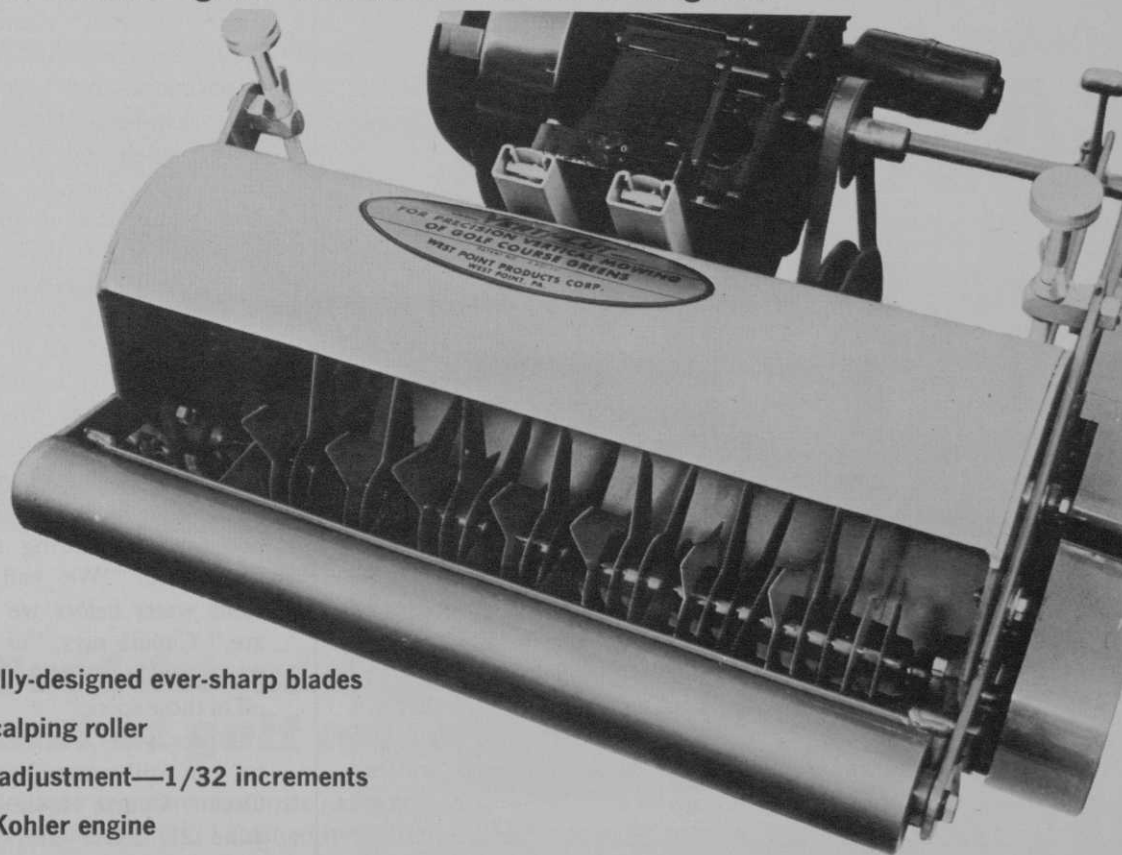


*Do YOUR golfers know that the VC-5 VERTI-CUT® reduces golf scores??

*Grain develops quickly on intensively managed turf. It can deflect the best putts. The VC-5 Verti-Cut® removes "grain" with no disturbance to the grass.



- specially-designed ever-sharp blades
- anti-scalping roller
- finest adjustment—1/32 increments
- 7 HP Kohler engine

Some fifteen years ago, when golf course greens were still being raked by hand to remove thatch, West Point designed and introduced the first Verti-Cut® Mower for greens. Over the years many refinements have been made to that original model. The new model VC-5 Verti-Cut® is equipped with 7 HP Kohler engine.

But the design of the patented blade has remained the same. It CUTS OUT grain and thatch leaving behind it a smooth, superior putting surface.

And while the Verti-Cut® is improving putting surfaces, it's improving growing conditions for the turf. NO plant can

survive if dead and dying plant material is permitted to choke off the plant's air, water, and food supply. The VC-5 Verti-Cut® makes certain that these necessities reach the soil surface.

Make certain to "harvest" the dead material on your greens this fall. The life and health of your turf next spring depends upon it!

And complete the maintenance program by opening the soil with the Vertifier or the Aerifier®. Your turf will respond and produce the kind of turf that is good to play on and that resists drought and disease.

WRITE: West Point Products Corp., West Point, Pa. 19486
Mfrs. of Aerifiers®, Verti-Cuts® for greens, tees, and fairways; and the Vertifier, Power Drag, Aeri-Spiker for greens.

A DIVISION OF
KEARNEY-NATIONAL, INC.

OLYMPIC CLUB COMEBACK

continued from page 54

schedule was practically normal. On August 30, it rained. Caputa recorded in his daily log book, "lovely, lovely rain."

He said that on September 1 the course could be considered back to its normal playing condi-

tion, except for a few isolated and very small areas. "By then it was almost impossible to believe that our fairways had taken as much punishment as we gave them."

Caputa's efforts were not overlooked by members of the Olympic Club. In its monthly publication the president reminded members of the speed with which

the superintendent had restored the Ocean Course to its original condition and urged them not to take it for granted. "The compliments we received," Caputa says, "generally were greater for our work on the Ocean Course, than for returning the Lakeside Course to the shape the members are accustomed to."

After the summer of concentrated conditioning and fertilization, Caputa didn't apply fertilizer to the Ocean Course again until October. Annually, the course received its usual five applications, but two of them were scheduled within less than a month. He adds that the Lakeside Course normally receives six fertilizer applications annually.

Although the log shows only one complete aerating treatment, Caputa explained that many stubborn spots had to be aerated and verticut five or six times, especially the dry areas on the sloping fringes of some of the greens. These are reached by fairway sprinklers, which were not operated during the drying up period. "We had to apply some water before we could aerate," Caputa says, "or the equipment would have bounced right off of those spots."

Three years later Caputa says he can still remember what his Ocean Course looked like on June 21, 1966—dry, burnt and lifeless. "And I still get the shakes."

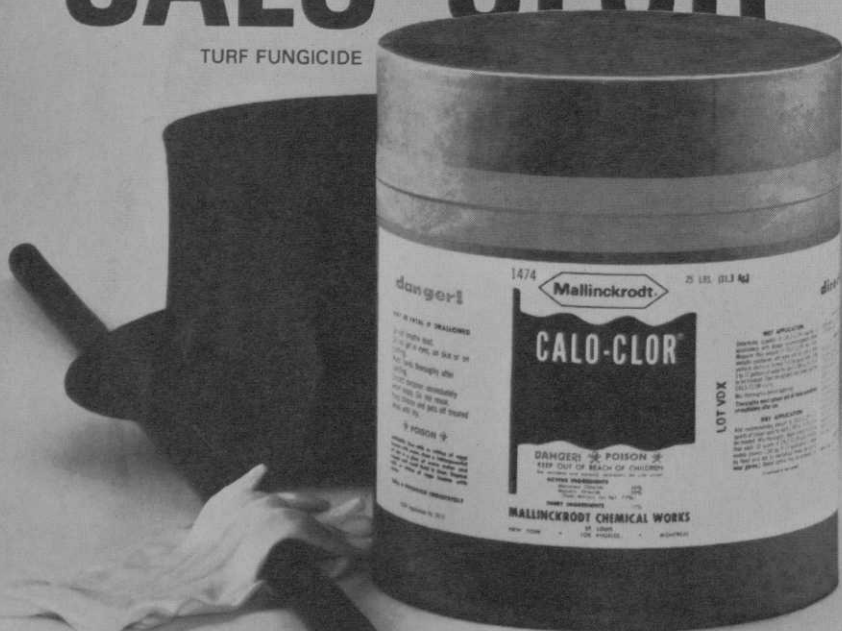
But what does he think of the whole experience, now that the course has made a complete recovery, and the uninformed can't even guess where temporary roadways ran? Does he favor hosting another major tournament, working sun-up to sundown for weeks before and after?

"With the help of my assistant, my crew and the generosity of The Man Upstairs we can handle it. Bring on another Open to our beautiful course. We're ready." □

has never been topped!

CALO-CLOR®

TURF FUNGICIDE



Still the GREATEST after 40 years!

It's tops "as is" for summer turf disease control . . . "tops" as the mercurial additive for that "extra" effectiveness in any turf fungicide program! Be ready before disease attacks . . . Always have at least two drums on hand! Order from your Mallinckrodt distributor today.

Always spray turf chemicals with the SPRAY-HAWK (TM) mobile turf sprayer.



Mallinckrodt

MALLINCKRODT CHEMICAL WORKS
Turf Products
St. Louis • New York • Los Angeles

For more information circle number 192 on card



Up 14 per cent, the Ford 4110 LCG now delivers 56.5 net flywheel hp (IEMC). The Ford 2110 LCG delivers 34 net flywheel hp (IEMC).

Ford drives down the cost of golf course maintenance.

Are your maintenance costs rising? Man-power hard to find? Pushed for time trying to keep your grounds in tip-top shape? Then, Ford LCG (low-center-of-gravity) tractors can help you beat the push for time, reduce operating costs.

The reasons? First, engine power is up 14 per cent in the Ford 4110. Now there's 56.5 hp to handle practically any big mower combination you want—at fast mowing speeds. Result: you step up output per man. Fords tread lightly on turf, too. Where extra flotation is required, optional jumbo tires are available.

Low center-of-gravity (LCG) design provides greater stability on side slopes for operator safety. Match growth and ground conditions with our outstanding choice of mowing speeds. Choose Ford 8-speed dual-

range or optional Select-O-Speed transmission that lets operator power-shift on-the-go through ten forward speeds.

With the time you save mowing, use Ford LCG's on many other jobs. Like landscaping, lawn maintenance, sweeping, snow clearance. See your Ford tractor and equipment dealer soon.

Ford Motor Company, Birmingham, Michigan 48012.

For the name of your nearest Ford industrial tractor dealer: call free any day, any night—Area Code 800-243-1890. In Connecticut, call collect: 853-3600.



Ford . . . your key to time.
Time . . . your key to profits.

FORD TRACTOR



For more information circle number 251 on card

SUPPLEMENT FOR INSURANCE PROTECTION

continued from page 62

broader coverage. Usually, the policy will contain a small deductible clause of \$25 or \$50.

It is important that a country club purchase this coverage on golf cars owned or rented by the club because a member's personal liability insurance does not provide coverage on a golf car he might damage. His policy does, however, afford protection against negligent operation of the car should he injure either people or property.

All the mobile equipment used for the golf course and the superintendent's equipment, which is not licensed for highway use, should be scheduled under a equipment floater form. Again, it can be written for certain specific perils or on an "all risk" basis, with a deductible.

The deductible affords a discount in the premium because small losses will be absorbed by the country club.

Both the golf car floater and the mobile equipment floater contain a subrogation clause whereby the insurance company can look to the party who damages insured property for recovery of the amount of the claim paid. This right of subrogation should be removed against

members, guests, employees and other authorized persons who operate the insured cars or equipment with the club's consent.

Various other forms of inland marine floater insurance policies should be investigated by every country club.

Accounts receivable

One of the most important is accounts receivable insurance. This policy protects the country club against its inability to collect club against its inability to collect its receivables due to lost, destroyed or damaged records.

While the coverage does not include credit coverage against bad debts, it aids the club in reconstructing its records, pays the interest on loans to continue operations and assists in collecting receivables. If the insurance company cannot effect the collections, the company reimburses the country club for the amount which would have been otherwise collected had the records not been destroyed.

Valuables

The list of other forms of inland marine floater coverage that would apply to various exposures at a country club is long.

Valuable papers and records policy would cover historic, important or other documents which if lost or destroyed would be expensive to replace.

The country club public address system and piped-in music system would be covered under this form of insurance. Valuable musical instruments may be insured under the musical instruments form.

Valuable trophies should be insured under this "all risk" form of coverage in event that they are stolen or destroyed.

Cameras, motion picture equipment, stamp or other collections can be insured.

If the country club has neon signs at its entrance, for example, they can be covered under the neon sign form.

Many clubs lease data processing equipment and the lease requires insurance. The equipment can be insured for the perils required in the lease agreement.

Shipments, which a country club would make, can be insured under transit or mail forms. Wedding gifts, if temporarily held for a member on the club's premises, should be insured for the club's protection.

Almost every movable object on the club's premises can be covered under some form of inland marine insurance. □

INVITING LABOR PROBLEMS?

continued from page 58

than three hours a day or more than 18 hours a week while attending school. In non-school weeks and during the summer, they are limited to a 40-hour-week. In addition, their work day must fall between 7 a.m. and 7 p.m. These are Federal regulations.

Caddies don't come under the Federal Wage and Hour statute. They are still regarded as independent contractors, according to Robinette. Possibly, this is because the status of the caddie in respect to working regulations has

never been tested in court.

Discrimination

The age discrimination clause of the Fair Labor Standards Act prohibits an employer from refusing to hire a person because he or she is between the ages of 40 and 65. A promotion can't be denied a person in this age bracket simply because of age, nor can he be discharged or retired for the same reason. However, when a person reaches the age of 66, he is no longer protected by this provision of the Wage and Hour law.

In conjunction with discrimination, there can be no differentiation in wage rates because of sex. If a woman does the same job as a man, whether it is in the clubhouse, pro shop or out on the course, she is entitled to equivalent pay.

Copies of the Wage and Hour laws can be obtained from any U.S. Department of Labor regional office. As Robinette pointed out in addressing the Midwest association, it is wise to have a copy of the laws handy for reference and to discuss them with the club counsel or, if possible, a Department of Labor representative. □



“Nearly 9,600 pounds-- and not a mark on the turf!”

“I could hardly believe it when they tested a loaded Champion Doo-All Trailer on our No. 11 fairway,” said Steve Zappe, Greens Superintendent at the Springfield (Ohio) Country Club.

“We had about 12 inches of rain in three weeks. The morning before the test, the course was closed because of standing water.

“I let them run the trailer only in the rough at first, then down the edge of the fairway and, finally,

right down the middle. There was not a mark on the turf — you couldn't even tell where the Terra-Tires had passed. My shoe heels were actually doing more damage than the Doo-All loaded with two yards of sand.”

Could you use this gentle work-saver on your course? Models in $\frac{3}{4}$, 1, $1\frac{1}{2}$ and 2 cubic yard capacities, convertible to flatbeds, and all with **Terra-Tires**.

ORDER FROM CHAMPION OR YOUR EQUIPMENT JOBBER



THE CHAMPION COMPANY
Springfield, Ohio 45501

DOO-ALL TRAILERS—WHERE FINE TURF NEEDS EXTRA PROTECTION

For more information circle number 280 on card

GOLFDOM/1969 JUNE • 75

TROPHIES AT NEW LOW PRICES

Immortalize that HOLE-IN-ONE. Mount the real "HOLE-IN-ONE" golf ball on gold claws mounted on Walnut base with engraving plate. XPW-4-5 \$5.95 Ball not included.



BIG PRO DIS-COUNTS

Write today for FREE Colorfully Illustrated Catalog.
THE TROPHY & MEDAL SHOP
 4560 N. Western Avenue Chicago, Illinois 60625
 Telephone: Area Code 312/271-7600

For more information circle number 180 on card

TAT

GOLF COURSE SIGNS

Extremely smart looking signs with self fastening stakes.

Signs 50c & 75c
 Stakes 25c & 30c

Shipped in 24 hours
 Write for Free Brochure

TAT GOLF SIGNS
 BOX 1, DUNEDIN, FLORIDA 33528

For more information circle number 182 on card

Put LIQUID LUSTRE® Golf Ball Washer in Your Ball Washers

COSTS AS LITTLE AS 2¢ PER WEEK PER WASHER

- Keeps golf balls sparkling white
- Pays off in player satisfaction
- Helps stop rust in washers
- No unpleasant odor—ever!

Order from your Dealer or write direct
DBA PRODUCTS CO., INC.
 22 Skokie Hwy. Lake Bluff, Ill. 60044

For more information circle number 168 on card

EQUIPMENT & SUPPLIES
RANGES
MINIATURES
COUNTRY CLUBS
PAR-3
PRO-SHOP
Free Catalog

WITTEK Golf Range Supply Co., Inc.
 3650 Avondale • Chicago, Illinois 60618

WITTEK GOLF RANGE SUPPLY CO., INC.
 3650 AVONDALE • CHICAGO, ILLINOIS 60618

For more information circle number 190 on card

IRRIGATION AT PANTHER VALLEY



continued from page 45

through primary and secondary sewage treatment units, then piped to a tertiary unit for further purification. Instead of being discharged into the river, the water is piped into the main irrigation pump on the course. When the community is fully occupied the system will handle 800,000 gallons of water daily, of which only 250,000 will be used to irrigate the course.

"We won't have to be concerned if there's a drought and an ordinance by the town fathers cutting back on a club's use of water. Since the reused water is free, which is quite a savings since it costs almost \$21,000 yearly to irrigate a course in northern New Jersey, our only cost will be pumping and that will run \$3,500 a year."

While the Water Reuse System solved the initial problem of irrigating a course, it produced several by-products that have perked interest among conservationists and agronomists.

Although all used water to be discharged into rivers must meet the standards set by the Federal Water Pollution Control Act of 1965, this used water still can contain nutrients in the form of nitrates and phosphates that are the main cause of algae in rivers and streams. But, with the reclaimed water at Panther Valley being used for the irrigation of the golf course and some of the balance being made available to black dirt farms nearby, the rivers and streams near Panther Valley will remain unpolluted, especially during the summer months.

With the used water containing nitrates and phosphates that have a nutrient value at a pH close to

seven, the course is being irrigated with a form of liquid fertilization.

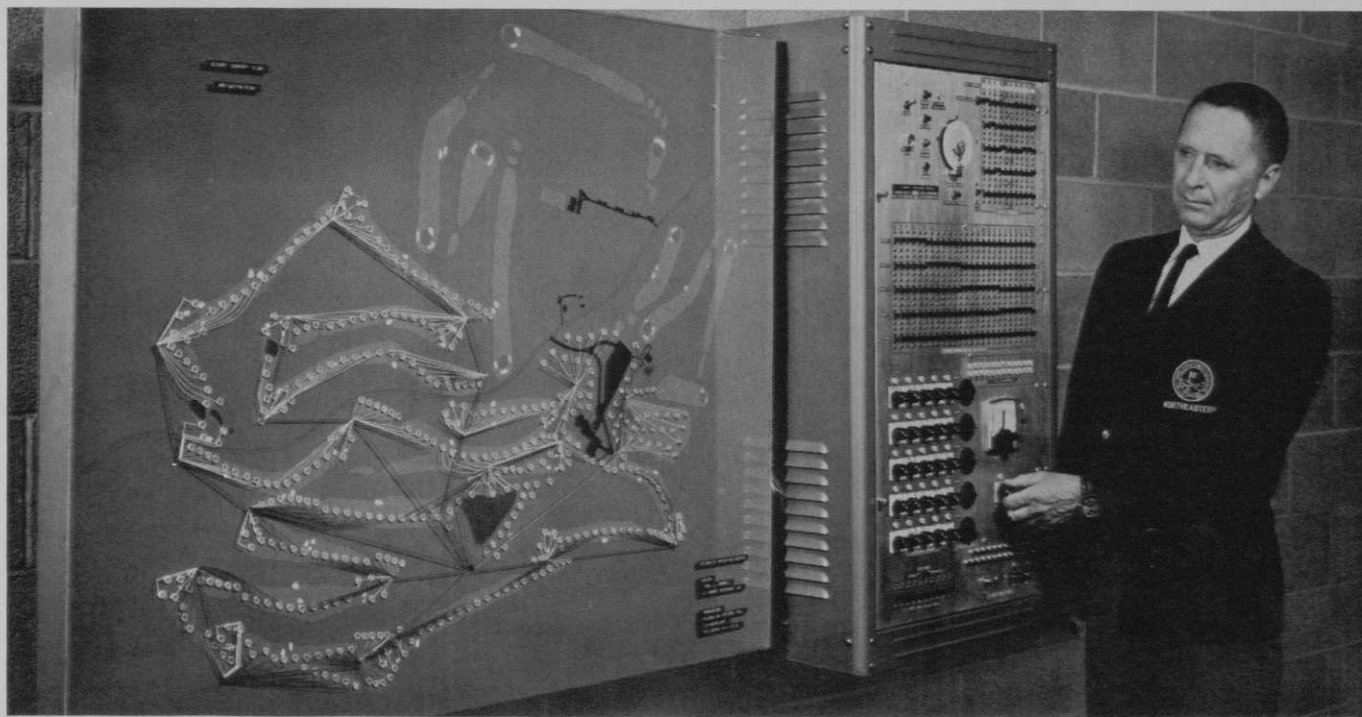
This, according to superintendent, Al Wilson, a graduate of the University of Massachusetts Turf Management school, will prevent diseases such as dollar spot and brown patch.

"We're using Astoria Seaside Penncross bent on the fairways," says Wilson, "Penncross bent on the tees and greens and Kentucky bluegrass for rough. We'll be watering in 10 to 12 hour cycles. With the Water Reuse System we'll always be assured of having a course that's green and lush. Even the rough can be watered and kept thick and lush. How much of the rough we'll water—we don't know. Certainly, if too much of it is, play would be slowed down considerably."

Used water that isn't used for the golf course and the nearby dirt farms will be used to create ponds and lakes. "These small ponds and lakes," says Philip Barske, Panther Valley's conservationist, "will be created with half used water and half fresh water. The Reuse System can also be used to irrigate the millions of dollars worth of lawns, trees and shrubbery within the Panther Valley complex during dry periods.

"The Water Reuse System," Jeske concludes, "isn't a panacea for all irrigation problems. It's ideal for our set-up and would be for other fairway-living complexes, or even those courses near a municipal sewage treatment plant, provided a tertiary treatment unit had been installed. It costs \$60,000, and those miles of piping and booster pumps wouldn't be needed to get the water to the main pumping station. In the Bahama Islands, where water is scarce and costly, the system also is ideal because the piping and pumping costs would be less than the price of water." □

New *Cyclomatic** gives you programmed automatic irrigation control from a single, convenient master panel!



Golf course irrigation has entered a new era with Cyclomatic, a system so revolutionary it makes all others obsolete! From one centrally-located master panel, no more difficult to operate than a clock radio, golf course superintendents can now command a fully automatic system for perfect turf irrigation.

Imagine a program that gives you:


- Instant modification due to rainfall, wind, etc.
- A dew wash, activated at the touch of a button.
- A push-button greens syringe, with a warning system for players.
- Complete shut-down by pressing a button, yet normal operation resumes automatically at the next scheduled program *without* resetting clocks or switches.
- Maximum dollar savings through the most efficient use of water.
- Sequential turn-on and turn-off of sprinklers, eliminating hydraulic shock loads on valves and pump.
- Provision for up to 24 repeat watering cycles for more efficient, proper watering of turf.

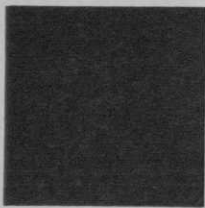
Out on the course, Cyclomatic's unique system of STAR™ units relay signals from the master panel to the sprinkler valves. These STAR™ units are completely automatic and require no servicing or setting. They do, however, allow for manual operation of individual sprinklers should a visual check be wanted.

Cyclomatic is so versatile it can easily be linked to existing irrigation systems. Or, for the new course under construction, Cyclomatic offers flexibility and ease of program change found on no other turf irrigation system. With Cyclomatic, automation has come to golf course irrigation!

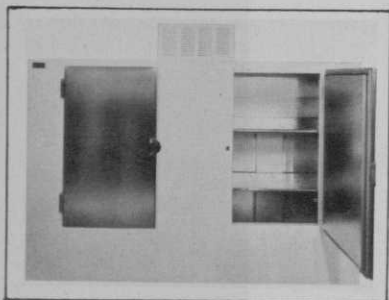
Write for detailed information

Sound too good to be true? We've got a brochure and technical paper that explains in detail all the advantages of the Cyclomatic Turf Irrigation System. Write today to find out why Cyclomatic makes all the others obsolete! Address your inquiry to:

**Cyclomatic
Systems, Inc.** 



NEW PRODUCTS



Star Cooler Corp. markets a 100-cubic-foot reach-in called the Polar Bear. Built for either indoor or outdoor use, the unit has a white acrylic enamel finish, foamed-in-place polyurethane insulation and two stainless steel, self-closing doors. Other features include: two extra-sturdy galvanized shelves, heavily galvanized interior, thermostat, welded steel construction, a blower, a drain and an automatic defrost with automatic condensate disposal.

Circle No. 101 on reader service card



Gilison Knitwear Company has the Touring Pro mohair and wool sweater. The sweater, knitted of 75 per cent mohair and 25 per cent wool, comes in white, red, navy, light blue, maize, black,

olive and brown. It retails for around \$15.95. Also available from Gilison is a 100 per cent alpaca cardigan, in a link type knit. It retails for \$27.50.

Circle No. 102 on reader service card

One Time Package Products, Inc., introduces insect repellent towelettes to its line of products. Each foil-wrapped towelette is saturated with an effective insect repellent lotion for single use application. The repellent, according to the company, is safe to use and will not harm fabrics. Also available in the line are moist towelettes, shoe shine pads, nail polish remover, spot remover, hand laundry soap, hand lotion and liquid shampoo.

Circle No. 103 on reader service card



Mimco distributes a portable floating water and sludge pump that does not require a suction hose or priming. Called The Floating Saucer, it comes in two models: FS-6 has a six inch discharge and delivers up to 700 gallons per minute; the 3-1/2-inch model discharges 200 gallons of water a minute and weighs under 35 pounds.

Circle No. 104 on reader service card



Ford Motor Company has increased by more than 11 per cent the loader-lift capacity of its Model 3400 tractor-backhoe-loader, according to the company. New features on this model include forward-thrusting front hood profile, manual reversing transmission, improved clutch life and comfort and convenience improvements for less operator fatigue. The model's 10-foot backhoe has a 10-foot, nine-inch, depth, a 14-foot-plus reach, and is available with Ford's "auto-dig" backhoe cycle.

Circle No. 105 on reader service card



Toro Mfg. Company's Moist O'Matic division announces an electric valve-in-head sprinkler for medium to long-range sprinkling needs. Available in single- or two-speed models, the pop-up head is made of heavy-duty, non-corrosive Cyclocac. Suggested retail prices of the electric valve-in-head range from \$49 to \$116.50. Suggested retail prices of the hydraulic model range from \$33 to \$92.50.

Circle No. 106 on reader service card

continued on page 80

new Lewis fluorescent flagpole spots cup on green from 150 yards out!



Ken Voorhies, Greens Superintendent of Columbine Country Club, Denver, Colorado, site of the 1967 PGA Tournament says: "Lewis Fluorescent Poles caused a lot of favorable comment from the pros. Our members appreciate their vertical attitude and exceptional visibility".

Lewis leads again! The new Lewis Fluorescent high-visibility Flagpole adds a new dimension to golfing skill and pleasure by pin-pointing the exact location of the cup on the green.

The fire-orange Day-glo® paint used on the Lewis Flagpole casts a halo around the pole from 100-150 yards out. This gives it increased thickness and size to players approaching the green and prevents "fade out" against a bright sky or under hazy conditions.

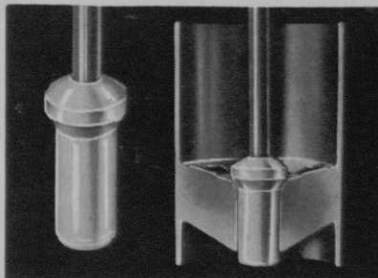
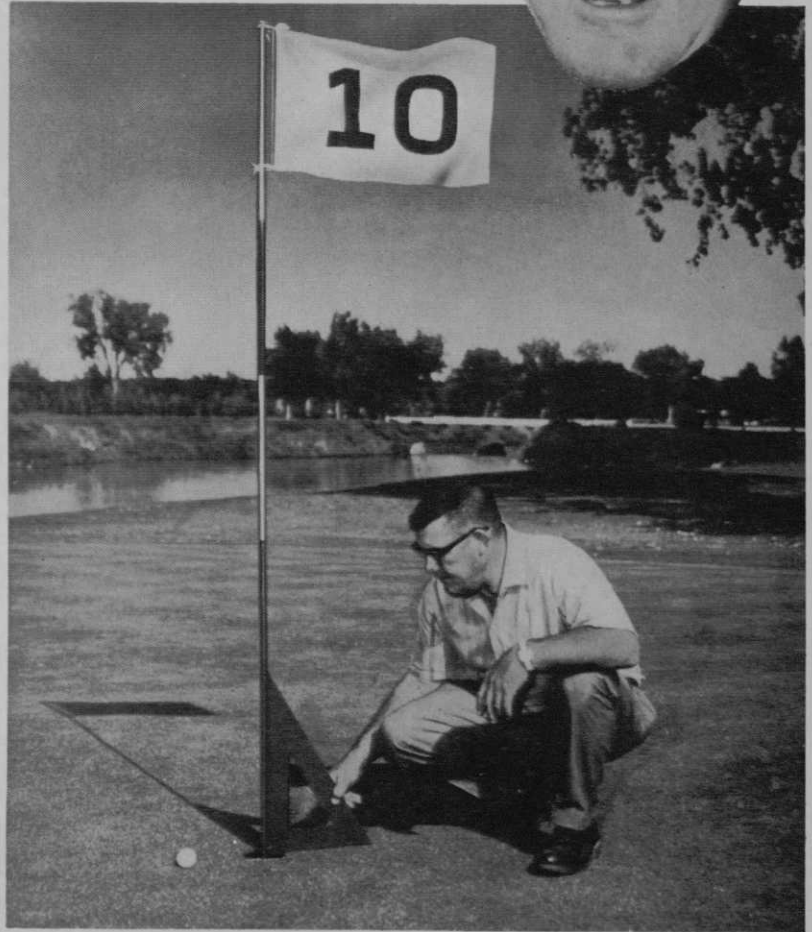
Ken Voorhies uses a triangle to demonstrate the vertical position of the new Lewis high-visibility Fluorescent Flagpole.



There's a Lewis Flagpole for every course use...

All Lewis Flagpoles come in a variety of colors, heights and patterns for directional, green or marking needs. Their fiberglass construction makes them lightweight, flexible and almost indestructible in high winds.

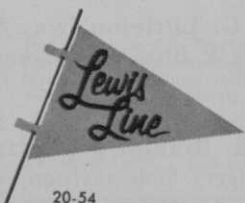
Lewis Flagpoles swivel-top assemblies are made of hardened aluminum with a special washer and screw to resist corrosion, reduce wear and lengthen life. Write today for the Lewis Line Golf Course Equipment Catalog.



Chamfered Ferrule & Cup—Advanced design of new Lewis 34° chamfered pole ferrule and matching chamfered cup, sets pole firmly in socket, holds it rigid on windy days.



Deluxe "No-Splash" Washer—Nylon brushes — stainless steel rods — no-pilfer pole handles — neoprene gaskets — these quality features of the GF-52 Washer assure long life, low maintenance.



20-54

Lewis Line GOLF EQUIPMENT

Cup Cutter • Cups • Flags • Flagpoles • Tee Markers • Tee Stations • Ball Washers
Practice Markers • Cup Setters & Pullers • Rakes

CONTAINER DEVELOPMENT CORPORATION • 4106 Montgomery • Watertown, Wisconsin 53094

Light Weight-One Hand



Short handle, light weight. Golfer can rake trap while holding club in other hand.

SAND TRAP RAKE

HIGH DENSITY PLASTIC WEATHER-PROOFED



The bright, yellow-handled RAKE-Ezee Rake flags attention, reminds golfers to rake trap. Stands erect on blunt metal point.

Sturdy, attractive, won't rust, yet low in cost. RAKE-Ezee stands erect on point, reminds golfer to rake trap. Fully guaranteed with tough plastic head. See your distributor, or write: >

MFD. BY

NORTH CENTRAL

Plastics INCORPORATED ELLENDALE, MINN.

For more information circle number 172 on card

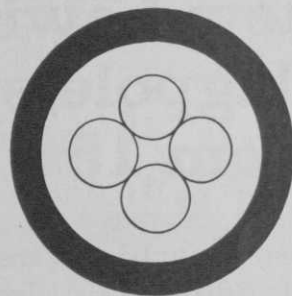
NEW PRODUCTS

continued from page 78



Sony Corp. of America offers an automatic control unit, model EVR-210-A, which provides a complete automatic play and rewind capability for Sony's model EV-210R video tape recorder. When attached to the front panel of the tape recorder, the unit allows users to select individual portions of the tape. The unit is adaptable to and interchangeable with the EVR-200 and EVR-210 remote control panels; it can also be installed on the EV-200R Videocorder. List price for the unit is \$295; the unit plus installation in standard model EV-210 in \$625.

Circle No. 107 on reader service card



PEOPLE IN THE NEWS



E.T. Barwick, chairman of the board and president of E.T. Barwick Industries, a leading producer of tufted carpets, will receive the first National Torch of Hope Award in the floor covering and allied industries at a banquet, held in his honor, at the Americana Hotel in New York City, June 22nd.

James J. Norris moves up to the position of corporate vice president-marketing at A.G. Spalding & Bros., Inc., a subsidiary of Questor Corp.

J. Wayne Rumble is plant manager of MacGregor Company's Covington, Ga., installation. He succeeds **J.E. Hastings** who goes to the firm's Albany, Ga., plant as manager.

Robert G. Littleson joins A. G. Spalding & Bros. as corporate controller.

David R. Branon is assistant sales manager, Golf division, of the Acushnet Company.

Specialists in Golf Course Construction Since 1924!

GOLF COURSE CONSTRUCTION BY CONTRACT

FOR FURTHER INFORMATION WRITE or CALL

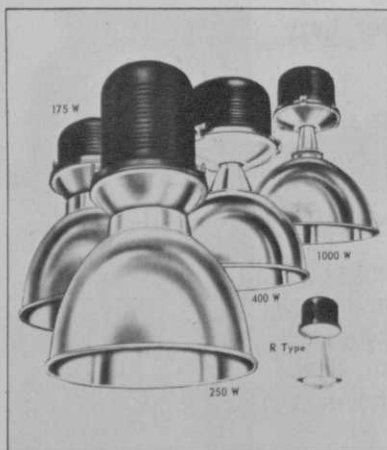
MADDOX

CONSTRUCTION COMPANY

GOLF COURSE BUILDERS

P.O. BOX 66 ST. CHARLES, ILL. 312-231-2665 • 212 W. FAIRCHILD DANVILLE, ILL. 217-442-2411

For more information circle number 176 on card



The Spero Electric Corp. markets a line of corrosion-resistant mercury vapor lighting fixtures. Called Balla Hi, the fixtures come equipped with sockets with stainless steel screw shells, special gaskets and spring pressure toggle latches. The line includes fixtures for 175, 250, 400 and 1,000-watt mercury vapor BT lamps and reflector lamps; they can also be made to accommodate metallic halide lamps.

Circle No. 108 on reader service card