

TURF TRUCKSTER SYSTEM

Because the flexibility of the Cushman Turf-Care System saves you time and money. Here's how!

The System is built around the rugged, versatile 18 hp Turf-Truckster, 3-or 4-wheel model. With this one power source and options, you can haul, spray, spike, spread and top dress. And

save as much as 35% on equipment in the process.

Because, instead of buying separately powered units for each job, you buy only the Turf-Truckster and the modular Cushman accessories you need. So you pay less in total for equipment...and have only one power unit to maintain.

But that's not all.

The System is also a time saver that can cut your labor costs. Accessories mount on the back of the Turf-Truckster. Your men do their work quickly, efficiently...and then move on to the next job at speeds up to 22 mph. There's less wasted traveling time, so you get more work out of each hour of labor cost.

The Cushman Turf-Care System. Versatility, superior performance, economy. It's a tough system to beat.

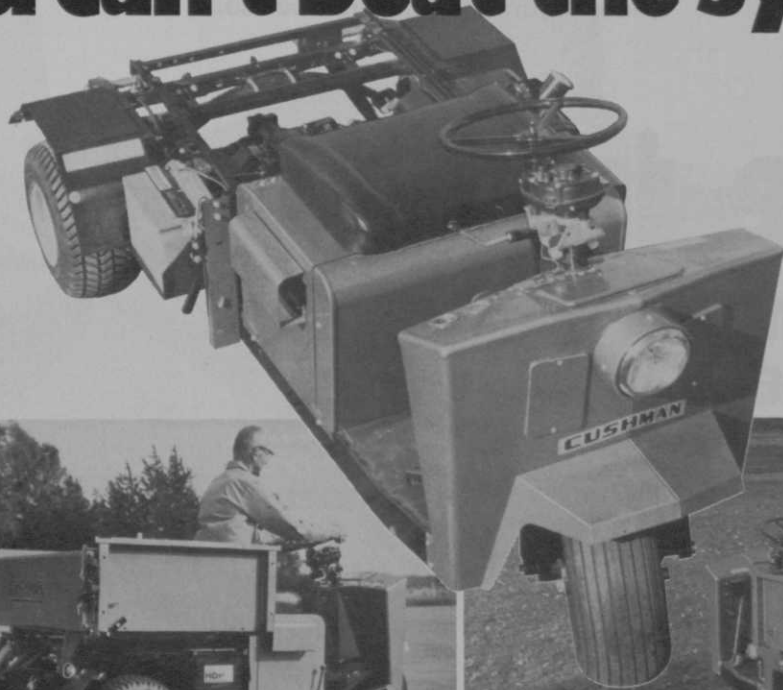
Write today for your free Cushman Turf Care Catalog.



CUSHMAN® TURF-CARE EQUIPMENT

DMC-Lincoln, a Division of
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Lincoln, Nebraska 68501

You can't beat the system.



For More Details Circle (131) on Reply Card

RYAN GREENSAIRE II AND THE GREENSAIRE II CORE PROCESSOR

Good looking greens are important to you, so you already understand the need for good aerating equipment.

But the good will of your golfers is important, too, so you want to keep your greens in play.

Our Greensaire team will aerate and process aerator cores in one simple operation. No longer will you have to rake up windrowed cores separately. This saves you time, money and keeps your greens in play.

Your golfers stay happy. You stay happy.

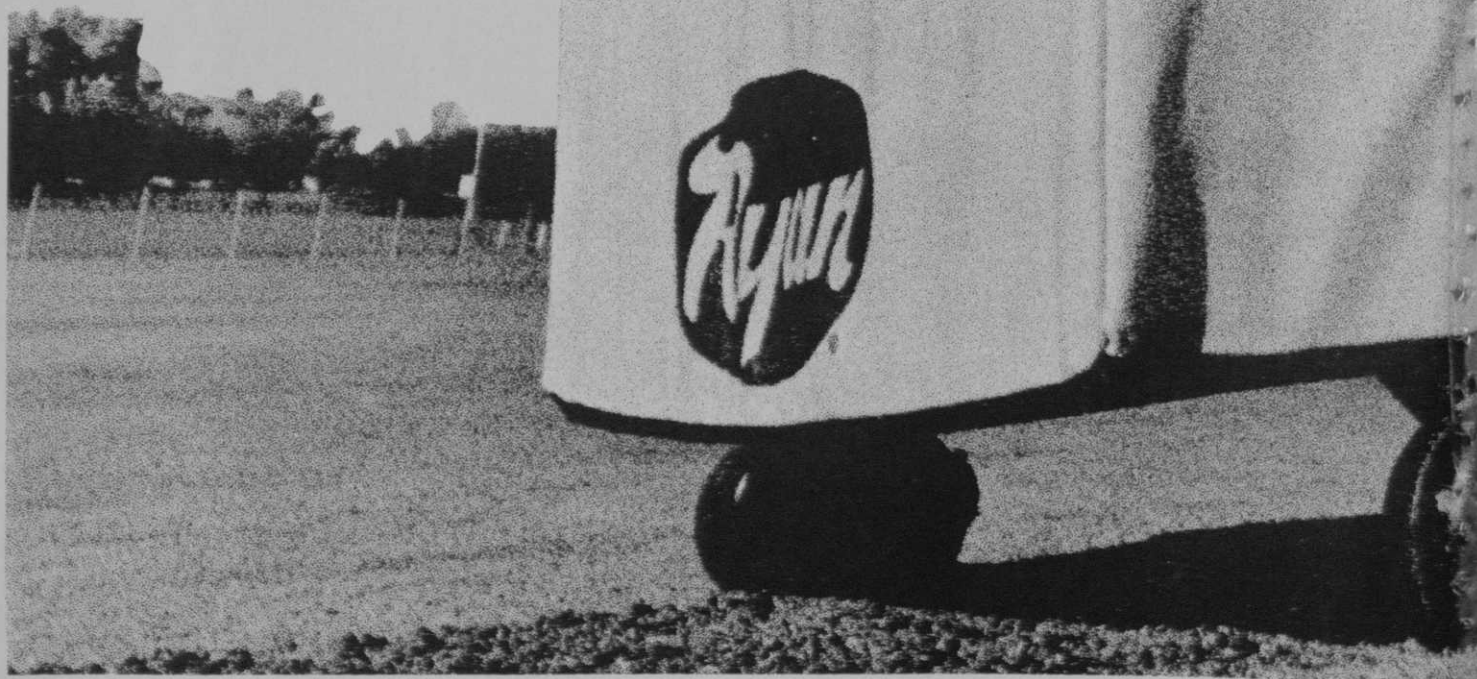
The first part of our aerating system, The Greensaire II, is ruggedly constructed to remove 36 clean cores from every square foot of turf. One pass relieves soil

compaction. Holes are up to 3" deep and uniformly spaced on 2-inch centers. You're assured of straight in and out penetration. There are different size tines for different ground conditions.



The Whole-in-one:

**your complete
greens aerating
system**



The second half of the system, the Greensaire II Core Processor, attaches to the Greensaire II aerator. It conveys cores and plant matter over a perforated grate as soon as they're pulled from the

ground. After breaking up on the grate, most of the loose soil is sifted back onto the turf through the grate as top dressing.

The remaining plant, thatch, roots and soil are carried to the top of the conveyor where they are sifted a second time. Remaining plant and thatch then go into a large removable bag. Up to 1000 square feet of green may be aerated before the bag needs emptying.

Only Ryan makes the Greensaire whole-in-one system, designed to save you time and money by combining two operations into one.

Protect your turf. And let your golfers play on through.

For more information, write:



RYAN TURF-CARE EQUIPMENT

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LINCOLN, NEBRASKA 68501



NEWS OF THE INDUSTRY from page 50

and evening meals. The training center will be in a new building under construction in the Minneapolis suburb of Eden Prairie.

Standard Golf Company Marks 50th Anniversary

To mark its 50th anniversary this year Standard Golf Co. has changed its name from Standard Mfg. Co. and added a new trademark. Its plant and offices remain at 220 E. 4th St., Cedar Falls, Iowa.

The company actually started business in 1910 by making steel gates, wagon tongues and farm-related equipment. In 1925, Standard began making a few wood poles, flags and steel cups for the golf industry. Three years ago, Standard sold their farm-related product division and now spends full time in the golf course accessory field.

Although W. K. Voorhees is retired, he still serves as a consultant

to his two sons, Robert and Maynard. Robert is president of the company and Maynard serves as vice-president and sales manager. Today, Standard is one of the world's largest manufacturers of golf course accessories. Each year, it has introduced new products designed and engineered to make golf course maintenance quicker, easier and less expensive. At the same time, these new products have added color and design to the best courses in the world. Standard distributes its products world-wide. Over 200 distributors handle the complete line of Standard golf course accessories.

500 Club Pros Take Aim At \$20,000 Disney Purse

More than 500 golf club pros will attempt to qualify for the ninth annual PGA-Victor/Etonic Match Play Championship set for Jan. 23-27 at Walt Disney World in Lake Buena Vista, Fla.

Victor Golf's PGA Div. had been sole sponsor of the Championship

since its inception. The addition of the Charles A. Eaton Co. as co-sponsor this year will hike the purse to over \$20,000, largest ever for the event.

The Match Play Championship is one of the more grueling tests of golf during the PGA's winter program. This year's finalists will play six 18-hole rounds over the last three days of the tournament.

Qualifying rounds set for Jan. 21 will reduce the field to 128 contestants. This group will engage in head-to-head matches over Disney World's demanding Palm, Magnolia and Buena Vista courses with the quarter and semi-finals both scheduled for Jan. 26. The Palm Course will be the setting for the 36-hole finale on Jan. 27.

Philadelphia Country Club's Joe Data, who picked up \$2,500 in prize and bonus money for his winning effort last year, is exempt from qualifying and will advance directly into the first round competition. Data defeated Dennis Tiziani of Madison, Wis., to capture last year's



Gentle mist from rough to rough!

Insecticides, fertilizers, herbicides or fungicides cover fairways, greens, roughs without tracking through, without missing those spots you've always found hard to get to. You can do it with the BEAN ROTOCAST air mist sprayer, the fast, labor-saving way to keep everything under control on greens, fairways, roughs, wooded areas and even around the clubhouse. □ ROTOCAST combines the best features of air and hydraulic spraying for greatest chemical dispersion in trailer or truck-mounted versions to meet just the kind of conditions your course requires. You can even windrow leaves away, faster and more easily. But don't take our word for it. Ask your dealer for a ROTOCAST dem-

onstration and see how ROTOCAST fits into a well planned and well executed spraying program that may mean the difference between profit and loss. Why not see your BEAN dealer now?

Or, for further information, write:

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For more information circle number 215 on card

Match Play Championship. The tournament will be held in conjunction with the annual PGA Merchandise Show.

NGF Releases Coach's Guide

Beginning February 1975, men and women coaches of secondary school and college-university golf teams will have a comprehensive reference written exclusively for the golf coach, which outlines essentials for preparing the framework of the inter-school program as well as methods for preparing the golf team. It is available from the National Golf Foundation.

Guided by NGF consultant and editor, Dr. Richard D. Gordin of Ohio Wesleyan University, material was authored by 10 prominent men and women coaches in addition to Dr. Gordin. Over 200 years of experience is represented.

Specific content focuses on methods of obtaining facilities and equipment, organizing the competition, organizing the team, teaching and coaching the fundamentals,

error correction, specialty shots, physical conditioning, practice methods and evaluation, rules and their importance, the mental process and golf, and some general thoughts about coaching. Cost of the *Golf Coach's Guide* is \$3.50. It may be obtained from the NGF, 707 Merchandise Mart, Chicago, Ill., 60654.

Quantity Food Preparation Discussed in New Book

Food service has become a big business. Ask any club manager on a busy Saturday night at his club.

Because of its phenomenal growth in the last few years, the food service industry has been faced with the problem of maintaining quality while turning a profit and coping with labor shortages.

McCutcheon Publishing Corp. has published a book entitled, *Supervision and Management of Quantity Food Preparation: Principles and Procedures*, by William J. Morgan, Jr. The book is intended to help solve the problems entailed with development of new food processing tech-

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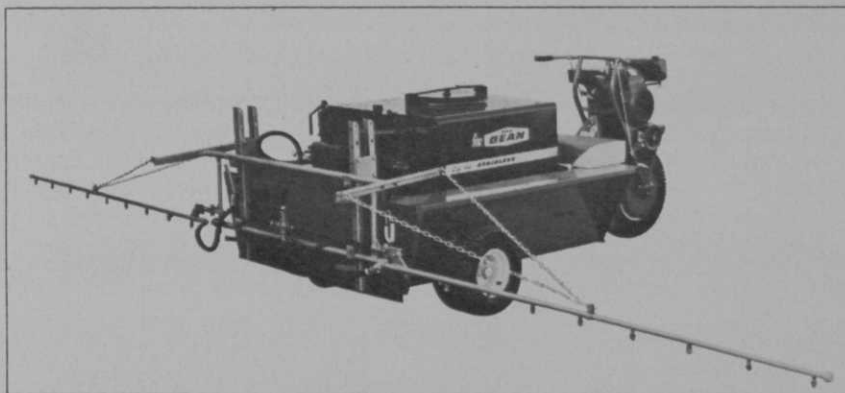
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Turfkeeper handles your spraying program without breaking your budget.

With its 100-gallon stainless steel tank, lightweight 15-foot boom (with 5-foot foldaway wings) and 10-gallon a minute spray rate, BEAN'S new Turfkeeper 1010GE is the low-cost answer to golf course spraying. Easy to mount and remove from utility vehicles, Turfkeeper is self-contained with gasoline engine drive, mechanical agitation and Royalette pump. Using a PTO vehicle? Turfkeeper MF-100-G is for you. Specially designed to maintain desired application rate despite changing PTO RPM'S, this model is extremely lightweight for maximum capacity for any ground condition. Also available is engine drive Model MF-100-GE for utility vehicles not having PTO drives. Both models have BEAN BONDED tanks with fibre-

glass centrifugal pumps for pressures up to 60 psi. All Turfkeeper models have outlets for optional hose and gun spraying chores on greens, and shrubs. Turfkeepers keep your costs down, your spray program tops. Get the full story on all the BEAN spray equipment for golf course use.

For further information, write:
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Visit us at the Show

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NEWS OF THE INDUSTRY from page 55

niques and the centralization of both production and cost controls. The book includes discussion of sanitation; menu planning; controls of costs and labor; and the purchasing, storage, preparation, and merchandising of food. It provides the reader with practical approaches to all these subjects, presented from a management viewpoint, and includes such down-to-earth aids as a glossary of culinary terminology and a quantity food purchasing guide.

Morgan is currently an associate professor in the School of Hotel, Food and Travel Services at Florida International University at Miami. Cost is \$12.50. Further information can be obtained from the company at P.O. Box 1292, Berkeley, Calif., 94704.

Colgate-Palmolive Acquires Maker of Tennis Rackets

Colgate-Palmolive Co. has acquired Bancroft Racket Co., Woonsocket, R.I. for Colgate shares valued at about \$4.8 million.

Colgate has merged Bancroft into a subsidiary in exchange for 220,000 Colgate common shares. Bancroft makes and distributes tennis rackets, tennis equipment and accessories, and it distributes tennis shoes and tennis balls made by Tretorn Inc. of Sweden. Colgate said Bancroft has signed a 20-year exclusive U.S. distribution contract with Tretorn.

Course Management Seminar Set by USGA Green Section

The Green Section's conference of golf course management will be at Hotel Biltmore, New York, Jan. 24, the day before the USGA annual meeting.

"Economy Measures for Survival" is the subject which will present views of the Green Section's experts, club officials, superintendents, club general managers and veteran players. Attention will be given the golf car as an economic factor in fee course and club operation.

American Tipplers' Tastes Changed by Rising Prices

A published report has found that beer is replacing wine as the fastest-growing segment of the alcoholic-beverage industry, partly because soft drink prices have shot up so high.

For years, beer consumption rose

at a steady 4.5 percent a year. This year, it is expected to rise by 5.5 percent, and it should stay over five percent for the foreseeable future, the experts say.

Whiskey keeps losing ground, reflecting a long-term trend toward lighter drinks. Whether vodka has finally deposed bourbon as tops in the hard-stuff class is still debatable.

please turn page



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Farley Named Golf Director At Pennsylvania's Shawnee

After a 14-year absence, Dick Farley has returned to the Shawnee Inn and Country Club, Shawnee-on-Delaware, Pa., as golf director.

Farley's appointment was announced by Karl Hope, owner of the Inn and Country Club and developer

of the Village at Shawnee, a community of country villas being constructed on the grounds of the eastern golf resort.

Farley, who had been at Shawnee from 1950 to 1960, is a well-known golf pro and promoter. Dick Farley Associates of New York as well as the Obitz-Farley Co., have promoted golf at resorts throughout the world.

Shawnee offers total resort facilities including a 27-hole championship course, with another 18-hole

course now being designed by Robert Trent Jones. Among the major roles Farley will play at Shawnee will be to conduct and coordinate major convention and corporate sales seminar efforts. He will also bring to Shawnee a series of amateur golf events including special golf packages for vacationers.

1975 Irons Price

The price of eight Royal Daisy irons produced by Royal Golf Co. is \$215. An incorrect price was printed in the last issue of GOLFDOM.

Slow-Releasing Nitrogen Produces Quality Turf

Organic and slow-release nitrogen sources at two pounds of nitrogen per 1,000 square feet per month have produced excellent quality bermudagrass turf in tests on southern golf greens, according to the Texas Agricultural Experiment Station.

The turf had acceptable growth, limited thatch accumulation and minimum leaching losses. On the other hand, inorganic nitrogen sources and higher rates of organic and slow-release sources produced excess growth and thatch build-up.

Potassium fertilization produced no measurable effect on turf quality or thatch. Nitrogen losses through leaching were very high from soluble sources compared to organic and slow-release sources. In addition to nitrogen source, application rates, irrigation practices and soil type had strong influence on the amount of nitrogen leached. Losses were as high as a half-pound of nitrogen per 1,000 square feet per month on sandy mixtures irrigated daily and fertilized with soluble sources at a rate of two pounds of nitrogen per 1,000 square feet.

Muny Course Design Guide

A new brochure, detailing steps for community-built golf facilities has been published by the American Society of Golf Course Architects.

It includes information on research, costs, site selection, financing and other important aspects of planning and building a municipal course.

For a copy of the brochure write American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601. □

A complete and inexpensive line designed for golf course use—

Mr. Chain

PLASTIC FENCING and TEE MARKERS

Mr. Chain fence components, tee markers and pegs last longer and cost less! Easy to install, they are strong, rust-proof, decorative, lightweight, and completely maintenance-free.

Mr. Chain Posts, Chain, and Decorative Tops

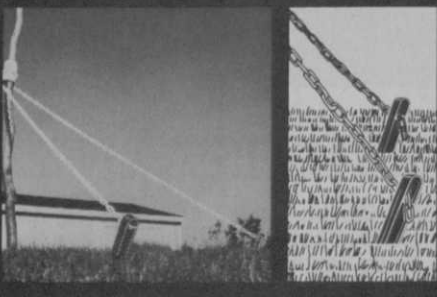
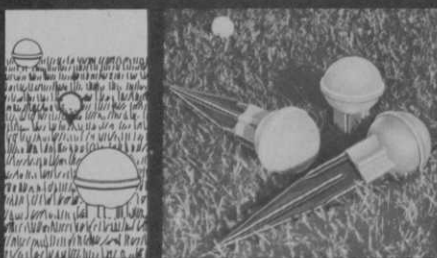
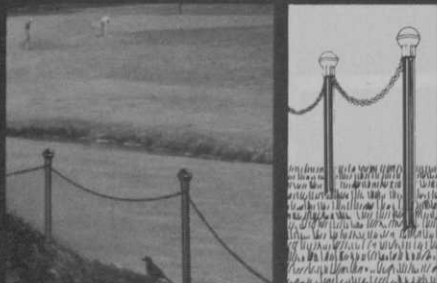
in a wide selection ready for instant assembly into decorative fencing that's practical and economical. Use it to border flowers and line sidewalks. Use it as a barrier to keep carts off tees and greens. Use it as a reminder to golfers to keep out of streams and marsh areas. Use it to designate, protect, and beautify.

Mr. Chain Colorful Tee Markers

are part of a complete line which includes markers for water hazards, lateral hazards, and out-of-bound demarcations.

Mr. Chain Short Pegs

are excellent for staking sod and for supporting new tree planting when used with plastic chain.



For complete catalog and prices, write to

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Four of the world's best turf care products. The Hahn Tournament Triplex.

The Hahn Tournament Triplex® is more than just a pretty face. Underneath her beauty lies the hardest working greensmower on the course.

She's first of all an excellent greensmower. She manicures greens with the precision demanded by the fussiest golfer. But that's expected from a Hahn greensmower.

What makes the Tournament Triplex different are the three other systems you get when you use her interchangeable cutting heads.

1. The patented *Verti-Cut® Units* for removing thatch and grain before they form. 2. The *Vibra-Spiker® Heads* that eliminate the back-breaking ordeal of "summer aerification." 3. The Utility Units for approach and tee mowing . . . or greensmowing after top-dressing.

Ask your Hahn distributor for a demonstration ride on our beautiful "Greens Management System." She's in a class all by themselves.

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Photographed at Oak Meadow Golf and Tennis Club, Evansville, Indiana.



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FIGHTING THE PEAKS AND VALLEYS from page 45

required per 6,400 square feet of putting surface. Based on this rate, to remove dew from 130,000 square feet of putting greens requires 2-1/3 man-hours. Repeated 30 times a year, 81 man-hours are needed annually.

Dew may be removed by water. Watering may be preferred to mopping as it dilutes the guttation dew, exuded from grass blades and high in salt content. It is a uniform, quick, and easy method occasioning minimum injury to the grass sward. Generally, mopping or watering-in is performed whenever the greens are not mowed.

At times the greens and aprons require sod replacement. Such maintenance requires about 300 manhours annually. A standard quoted for such operations is 1.5 minutes per square foot when the sod is cut by machine and laid by hand.

Tees. Tees are mowed with a triplex greens mower. The hybrid bermudagrass tees are mowed more frequently in summer than during winter. Over a year, tees are mowed an average of twice weekly. In addition, the tees must be serviced. The appearance of about 120 feet of golf cart paths near the tees must be checked, markers must be removed daily, ball washers attended, towels changed, benches cleaned and moved, and rubbish cans emptied. As with the greens, some of these tasks are done by the mower operator and others by the section man. Combining these tasks, nine hours are required each time the tees are mowed totaling 936 man-hours per year.

Tees are mowed vertically during spring and late summer. Each year 35 man-hours are budgeted for this task.

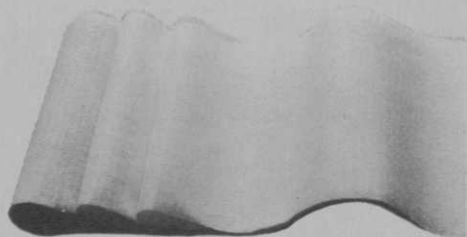
Fertilization. Tees are fertilized six times a year. The equivalent of one pound of nitrogen is applied per 1,000 square feet.

Occasionally a balanced fertilizer is used. The fertilizer is applied using a manually operated rotary spreader. It requires about 17 minutes per tee or slightly over five man-hours per application. Applied six times a year, almost 31 man-hours are required for the task.

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