



GCSAA

"The Golf Course Superintendent and the Changing Times," is the theme of this year's 44th Annual Golf Course Superintendents Assn. of America International Turfgrass Conference and Show to be held January 8 to 12 at the J.B. Hynes Civic Auditorium in Boston.

Welcoming ceremonies and the official opening of the conference will begin Monday morning January 8 with the president of the GCSAA, Robert V. Mitchell, presiding.

The educational assembly will begin Monday afternoon at 1:30 in the main ballroom of the Sheraton-Boston Hotel, headquarters for the convention. Richard W. Malpass, a GCSAA director and superintendent at the Riverside G&CC, Portland, Ore., will chair a session on "Legislative Changes and the Golf Course Superintendent." The "Occupational Safety and Health Act"; "Noise Levels and Golf Maintenance Operations," and "Fertilization Practices and Soil Pollution," are the subjects. A one-hour session Monday afternoon will be devoted to "Superintendent Tournament Responsibilities: Before, During and After." Donald J. Makie, superintendent at Torrey Pines Municipal GC, San Diego, will chair the session. Selected panelists will discuss their experiences.

The educational assemblies continue Tuesday afternoon, after the exhibits open in the auditorium in the morning, with a discussion on "Changes in Putting Green Construction Concepts," chaired by Norman C. Dennehy, superintendent at the Abeniqui CC, Rye Beach, N.H. Viewpoints of the United States Golf Assn. Green Section, researchers, builders and architects will be discussed.

"Changes Affecting Turf Management Practices," will be chaired by Allan MacCurrach Jr., superintendent, Chevy Chase CC, Chevy Chase, Md. This is the "technical" session of the conference dealing with bunker maintenance, factors affecting root development and nitrogen fertilization. Two themes that should not be missed in this session deal with the status of mercury fungicides and anti-burning laws.

continued

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1. HARLEY-DAVIDSON
2. CUSHMAN
3. CLUB CAR



The fifth educational session Thursday morning is on "Changes in Automatic Irrigation Concepts." Walter J. Wilkie, president of March Irrigation and Supply Company, Muskegon, Mich., will chair the session. Thursday afternoon's session is on "Changes in the Demand for Superintendents." Malcolm I. Taylor, superintendent, Elmendorf Air Force Base GC, Anchorage, Alaska, will be the chairman. An educator, student, club official and superintendent will offer their views on this topic. The final session, Friday morning, is on "Changes and the Thinking Superintendent," chaired by William E. Eckert, superintendent, Maple Bluff CC, Madison, Wis.

Although the topics in all sessions are solid, the one apparent weakness on the agenda appears to be on the time allotted for the Monday afternoon educational session on legislative changes. It is highly unlikely that John J. Spodnik, superintendent, Westfield CC, Westfield Center, Ohio, and a past president of the GCSAA, will be able to cover the highly complex, controversial and important subject of OSHA in only 45 minutes. Spodnik has considerable knowledge on the subject and is an effective speaker, but he just won't have the time for anything but a broad overview. The other topics of this session, noise levels and fertilization practices and soil pollution, each are allotted only 30 minutes and are being presented by Jacobsen and Toro personnel, respectively. This session should have been lengthened for all of Monday afternoon, and there should have been additional speakers on each of the subjects. It is interesting to note that not one Federal or state official will be speaking before the superintendents. These are the people making and implementing policy and

their views should be heard and understood. Minimum wage legislation and union problems and solutions are missing from the agenda also.

The GCSAA is hoping to eclipse last year's attendance mark in Cincinnati of over 4,000 participants. It remains to be seen whether this goal will be realized. The GCSAA should receive some criticism for selecting such an early date, within one week of the end of the Christmas holidays. Also, many superintendents use this convention as a vacation and take their wives. Cold Boston in January may not seem like their idea of a vacation. For the second consecutive year, the golf tournament will be held at a separate site from the convention.

On the following pages GOLFDOM has listed the merchandise that manufacturers, distributors and representatives will be exhibiting at the GCSAA show. The listing is not official; only the companies, not the association, have indicated to GOLFDOM that they will be at the show.

An asterisk preceding a company's entry indicates that details on its line were unavailable at press time.

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GOLF CARS AND EQUIPMENT

Club Car, Inc., features the four-wheel electric *Caroche* golf car with automotive steering, aluminum I-beam with triple-thick impact resistant fiberglass body. Offers 1,298 square inches of foot-room. Also available are the *Caroche Runabout* and *Vanguard* over-the-road electric vehicles capable of sustaining speeds of 24 to 26 miles per hour for a distance of 53 miles on a single battery charge.

Cushman Motors, Div. of Outboard Marine Corp. Eight models make up line for 1973. The four-wheel *Town & Fairway* comes with 36-volt electric or 10hp gasoline power. *Gran Cushman 400*, a four-wheel car, in electric or gasoline model. *Gran Cushman 300*, three-wheel model, in electric or gasoline. Equipment same as 400. *Trophy 400* (four-wheel) and *Trophy 300* (three-wheel) electric cars.

E-Z-Go Car Company, Div. of Textron Inc. Features three-wheel (*X-440*) and four-wheel (*X-444*) electric and three-wheel (*GX-440*) and four-wheel (*GX-444*) gasoline golf cars. Three-wheel models feature beefed-up front fork and dual hydraulic shocks. Four-wheel models have low center of gravity, higher ground clearance and shorter turning radius. Electric cars feature a 36-volt D.C. engine with a motor shaft that connects directly to the differential pinion shaft.

Harley-Davidson Motor Company offers a four- and three-wheel electric and four- and three-wheel gasoline golf car line for 1973. The four-wheel cars feature individual front wheel suspension, coil

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Golf course superintendents and other turf experts throughout the country rely on these outstanding Chemagro Blue Bullseye chemicals to keep their grass in first-class condition throughout the year:

***DYRENE** 50% Wettable Powder turf fungicide provides outstanding protection against leaf spot, melting-out, copper spot, rust, *Sclerotinia* dollar spot, brown patch and snow mold. Will not clog or corrode spray equipment. No unsightly deposit. Will not stain fabric or shoes when dry.

***DASANIT** nematicide provides fast contact and long-lasting residual control of nematodes. Merely apply with a granular applicator and drench the soil with water.

***DYLOX** 80% Soluble Powder insecticide provides outstanding control of sod webworms. Three spray applications at monthly intervals are recommended.

***BAYGON** 70% Wettable Powder insecticide provides economical, long-lasting control of certain destructive insects attacking turf: Sprays are easy to mix and apply.

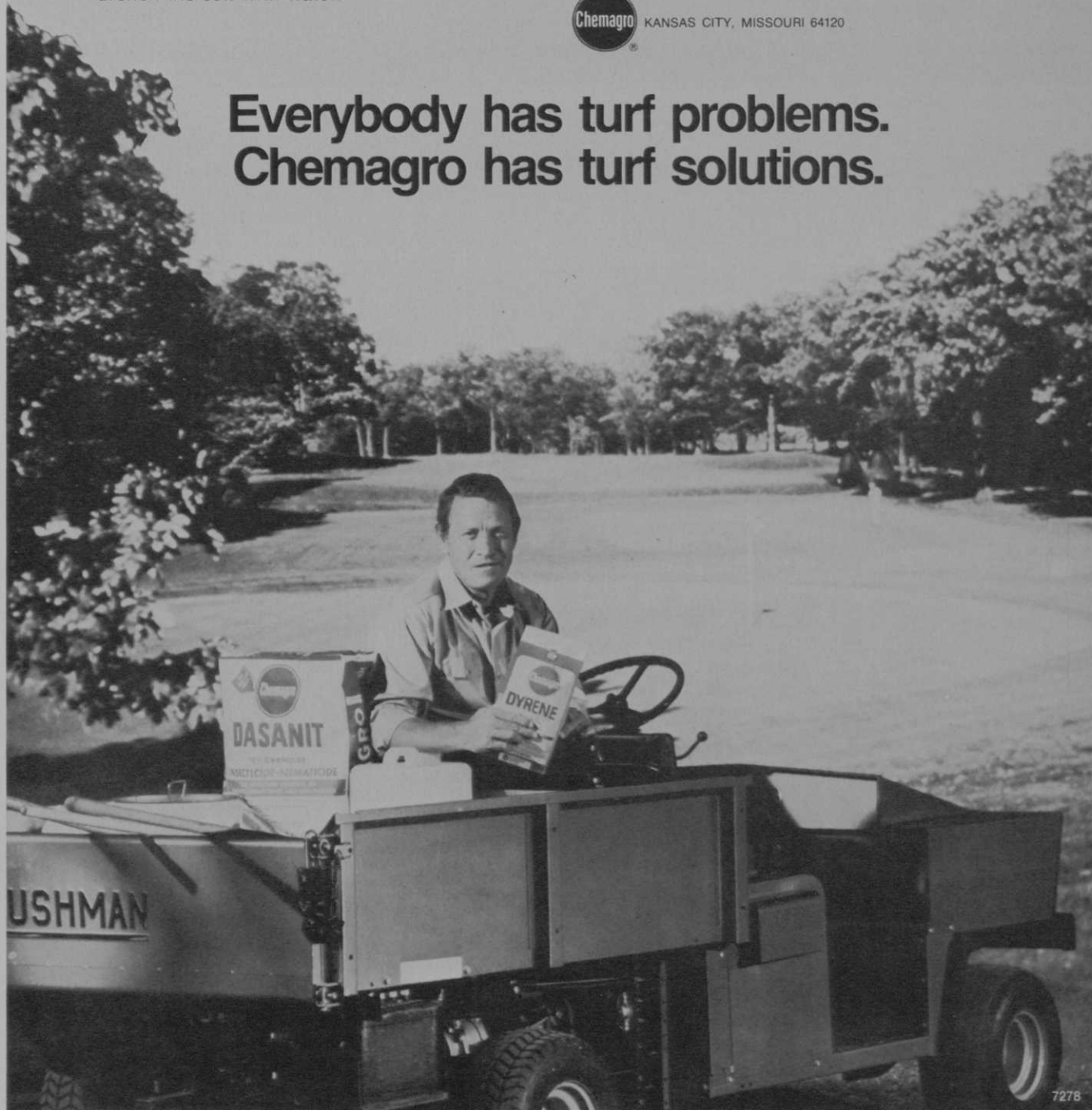
***DEXON** 35% Wettable Powder fungicide is unsurpassed for long-lasting control of *Pythium*. Will not cause leaf burn when applied as directed. Compatible with other turf pesticides.

Contact your Chemagro supplier *now* for full information about these time-tested turf chemicals.



KANSAS CITY, MISSOURI 64120

Everybody has turf problems. Chemagro has turf solutions.



7278

For more information circle number 177 on card

You're looking at a whole lot of different

That, very simply stated, is the reason why your Jacobsen distributor offers a full line of turf-care equipment.

From seeders to mowers to sweepers.

After all, you won't need absolutely everything we offer to keep your turf looking great. But whatever you do need, it's good to

know there's one guy out there at the other end of your telephone who can get it for you.

He won't get you something kind-of-like what you need, either. He'll get exactly what you need. He can do it because he's backed by the most complete line of turf-care equipment there is.

... Features



ways to make good turf look great.

And that "full line philosophy" is one of the big reasons your Jacobsen distributor handles Jacobsen. (Since he's an independent businessman, he can carry just about any line he darn well wants to. But having such a complete line to work with gives him more ways to help you maintain your great-looking turf.)

So if you'd like to have a guy on your team who cares as much about turf as you do, get ahold of your Jacobsen distributor.

He not only knows your equipment needs inside and out, he can get you what's needed to help make good turf great. When all is said and done, would you really want it any other way?

Your Jacobsen Distributors

Before we sell it, we buy it.



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

For more information circle number 162 on card

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shocks, vinyl floor mat, beverage holder and a Master Drive electrical circuitry system. Gasoline cars feature Dyna Start instant ignition system, which starts and stops the engine as the accelerator is depressed or released.

Pargo, Inc., features new improvements in its 1973 golf car line. Electric golf cars with adjustable seat back, increased protection including side rub rails all around the fiberglass segments of the car. Increased leg room and storage space for pocketbooks and sweaters. Car has been designed to give deluxe ride by the use of coil rear springs.

Texas Refinery Corp. features specialized lubricants, fuel stabilizers, tire sealants and chemical cleaners.

MASSLINN*

disposable golf towels

• **NON-WOVEN
FABRIC**

• **NO LOSSES...**

• **NO LAUNDRY PROBLEMS**

For samples and information:

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Offices in leading cities

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KK

For more information circle number 207 on card

IRRIGATION EQUIPMENT

Aqua-Dial features underground rotary gear-driven pop-up sprinklers, lawn and shrub spray heads and above-ground impact sprinklers—full circle.

Batrow Laboratories, Inc., features *H₂O* lawn irrigation systems including pop-up head sprinklers and nozzles, electric valves and adapters, saddles and accessories.

Buckner Sprinkler Company, showing a general line of sprinklers, valves and controllers, including pop-up rotary impact type, gear driven, and cam driven sprinklers. Also the *Binar* two wire control system.

Certain-teed Products Corp., Pipe & Plastics Group, features PVC plastic and asbestos-cement irrigation pipe.

Cla-Val makes automatic valves for pressure and flow control.

Griswold Controls will show irrigation valves, selenoid operated, A.C. and D.C., with automatic self-cleaning and self-draining features. Also the Griswold controllers for large and small irrigation systems.

Hays Mfg. Company will show the *Select-O-Rain* 12-zone turf watering automatic controller with new Drum Programmer. Also the four-inch *Marfaid Selenoid*.

Irrigation Division, Toro Company, has automatic controllers and automatic valves, both hydraulic and electric; conversion actuators; pop-up spray heads; shrub sprinklers; pop-up gear-driven rotary stream jet pop-up sprinklers; electric three way pilot valve; impact drive sprinklers; quick-coupling valves and keys and a full line of accessories.

Johns-Manville Irrigation Corp. features the *Binar* automatic irrigation system. A newly-developed remote control field unit will be featured. The system eliminates satellites, lowers maintenance and prac-

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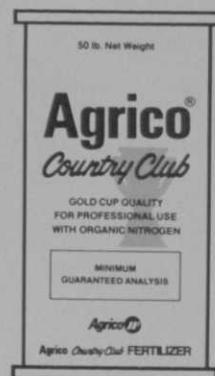


Agrico
 puts you
 eighteen
 up on the
 competition,
 before the
 competition
 even
 begins

Agrico Country Club fertilizers will help you get the most out of your golf course . . . the most people, the most wear, the most green. We've spent a lot of time developing a custom-tailored program for your golf course. We sincerely believe that it's the best there is. If you want a greener, thicker golf course, use Agrico. And you can stay eighteen up all year long.



One of the Williams Companies
 Agrico Chemical Company
 Tulsa, Oklahoma 74103



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tically eliminates disturbance when converting from manual to automatic. J-M pipe also on display.

Liqui-Trol Systems, Inc., specializes in water pressure booster systems for golf courses.

Moody Sprinkler Company Inc.,

1973 marks the golden anniversary of Moody's development of automatic sprinkler and valves. The first controller made will be shown along with new models of advanced central programmers.

L.R. Nelson Mfg. Company, Inc., will show a full line of sprinkler irrigation equipment.

Rain Bird Sprinkler Mfg. Corp. introduces its *Multi-Path Irrigation System*. Operates from central location, has modular, printed circuit

controls, is flexible and totally automatic.

Rain-O-Mat Sprinklers, Inc., features *Number 10H* part circle rotary pop-up sprinkler for use at up to 60 feet triangular spacing. *Number 21* long-range pop-up rotary sprinkler and *Number 7* screw-adjustable rotary pop-up sprinkler.

Skinner Irrigation Company offers a complete line of irrigation equipment featuring an upgraded version of the *UR-6* fairway sprinkler along with the new compact *UR-8* tee and green sprinkler.

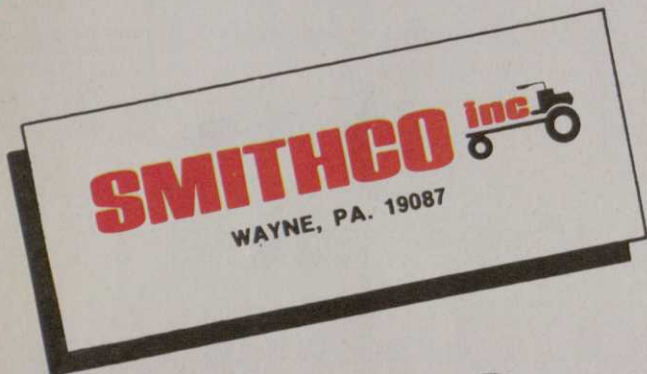
Sprinkler Irrigation Supply Company distributes golf course irrigation equipment.

Telsco Industries will show sprinkler heads, electric control valves and automatic controllers.

Thompson Mfg. makes gear-driven sprinkler heads.

Weather-matic Div., Telsco Industries, will be showing the new *K Series* impact sprinkler heads, which feature aluminum alloy vinyl coated body, available in full or part circles. Also showing the *Command Satellite* control system.

White Turf Engineers, Inc., distributes and installs irrigation equipment. Will show products manufactured by **Weather-matic**, **Rain Bird**, **Sloan**, **Smith-Blair**, **King Bros.** and **Ametec**.



NEW, IMPROVED EASY RIDER II TRAP RAKE



Smithco has taken the world's fastest and most maneuverable trap rake, made it smoother, quieter, and improved its finger-raking action to give you the most finished-looking trap. Added is a new, protective shield which keeps sand and dust from the engine, transmission, air filter, and a redesigned front end which allows for even greater maneuverability in small traps. When you want to do the fastest and best job in your traps, check Smithco's new synco-mesh **EASY RIDER II**.

MAINTENANCE EQUIPMENT

Atwater Strong Company, Inc., introduces *M1-T-VAC* vacuum loader attachments for riding tractors and mowers. Also the *Lo-Blo Air-Broom* and the *Lit-R-Blo* sweepers.

John Bean Div., FMC Corp., is showing three models of sprayer units. *Model 1010-GE* features 10 gpm at 500 psi. Has 100 gallon stainless steel tank, boom mountings for Cushman and most other carts, mechanical agitation with 6 1/2 hp Kohler engine; *Model MF-100G* features pto driven John Bean centrifugal pump. Up to 38 gpm

For more information circle number 205 on card

discharge at 40 psi, 19 anti drip nozzles with Cushman type mounting. Steel epoxy lined tank with stainless steel, optional.

Briggs and Stratton Corp. showing small, air-cooled, four-cycle, single cylinder engines.

The Broyhill Company is showing two wheel portable unit for lawn, garden and utility spraying. Corrosion resistant polyethylene tank with sump and drain fitting. Internal centrifugal pump driven by 3½ hp Briggs & Stratton engine. Bypass agitator thoroughly mixes solution. Variable pattern handgun with 12½ feet of hose.

Bunton Company makes heavy-duty commercial turf equipment; trimmers and edgers with eight- to 18-inch cuts; push mowers with 18- to 22-inch cuts; self-propelled riding units with finger-tip power steering in 23- to 52-inch cuts.

The Champion Company offers three models in its *Doo-all Trailer* line. *Roll-Dump* hoppers, available in one-cubic yard and two-cubic yard capacities, are also featured on two models.

The Cyclone Seeder Company, Inc., carries a complete line of broadcast hand and pull spreader/seeder.

Dedoes Industries, Inc., introduces a smaller version of its *Dedoes Aerator*. Can be used with the Bolens, Wheel Horse tractors or Cushman Truckster. Smaller pluggers make it ideal for tees and greens.

Edwards Mfg. Company features *Hypro* roller, and two- and four-cylinder piston pumps. Complete line of heavy-duty sprayers and accessories.

E-Z Rake, Inc., features its self-propelled power thatcher, available with an 18-inch width rake (*Model 48*). *E-Z Vac* vacuum (*Model 31*).

Gandy Company features the *Turf Tender 24-* and 42-inch spreaders.

Giant-Vac Mfg. Inc., makes a complete line of vacuums, blowers, truck loaders and thatchers for

cleaning all types of debris and renovating turf areas.

Goodall Div., Bunton Company, showing heavy-duty turf equipment, trimmers and edgers in 12, 18, 10-inch cuts; push mowers, 18, 19, 20, 22-inch cuts. Self-propelled riding units have finger-tip power steering in 24, 23, 32, 36, and 52-inch cuts.

Hayden Beatty Rambler, Inc., features self-contained dump trailers and materials transporters.

Howard Rotavator Company, Inc., introduces *Turf-Quaker* aerator units to relieve compaction and open up the soil for nutrients.

H.D. Hudson Mfg. Company is exhibiting the *Suburban Trail-N-Spray* power sprayer. It hitches onto any yard tractor or riding mower. Also the *Hudson Matador* with 15, 30, 50, and 100-gallon tanks, on wheels or on skids. Choice of three or five gpm pumps. Comes with tractor hitch. Also showing the *Peerless* line of power

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LITTLE BEAVER SPIKER

RED RIDER
Easiest loading, easiest operating and most durable workcart in America



TOP RIDER
The only riding top dresser—three times faster than any other top dresser.

Smithco's REDHEADS
keep greens greener!

SMITHCO'S big three—featuring the **LITTLE BEAVER** has to be the first team of turf maintenance equipment. **LITTLE BEAVER** greens spiker is the fastest riding spiker anywhere! Spikes 18 holes in 2½ hours. Turns on greens without ripping. They all have the interchangeable big red power heads. Check **Smithco's REDHEADS** when you want greener greens.

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4. E-Z-GO
5. PAR-EX
6. TERRA TURF
7. TUCO



sprayers and dusters.

Jacobsen Mfg. Company carries a complete line of turf maintenance equipment, including mowers, aerators, sweepers and top dressers.

Kohler Company makes a wide range of engines, including four-cycle, from four to 24hp and two-cycle, 20hp and up. New to the line is *Model K341*, a 16hp, one-cycle engine.

L.L. Larson Machine, Inc., features spreaders and sprayers.

Lindig Manufacturing Corp. New series of gas, diesel powered and three-point hitch brush chippers for mulching and pruning trees. Shredder-screeners for slash in, 12-cubic yard manual feed and tractor bed models available with 14 and 30hp gas engines.

The F.E. Myers and Bro. Company, features the *TurfLine* greens sprayer with 10 GPM., 300 psi., 100-gallon tank, 15-foot boom and Terra Tires.

Olathe Mfg. Company, Inc., features three models of brush and limb chippers. All have safety spring loaded throw-out clutch that stops feed, reduces injuries to operator.

Onan Div. of Onan Corp. introduces five models of engines with two-cylinder opposed pistons for golf cars, sprayers, and commercial lawn equipment.

Royer Foundry and Machine Company shows the standard *Royer Shredder and Clipper*, featuring the Royer Power Screen.

Ryan Equipment Company has im-

proved its *Greensaire II* aerator. Tines penetrate three inches into all types of soil, can remove 36 cores from each square foot with minimum of surface disturbance.

Skaggs Turf Equipment, Inc., features a sand trap rake and a core-shredder attachment for an aerator.

Smithco, Inc., features the *Little Beaver* greens spiker, which is said to spike 1,000 square feet a minute, and the *Top Rider* riding top dresser. Also the *Easy Rider* trap rake; *Hawk* sprayers with a fiberglass tank and *Lark* sprayers.

Stewart Bros. Company introduces the *Spread-All* top dresser designed to fit into the box of Cushman's standard size vehicles.

Teledyne Wisconsin Motor features *Wisconsin* and *Wisconsin Robin* long-life engines.

The Toro Company features *Rake-O-Vac Sweeper* with accessories, *The Landscaper 6* and the *Sandpro*.

Turf Vac Corp. introduces two sizes of *Truck Loaders* and a tractor drawn five-foot sweep *Lift Dump* machine. Also a five-foot sweep tractor drawn *Lift Dump* unit.

Vandermolen Corp. introduces the *848 Superblo* blower powered by a Wankel rotary piston engine. According to the company, the *Wrangel* offers 5,000 rpm and some 40 per cent more airblast than a four-cycle blower. New is the *Boar* mist-blower powered by a Wankel engine. Also, *KWH* back pack and wheeled blowers, *Diadem* brush chipper.

Vermeer Mfg. Company features stump cutters, tree movers, tren-

chers and vibratory plows.

Vicon Farm Machinery Inc. A complete line of dry fertilizer spreading equipment.

Weed Eaters, Inc., features gas powered trimmer-edger, utilizing mono-filament nylon as cutting device.

MAINTENANCE VEHICLES

Bruce Mfg., Inc., makes the *Pug* four-wheel drive utility vehicle.

Cushman Motors, Div. of Outboard Marine Corp. introduces for 1973, a modular system of turf care equipment. Each item in the system attaches to the three- or four-wheel *Turf-Truckster*.

Hawaiian Motor Company is showing the *Daihatsu* turf utility vehicle, with or without cab. Also *Larkin Jobber*, a small utility three-wheeled vehicle.

Hesston Corp. introduces the 18hp *Front Runner* grounds maintenance tractors and attachments. The *Model 180* drives Hesston's new retractable 80-inch batwing mower.

International Harvester Company will show the *2050A Loader* and *3122 Backhoe* with the *2400A Series Tractor*; also the *3200A Compact Loader* with 58-inch utility bucket and *Model 3082 Backhoe*; *International Cub 154 Lo-Boy* tractor; 14hp *International 149 Cub Cadet* lawn and garden tractor with hydrostatic drive; 3 1/2hp *International* walk-behind power mowers with grass catcher.

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