



A nine-acre bag of fertilizer and a 30-ft. spreader were near shop stoppers for Michigan sod growers who participated recently in a "fly-in seminar" at O. M. Scotts & Sons, Marysville, Ohio. The one-day, pow-wow seminar is new for Scotts. While growers and golf course superintendents and landscape architects had been coming to seminars, this was the first one-day, fly-in affair. The plane picked up growers at Lansing and redeposited them there at a decent hour in the evening after the men had experienced a day packed with facts, questions and answers, color slides and tours, and a dinner at Timber Trails Country Club near Marysville. The 10 growers from seven communities were: Jack and Ted Bosgraaf of Blue Grass Sod Farm, Inc., Hudsonville; Lyle Young of Halmich Sod Farm, Lansing; Russ Craft of Halmich Sod Farm, Brown City; Ed Vidosh and Allen Awalt of Green Acres Turf Farm, Mason; Jack Bower of Jack Bower Sod Farm, Bath; Leo DeBuck of DeBuck Sod Farm, Inc., Davison; Wallace Huggett of Huggett Sod Farm, Marlette; and George Beck, Beck Sod Farm, Palms.

At left, Dale Kern (center, hand on chin) of Seed Technology, Inc., shows methods of analyzing seed samples to determine content. In addition to seeing Scotts fertilizer, seed and research facilities, the growers toured some 800 acres of grass plots containing more than 1,500 selections of grass from 44 countries.

Keel Re-Elected President Of NW Turfgrass Assn.

An estimated 300 persons attended the 24th annual Northwest Turfgrass Association conference recently in Salishan.

Tom Keel, director of Douglas County Park Department, was re-elected president. Other officers are: Vice-president—Dick Schmidt of Renton, Wash.; executive secretary—Dr. Roy Goss, of Puyallup, Wash.; and treasurer—Dick Haskell of Seattle, Wash. Directors are Dick Mitchell of Vancouver, B.C.; John Harrison of Hayden Lake, Idaho; John Zoller of Eugene, Ore.; Dick Malpass of Portland, Ore.; Art Elliott of Seattle; Al Blair of Seattle; and Ron Proctor of Federal Way, Wash.

Conference delegates voted a

\$2,000 grant to Puyallup Research Center.

The Association draws membership from Oregon, Washington, Idaho, Montana, and British Columbia. The 25th conference will be Sept. 22-24 in Yakima, Wash.

If you care about tree care,
membership in the International Shade Tree Conference won't cost; it will pay. Write Box 71, Urbana, Ill. 61801 for information and application form.

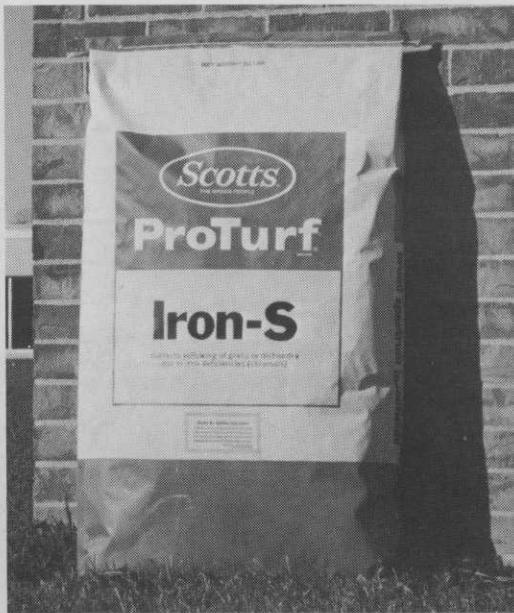


Massey-Ferguson
Lawnmotoring
MF 7, 10 and 12 style



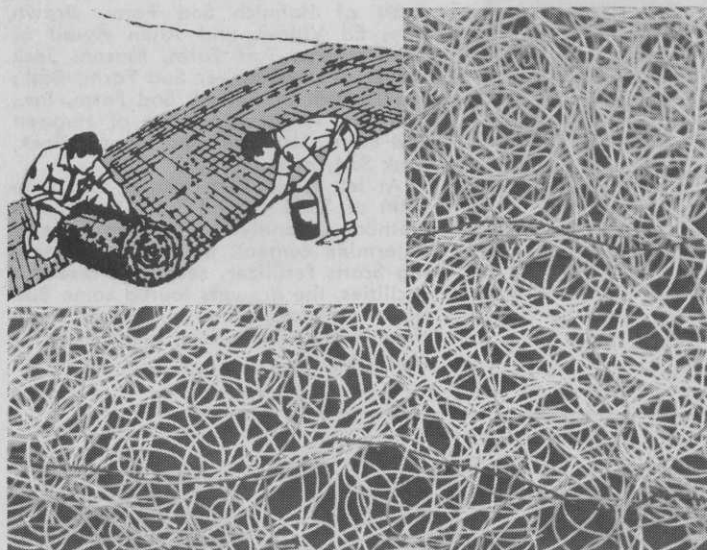
LAWNMOTING CATALOG,
Massey-Ferguson, Inc., Des Moines, Ia.

The above catalog describes the MF line of 7 to 112 hp tractors and accessories available, including snow blades, snow blowers, sprayers, sweepers, rollers, aerators, three to five gang reel mowers, diggers, rotary tillers, etc. The MF 5 and MF 6 riding mowers feature rocking front axles and differential-equipped rear axles. Both machines have "Feather Lift" mower height adjustment. The MF 5 has two speeds forward and one reverse and is powered by a 5 hp Tecumseh engine, cutting a 26-inch swath. Heights range from 1½ to 3¾ inches. MF 6 has a 6 hp Tecumseh engine and cuts a 32-inch swath. Its transmission provides three speeds forward and one reverse. For details, circle (701) on the reply card.



NEW TURF PRODUCTS, O. M. Scott & Sons Co.,
Marysville, Ohio

New additions to the Scotts ProTurf line are ProTurf Starter Fertilizer and ProTurf Iron-S. The products are to be sold to golf courses, industrial and professional users. ProTurf Starter Fertilizer is said to enhance seedling growth and root establishment. It is dry-applied, granular, odorless and non-burning, composed of homogenous dust-free particles. One 44-lb. bag treats 11,000 sq. ft. ProTurf Iron-S helps turfgrass and dichondra with iron chlorosis to quickly regain their normal color. It also is a dry-applied, ready-to-use product, composed of homogenous dust-free particles. One 30½-lb. bag treats one-quarter acre. For more details, circle (702) on the reply card.



SOIL RETENTION BLANKET, AMXCO, Inc., Arlington, Tex.

Constructed of interlocking, curled, barbed aspen fibers, the soil retention blanket provides low-cost erosion control for steep slopes, shoulders, median strips, embankments, drainage ditches, ski slopes, waterways, dam sites, levees, and landscape improvements generally. Especially suited for steep grades and areas exposed to heavy water or strong winds. It stays put long enough to get good growth established, then decomposes gradually. For more details, circle (705) on the reply card.



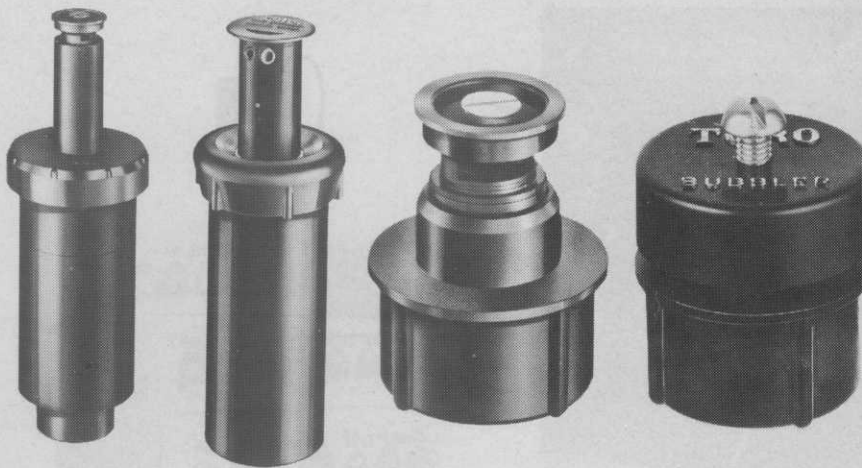
CORE SHREDDER ATTACHMENT, Skagg's Turf Equipment,
Canfield, Ohio

Eules Skaggs, left, and Harold Skaggs are introducing this spring a core shredder attachment that shreds cores (right half of bottom picture) as a golf green is aerated. It's a one man operation, says Harold, who is a golf superintendent. The shredded cores become an ideal top dressing. If you have greens built to USGA specification, you need this attachment to avoid changing your soil composition, the Skaggs say. For more information, circle (706) on the reply card.



COMMERCIAL TRIMMER EDGER,
Goodall Division, Louisville, Ky.

Model 18G-35THD is especially designed for professional trimming and edging. Easy to handle, the front caster wheel swivels, permitting easy, level turning when trimming around trees, fences, walls and shrubs. Front caster wheel is locked in the straight forward position for tilting when edging along sidewalks, driveways and curbs. Edger-guards prevent marking or chipping from blade and direct grass away from objects you want to trim or edge. Heavy-gauge steel handles and steel wheels are set in and behind edger-guards. Cutting height adjustable from 1 3/8 to 2 3/8 inches. The line includes 10, 12 and 18 inch trimmers and edgers. For details, circle (703) on reply card.



MODEL 550 SERIES
Pop-up Spray Head
Eleven Interchangeable Heads

MODEL 620 SERIES
Pop-up Gear Driven
Rotary Sprinkler

MODEL 500 SERIES
Adjustable Shrub Head

MODEL 911 SERIES
Adjustable Stream Bubbler

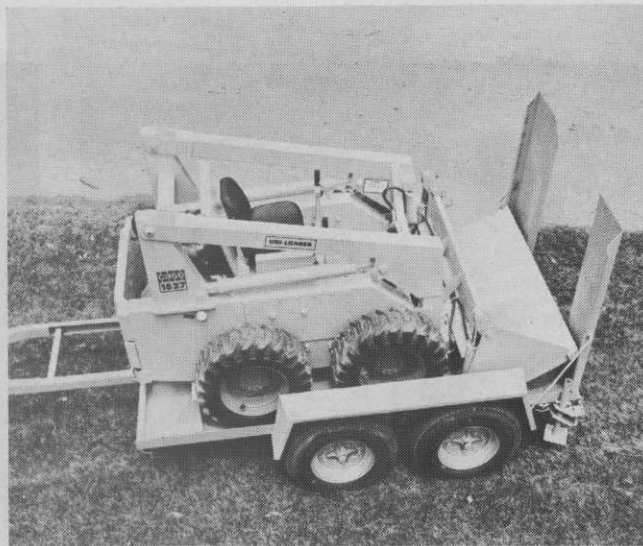
NEW SPRINKLER HEADS, Toro Manufacturing Corporation, Moist O'Matic Division, Riverside, Calif.

New for 1971: The 620 series pop-up sprinkler head has a pop-up stroke of 2 3/8 inches. Spring-loaded sealed riser insures positive retraction. Filter can be serviced in the field. The 620 head is designed for large residential, commercial and institutional systems. Available in four models: 1/4-circle, 1/2-circle, 3/4-circle and full-circle. Full-circle covers area 90 feet in diameter. The all new 550 fixed-spray pop-up can cover up to 30 feet and can be purchased with 11 nozzles to alter the arc of the spray. The adjustable shrub head comes in seven models, from 1/4 to a full arc and from a radius of four to 12 feet. The adjustable stream bubbler is designed for use in flowerbeds, ground cover and shrubbery for which ground-level watering is beneficial. It does not spray. It has an adjustable flow or stream. The stream bubbler is available in three models, for 1/4, 1/2 or full arc. It will cover up to nine feet in diameter. For more details, circle (704) on the reply card.



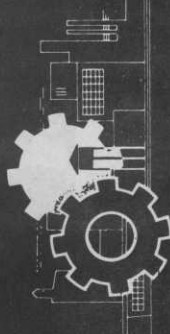
IMPROVED ECONOMY TRACTOR, Engineering Products Co., Waukesha, Wis.

New operating ease in 1971 models is offered by a new 1,000 lb. capacity hydraulic lift system available on all Economy tractor "Power King" and "Jim Dandy" models. Fingertip control begins with pressure supplied by a separate, heavy-duty gear pump which delivers 1.8 gpm at 3600 rpm. A special four-position valve provides control to lift, power, hold, or "float" the bulldozer, mower, plow, or other tools. For details, circle (707) on the reply card.

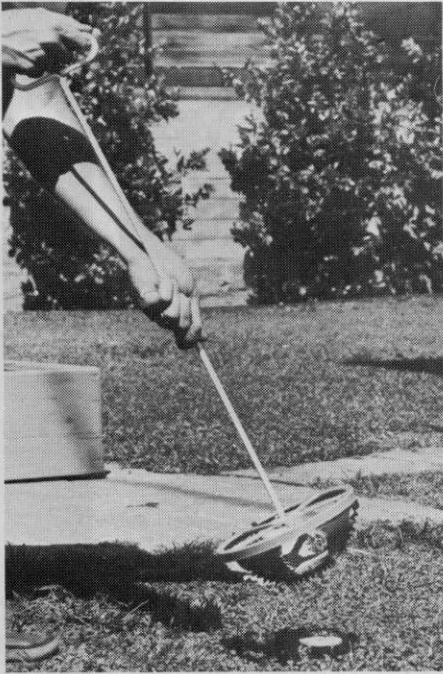


UNI-LOADER TRAILER, J I Case Company, Racine, Wis.

The Uni-Loader trailer has a capacity of 7,500 lbs., and is designed for rugged service and easy towing at highway speeds to 50 mph. An extendable tongue provides adjustable overall lengths of 14'6", 15'6" and 16'6" for proper weight distribution. Six ply tires. 8,000-lb. hitch and surge brake assembly. Hydraulic brakes available. Loading ramps are "ZEE" type tread plate 15" wide and 56" long. For more details, circle (708) on the reply card.



New Products Especially for Turf



SPRINKLER HEAD TRIMMER,
W. J. Seidler Co., Los Angeles, Calif.

"Mr. Trimmer" is a newly introduced lawn and garden tool designed to trim grass around sprinkler heads and to cut out crabgrass and weeds that travel under lawns. It also is an efficient digger for planting seedlings and bulbs. Made of 20-gauge steel, with baked enamel finish, Mr. Trimmer works with an easy twist-and-turn motion. Specially designed cutting edges do a clean-cut job. For more details, circle (709) on the reply card.



BURNER SPRAYER, Aeroil Products
Co., Inc., South Hackensack, N.J.

Aeroil's new combination burner and sprayer is especially designed for golf course maintenance. The unit is available with either a four or five gallon fuel tank. Model #99 burner uses kerosene. The torch is equipped with a shut-off valve and pressure gauge. A sprayer attachment is available for insecticides. Model #99 is especially applicable for burning weeds around the golf course. For more details, circle (710) on the reply card.



IMPROVED SPREADER,
Vandermolen Corp., Livingston, N.J.

The exclusive "Dreycal" epoxy plastic finish is now available on a lower priced Diadem spreader, the new Diadem 290. According to the manufacturer, the "Dreycal" finish is made of a similar epoxy resin as used on the heat shield of the Apollo space capsule. The "Dreycal" finish provides long-range protection from rust and corrosion and allows for easy cleaning. The Diadem 290 has a capacity of 11 cubic feet (9 bushels) or roughly 770 lbs. of fertilizer. The spinner spreads a 50-ft. swath. For more details, circle (711) on the reply card.



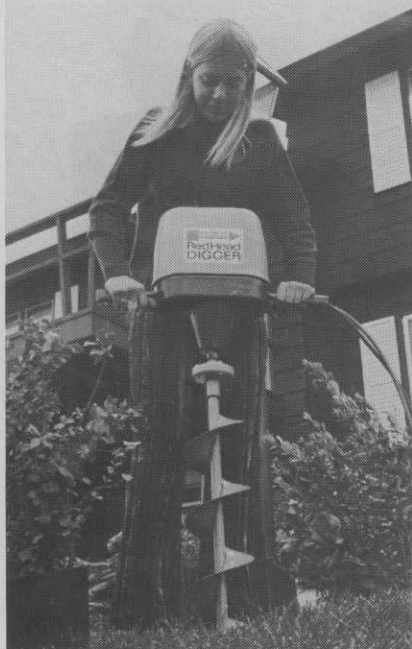
COMPACT LOADER, International Harvester Co., Chicago, Ill.

Highly versatile for all types of landscaping operations is this new IH 3200 Compact Loader to be exhibited at the 9th annual meeting of the Associated Landscape Contractors of America, Jan. 18-22, New Orleans. The 3200 with hydrostatic drive has forward and reverse speeds anywhere from 0 to 8 mph. This ¾-ton, 6.8 to 20 cu. ft. capacity loader pivots in its own length, works under 6-ft. clearance, passes through 4-ft. wide openings. For more details, circle (715) on the reply card.



PALOMINO MOWER, Roof Manufacturing Co., Pontiac, Ill.

The Roof Palomino carries four men and their equipment at speeds up to 14 mph. Three 20-inch mowing blades mow large areas fast without scalping. Two PTO stations for driving sweeper, pump, sprayer. Big low-pressure flotation-type tires give the machine traction under adverse conditions. All-weather cab provides operator protection day and night, year around. The 18 hp, hydrostatic transmission allows speeds from a creep to a crawl to a run without shifting. For more details, circle (716) on the reply card.



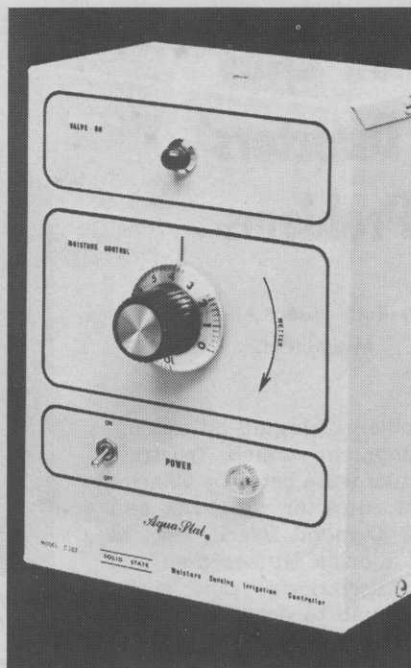
RED HEAD DIGGER, The Savage Co., Dodge City, Kans.

This one-man hole digger operates from any car, truck or tractor 12-volt system. Battery clamps with 20-ft. flexible leads make jobs easy to reach. It's powered by a 2 hp Prestolite motor. Augers come in six sizes, from two to seven inches in diameter. Standard length auger digs holes to 32 inches, and 44 inches using the 12-inch optional extension. Other optional attachments are an adjustable tension slip clutch, Jacobs geared three-jaw 1/2-inch drill chuck, and a gasoline engine 3/4-inch chuck starter. For more details, circle (712) on the reply card.



IMPROVED POWER RAKE, F. D. Kees Mfg., Co., Beatrice, Neb.

Engineering features designed to minimize damage to lawns when using mechanical raking or thatching units have been incorporated into both 1971 Powerake models. A Kees spokesman explained that both 4 hp and 5 hp Powerake units utilize 28 hardened steel plate, self-cleaning fingers set on four satellite shafts along with 52 tough Implex spacers. An additional feature of the 1971 models is that the entire shaft may be turned end-to-end to equalize wear. The individual satellites may be easily removed for quick change of worn fingers. For more details, circle (713) on the reply card.



MOISTURE SENSING IRRIGATION CONTROLLER, AgTRONICS Mfg. Co., Barstow, Calif.

The AQUA-STAT is an entire family of controllers, ranging in size from a single station operation to a 26-station controller. Working with an irrigation system, it becomes a "servo-mechanism," capable of maintaining automatically the exact degree and range of moisture for optimum growing conditions of the particular plant. It monitors the soil moisture at a number of points, by means of remote buried sensors. These sensors continually feed back information to the controller. Signals are then generated to operate the proper control valves automatically. For details, circle (714) on the reply card.



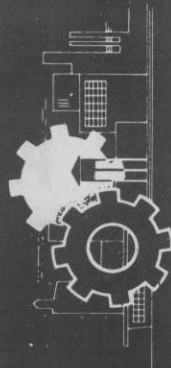
THE OUTLAW, Applied Research and Development Co., Houston, Tex.

This rugged terrain vehicle features an articulating/oscillating center section (45° turn, 20° oscillation). High torque industrial engine (Ford gasoline or Perkins diesel). Turning radius for inside tires is 6 ft.; outside tires, 13 ft. Width is 86"; Length, 179"; height to top of canopy, 96". Ground clearance is 13" at axle, 19" at pivot point. For more details, circle (717) on the reply card.



FOAMSPRAY, The R. L. Wilson Co., Houston, Tex.

Wilco's foaming agent enables more efficient and effective application of herbicides. FoamSpray reduces the amount of water needed; increases the herbicide action on the plant surface; provides visual evidence of spray coverage. No special equipment needed other than foam generator attachment for spray nozzle. For more details, circle (718) on the reply card.



New Products Especially for Turf

Floridian Cites Park Directors' Five Problems

By Ruth Stuart Allen
Miami, Fla.

Five problems hinging on upkeep and development which frustrate park directors were listed by Charles H. Swisher, director of parks and Recreation, Ormond Beach, Fla., at the recent Florida Nurserymen and Growers Association's trade show. All of them had to do with the inevitable "second person" in government administration.

First, Swisher pointed to the purchasing of equipment. A park director, he said, best knows the type of machines he needs to perform certain jobs, light or heavy.

Enters, then, the purchasing agent, "Who knows nothing about our problems. Chances are he will buy the biggest and cheapest pieces without consulting the director, feeling that he is saving the taxpayers' money." He stressed that the people responsible for the end result should help make such decisions.

2. The privilege and importance of passing on job applicants. Sometimes these people, hired without the director's approval, work out, but as a rule it is time wasted for everybody when personnel directors who "have no knowledge of park maintenance, etc., arbitrarily employ an applicant without consulting the department head under whom the new employee will work. "We must have the final say on any employee hired, to be sure he understands the work he will be doing."

3. Each administrator should have the privilege of okaying the pay scale based on the man's ability and type of position he will be filling.

It is folly, Swisher said, "to stereotype our employees with others within the department, or with those in other departments. Each man should be paid on the basis of his work and not that which someone else is making."

4. Many small departments must depend upon a central garage for maintenance repairs. "In my case, a lot of man-hours are lost because except during the grass season, my department does not have priority, and my equipment does not receive



Refinement of horticultural standards, especially as applied to highway landscaping, was the topic of a recent meeting in Washington between John Ryan, right, chief landscape architect of the New York Department of Transportation, and Ray Brush, secretary of the American Association of Nurserymen. Ryan, a new member of the AAN Horticultural Standards Committee, was appointed when AAN underwent a reorganization of a number of its working committees to include non-nursery industry members. Of major concern to highway landscape architects is improvement of standards for small flowering trees used along the nation's highways. The AAN Horticultural Standards Committee is responsible for establishing stock standards and specifications. The committee is charged with keeping U.S.A. Standard for Nursery Stock current with industry needs and approved practices.

the attention I feel is necessary. This is a park system's biggest key to survival ... the condition of its equipment."

Swisher feels that preventative maintenance is important, then, when a piece of machinery does require an overhaul, it is not out of service too long.

5. The all-important budget: Park administrators should have a voice in how much money they need, where and how, and for what purpose it should be spent. "Our budget planning should not be left to others. But if this is not possible, be sure you 'red star' the items you need most."

Many park jobs are started and not finished he said, because of insufficient equipment, manpower and funds to follow through.

USDA Asked to Speed Up Gypsy Moth Research

Woodland and suburban environments in many parts of the Northeast may be destroyed unless gypsy moth research is vastly increased, the National Gypsy Moth Advisory Council has told legislators and officials of the U.S. Department of Agriculture.

Council Chairman William H. Gil-

lespie asked that efforts of USDA's Agricultural Research Service and Forest Service to develop new and better ways of controlling the gypsy moth be increased by about 22% in Fiscal Year 1970 and by nearly 45% during each of the following four years. The request is based on a "program for integrated control of the gypsy moth" developed jointly by USDA and the infested states. The program calls for intensified research into the combined use of nonpersistent chemicals and such biological controls as sex attractants, insect diseases, and increased emphasis on parasites and predators including the introduction of new ones from foreign countries.

In the caterpillar stage the gypsy moth eats leaves. Repeated defoliations will kill trees, thereby polluting, and even destroying, forest environments. During 1970, gypsy moths defoliated nearly 800,000 acres of woodlands in eight Northeastern states, thereby tripling the acreage defoliated in 1969 and causing six times more damage than in 1968.

Caterpillar hordes are currently spreading outward into new states. At present, Connecticut, Massachusetts, Rhode Island, New Jersey, Maine, New York, New Hampshire, Vermont, and Pennsylvania are infested. The trapping of numerous

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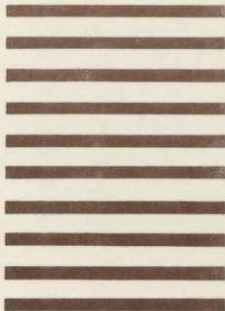
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Ohio's Worst Nursery Pests

Here's the ranking of insects and disease pests in Ohio nurseries in 1970 as compiled by the Ohio Department of Agriculture, Division of Plant Industry.

Rank 1969	Rank 1970	Pest
5	1	Spruce mite
4	2	Cooley gall aphid
3	3	Fletcher scale
1	4	Taxus mealybug
2	5	Eastern spruce gall aphid
9	6	Aphids (misc. hosts)
6	7	Birch leaf miner
12	8	Bagworm
7	9	Black vine weevil
13	10	Spruce Needle Mixer

Rank 1968	Rank 1969	Disease
1	1	Scab (Flowering Crabs)
2	2	Crown Gall (Woody Hosts)
17	3	Mildew (Perennials)
10	4	Leaf Spots (Perennials)
3	5	Foliar nematodes (Mums)
11	6	Anthraxnose (Shade trees)
....	7	Apple scab (Malus)
4	8	Juniper blight (Juniper)
7	9	Cedar apple & Hawthorn rust
8	10	Verticillium wilt (Woody hosts)

Which? Algicide or Algistat To Clear Up Foul Water

Slimy swimming pools, clogged industrial water filters, foul drinking water — algae is usually to blame.

Long-term environmental control may be the ideal solution to algae problems. But a University of Wisconsin water quality specialist feels that immediate chemical treatment is necessary when nuisance algae threaten public water quality and hygiene.

Speaking at the First National Biological Congress, George Fitzgerald contended that the first step in chemical control is to decide whether to completely kill the algae with an algicide or simply to keep them at a low level with an algistat.

"This decision," said Fitzgerald, "depends on the kind of algae. Some, even in very small amounts, cause foul odors, while others are only offensive in extremely large numbers."

Hardness or alkalinity of the water supply is another factor to consider when selecting a control chemical, according to Fitzgerald. For example, copper sulfate, unless properly treated, combines with some of the chemicals in hard water and drops out of solution. This is also a problem with some compounds currently used to control algae in swimming pools, he added.

Often the algae themselves may be releasing compounds into the water which inactivate the algicides, Fitzgerald explained.

Some algae are enclosed in a sheath which protects them from the algicide. Others, growing in a thick mat formation, may be killed at the surface but will escape the algicide at the center.

Scientists are currently investigating new ways to make algicides more effective. Fitzgerald suggested applying different algicides in a pre-determined sequence.

Another possibility is the use of synergists, chemicals which are not in themselves toxic but which increase the toxicity of algicides.

"Probably the most effective control of algae problems in swimming pools and industrial cooling towers is preventive maintenance," Fitzgerald said.

"If the proper concentration of chlorine is well circulated through the pool, algae will not be a problem. Likewise, regular use of an algicide on water cooling towers will prevent a build-up of the problem algae which clog pipes and cause dangerous overflows."



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USED EQUIPMENT

80 FOOT TELESCOPIC CRANE mounted on 1963 International truck, model 1600. Gas driven generator, welder runs crane. Both truck and crane in A1 condition, ready to work, \$7,200.00. William Lang Tree Care, Inc., Phone Pleasant Valley, New York 914 635-2829.

trimmings



OUR CHRISTMAS TREE this year carried a tag with this information on it: "For many years, this tree has beautified the land; cleansed the air; provided you with oxygen; and protected your water supply. Its removal has freed other trees to make a similar ecological contribution. After it has added joy to your Christmas, let the tree continue to benefit the environment. Place it on your lawn as a bird shelter and feeder, or remove its branches for plant mulch. The remaining trunk will provide rustic wood of many uses." We call that an outstanding sales promotion and public relations message from Deeks Tree Farm, Nova, Ohio.

THOMAS JEFFERSON and GEORGE WASHINGTON may be squaring off at each other, where ever they are. Grounds renovation of the Jefferson Memorial hit a pest snag recently. Forty-five truckloads of topsoil dumped on the grounds were infested with white fringed beetles. The soil came from a quarantined field in northern Virginia once owned by George Washington.

A NECTARINE TREE from the Reedley Nursery, Inc., of Reedley, Calif., has the distinction of being awarded the 3,000th plant patent by the U.S. Department of Commerce. The patent was issued to Frederic W. Anderson.

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TURF MANAGER experienced in sod production, general maintenance services, sales, with excellent references and background, desires challenging position with company interested in growth. Southern area preferred. Box 64, Weeds Trees & Turf, 9800 Detroit Avenue, Cleveland, Ohio 44102.

unique koa and ohia trees are menaced by an unknown insect or disease. "In some places the trees are dying so quickly the leaves didn't have time to fall," reports forester Robert E. Nelson, director of the Institute of Pacific Islands Forestry. The ohia tree is essential for watershed and the koa tree is highly prized for its black mahogany-like wood, often carved into bowls and statues.

NEW JERSEY'S State Agriculture Department is predicting the loss of one million oak trees in 1971 from damage by gypsy moths.

ALLIED BIOLOGICAL CONTROL Corporation has issued an attractive folder and pin demonstrating its support of efforts to reduce pollution. The lapel pin is the green and white ecology flag. The Greek letter, Theta, warning of death, symbolizes the threat to earth and its atmosphere. Green stripes are for unspoiled land; white for pure air.



The front of the folder states: "Once the air was clean, the water clear. We could enjoy the aroma of the earth, we could walk the land. It is incredible what we have done to America in 200 years. Too much of it is now noisy, cluttered ugly and dirty. Pollution won't stop unless each of us makes a commitment to stop the environmental destruction going on all around us. Those of us who care, can wear this symbol as our commitment and pledge to act." Allied Biological Control is an aquatic and industrial weed control firm headquartered at Wellesley Hills, Mass.

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