

HOW TO BUILD HEALTHY GREENS WITH TURFACE®

TURFACE is a soil additive which works mechanically rather than chemically in a soil mix. Properly applied, it keeps greens healthy by 1) providing aeration, 2) retaining moisture, and 3) assisting drainage. It prevents compaction and waterlogged greens. Here's how it's applied when building or rebuilding a green:



Turface is dumped with fill dirt in a proportion of about 1 to 3.



Next, it is mixed. A farm harrow breaks up soil chunks and works Turface in.



After topsoil has been laid, additional Turface is worked in by discing.



Using a drag, the treated topsoil is levelled before seeding or sodding.

Find out how TURFACE can help give you the healthiest greens year round. Call your Wyandotte representative or write us today.

Wyandotte Chemicals

J. B. FORD DIVISION, WYANDOTTE, MICHIGAN
IN CANADA: WYANDOTTE CHEMICALS OF CANADA LTD., 41 METROPOLITAN ROAD, SCARBOROUGH, ONT.

For more information circle number 1112 on card

If you come away with only
One New Idea it will be
well worth the trip to

Kansas City 37th International Turfgrass Conference and Show

February 13-18, 1966

Hotel Muehlebach
Municipal Auditorium

Unlimited Show Space
(Over 200 Booths)
7 Education Assemblies

Make Your Reservations Early!

**GOLF COURSE
SUPERINTENDENTS
ASSOCIATION of
AMERICA**

3158 Des Plaines Ave.
Des Plaines, Illinois 60018

For more information circle number 1113 on card

Bob Watson Named Pro at New Course

Robert L. Watson, well-known Westchester, N. Y., professional, has been named head pro at the new Fountain Valley Golf Course on St. Croix, U. S. Virgin Islands. The course, designed by Robert Trent Jones and now being constructed on a 330-acre tract in the north-west sector of the island by Laurance and David Rockefeller, will be ready for play early in 1966.

Watson is currently head professional at Wykagyl Country Club in New Rochelle, N. Y. Formerly he held similar positions at the Fairview Country Club, Elmsford, N. Y., Ardsley Country Club in Ardsley, and the Metropolis Country Club in White Plains.

FIRESTONE

Continued from page 130

tournament time.

"It's maintained the same the year round," said Comely, "except that we honor the PGA request to let the rough grow a little longer at tournament time."

Firestone roughs are lush. They get fertilizer, aerification and water the same as the fairways.

Comely, 55, has been with Firestone since 1934 and heads a full-time ground crew of 18. The crew works in two shifts, 6 a.m. to 3 p.m. and 7 p.m. to 3 a.m. or longer if necessary.

"We have 600 members and the only way to keep the course in play is to do much of the work at night," Comely says. "All mowing and watering of fairways and the application of fertilizers and fungicides is done at night."

"Greens and tees are mowed and sand traps raked the first thing in the morning."

Firestone's greens particularly are praised by the pros. Comely says their condition is not the result of any special formula. It's just constant attention that keeps them letter-perfect.

The greens are a combination of Seaside and Nimisilla bent, the latter having been added when the greens were enlarged for the 1960 PGA. Commercial fertilizer is used.

Clubs with the finest bag storage service use the most modern racking equipment . .

BAG RACK

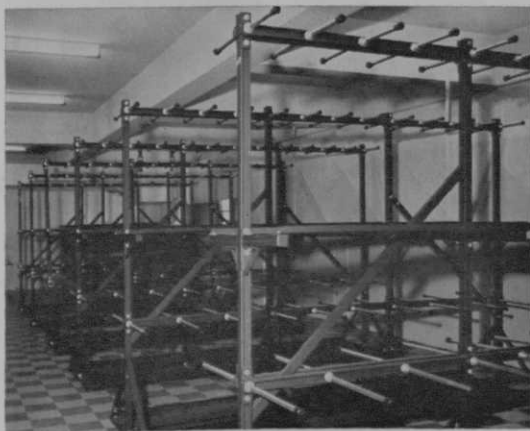
VERTICAL BAG STORAGE SYSTEM
EASIER • QUICKER • SAFER



Completely adjustable in height and width for individual bag.

Provides ready visibility and proper ventilation • Prevents mildew • Ends Spilling • Promotes neatness • Precludes misplacement and mix-ups • Eliminates scuffing and torn pockets • Reduces handling costs.

At left: BAG RACK system in service at the Evanston Country Club, Skokie, Illinois.



Durable as they are efficient made of heavy gauge steel channel with ventilating shelves of "dimple-perforated" steel. Fully adjustable for future area changes. Never warp or wear out. Will never be outdated.

At left: BAG RACK installation at the Palm Beach Gardens, Fla., club shows sturdy construction.

Portable Tee Bag Racks

Write for descriptive literature and prices on Bag Rack equipment.

SOME OF THE MANY CLUBS THAT HAVE MODERNIZED WITH BAG RACKS

ARIZ.: Mest CC; CALIF.: Canyon CC., Tamarisk CC.; CONN.: New Haven CC.; FLA.: PGA Nat. GC., Seminole CC., Jupiter Island CC., North Dade CC.; GA.: Cherokee CC.; ILL.: Evanston, Glen Oak, Midlothian, Knollwood, Northmoor, Rockford, Olympia Fields and many more. Others in Michigan, Minnesota, New Jersey, New York, Ohio, Penna., Rhode Island, Texas and Washington.



"RACK YOUR BAGS — NOT YOUR BRAIN"

BAG RACK

Trade Mark Registered

PRODUCTS

NORMAN G. COPLAND & Associates

Div. Steel Sash Service, Inc.

1300 Rand Road, Des Plaines, Ill. 60016 299-7735



MODEL 580

- POWER AERATE
- REMOVE THATCH
- RELIEVE COMPACTION
- PREPARE SEED BED
- SMOOTH ROUGH AREAS
- DRAIN LOW AREAS
- HARVEST STOLENS

STIMULATES

NEW GROWTH

ADJUSTABLE BLADE — 0 - 3-1/2"
ANY GROUND CONDITION

ROGERS "Z" Bar Action ALLOWS
POWER-AERATOR TO FOLLOW GROUND CONTOUR



**WET
or
DRY**

MODEL 720

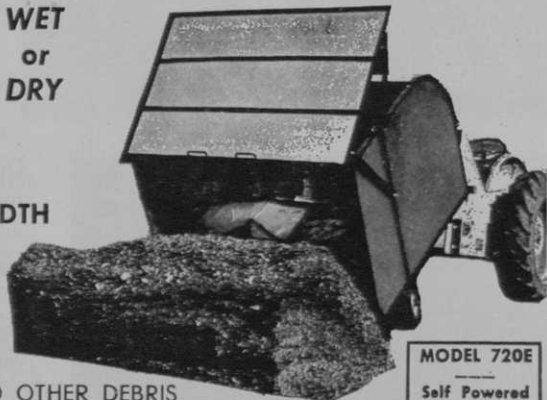
5 CU. YD. HOPPER
5 FT. SWEEPING WIDTH

Sweeps

ROCKS, PAPERS,
GRASS CLIPPINGS,
LEAVES, BOTTLES,
BRANCHES, CANS, AND OTHER DEBRIS

ONE MAN OPERATION

3 POINT HITCH ACTIVATES SELF DUMPING HOPPER



MODEL 720E

Self Powered
12 H.P. Engine
Universal Hitch



**250 MPH BLAST
REMOVES LEAVES**

3 POINT HITCH
PTO DRIVE

Eliminates dew in minutes at normal tractor speed. Hundreds of square feet are blasted dry or cleared of leaves in minutes. Mow anytime — For greens, fairways, tees, parks — All steel frame and blade.

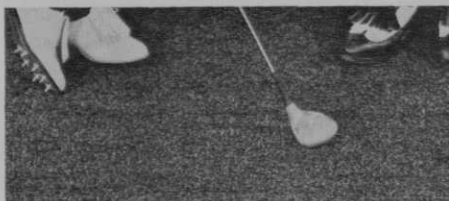


ROGERS MANUFACTURING CO., INC.

202 N. MAHAFFIE ST., OLATHE, KANSAS 66061 ● PHONE: 913 764 1615 or 913 782 0831

For more information circle number 1115 on card

NEW PRODUCTS



A new, spike-resistant anti-slip matting and carpet called Fore! has been designed for use in locker rooms, pro shops, bar rooms, grills and other areas requiring extra tough but attractive matting. Fore! is made in three standard widths of 34, 46 and 70 inches. Its manufacturer, the Crown Rubber Company, says it can be trimmed to any desired width and butted side-by-side to achieve a wall-to-wall look.

Depending on quantity and location from factory, prices are approximately \$2.50 a square yard.



This Lorain Moto-Crane was used for an unusual purpose at the PGA Tournament at Laurel Valley Country Club in Ligonier, Pennsylvania. The machine, a 50-ton MC-550, supported a platform from which ABC television covered the event. The Lorain was equipped with a 140-foot boom and 50-foot jib, and is owned by Adams Contracting Company of Kittanning, Pennsylvania.

Continued on page 138

SMOOTH RIDE *FOR YOUR GOLFERS*

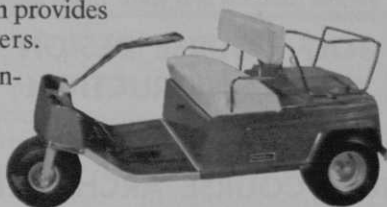
+ LOW MAINTENANCE *COSTS FOR YOU*

MORE PROFITS *FROM NASSAU RENTAL*

Increased sales each year provide strong evidence of the quality designed into every Nassau gas or electric car. Golf course tested and proved, the Nassau suspension system and power train provides smooth and easy riding for your golfers.

The Nassau program of preventative maintenance assures continuous equipment operation and sustained profits.

Call or write today!



NOW EQUIPPED WITH PUNCTURE-PROOF TIRES

NASSAU GOLF CARS

DUNBROOK CORPORATION 710 Skokie Highway • Northbrook, Illinois

For more information circle number 1116 on card

Bob Jordan
Golf Course Constructor
Irrigation Systems
"I Supervise All Work"

235 State St., East Peoria, Illinois
Phone: 699-6974 or 673-1067

For more information circle number 1117 on card

James G. Harrison
Ferdinand Garbin
GOLF COURSE ARCHITECTS

Members
American Society of Golf Course Architects

266 Harrison Road R.R. 2, Box 186
Turtle Creek, Pa. Export, Pa.
823-3444 327-4704

For more information circle number 1118 on card

GEORGE FAZIO
GOLF COURSE ARCHITECT

P. O. Box 153
Flourtown, Pennsylvania
Tel. 215 242-1330

For more information circle number 1119 on card

GOLF COURSE DESIGN
AND CONSTRUCTION
EDMUND B. AULT
GOLF COURSE ARCHITECT

Sculptured Greens

11607 Grandview Avenue
Silver Spring, Maryland
301-942-0716

For more information circle number 1120 on card

**Florida Water Resources
Reviewed in Depth**

Information on the latest turf research studies and practical application of turf management procedures was presented to more than 500 registrants at the 13th annual University of Florida Turf-Grass Management Conference early in October. The meeting, held in the Ramada Inn, Gainesville, Fla., listed speakers and registrants from throughout the U. S. and the Caribbean area.

With drought and near-drought conditions existing in South Florida and many other sections of the country, water was a timely opening subject. Speakers reviewed water resources in Florida, salt and water relationships, water functions and requirements in turfgrasses and the relationship of water and turf disorders.

The Research Review Section, concluding the conference, was broadened this year. Florida research personnel outlined progress made during the year in studies relating to turf diseases.

Full Line of

GOLF Equipment Supplies

- Golf courses
- Miniature courses
- Driving Ranges
- Par 3 Courses

Serving only
the West

Western

GOLF SALES, INC.

1831 Colorado Avenue, Santa Monica, Calif.
90404 Phone Area 213 451-5454

For more information circle number 1121 on card

**MANUAL & AUTOMATIC
TURF IRRIGATION**

Design—Installation
Complete Pumping Installation

SKINNER / BUCKNER / J-M
PVC & TRANSITE

Alcoa Aluminum Portable Pipe—Pumps
RENTAL & SALES

OLDFIELD EQUIPMENT CO.

430 W. Seymour Ave., Cincinnati, O. 45216
Phone: 821-5582

For more information circle number 1122 on card

Best ball color still a question mark

Since the official opening of the first lighted regulation-length golf course last year, there has been a renewed interest in a very old question in golf: Is white really the best color for a golf ball?

It depends entirely on how you look at it, according to a report recently completed by General Electric, using some highly specialized instruments and some very human golfers.

For the tests, golf balls were painted with the highly reflective fluorescent colors of red and yellow-green, in addition to the normal white. Before tests were run on the golf course, the General Electric scientists wanted to determine what their instruments had to say about the colored golf balls.

As far as the spectrophotometer is concerned, white scores best with yellow-green a very close second, and red last. A more conclusive test was to be found on the fairways using golfers ranging from duffer to nearly professional.

A gray overcast afternoon in March was selected as the test day. The balls were dropped about 500 yards from the golfers without their knowledge. Even at this distance both the white and the yellow-green balls were quickly spotted. The golfers had to move up about 500 feet before the red balls were noticed.

Next, the balls were tossed two at a time into the air so observers could judge combinations of red/white, white/yellow-green, and red/yellow-green against the cloudy overcast sky background. Red was sighted best, with white and yellow-green about equal.

The real test came at night, at a golf hole set up especially for this experiment with both mercury vapor and quartz-iodine lighting. Again, similar test conditions existed.

On the grass and under the mercury lights, the yellow-green had only a slight edge over the white ball, with red coming in a poor last. At about 25 yards, for example, the red virtually disappeared.

No color was outstanding when the balls were tossed in the air.

Under the quartz-iodine lights white

was judged most visible, with yellow-green second and then red. This ranking was the same whether the balls were viewed on the ground or against the night sky. Fluorescent coating on the golf balls apparently is not an advantage under quartz-iodine lights because this system does not produce enough of the ultraviolet rays to spike up the normally reflective powers of fluorescent paints.

Later, the test data was compiled with a comparison of the various colored balls under the lighting conditions of daylight, mercury vapor, and quartz-iodine floodlighting, with the background for the ball being green grass, clear night sky, and overcast sky in the daytime. Although the results were mixed, in the total evaluation the yellow-green and white were nearly equal, with red coming in a definite third.

Instruments for measuring visibility normally associated with the laboratory were brought out on the greens to double-check these findings. An instrument known to lighting specialists as a Luckiesh-Moss visibility meter was used to check the relative ease of seeing the balls. Readings were again made under actual lighting installation on the 85-yard hole. The instrument readings confirmed the visual observations of the golfers.

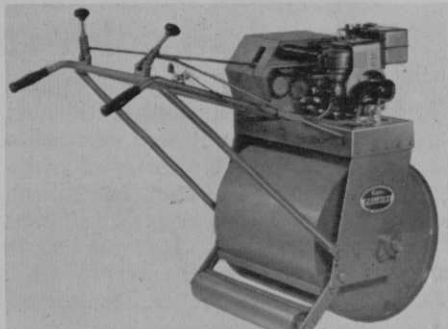
A qualified "maybe" is the most General Electric lighting engineers will say on the color of golf ball question. For example, there may be "... significant visibility advantage to using specially treated balls for both daytime and nighttime play," states R. E. Faucett, senior application engineer of GE's Outdoor Lighting Department—which did the pioneering lighting installation at the first fully lighted regulation-length golf course, Tall Pines, near Philadelphia.

In the language of lighting engineers, more sophisticated data is required of both a subjective and objective nature to answer the question, "Red, green, or white. . . . what color golf ball can be best seen at night?" •

NEW PRODUCTS



A new small-wheel truck offered by Walker Manufacturing Company, Inc., Fowler, Kans., has been designed and built as a practical unit for golf course maintenance. With available accessory equipment, the company says, the unit can be adapted to grading, cultivating, plowing, grass-cutting, as well as transporting tools, equipment and personnel. Only 100 inches long and 48 in. wide, the truck can be converted from a personnel carrier with a 40 mph cruising speed to a tractor.



A new vibrating type turf roller is now available from Ryan Equipment Company, St. Paul, Minn. Designated Model RV22-1, it provides more than half a ton of compactive pressure concentrated in a single drum—double the compaction possible with Ryan's standard Model R22-2 Rollaire, the company says. Vibratory action can be engaged or disengaged as desired while the unit operates. Principal uses are: assuring tight soil-to-sod contact after sodding; repairing frost heaves in undulating turf; packing and leveling soil for seeding or spot re-sodding; and blacktop repair. It is also said to be useful for rolling tennis courts, walks and driveways, running tracks.

TURF MANAGEMENT by H. B. Musser

(a USGA publication)

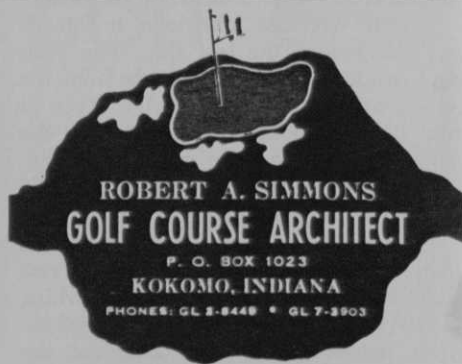
\$10.95 postpaid

THE ED WORTHINGTON CO.

Saranac Lake, N.Y.

Course Maintenance
Specialists

For more information circle number 1123 on card



For more information circle number 1125 on card

TURF RESEARCH PROVES

— a better seedbed

... with **PIXTONE**

THE PROVEN MECHANICAL STONEPICKER

Revolving arm and rake design picks all stone to 9 inch diameter — pulverizes, aerates and returns soil in ideal condition for seeding. Sod develops faster and sturdier — Contact manufacturer for more details.



BRIDGEPORT
IMPLEMENT
WORKS, INC.

P. O. Box 286G
Stratford, Conn. 06497

For more information circle number 1124 on card

WILLIAM P. BELL & SON GOLF COURSE ARCHITECTS

Member: American Society
of Golf Course Architects

344 Sierra Vista Avenue
Pasadena, California

213-793-6944

714-675-2098

For more information circle number 1126 on card