemical Division of FMC Corporation. He will be responsible for the market development of Tandex herbicide.

\* \* \*

**John A. Wichtrich**, becomes western regional sales manager for agricultural products, Union Carbide Corporation. He was sales services manager.

\* \* \*

**James Burton Wolford**, joined Thompson-Hayward Chemical Company as agricultural sales representative. He will be located in Fayetteville, N.C.

## Cuts twice as fast as most lawn tractors, hugs the ground for hillside safety



### NATIONAL 68-inch Triplex

Mows a 68-inch swath at speeds up to 4 miles per hour, a half acre in 15 minutes.

It's a turf-professional type mower, with three powered, free-floating reels that follow ground contour. It shears grass cleanly; doesn't leave unsightly "tip burn" as rotaries often do.

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Other models from 25 to 84-inch cut.

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## Controlled-Release Chemicals May Aid In Reforestation

"Controlled-release" herbicides can accelerate the regrowth of forests. Herbicides can be effectively used in much smaller amounts than previously. The demand for wood products is projected to increase by 130 percent during the next 15 years.

These were the findings of three scientists of the University of Washington. Drs. R. M. Wilkins, G. G. Allan and Chetan S. Chopra, senior research associate in the Uni-

versity of Washington's College of Forest Resources, Seattle, reported their studies during the 163rd national meeting of the American Chemical Society in April.

According to Chopra, herbicides are "locked" into such substances as bark, crab shells, or lignin, which decompose slowly, releasing low levels of the herbicide to the soil over an extended and predictable period of time.

Substantially smaller amounts (a factor of 10 to 100) of herbicides are introduced into the environment by this method, compared to previous

ways of applying herbicides, he said. The herbicide is allowed to penetrate and link chemically to the bark. Therefore, the chemical cannot volatilize or be leached from the material.

"After one growing season, weed levels in a newly planted Washington State forest were down threefold and the growth of the treated conifer seedlings was twice that of untreated seedlings," Chopra told attending pesticide chemists.

"Controlled release combinations of bark/herbicide at specific application levels did not damage Douglas fir seedlings and yet had the capability of eradicating established and undesirable Western red alder seedlings whilst simultaneously inhibiting weed seed germination and growth for one entire growing season."

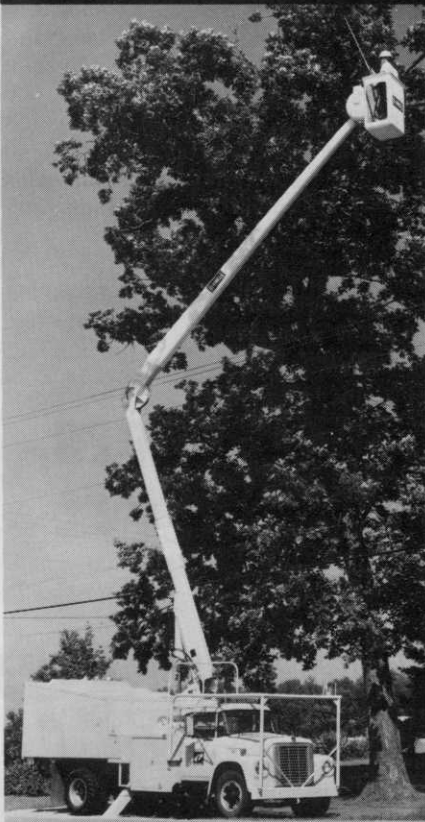
He pointed out that although there are more than 500 million acres of commercial forest lands in the U.S., one-fifth is currently covered with brush or small trees or inferior quality and could be made more productive by reforestation with conifers.

"One of the problems of such endeavors is provided by the rapid invasion of conifer plantations by fast-growing deciduous brush which in the Pacific Northwest is typified by Western red alder and vine maple. These deciduous plants, and their counterparts elsewhere regionally, tend to crowd and overshadow the conifers during their first five to ten years of growth and provide root competition for water and nutrients for many further years. The deleterious effect of this competition is further exemplified by the 50 percent loss in merchantable timber," he said.

The elimination of brush presents many problems, however. Wildlife that depends on brush for survival may be forced to forage more intensively on the tree crop. Commercially available herbicides are not clearly selective to brush. And herbicides may be ecologically undesirable. Water pollution problems may arise.

"To solve these and other forest pest management problems, new and more sophisticated methods of control will have to be developed and the approaches taken at the University of Washington are based upon the concept of controlled release pesticides," he said. "These materials are chemical or physical combinations of known and established pesticides with macromolecules such as bark, kraft lignin and crab shells, he said.

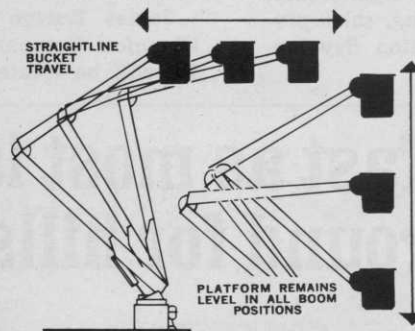
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*. . . that's needed for safer, more productive tree trimming and line clearing.*

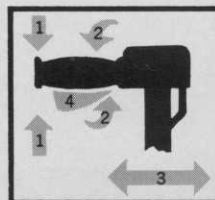
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## TURF INSECTS

### RANGE CRANE FLY (*Tipula Simplex*)

CALIFORNIA: Females infested pastureland at Modesto, Stanislaus County.

### WESTERN TENT CATERPILLAR (*Malacosoma californicum*)

OREGON: First instar larvae on bitterbrush at Mt. Vernon, Grant County.

## TREE INSECTS

### NANTUCKET PINE TIP MOTH (*Rhyacionia frustrana*)

OKLAHOMA: Over-wintering generation emergence complete and adults on young pines in Latimer County.

### EASTERN TENT CATERPILLAR (*Malacosoma americanum*)

SOUTH CAROLINA: Webs 2 per tree on wild cherry in Sumter, Richland, Lexington, Calhoun, Dorchester, and Colleton Counties. First of season. NORTH CAROLINA: Webbing noted in Wake, Columbus, Bladen, and Brunswick Counties. MARYLAND: First larvae of season on wild cherry in Montgomery and Prince Georges Counties. TEXAS: Medium to heavy on wild plum throughout Brazos and Madison Counties. ARKANSAS: Hatched in northwest areas about March 5, and about February 27 in south areas. MISSISSIPPI: Larvae on cherry trees in southern half of State.

## CONIFER SAWFLY

(*Neodiprion taedae linearis*)

ARKANSAS: Hatch began in south areas February 28. Weather conditions favored larval feeding and development. Third to fifth instar larvae present. Feeding damage not yet serious. Numbers sufficient to cause defoliation in local areas. Activity began about 2 weeks earlier than normal.

## PINE TUSSOCK MOTH (*Dasychira plagiata*)

MINNESOTA: Surveys indicate population collapse in east-central areas; this jack pine area scheduled for controls in 1972.

## GALL MIDGE

(*Taxodiomyia cupressiananassa*)

INDIANA: Specimens collected from bald cypress in Vanderburgh County during October 1971. This is a new state record. Specimens collected in Posey County during November for a new county record.

## WEEVIL

(*Phyllobius oblongus*)

MAINE: Specimens reported at Hampden, Penobscot County on June 17, 1971. Adults feeding on newly planted Norway maple. This is a new State record.

## MARAGRODID SCALE (*Kumania quercus*)

CALIFORNIA: Specimens collected from oak at Napa, Napa County for a new county record. This scale collected for first record outside Asian Continent in 1965 at Monticello Dam in Yolo County.

## SOUTHERN PINE BEETLE (*Dendroctonus frontalis*)

ALABAMA: Heavy localized infestations destroyed about 10 acres of pine in Marengo County.



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each beam. These sturdy bridges have a maximum vehicle load limit of 2500 pounds or 15 persons.

They are available in 3 and 5-foot widths with lengths of 8, 12, 16 and 20 feet. You have a choice of a wooden railing (as shown above) or a chain and steel post railing. Write for complete details and specifications on the Porta-Span® bridge. Free, descriptive literature available upon request.



## STANDARD MFG. CO.

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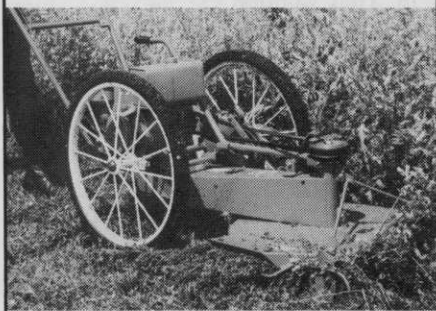
# Cuts Heavy Growth, Weeds 2-3 Feet High, With Enclosed Blade!

**MOWS LAWNS VELVET SMOOTH**

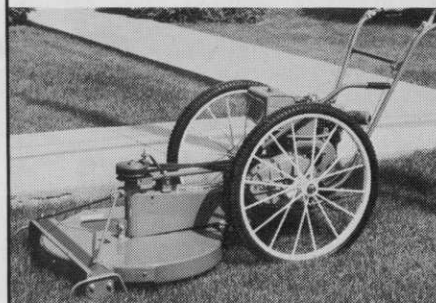
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**ROOF VP-75** cuts tall weeds, heavy growth 2 to 3 feet high, with covered cutting blade. Without clogging blade housing. Exclusive, patented Variable Pitch makes it possible. Variable Pitch enables you to change the angle at which blade strikes growth. Go from cutting tall weeds to mowing show place lawns by simply changing blade angle.



By tipping front of blade downward (crank furnished), trailing end of blade tips upward over cut debris. Blade housing won't clog, growth is cut clean, not trampled.



Flatten angle of blade for mowing fine lawns. Cutting height adjustments from 1" to 4".

Rugged construction, simple maintenance, easy operation. Choice of swivel caster front wheels (top photo), or runners. Operators cart optional.

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Mounted on a 3-point hitch hydraulic system, the machine can be lifted out of the ground or set to any desired depth. Shown here are the coulter, the nematocide pipeline just behind it and the packing wheel. Just above the coulter is a 350 pound weight. A similar weight is on the opposite side.

## INJECTION (from page 20)

who desires to do the job himself. A custom applicator can pro-rate equipment investment costs over many jobs and charge less. Another plus for custom application is the supervision by technical and experienced personnel.

How do golf superintendents feel about nematocide injection?

"We applied a nematocide at the Ormond Beach course with excellent results," says Russell. "Then the superintendent moved to another course. He called me to apply nematocide on 80 acres of that course. He said he had saved many times over the cost of the application."

Russell formulated the first batch of Nemagon to be sold in Florida about 20 years ago. Pursley Sod Co., St. Petersburg, purchased a shipment and used it on newly established zoysia lawns in the area as a surface drench.

"At first we thought the problem of turf nematodes had been solved but as time went on it was rather apparent that surface drenches of Nemagon were inefficient," he notes.

"Though good results have been obtained by drenching small areas, there were many failures showing up because of insufficient drench, buffering action of organic matter present and insufficient vertical

penetration."

Other turfmen have tried injecting nematocides into irrigation lines for application to large areas with varying results. Russell points out that failures can usually be attributed to the high chemical loss by evaporation from the water droplets before they fall to the surface and penetrate the soil.

He said some tests have demonstrated as much as 50-75 percent nematocide loss from sprinkler irrigation systems.

As early as the late 40's, Drs. Perry and Christie, then with the USDA in Sanford, Fla. found that many turf problems in central Florida were caused by one or more species of plant parasitic nematodes.

Shortly after, but before Nemagon was registered, Dr. Perry experimented with injecting D-D soil fumigant into turf soil. There was some phytotoxicity at the point of injection but this disappeared and the turf responded favorably.

Russell said unfortunately this method of injecting nematocides into the soil was never tried commercially and was subsequently overlooked. The veteran nematocide expert says there is no reason why turf equipment can't be developed for home lawn injecting. "We are now working along these lines and hope to have equipment available soon."



## Aquatic Weed Program Set For July 9-12

Industry people concerned with aquatic weed control will meet July 9-12 at Miami, Fla., for the annual meeting of the Hyacinth Control Society. The Society is dedicated to control of all noxious weeds.

The program will include a field tour of the Aquatic Research Laboratory at Ft. Lauderdale. This lab is an arm of the USDA Agricultural Research Service, and has experienced considerable growth and change within the last two years.

Formal phases of the program will include technical papers on aquatic weed control and water management by leaders in the field. A special program is also planned for both wives and children.

Headquarters will be the Miami Springs Villas—Kings Inn, Miami. Reservations can be made directly with the hotel and convention rates are \$14.50, single or double.

Traditionally, the Society welcomes non-members and extends a special invitation to anyone interested in this phase of the weed control industry. All types of aquatic weed control are featured on the program, including chemical, biological, and mechanical.

More details are available from Society president, Robert J. Gates, Box 508, Floral City, Fla. 32636.

## Penn State Fertilizer Tests Indicate Good Results

IBDU, a synthetic organic turfgrass fertilizer being tested on experimental plots, has produced good results, both in grass vigor and green color, says Dr. Donald V. Waddington, associate professor of soil science at Penn State.

He believes that IBDU is a useful addition to the list of slowly available nitrogen products for long term maintenance of turfgrasses. IBDU is available commercially, both as a single material and as a component in other turfgrass fertilizers.

As a synthetic organic fertilizer, IBDU dissolves very slowly in water, making its nitrogen available over several months. Two applications per year, spring and fall, should give uniform growth response and color throughout the growing season, Dr. Waddington claims.

Introducing a New Era  
in turf maintenance...

# Myers new TurfLine Sprayers



This is the TL10ETMG, headliner of the new Myers TurfLine Sprayers. It's designed specifically for eliminating weeds, fungus and insects. It also reduces labor, saves time and lets you get on with other work. If turf, shrubs and trees are your responsibility, it'll pay you to look at this one. It includes features like these:

- Hi-flotation tires for minimum ground compaction. Distributes weight evenly for a smooth ride over all kinds of terrain.
- Adjustable fast hitch makes it usable with tractors and carts.
- Molded fiberglass tank (100 gallon capacity) has prop-type agitator and built-in sight gauge.
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- Boom covers 15-foot spray swath, uses nylon, drip-proof diaphragm check nozzles, folds and stores on built-in arresting hooks.
- Has convenient hose connections for high pressure spray gun work.

Thoroughly field proven, this unit has already shown people in all parts of the country how to handle their grounds maintenance jobs efficiently and economically. Shouldn't you look into this one now? See your Myers TurfLine Dealer or write today for our new catalog.

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All Pioneer saw chain carries an unconditional guarantee against faulty workmanship and materials. Warranty is not applicable for any damage caused by misuse or if filing and maintenance instructions are not followed.

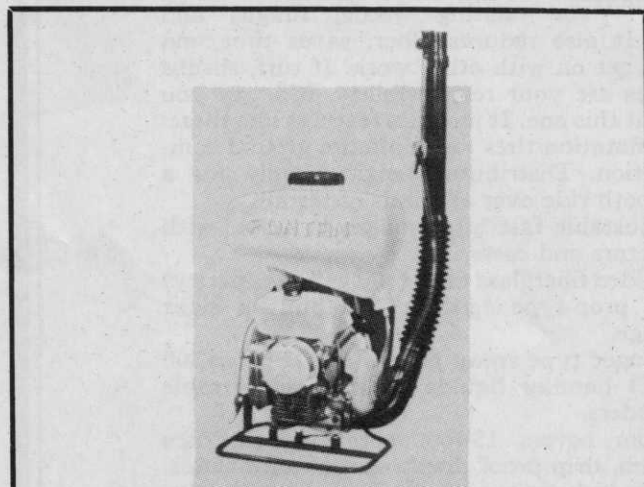


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The standard unit is delivered from the factory assembled and ready for spraying. The newly designed solution tank is always completely emptied, making cleaning easy. The engine with blower is mounted on flexible bushings so that no engine vibrations are transmitted to the carrying frame.

**Output:** From a half pint to a half gallon per minute at 40 to 80 microns.

**Range:** Up to 40 feet . . . Heights up to 30 feet using interchangeable PVC jets.

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## meeting dates

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

**Sub-Tropical Turfgrass Trade Show,** Deauville Hotel, Miami Beach, Fla., May 7-10.

**Florida Nurserymen & Growers Association,** Walt Disneyworld, Orlando, Fla., May 25-27.

**International Vehicle and Highway Safety Conference,** in conjunction with the **United States International Transportation Exposition (TRANSPO 72),** Sheraton Park Hotel, Washington, D.C., May 30-June 2.

**Forestry and Wildland Resource Institute,** 5th annual, for high school students interested in careers in forestry, wildlife, fisheries and outdoor recreation, Virginia Polytechnic Institute and State University, Blacksburg, Va., June 11-17.

**Watersheds in Transition, a national symposium,** Colorado State University, Ft. Collins, Colo., June 19-21.

**National Golf Foundation Western Seminar,** Sunriver Lodge, Sunriver, Oregon, June 26-30.

**American Association of Nurserymen,** Statler Hilton, Washington, D.C., July 16-19.

**Society for Economic Botany,** 13th annual, University of Mississippi campus, University, Miss., July 30-Aug. 2.

**National Golf Foundation Eastern Seminar,** Pine Needles Country Club, Southern Pines, N.C., Aug. 7-11.

**Rutgers Turfgrass Research Day,** College of Agriculture, College Farm Road and Dudley Road, New Brunswick, N.J. August 10.

**International Shade Tree Conference, Inc.,** 48th annual, Newporter Inn, Newport Beach, Calif., Aug. 13-17.

**American Association of Nurserymen Management Seminar,** Syracuse University campus, Aug. 13-18.

**Canadian Parks/Recreation Association,** 1972 conference, Ottawa-Chateau Laurier Hotel, Aug. 14-17.

**Eastern Kentucky Turfgrass Field Day and Conference,** Powell Building, Eastern Kentucky University, Richmond, Ky., Oct. 10-11.

**Turfgrass Equipment and Materials Educational Exposition,** 12th annual, Southern California Turfgrass Council, Brookside Park, Pasadena, Calif., Oct. 11-12.

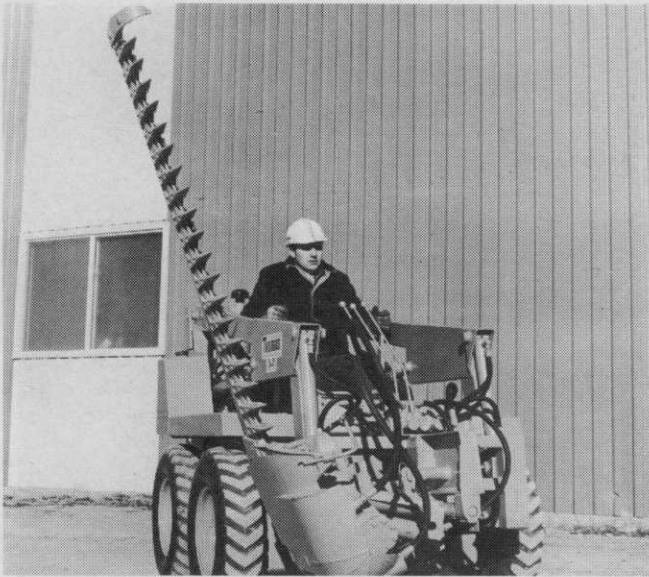
**Missouri Lawn and Turf Conference,** 13th annual, Ramada Inn, Columbia, Mo., Nov. 7-8.

**Ohio Turfgrass Conference and Show,** Franklin County Memorial Building, Columbus, Ohio, Dec. 12-14.

**Golf Course Superintendents Association of America,** 44th annual International Turfgrass Conference and Show, Boston, Mass., Jan. 7-12.

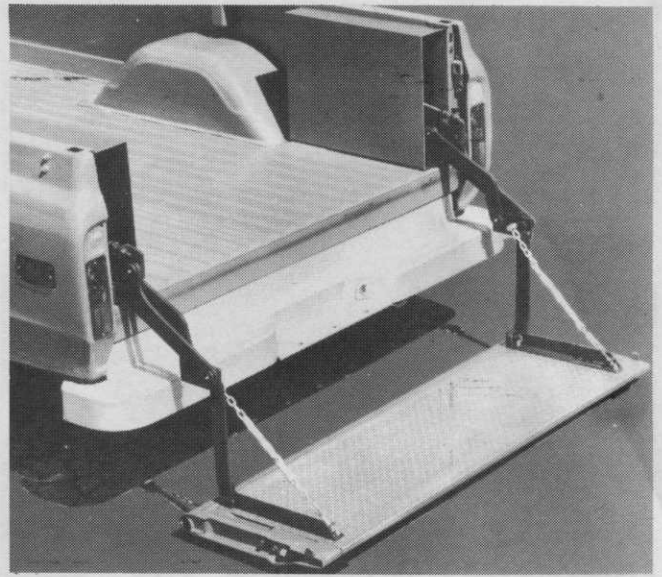
**Southern Weed Science Society,** 26th annual meeting, Jung Hotel, New Orleans, La., Jan. 16-18.





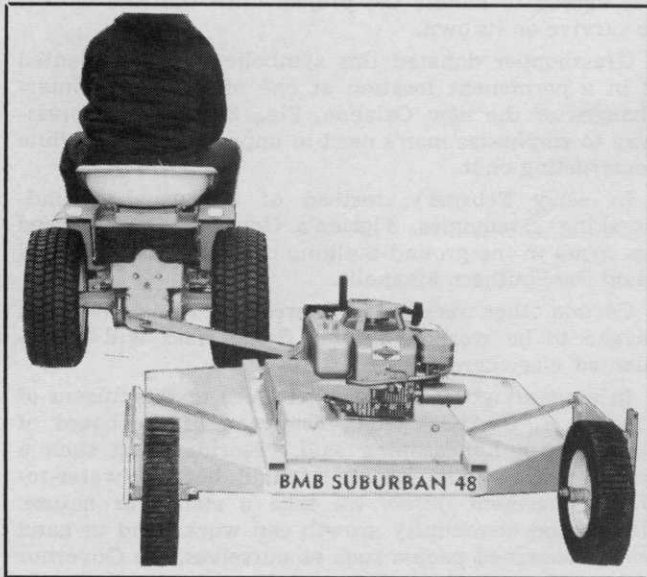
**MOWER ATTACHMENT:** Thomas Equipment Ltd., Centreville, New Brunswick, Canada

Convert the Thomas S/S Loader into a mower with this sickle bar attachment designed for all applications of grass cutting. Available with cutterbar lengths of five, six and seven feet, the operating range of the cutterbar is from minus 75 to plus 90 degrees. The sickle bar can be depressed below the loader level to cut ditches, banks and other hard-to-reach areas. The mower also trims hedges both horizontally and vertically. Mower is powered by a heavy duty reversible hydraulic motor with a built-in relief valve. Cutterbar is protected by heavy duty guards and the knife is made of three inch underserrated sections. For more details, circle (709) on the reply card.



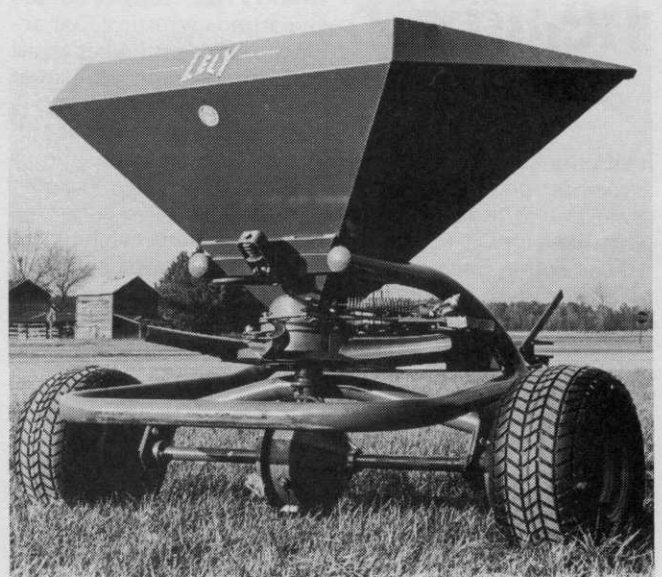
**ELECTRIC-HYDRAULIC TAILGATE:** S & H Industries, Inc., Cleveland, Ohio

Designed to mount on standard half-ton and three-quarter-ton pick-up trucks, the Keysco-Matic Electric-Hydraulic Tailgate does not change the original styling of the truck. It utilizes the original tailgate with full rear view for safety. Truck battery powered, it is built to handle loads up to 1,000 pounds. No body or frame modifications are necessary. Installation is simple. Non-slip, Diamond Steel lift plate, all hoses and fittings are included. For more details, circle (710) on the reply card.



**TRAILING MOWER:** BMB Company, Inc., Holton, Kans.

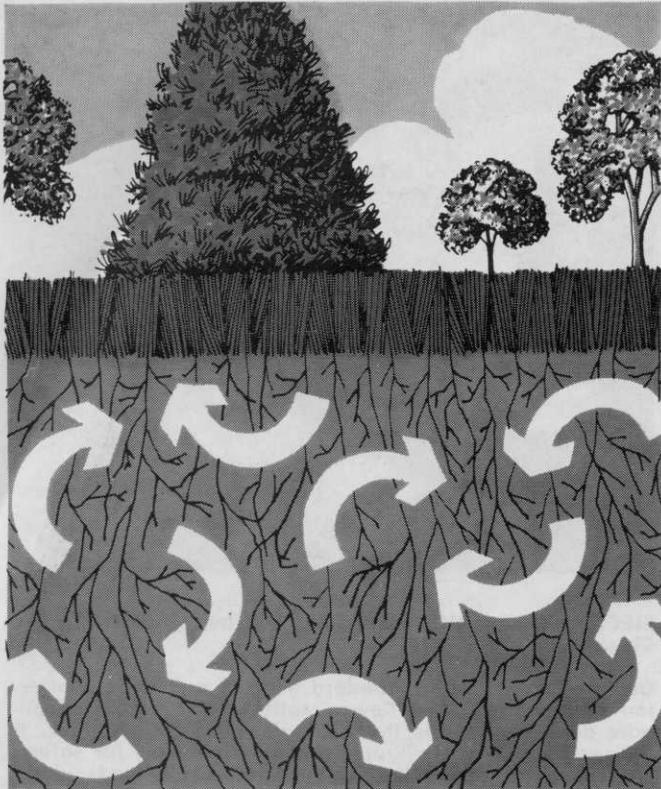
Here's a new 48-inch trailing mower designed for use on estates, park areas, roadsides, schools, or anywhere light mowing is required. The BMB Suburban 48 attaches easily to any self-propelled vehicle. Alloy steel knives that cut material before it is bent to the ground are powered by an 8 H.P. motor with heavy duty centrifugal clutch. Shield and housing are 11 gauge steel, reinforced with two inch channel framing. Two inch runners, full length, prevent scalping. Hitch offsets 24 inches right or left and the long tongue permits easy, short turns. For more details, circle (711) on the reply card.



**PRECISION BROADCASTER:** Lely, Wilson, N.C.

Use Model WGR as a fertilizer broadcaster, seeder or for broadcasting granular chemicals. It is ground-driven and features flotation tires. A centrifugal forced feeding spreading mechanism assures a wide, uniform spread pattern up to 52 feet. The unit can be operated behind a tractor, truck or any vehicle with a hitch at speeds from three to ten mph. The spreading mechanism can be disengaged for towing at highway speeds. Capacity is 800 lbs. The hopper and feed rings are removable for fast, easy cleaning. For more details, circle (712) on the reply card.





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**Grand Prize**® Lawn & Garden Gypsum is winning fast acclaim among professional turf and nurserymen wherever heavy soil presents growing problems. This natural soil

conditioner turns hard-packed clay into an open porous structure; permits soil to breathe, air and water to penetrate, and roots to grow deep. Grand Prize Lawn & Garden Gypsum supplies neutral and readily available calcium and sulfate-sulfur, each vital to plant growth; helps stimulate decomposition of organic material; absolutely will not burn. Write for specifics. 101 South Wacker Drive, Chicago, Illinois 60606, Dept. WTT-52



**UNITED STATES GYPSUM**  
BUILDING AMERICA



A symbol of man's awareness of the need to improve the land while constructing on it. This Southern Magnolia tree was planted during ground building ceremonies of the Orlando, Fla., East-West Expressway.

## Florida Firm Babysits Tree

**B**ABYSITTING a 25 foot tall Southern Magnolia is not exactly the job for next door's teenage girl. That's why Grasshopper Landscaping, Inc., Winter Park, Fla., has agreed to handle the project until the tree is able to survive on its own.

Grasshopper donated this symbolic tree and planted it in a permanent location at one of the future interchanges of the new Orlando, Fla., East-West Expressway to emphasize man's need to improve the land while constructing on it.

In early February, instead of the usual ground-breaking ceremonies, Florida's Governor Askew used his spade in the ground-building ceremony as he helped plant the Southern Magnolia.

Certain other trees in the Expressway route have been tagged to be worked around. Some trees will be replanted elsewhere.

In expressing the ecological concern of the citizens of Florida, C. C. "Kit" Giles, chairman of the board of Grasshopper Landscaping said, "Florida is in such a tremendous growth period it could become water-to-water pavement unless we take a stand for nature. Nature and community growth can work hand in hand when concerned people such as ourselves, the Governor and the Orlando-Orange County Expressway Authority also work hand in hand."

This 13.4 mile long, fully landscaped East-West toll-road starts east of Orlando, cuts through the center of town and ends near Walt Disney World and the proposed Sea World, a much needed connection because of the immense growth of traffic and population in the Orlando area.

Initial phase of the roadway will be a 4.2 mile subsection at a cost of \$5,861,449.75 and due for completion by December 1973. Grasshopper Landscaping, Inc., will provide all landscaping and grassing for this section.



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155	156	157	158	159	160	161	162	163
164	165	166	167	168	169	170	171	172
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718	719	720	721	722	723	724	725	726
727	728	729	730	731	732	733	734	735
736	737	738	739	740	741	742	743	744

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