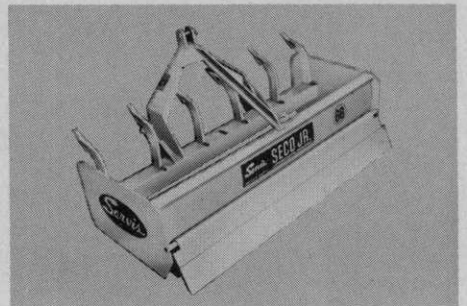


the budget scrapers

Servis' Automatic Lift-Trip Scraper pays for itself in time and work saved. Without leaving the seat, the operator can scarify and scrape at the same time...or level, grade, and backfill independently. Scarifier teeth raise and lock automatically when the box is raised. Teeth stay up until the operator "trips" the easy-to-reach handle. It's the most versatile and most productive box scraper on the market. Available in 66" and 72" models.

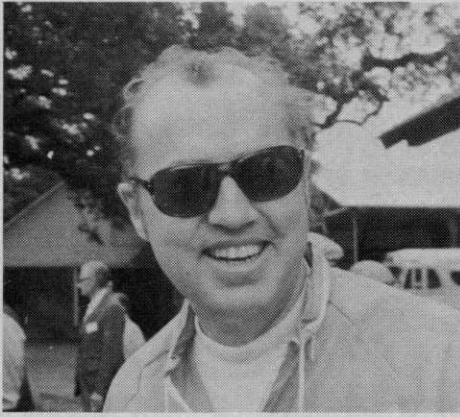
The SECO, JR. is a heavy-duty scraper for contractors who seldom need scarifiers. It saves money on the original investment. Scarifier shanks and teeth can be easily installed manually later, in either up or down position. Available in 66" and 72" models.



SERVIS EQUIPMENT COMPANY
Post Office Box 1590 Dallas, Texas 75221



Seed Tour 'Personalities'



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**W. Scott Lamb
Exec.-Sec., Chewings
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**B. H. Mangelsdorf
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**W. K. (Bill) Brawley
Brawley Seed Co., Mooresville, N.C.**



**Willard Hovde
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Benton County Ext. Agent
Corvallis**



**W. Alan Hick
Northrup, King and Co.
Minneapolis, Minn.**



**Goldie Marcott, Grower
Sublimity, Ore.**

Grass Seed (from page 20)

Fields and processing plants were on the agenda along with the seed lab and certification operation at Oregon State University, Corvallis.

This certification program has become increasingly costly to growers. The ancient idea to \$2 or \$3 for testing samples is a thing of the past. The grower today will spend in excess of \$50 for each sample for purity and germination alone. Special tests for seed weight, viability, x-ray, bioassay, variety, etc., will further increase the cost.

At the Corvallis seed lab, some 40 thousand tests are being made annually for 11- to 12,000 samples. Because of the stringent demands for quality and the big business that the seed industry has become, a laboratory seed analyst spends two years in the lab before becoming a competent independent analyst. This training begins after an intensive 3-week training period by a supervisor.

Today, Oregon is producing in excess of 300,000 acres of grass seed (both turfgrass and pasture grass seeds, the latter being mostly two dozen different varieties of orchardgrass). The state claims the title of "Grass Seed Capital of the World," and bases its claim on a \$30 million yearly seed business. Industry leaders in the state estimate that 41% of the nation's grass and legume seeds are produced by Oregon growers. Legumes account for only about \$5 million of the total.

Bulk of the production comes from the Willamette Valley. A whopping 83% of this is grass seed, with Oregon growers increasing seed stocks for the country's leading producers.

Big problem for growers concerns getting fields ready for certification. Once in production, the problem becomes one of keeping the stand clean to meet purity standards. New research at Oregon State University has pointed up the problem of volunteer-plants which grow from buried seeds of previous crops. A researcher at OSU, Te May Ching, was on hand at Grassland '71 to discuss findings.

Seeds of Oregon annual ryegrass persisted up to nine years. While viability was low, the results may render a field unsuitable for this variety for an extended period.

By contrast, no live seeds of Danish commercial orchardgrass, Alta tall fescue, or chewings fescue were recovered from soil in the third year.

Buried seeds of Newport Kentucky bluegrass showed no viability after the second year until the eighth year when a trace of viability appeared and was carried over into the ninth year.

Highland bentgrass seeds were more persistent than any of the other grasses, with viability averaging 9.5% in the ninth year. The accompanying table (Table 1) shows the current number of years a field must be free of a species in Oregon before being put into seed production.

Arrangements for the seed industry tour were made by W. Scott Lamb, executive secretary for the two commissions. He greeted seed distributors at Portland and oriented them to the Oregon industry.

OSU Researcher Te May Ching shows mesh enclosed seeds which are buried in a 10-year project to measure their ability to live. Project is in 9th year.



DITCH WITCH '71... THE NEW VP12 VIBRATORY PLOW

Installs service lines, tubing without trenching



THE DITCH WITCH VP12, a completely new vibratory plow. It is a self-propelled, four-wheel-drive power-steerable unit that buries service or drop wire and copper, plastic, or steel tubing to diameters of $\frac{3}{8}$ " without trenching! Turf damage is held to absolute minimum. The plow shaker is powered mechanically by a 25-HP air-cooled engine independently of the dual-range hydraulic four-wheel-drive. Stability on hill-sides and rough terrain provides unmatched operator safety. Controls are easy-to-reach for operator convenience. Compactness provides maximum maneuverability in tight places and one man easily can load the VP12 in a small van, the back of a pickup or on a Ditch Witch trailer. It will move through a standard yard gate with room to spare. Available with either feed or pull blade for installation speeds up to 150 FPM.



The Professionals

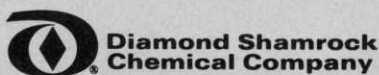
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Daconil 2787® fungicide helps you build a strong turf program. It checks leaf spot, dollar spot, brown patch and many other fungus diseases without harming your grass.

Daconil 2787 fungicide has been field tested world wide. It has shown high weather resistance. And moves to protect new growth between sprays. Always read the label before using.

See your dealer for more information. Or, write Agricultural Chemicals Division, Diamond Shamrock Chemical Company, 300 Union Commerce Building, Cleveland, Ohio 44115.



New Florida Nurserymen and Growers Association officers for 1972 are: l. to r., Richard A. Gladwin, second v-p, Joseph Welker, pres., and Joseph C. Shaw, president elect.

Florida Nurserymen Present Award Program

Landscaping held the focus, but something new was added, when the 1,400-member Florida Nurserymen and Growers Association met in Miami Beach in May. Sixteen Zeta Tau Alpha Sorority girls from the University of Georgia, told their "aging" audience how it is to cope with the problems of youth.

At an awards luncheon, 13 state-level awards for landscaping perfection were presented, with Comm. Doyle Conner, Florida Dept. of Agriculture doing the honors. Also, two sweepstake-citations were given for landscaping technique and execution.

More than 20 other recognitions covering residential, commercial, industrial and "unique" categories on the 14-chapter level will be awarded in June at chapter dinners. Salvatore Altieri, Boca Raton, was chairman of the annual contest; judges were headed by Dr. Herick Smith, Dean, School of Landscaping, University of Florida.

Taking home the lion's share of the awards was George E. Russell, Miami, who not only was awarded four landscaping prizes, but was judged the Most Outstanding of the 14-chapter presidents.

Of the state-level winners, most of the landscape contractors and nurserymen were from the Greater Miami area: Russell, Inc., four; Arvida Corp., two; Tropical Landscape Co., one; Ken Lones Landscape Co., one, and L & G Landscape Co., one. Others were, Cypress Creek Nurseries, Windemere, one; Palm Nursery, Naples, two, and

Webster's Nurseries of Osprey, one.

Also, Robert Cochrane, Jr., of Donnelly Advertising Corporation of Florida (Miami) was presented a special plaque for his company's "philosophy in outdoor advertising-beautification program."

A new state-level trophy for outstanding landscaping technique, the Clifford Butler Memorial Award, was given through the association by Wendell Butler, Butler's Nursery Supply Co., of Fort Lauderdale. William Colburn, Cypress Creek Nurseries, was the winner.

A long established award for landscaping, the Dick Pope Silver Tray, given by Dick Pope, Sr., Cypress Gardens, went to Jack Siebenthaler, a past president of the association,

Lawrence W. Clements receives Odenkirk, most coveted award given by FNGA. Trophy rotates each year to new recipient.



Seminole Nurseries, Seminole.

The Reasoner Tropical Nurseries of Bradenton (Florida's oldest nursery) yearly presents a silver trophy to an individual with a long-standing service to the horticultural industry; it was presented to Bert Livingston, garden editor, Tampa Tribune.

Most coveted award, the Odenkirk, also given by Butler through the association, was presented to Lawrence W. Clements, Lake Garfield Nurseries of Bartow. He too, is a past president of the FNGA, and was honored for his "services beyond the call of duty" during the past year.

Officers elected at the convention are, Joseph Welker, Duval Landscape Co., Jacksonville, president; Joseph C. Shaw, Shaw Nursery and Landscape Co., Miami, president elect; Richard A. Gladwin, Gladwin Nursery, Jupiter, second vice president, and John A. Blaser, Blaser's Nursery, Tallevant, third vice president.

New directors are: George E. Russell, Russell, Inc., Miami; Robert L. Hartwig, North Florida Landscape Co., Jacksonville, and Raymond Smith, Smith Garden Center and Nursery, Largo.

Environmental Services Offered By Dow Chemical

A new form of service to industry is being offered by Dow Chemical via its Environmental Control Systems business. Purpose of the venture is to help identify and solve environmental health problems on a custom basis. Dow is offering the service both to industry and government, according to Manager Arnold W. Schaffer.

The new Dow service is programmed to serve three areas of environmental concern: Occupational health and safety, directed toward evaluation and control of occupational hazards in industry; Community pollution, oriented toward the public health aspects of environmental pollution; and Product safety, designed to provide expertise in assessing and evaluating toxicity, safety and other environmental effects of new and existing products.

The company with its size and experience in the field has a large reservoir of professional skills and experience in a variety of scientific fields among its personnel.

Specifically, the service is expect-

ed to cover such areas as industrial hygiene, safety, air and water quality, laboratory analysis, noise control, engineering, toxicology, consulting, education and training, contractual operation, testing and inspection, management in solid and liquid wastes, and information.

Headquarters will be Midland, Mich.

Fanny Flag Is Official Emblem

Ag-Tronic, Inc., Hastings, Neb., has named their slow moving vehicle emblem Fanny Flag. Now generally standard for farm equipment or other slow moving vehicles on the highway, Ag-Tronic reports its new version is 40 percent more reflective.

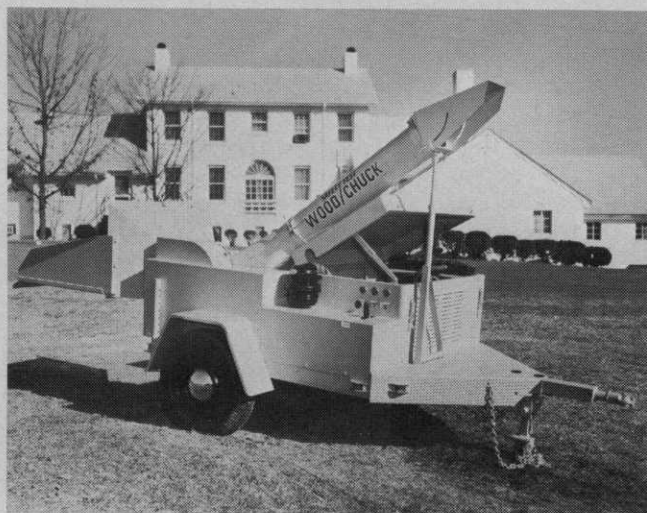
The company says the Fanny Flag emblem is now clearly visible for more than a quarter mile, either day or night. During daylight, the fluorescent orange triangle in the emblem's center serves as a warning to motorists. At night, the reflective red border identifies the slow moving vehicle.

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HEAVY DUTY**

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FIRST IN PERFORMANCE, ECONOMY, SAFETY



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Demonstrated at the
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Okay. But what puts Safety Test Wood/Chuck in a class by itself where chippers are concerned? Just superior performance, economy and safety.

First, there's less down-time for blade adjustment and replacement. The Wood/Chuck's blades lock into the rugged rotor and automatically position properly. This takes just minutes for a Wood/Chuck but often requires hours with other chippers. Wood/Chuck's blades are "V"-grooved for full length support that means extra safety. And where most "chippers" blades are so positioned that chips are actually crushed away . . . the Wood/Chuck's shallow blade angle slices chips away. Goodbye friction, wasted energy and vibration; jobs go faster, fuel goes farther.

Only the Wood/Chuck has really been built from the ground up as a chipper for heavy-duty use. It's modern, functional, no-nonsense design sets it apart. Above all, the Safety Test Wood/Chuck has that built-in Safety Test "Extra Measure" of dependability. You can rely on it to do a full day's work . . . day after day, year after year. Frankly, there are dozens of reasons why no other chipper compares with the Wood/Chuck. You owe it to yourself to get the full story from your Wood/Chuck representative or write Safety Test & Equipment Co., Inc., P.O. Drawer 400, Shelby, N. C. 28150.



Crane handles BAG-35, a 35 cu. ft. unit, which is 40" x 51" in size. Allowable load for this size super sack is 3300 pounds.

MATERIALS HANDLING

NEW CONCEPT

A new idea in materials handling is flourishing as a result of a Texas company's market foray.

It amounts to a bag—or a super sack. And it comes in all sizes, from 7- to 88 cubic feet in capacity.

The unit is available, along with counselling on designing a system to fit any operation from a full line farm elevator operation, to spreading fertilizer on a golf course, from the Better Agricultural Goals Corporation (BAG), Dallas, Tex.

At present the "super sack" is being used not only for aircraft loading (for which it was originally designed) but is being utilized as a nurse unit for a specially designed ground spreader which BAG Corporation is also making available in its marketing program.

Big advantage—according to an elevator manager, Dan Thorton, Wintermann & Company, Eagle Lake, Tex., who is using the entire system—is cost savings in handling fertilizer. Thorton says the containerized handling saves filling labor of paper bags, eliminates the corrosive problems in handling fertilizer, and literally the super sack becomes its own dispensing mechanism.

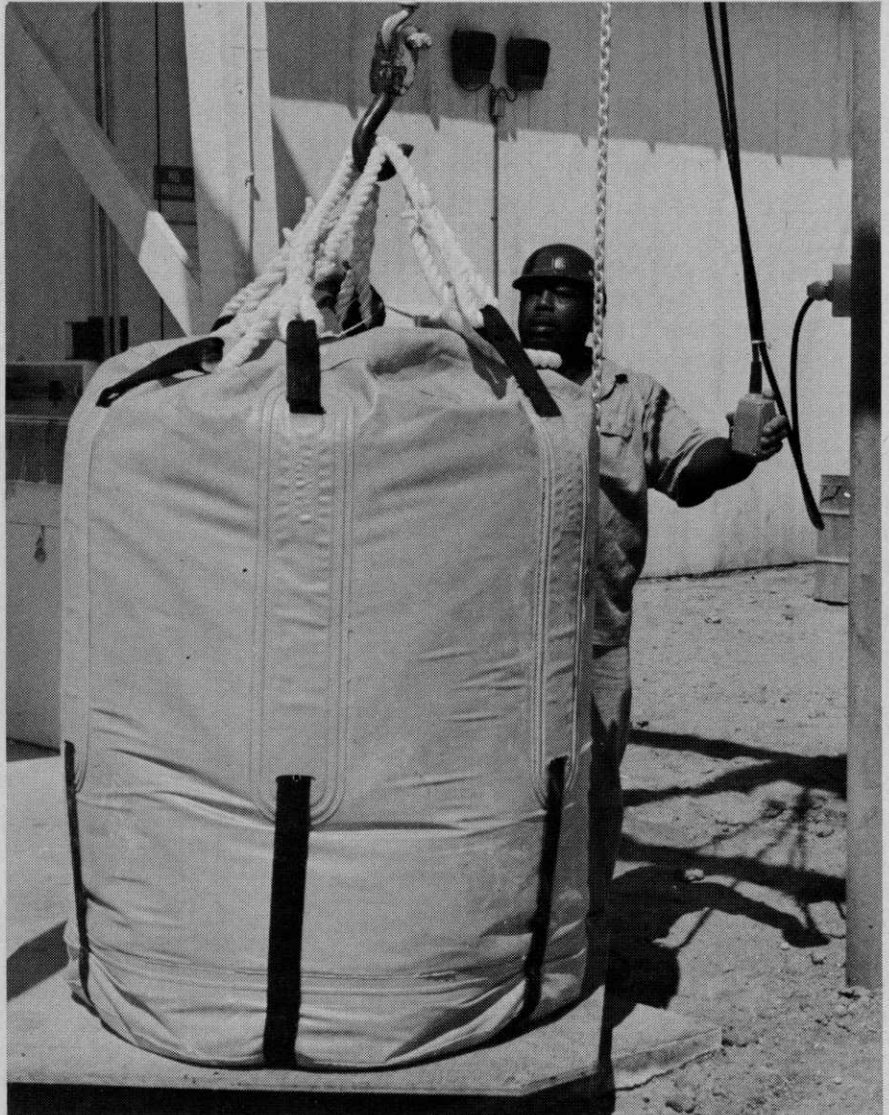
Bags, Thorton continues, can be pre-loaded at the operator's convenience, stored outside, and then used again and again. In fact, he reports that the super sacks carry a 2-year guarantee. He uses custom designed bags of 35 cu. ft. capacity.

The 35 cubic foot capacity bag is constructed of polyester fabric, coated with polyvinyl chloride resin, reinforced nylon sling and vinylon anchored hoisting rope cradles. The standard bag sack used by Thorton is designed for a maximum working load of 3300 pounds. A "heavy-duty" model will handle 5600 pounds. All containers are collapsible, reusable,

practically indestructible, with tare weight lightest and the tear resistance highest. They have the advantages of a package and the
(Continued on page 38)



System being used for ground application in company designed fertilizer spreader.



The new super sacks designed and marketed by Better Agricultural Goals Corporation, Dallas, Tex., range from a capacity of 7 cubic feet to 88 cubic feet.

Skyworker Names Western Distributor

Skyworker Aerial Lifts and Roustabout Mobile Cranes of Delaware, Ohio, has named a new distributor for the West Coast. Al Asher & Sons, Inc., Los Angeles, Calif., will handle sales for California, Arizona, and Nevada.

Skyworker is manufactured by Hughes-Keenan Division of Transairco, Inc.

Al Asher & Sons is located at 5301 Valley Boulevard, L.A.

Culture of Bonsai Is New Florida Publication

A new Florida Agricultural Extension Service circular promises to be popular among arborists. It contains data on culture and maintenance of bonsai trees.

According to the new publication—"The Culture and Maintenance of Bonsai"—the terms bonsai and "ming tree" depict (at least to Americans) small trees of great age.

Bonsai actually, the authors say, is not a secret process. It is an art form using principles of horticulture known since man first began

to cultivate food.

Authors are: William C. Meredith and Jasper N. Joiner, former Hume Fellow and professor of Ornamental Horticulture respectively, at the Florida university.

Copies are available from the Agricultural Extension Service, University of Florida, Gainesville.

Highway Rest Areas Offer Landscape Ideas

A new brochure, "Safety Rest Area Development," which illustrates some of the outstanding rest areas constructed or proposed on the Nation's Federal-aid highway systems, has just been published by the Federal Highway Administration.

Prepared by the Landscape Branch, Scenic Enhancement Division of FHWA's Office of Right-of-Way and Environment, the 28-page publication was designed as a stimulus to those responsible for the site selection, design, development, and maintenance of rest areas.

The brochure is liberally illustrated with photographs—many in color—submitted by various States to show new and imaginative rest area

developments.

Subjects covered include site selection, design, site development, scenic qualities, historic aspects, information buildings, information panels, multiple use, buildings, rest room interior, shelters, picnic tables, plantings, utilities, fencing, consideration for the handicapped, and borrow pit lakes.

Copies of "Safety Rest Area Development" may be obtained from the Federal Highway Administration, Department of Transportation, 400 Seventh Street S.W., Washington, D. C. 20591.

Soil Seal Concentrate Accepted by Gov't Buyers

Soil Seal Corporation, Riverside, Calif., reports that their soil stabilizing chemical, known as soil seal concentrate, has been listed by General Services Administration in the new item introductory schedule.

This listing permits all governmental agencies to order the product which is currently in use within domestic agencies and in the Far East.

The concentrate provides surface crustation varying from one-eighth to 1½ inches.

THE ALL-PURPOSE CHOPPER

To Dispose Of Your Branches, Stalks, Vines, Trimmings



LINDIG KAJON CHOPPER

Now there is a 4 and 7 hp chopper to rapidly process branches (up to 2¼" dia.), yard trimmings and leaves. Kajon works just like the large chippers to turn leftover organic material into instant mulch. Bag it for convenient disposal or re-use it as natural fertilizer. Kajon replaces outdoor burning, helps keep our air a little cleaner. Gas engine or electric motor available.

LINDIG

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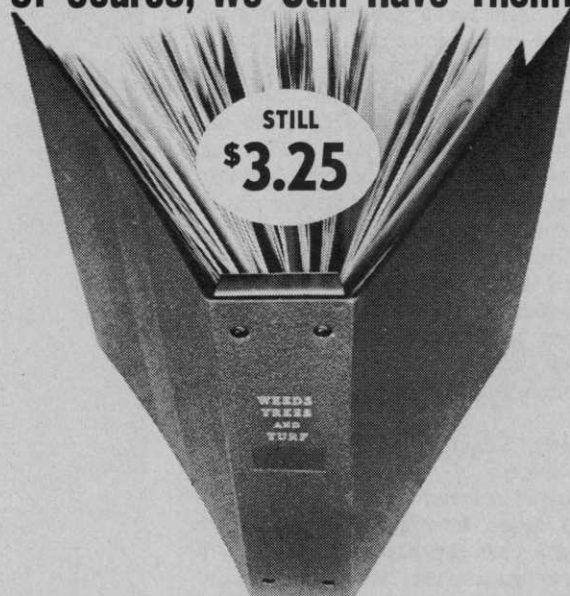
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SPRAY-O-RAMA

Pesticide Applicators Meet in Seattle, Sept. 17-19

SPRAY-O-RAMA, annual conference and show of the International Pesticide Applicators Association (formerly the Pacific Northwest Pesticide Applicators, Inc.) has been set for September 17-19, 1971. Site will be the Sea-Tac Motor Inn, Seattle, Wash.

George M. Harrison, president, reports that continued interest by individuals and groups outside the regional area originally served by the association led to expanding the program and outlet. Commercial pesticide applicators have been invited to attend the '71 session from British Columbia, Washington, Oregon, California, and Florida. Harrison stresses that the group will happily welcome applicators from any-

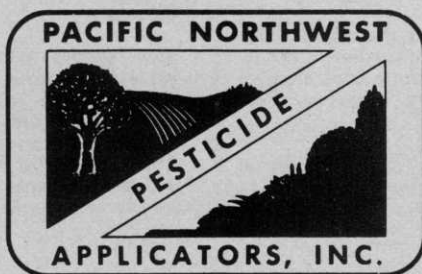
where in the nation, or the world for that matter.

The organization has taken an active stand nationally in helping guide new pesticide legislation and measures which affect the industry. Their program for this year is geared in the same fashion. Featured will be Dr. Griffith Quinby, a toxicologist who has researched

and reviewed the effects of numerous pesticides and findings of recent years.

Others include Keith Davey, tree service company president, Dr. Arlen Davison, plant pathologist, Washington State University, Dr. William Hazeltine, Mosquito Abatement District director at Butte County California, Dr. Gordon Edwards, entomologist at San Jose State College, and D. L. D. Halvorsen, National Marine Fisheries Service. Other presentations for the program are still being firmed up according to Harrison.

Harrison will make reservations or furnish information to anyone wishing to attend. He can be reached at 17868 28th Ave., N.E., Seattle, Wash. 98155 (tel. EM 2-9100).



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number one

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You might call this the "Long Tom" of chemical spray guns. It has an exceptional range and comes with tips that'll let you shoot a pin-point, medium or broad spray pattern.

The long barrel on Super Spray gives you both distance and accuracy. The worm-gear control on the barrel end gives you very fine flow control while it prevents hose-busting "water hammer" from sudden shut-off.

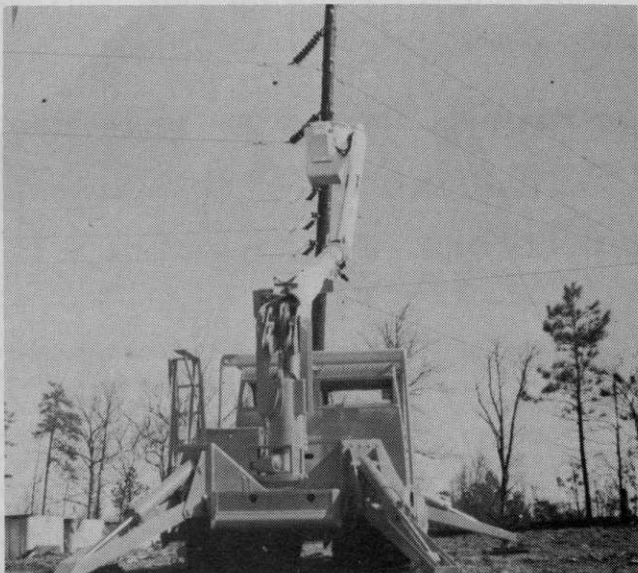
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Super Spray

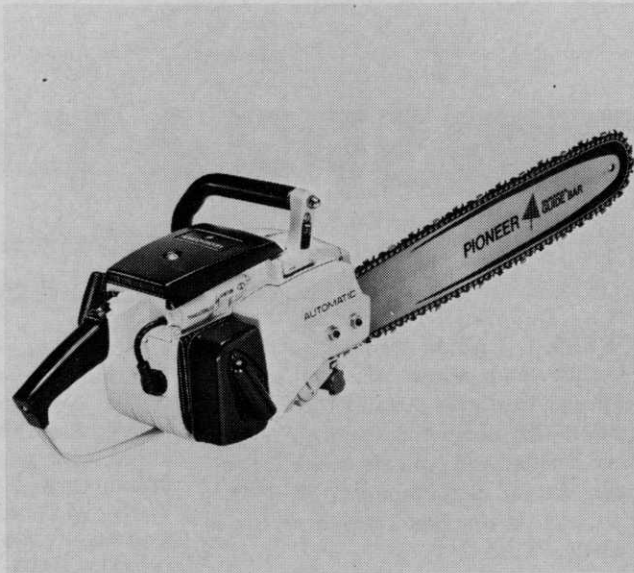


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AERIAL DEVICE: Skyworkers, Inc., Conley, Ga.

New product manufactured by Skyworker is the 1044 with 50' working height and mounted on a Bombardier. Unit is insulated to 100 K.V., equipped with hydraulic tool circuit, and designed especially for rights-of-way clearing. For more details circle (701) on the reply card.



PROFESSIONAL PULP SAW: Pioneer Chain Saws, Galesburg, Illinois.

Saw features a transistorized, breakerless ignition for quicker, easier starts and less costly repairs, fuel economy that lets the 3071 cut 40% longer than other chain saws doing the same work plus quiet muffler. Acoustically designed muffler cuts engine noise to a throaty sports-car-like sound. Runs cool with little vibration. Suggested retail price with 16' attachments is \$269.95. For more details, circle (702) on the reply card.



HELMET SYSTEM: Personal Environment Systems, Inc., Glendale, Calif.

Using vehicle-generated electric power, the Rite Whitecap helmet system spins off most airborne particulate matter in a patented self-cleaning centrifugal separator. Any remaining contaminants and odors are eliminated through one or more filtering elements. Purified air is delivered to the helmet, allowing the operator to breathe comfortably hour after hour. Heating or refrigerated air conditioning available if desired. Also available in battery-powered backpack version for off-vehicle use. For more details, circle (704) on the reply card.



WINCH CABLE CRANE: Weldex Corp., Grafton, Mass.

Redesigned, truck mountable, cable crane can cut truck crew in half. One man can safely handle over 2,000 pounds. Series T-25 "Truckranes" provide the first moderately priced units having positive load control. This is accomplished through the non-ratcheting, "no-jerk" action of a hand operated, worm driven winch that will also hold the load fixed in any position without an auxiliary brake. Safety engineered with welded, box beam, telescoping boom construction. For more details, circle (703) on the reply card.