HEAVY DUTY CUTTERS: Terrain Corp., Houston, Texas

This series of cutters in 5 ft., 6 ft. and 7 ft. models, is designed for extreme cutting conditions, including the capacity of cutting 6 inch diameter saplings. The cutter deck features a rugged "A" frame and tubular-type construction design to give the unit greater strength and longer service life. It is also available in 3-point lift and pull type models. The list of standard equipment includes: round blade holder with blades, 4:00x8 tail wheel on the 3 point lift model, slip clutch, drive shaft with 35R series U-joints and replaceable skid shoes. For more details, circle (701) on the reply card.


These inverted L-shaped boxes are designed for attachment with the shallow portion atop the sidewall of the truck and the deeper portion extending downward onto the truckbed above the rear wheel housings. The mounted boxes give the driver maximum rear visibility and provide easy access to contents. Designed to fit all popular domestic pickup trucks, they come in lengths of 48 in., 60 in. and 88 in. Each box has a front parts tray with removable dividers, adjustable on one inch centers. The top-opening doors are equipped with flush-mounted, slam-action, key-locking, padded type locks, zinc coated for rust-free action. For more details, circle (702) on the reply card.


This two-stage compressor is suitable for up to 200 psi continuous operation and is available in five sizes: 9/16, 1/2, 3/4, 1 and 1 1/2 hp. All compressors feature stainless steel sandwich type valves, Teflon fitted piston, adjustable cylinders and all parts under pressure are non-ferrous. All two-stage units are equipped with a fintype intercooler to reduce the heat of compression between stages. Single and three electric motors are available in all standard voltages. For more details, circle (703) on the reply card.

HIGH PRESSURE WASHER: Allis-Chalmers Corp., Milwaukee, Wis.

The largest of two high pressure washers is the Model 803. This unit delivers 800 psi at 3 gpm with water provided by a 1.5 hp 115 volt electric motor. A 35 ft. hose is encased along with external wiring in a single, plastic sleeve for strength, ease of operation and easier maintence. Hose diameter is 5/16 in. Features include two standard nozzles, a standard heat resistant wand grip, dual water inlets, two five gallon plastic containers and snap-on hydraulic coupling for quick and easy installation and removal of hose, wand and nozzles. For more details, circle (704) on the reply card.
JOMAC COVERALL SHIELDS: Jomac Products, Inc., Warrington, Pa.

The look of the future? Maybe. This head-to-toe suit is designed for people who work in hazardous areas and atmospheres. The air-impermeable sealed seam construction of these PVC-coated (polyvinyl chloride) coveralls protects against chemical splash, hazardous vapors and noxious fumes. A working atmosphere is supplied by an air pack contained in a built-in pouch in the coverall back. A backup system provides air supplied through hoses attached to a manifold inside the suit. For more details, circle (705) on the reply card.

GREENS SPIKER: The Toro Company, Minneapolis, Minn.

A new accessory for the Sand Pro is this special profile-tooth blade. It spikes cleanly without ruffling the soil because “hold-down fingers” prevent lifting of the turf. Greens are immediately playable after spiking, with no rolling or cutting needed. A transfer spring puts up to 22 lbs./blade across the width of the 58 in. spiking reel to assure maximum 1 1/8 penetration. For more details, circle (707) on the reply card.


This high-capacity flatbed trailer uses the “5th wheel” principle for the load and maneuverability advantages of a semi-trailer when pulled by a pickup truck or a tractor. Steel or wood decks are available on two or three axle models with such standard features as mud flaps, electric brakes, heavy duty brake control, ICC lights and reflectors, break-away switch, etc. A handy item for hauling sod or spraying equipment. For more details, circle (706) on the reply card.

AUTO DISTRESS FLAGS: Beauchamp Company Safety Products, Bronx, N.Y.

Out of gas? Put out one of these four flags to alert passing motorists. They utilize four visual signs to indicate the type of aid needed: out of gas, flat tire, mechanical failure or injury. Red, white and blue colors are used to achieve maximum visibility. Each flag measures 16 inches x 24 inches. Flags fold flat and compact for handy storage in glove compartment, console or trunk. For more details, circle (708) on the reply card.
**“WEED EATER”**: Weed Eaters, Inc., Houston, Texas

No more missing toes with this brush cutter. The revolutionary safety feature is the machines' cutting blade, which is made of heavy duty 'fishing line'. The monofilament nylon cord is a 200 lb. test line, specially treated to withstand high impact. The whirling blades of nylon, cut through weeds and grass bouncing off hidden bottles, cans, rocks and even the operator's own feet without harm. It cuts quickly and easily along fences, culverts, rock gardens, walls, ditches and other applications normally associated with slow, tedious work. For more details, circle (709) on the reply card.

**DU-WIPER**: Ginther Equipment Corp., Arcadia, Calif.

Put the garden hose away boys. This new wiper removes dew from golf greens quickly in 6 ft. passes. It weighs 25 lbs. and the rubber-tired wheels are equipped with anti-friction bearings requiring very little effort. A special wiper loosens the dew enabling it to soak into the soil. For more details, circle (710) on the reply card.

**“FREE FLOW” TEEJET VARI-SPACING NOZZLES**: Spraying Systems Co., Wheaton, Ill.

This series of brass nozzles feature an inlet with extra large internal passages. The complete assembly consists of brass nozzle body in a choice of single or double hose connections, brass cap and zinc plated steel clamp. They come in sizes to fit % in., % in., and 1 in. ID hose. For more details, circle (711) on the reply card.

**DOMESTIC SANITATION FITTINGS**: R & G Sloane Co., Woodland Hills, Calif.

A welcome addition to the domestic sanitation market are these 4 in. and 6 in. water main fittings. Specifically designed to counteract the threat of water pollutants, the new corrosive resistant fittings conform to ASTM Material Specs. D2729, D3033 and D3034. The fittings consist of the following components: tees, wyes, elbows, coupling, reducer bushings, caps, adapters, etc. For more details, circle (712) on the reply card.
Meeting dates

Iowa Golf Course Superintendents Association Conference, annual meeting, Ramada Inn, Waterloo, Iowa, Mar. 11-13.

Western Society of Weed Science, annual meeting, Royal Lahaina Hotel, Kaanapali, Maui, Hawaii, Mar. 11-14.

Northeastern Forest Pest Council, winter meeting, Sharon Plaza Hotel, Boston, Mass., Mar., 11 and 12.


Pennsylvania Recreation and Park Society Conference, annual meeting, Host Farma, Lancaster, Pa., Mar. 31-Apr. 3.

Canada Chapter, International Shade Tree Conference, annual meeting, International Inn, Winnipeg, Manitoba, Canada, Apr. 3-5.

Williamsburg Garden Symposium, in association with the American Horticultural Society, Williamsburg, Va., Mar. 31-Apr. 5.


Southern California Turfgrass and Landscape Horticulture Institute, annual session, Royal Inn, Anaheim, Calif., April 23-24.

Arizona Turfgrass Conference, Sheraton-Pueblo Inn, Tucson, Arizona, May 1 and 2.

California Fertilizer Conference, Anaheim, Calif., May 2 and 3.

Western Chapter, International Shade Tree Conference, annual meeting, Del Monte Hyatt House, Monterey, Calif., May 19-22.

Florida Nurseymen and Growers Association, annual convention, Dutch Inn, Lake Buena Vista, Fla., May 23-25.

American Association of Nurseymen, annual convention, Four Seasons-Sheraton Hotel, Toronto, Ont., July 13-17.


American Society of Landscape Architects, 74th annual meeting, Americana Hotel, Bal Harbour, Miami Beach, Fla., June 30-July 4.

International Shade Tree Conference, Golden Anniversary meeting, Atlanta, Ga., Aug. 18-23.

Professional Grounds Management Society Conference, annual meeting, Crown Center Hotel, Kansas City, Mo., Sept. 3-7.


International Plant Propagators' Society, Western Region, 15th annual meeting, Mission Bay area, San Diego, Calif., Sept. 4-6.

Central Plains Turfgrass Conference, K-State Union, Kansas State University, Manhattan, Kan., Oct. 23-25.
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Urban Rise, Second Home Studied By Task Force

Urban areas, which already contain 66 percent of the nation's population, are destined to expand into still more farm acreage despite recent challenges by environmentalists to the pace of development.

That is the forecast of a citizens' task force in a report that offers hope for reconciling some of the deep and growing differences between forces stimulating growth and those of unyielding conservation.

Though the task force, headed by Laurance S. Rockefeller, is critical of "unrestrained, piecemeal urbanization," it recognizes that "the needs of the American population can be met only through continuing development."

The 12-member group found all indicators pointing to a further spread of urban land area. Stimulated by affluence, the pace of land consumption exceeds both the increase in population growth and the rate of household formations, even though within the next 12 years more than 27,000 new households are anticipated every week. That is the equivalent to the weekly creation of a city the size of Green Bay, Wis.

Set up last September by the White House-mandated Citizens' Advisory Committee on Environmental Quality, the task force was sponsored by the Rockefeller Brothers Fund.

Much of the rapid conversion of rural land is caused by the enormous demand of Americans for second or recreational homes, the research team found. It gave these statistics:

"There are now about 2.9 million second or recreational homes in America, up from 1.7 million in 1967. It has been estimated that 95,000 second or resort homes were started in 1971, up from an estimated average of 20,000 per year in the 1940s, 40,000 per year in the 1950s, and 75,000 per year in the 1960s. The estimated annual demand for second homes is expected to reach 200,000 by 1980."

But more significant in terms of inroads into the supply of rural land is a task force finding that "rural lots are being created far faster than second homes. For the nation as a whole at least six recreational lots were sold in 1971 for every second home started."

The task force believes "livable, ecologically sound recreational communities" should be encouraged, but it urged states and local jurisdictions to prevent lot sales where such communities are unlikely to be developed.

Recognizing that the nation's open space needs cannot be met solely with publicly owned land, the task force urges identification of privately owned land that should be preserved in a natural state, including uniquely productive or strategically located farm lands.

It urges, however, that measures that provide tax relief to farms in urbanizing areas be re-examined. The rationale for such measures, in effect in half the states, is that the predictable rise in property taxes in urban fringes tends to "drive the farmer off the land."

The task force believes that such tax relief is justified only when the land assessed in current use is truly worthy of preservation, and is to be conserved permanently in farm use. Tax reductions in the absence of permanent restrictions should be regarded as halfway measures, the group maintains.

The task force is hopeful about changed public attitudes that have
You don't have to cure something you have already prevented... 3336 prevents 7 major diseases on tees, fairways and greens.

USE SYSTEMIC 3336 TO PREVENT ALL 7 MAJOR TURF DISEASES. 3336 CONTROLS AND PREVENTS SUCH DISEASES AS FUSARIUM ROSEUM, DOLLAR SPOT, RED THREAD, COPPER SPOT, HELMINTHOSPORIUM \( (\text{LEAF SPOT}) \), BROWN PATCH AND STRIPE SMUT.

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"The Company that's Going Places"
These box scrapers mean business!

All ten models are built to move heavy loads quickly with minimum power and effort. Curved blades cut and roll soil into maximum loads. Lifting mechanism and scarifier assemblies are designed with higher front end clearance for larger intakes. The exclusive structural design of all Servis deluxe box scrapers provides direct support from the draw link connection to the rear moldboard to prevent warping or bending. See your dealer for the Servis box scraper that best fits your requirements... and make fast, easy work of all future soil moving jobs!

HYDRAULIC models (66", 72", and 84") feature a positive mechanical lock to eliminate any stress on the cylinder, even when scarifiers are cutting the toughest ground.

AUTOMATIC LIFT-TRIP models (66" and 72") feature scarifiers that automatically lift and lock when the box is raised. Trip lever drops teeth back into cutting position.

HAND-LIFT models (66", 72", and 84") have manually-operated hand-lift control which easily raises, locks, and disengages scarifier teeth. Highly responsive.

SECO, JR. models (66" and 72") are popular with operators who do not usually require scarifier teeth for their routine work. Optional teeth can be positioned manually in UP or DOWN position.

A new vice president and general manager for Toro's Irrigation Division has been named by Toro president, David T. McLaughlin.

He is James W. Adams, 43, who resigned his post of manager, industry systems requirements, in IBM's Data Processing Division to take over direction of the Toro facility at Riverside, Calif.

Adams succeeds Edwin J. Hunter, founder and president of Moist O'Matic, Inc., the irrigation equipment company that was acquired by Toro in 1962. Hunter, who holds more than 50 patents, was named Toro vice president for research and development last month.

Product Liability Film
Available from Kaiser

A comprehensive presentation on product liability, produced initially as an audio-visual by Kaiser Aluminum & Chemical Corporation, is now being released as a 16mm color and sound film.

The 30-minute program, titled "Product Liability — Loss Prevention and Control," is available to other companies and schools at a nominal cost. More than 300 companies throughout the United States and in several foreign countries have currently used it.

The colorfully-illustrated program outlines steps that companies can take to acquaint employees with procedures to improve product reliability and reduce claims. These include: education to develop an awareness of the seriousness of the problem; new product safety review; establishment of risk criteria.

For additional information about this film, write Product Liability, Kaiser Aluminum & Chemical Corporation, 300 Lakeside Drive, KB 910, Oakland, California 94604.
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Here's proof when fertilizing a 5" tree

Drilling Method

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<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk 16-8-8 fertilizer—$90/ton</td>
<td></td>
</tr>
<tr>
<td>(Example price throughout U.S.)</td>
<td></td>
</tr>
<tr>
<td>2 lbs./inch of trunk diameter = 10 lbs. × 4.5¢/lb.</td>
<td>$ .45</td>
</tr>
<tr>
<td>½ hr. labor @ $4/hr.</td>
<td>$2.00</td>
</tr>
<tr>
<td>Labor and materials</td>
<td>$2.45</td>
</tr>
<tr>
<td>$2.45 ÷ 5&quot; tree = 48¢/inch of diameter</td>
<td></td>
</tr>
</tbody>
</table>

No allowance made for depreciation, amortization, breakage of auger, mistakes, etc.

Jobe's Tree Food Spikes Method

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 spikes 16-8-8 fertilizer—22¢/spike</td>
<td></td>
</tr>
<tr>
<td>1 spike/ inch of trunk diameter</td>
<td>$1.10</td>
</tr>
<tr>
<td>5 min. labor @ $4/hr.</td>
<td>$ .33</td>
</tr>
<tr>
<td>Labor and materials</td>
<td>$1.43</td>
</tr>
<tr>
<td>$1.43 ÷ 5&quot; tree = 29¢/inch of diameter, based on 20 case order.</td>
<td></td>
</tr>
</tbody>
</table>

Based on results of university field tests and recommendations.

Professional tree and turf men using Jobe's Tree Food Spikes save 50% and more in labor and materials. Save time and money by using Jobe's Tree Food Spikes. Order from your local supplier or use the coupon below.

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©SOD CUTTERS*. Self-propelled heavy-duty and junior models.

*Self-powered and/or propelled.

Officers Are Named By Turfgrass Grounds

Two statewide associations affiliated with Maryland’s sod industry have recently elected their 1974 slates of officers and directors, says Dr. John R. Hall extension turf management specialist at the University of Maryland.

They are the Maryland Turfgrass Council and the Maryland Turfgrass Association, Inc. Dr. Hall serves as secretary of both groups.

Re-elected as president of the Maryland Turfgrass Council at its second annual meeting was Angelo F. Cammarota, golf course superintendent at the Hobbits Glen Golf Course in Columbia. Emory R. Patton is the council’s new vice-president.

G. Laurence Moore of Florence is the new president of the Maryland Turfgrass Association, Inc. The new vice-president is David C. Hamilton.

Two sod producers have been named directors on the board of the Maryland Turfgrass Association. They are Ralph L. Roberts of Laytontsville and Robert E. Hawkins of Germantown. The association’s third new director is Dr. Harold H. Bryant of Brooklandville.

New Rights-of-Way Need Quick Green Growth

Establishing vegetation while grading operations for highway construction are under way can help to reduce environmental pollution from erosion.

Roy E. Blaser, Virginia Tech, said research has confirmed that establishing quick vegetation on newly constructed slopes reduces the adverse effects of siltation on rural and urban areas, water supplies, wildlife, recreation and aesthetic aspects.

To obtain the vegetative cover quickly and to promote the development of a persistent low maintenance vegetation such as crownvetch or sericea lespedza on bare slopes, the researcher said, depends on:—

Appropriate soil amendments. — Rather simple seeding mixtures of adapted plant species. — Seeding according to prevailing micro-environmental conditions. — Proper mulching materials and techniques.

These factors vary, the scientist said, with local ecological conditions, such as slope exposure and soils. But the results of the research, conducted in West Virginia and Virginia, can be applied “broadly in other states,” Blaser said.
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