faster than larger bodies. The metal bucket could therefore be used for an extreme case. At midday when the air temperature was 90° F. the water in the 25-gal. tub was only 92°. The temperature in the bucket was 99°. Therefore it is unlikely that any of the water from reservoirs on golf courses reaches a temperature higher than the maximum air temperature.

Grass Withstands Abnormal Water Temperatures

A test was made to determine what water temperature grass is able to withstand. One gallon of water was poured with a sprinkling can on each plot of 16 sq. ft. of bent turf. This was applied at the rate of 320 gal. to an average green of 5000 sq. ft. The sprinkling can nozzle was held close to the turf to give as little chance as possible for the temperature of the water to change before reaching the grass. If thrown through the air by means of an ordinary sprinkler the temperature of the water would approach air temperature with much the same speed as in the case of the ice water test described above.

The air temperature at the time of the

test was 90° and there was bright sunlight in early afternoon.

One plot was tested with water at 150° F. The rapid application of the water resulted in raising the temperature of the grass 18°. However, the thermometer rapidly fell and within five minutes it was back to the normal temperature. Even this hot water failed to injure the grass in any way.

Other plots were treated with water at 175° and at 200° F. Even at the higher temperature the increase in the temperature of the mat of grass at the surface was only 32°. This also dropped quickly and within a few minutes was back to normal. The grass was scorched in both of these plots but it was not killed even by the water at 200°. It is quite possible that under certain conditions some turf injury might have occurred at 150°. However, these tests certainly indicate how improbable it is that any damage may occur from sprinkling greens with water that is too hot.

Therefore it is safe to state that the temperature of any water supply is not an important factor in turf maintenance.

The real cause of the turf injuries so

Bent Grass Seed

Also Fairway Mixtures

REMEMBER that I absolutely GUARANTEE satisfactory results from the use of my Rhode Island Bent Seed. If you will follow the simple direction that I give in planting my seed, and you are not satisfied by the middle of next June that you have a fine-bladed, closely-woven, beautiful turf, just say the word and I will return to you the purchase price in full.

There will be no ifs, ands, or wherefores, about it; you will be the sole judge.

SATISFACTORY RESULTS OB-TAINED ON HUNDREDS OF GOLF COURSES THAT I HAVE FUR-NISHED WITH RHODE ISLAND BENT SEED DIRECT FROM MY FARMS DURING THE PAST SIX-TEEN YEARS ENABLES ME TO MAKE THIS GUARANTEE.

AVAILABLE About Sept. 1

150 lbs.
"14276 Strain"
VELVET BENT

350 lbs.
"Kernwood"
VELVET BENT

REMEMBER: This Velvet Bent is the Rolls-Royce of

the Turf World.

THE practical grass seed for you to plant are the HARDY BENTS which are grown under the rigid, variable climatic conditions that prevail here in Rhode Island and are thus acclimated to the hot, humid weather of August and yet are rugged enough to withstand the below zero weather of January.

Native grown Bent Seed sticks its "toe-nails" in. It doesn't get sick where reasonable agricultural common sense is used in handling it. RIGHT NOW WE ARE GOING FULL SPEED, HARVESTING THIS YEAR'S CROP OF BENT SEED.

PLACE YOUR ORDER NOW FOR FRESH, VIABLE SEED THAT IS COMING RIGHT FROM THE FIELDS AND THUS YOU ARE ASSURED OF SEED OF THE VERY HIGHEST PERCENTAGE OF GERMINATION.

A. N. PECKHAM

Kingston, Rhode Island



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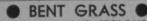
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HIRAM F. GODWIN

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R. F. D. No. 3, Pottstown, Pa.

often attributed to hot or cold water can usually be traced to the use of an excessive quantity of water. Sometimes an improvement is noticed after a change to another source of water has been made. The benefit in these cases is usually imaginary. In some cases they may be due to the fact that the new supply is used more sparingly for the simple reason that it costs

There are also some well waters which contain salts that are toxic to grass, and of course these should be avoided.

To summarize these water problems we can say that temperature of the water supply is of no significance. The mineral content is occasionally important. quantity of water always is important.

A NNUAL TURF FIELD DAY will be held at the New Jersey Agricultural Experiment Station, New Brunswick, N. J., beginning at 2:30 P. M., Monday, August 10. All persons interested in turf are invited to attend.

Special feature of the day will be the testing of soil samples to determine their deficiencies for production of healthy turf.

GOLF'S MARKET PLACE

Eighteen Dunlop balls were balanced delicately in a shop window on the new liner Queen Mary. The balls retained their balance during the initial round-trip. Demonstration of the Queen Mary's smooth riding was talk of the trip.

Four illustrations in newspaper stereotype mats or halftones have been made available for newspaper use by the Golf Ball Mfgs. Assn. thru James C. Ewell, 612 N. Michigan Ave., Chicago. The illus-

STAUDE General Tractor \$495 to \$795

Made continuously since 1916 and sold on a money-back guarantee. Write for description and proofs of performance.

G. Staude Mak-A-Tractor Co. St. Paul, Minn. 2696 University Ave.



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To help you sell more and better golf balls, we are telling golfers again and again through 23,200,000 copies of the Saturday Evening Post, just why they can play better golf with

world's largest exclusive maker of

with VULCANIZED LATEX COVERS LAMINATED WINDINGS PATENTED CENTERS

The WORTHINGTON BALL CO., Elyria, Ohio

Les Strokes Says: A good golf ball subtracts from the player's score and adds to your bank balance.

trations show human interest demonstra-tions of toughness of the vulcanized cover golf balls.

A new paper towel and cabinet have been developed by Bay West Paper Co., Green Bay, Wis., which dispenses paper from a continuous roll. A cut-off forces the user to take only one towel at a time. The device is based on tests which showed that making it harder for the user to obtain a towel cuts towel consumption, as compared with use of the ordinary types

of folded paper towels.

With "Mosinee Turn-Towls" the user must first push a lever on one side of the cabinet, then turn a hand crank on the other side until it stops, and last, tear off

the towel against a cutter-edge.

After demonstrating before large and attentive galleries in the Eastern half of the country, the Acushnet caravan, headed by Claude Hastings, sales manager, now is on a tour of the Pacific Coast states.

This caravan is a laboratory travelling in a specially designed aero-car. Among

All experienced greenkeepers agree Fall Seeding is best-and hundreds of them throughout the country agree JOHNSON GOLF SEED produces the finest turf at the lowest cost. Let us quote on your requirements.

J. OLIVER JOHNSON, Inc.

World's Largest Golf Supply House

940 W. Huron St.

Chicago

its numerous features are many machines designed to test the balance and toughness of any golf ball. Another set of interesting machines shows the audience the results these tests have on any given type of golf ball subject to their hammering

efficiency.
"How far will the modern golf ball travel?" has been answered by the driving machine carried in the Acushnet caravan. While the limit a human being can drive is set at roughly 300 yards, this machine has driven a golf ball over 450 yards. A specially built guillotine will then slice the golf ball in two and show any audience the reaction that such a power drive has had on the ball's interior.

While the Acushnet company is subjecting itself to a severe test in allowing its balls to be publicly demonstrated against any competitive balls in this gruelling series, this testing method has been approved as convincing by those who have seen it in operation.

Hastings plans to take this novel demonstration outfit on a tour covering all the important golf clubs and centers on the Pacific Coast. Curley-Bates, Western Sales representatives for Acushnet, are arranging the itinerary.

In central states demonstrations the Achusnet outfit has done noticeably valu-

STANDARD EVERYWHERE GOLF BALL WASHER

An important convenience for

and ring ______\$10.50 Lewis Bag Rack and other Tee Equipment.

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WATER!

WATER IS MONEY - SAVE IT

WITH OOZO

Applies water to greens, aprons and approaches; slow, oozing action that penetrates to roots; saves water now being wasted in traps by sprinklers. 50 ft. ready for attaching to hose—\$15.50 delivered. 5 days' trial-money refunded if not satisfied; quantity prices lower. Write for literature containing valuable irrigating information. Try it on that tough green.

OOZO. In c., Howell, Mich.

Latest engineering features make this Spiker superior to others. Stainless Steel Spikes. Roller Bearings. Remarkable turf conditioner. Lessens Brown Patch. Increases grass growth. Hand or tractor operated. Moderate price. Needed on every Golf Course. Write for literature.

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Special Semesan-25 lb. pail.....\$42.50 Nu-Green-25 lb. pail.....\$30.00

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Trial plan will bring outfit for demonstration-

Write for details.

The Fulname Co., LeBlond Bldg. CINCINNATI, OHIO

able work for pros in reducing competition of the phoney-bargain store balls. Pros who have been suffering from this competition have had their players present the cheap balls for test. The differences in quality, performance and durability as vividly brought in evidence by the Acushnet roving, testing laboratory have won business for pro-grade balls.

Grass Seed Division of F. H. Woodruff & Sons, Milford, Conn., have available for interested green-chairmen and greenkeepers an excellently illustrated and fact-filled 48-page booklet, "Something about Turf", written by C. W. Baker and W. F. Nye, Jr. Subjects discussed include soils, preparation of seed beds, selection of seed mixtures, plant development, maintenance of turf, weed eradication, and grass diseases.

For a copy of the book, write Woodruff

at the address given above.

Advertising campaign to promote Perrier Water is being launched by E. & J. Burke, Ltd., New York City, sole agents for the United States. Perrier advertisements will appear in nationally circulated class magazines during the coming years. The copy appeal emphasizes Perrier Water, "a balanced mixer—water and carbonation both natural." A broadside outlining the advertising campaign, is being sent to clubs.

Dan Finch is the new representative in the Kansas City territory for L. A. Young Golf Co., Detroit, according to word from E. LeRoy Pelletier.

Latest addition to the U.S. Slicing Machine line is Model HB and is the smallest, lightest weight electric slicer ever offered. It is priced low, occupies small space and is portable.

Makers say Model HB Electric bolsters sandwich and cold plate luncheon business.

YOUR PLANS FOR FALL

should include a KEMP soil Shredder for preparing compast properly—at lowest cost. Powered with gas or electric motor, the Kemp shreds, mixes and sifts any kind of soil in one operation. Easily moved. Inexpensive to ewn and operate. Write for catalog. Kemp Manufacturing Co., Dept. G-86, 1919 Peach St., Erie, Pa.

KEMP POWER SOIL SHREDDERS

FOR THE GOLF COURSE Sod cutters

Practice clubs

To Meet Every Need

Read the 49 advertisements in this issue. You should find just about everything you need for the most efficient operation of your course, your pro-shop, or your clubhouse. And you can depend upon the advertisers too—all reliable sources of supply. If you can't find what you need, refer to the list below. Draw a line through items on which you want complete information and prices. Mail to GOLFDOM, 14 E. Jackson Blvd., Chicago. It will bring you the information you need in making your purchases.

Arsenate of lead Bag racks for tees	Soil shredders	Prizes
	Soil testers	
Ball washers	Sprayers	cups trophies
Bent grass stolons	barrel pump power engine	Rain jackets
Bookkeeping systems	power engine	Score cards
Brown-patch preventives Charcoal (soil condition) Clamps, for pipe leaks	Spike discs	Shafts
Charcoal (soil condition)	Sprinklers	hickory steel
Clamps, for pipe leaks	greens fairway	Shoes
Compost distributors Compost sterilizers	Swimming pool information	Shoes Shoe spikes
Containers, waste	Tee markers	Shoe trees
Diesel engines	Tractors	Sockettes
Drinking fountains	Tractor tires.	Sweaters
Dump carts	□ low pressure	Sweat shirts
Fencing	Tractor tires, low pressure pneumatic	Tees
Fertilizers	Tractor wheel spuds	□ wood □ celluloid
Fertilizer distributors	Water systems	Trap-shooting traps shells targets
Hole cutters	for greens for fairways	shells targets
Hole rims (putting cups) Hole rims (sand green)	for fairways	Underwear
Hole rims (sand green)	Water system engineer Weed burners Weed killers	
Hose, water	Weed burners	
Humus (soil conditioner)	Weed killers	
Hydraulic mixers (fertilizer)	Worm eradicators	
Insecticides		FOR THE CLUBHOUSE
Lightning arresters		Alan
Lime, hydrated	FOR THE PRO SHOP	Ales Ben equipment
Limestone, pulverized Mole and gopher poisons	TOW THE PRO SHOP	Bar equipment Bath slippers
Mole and gopher traps	Bags	paper wood
Mowers	canvas	Bars
putting green tee	leather	
fairway rough	Balls	fixed portable
Mower Blades	Ball marking machines	Bath towels
Mower sharpening machines	Ball marking machines	Beer
Peat moss (soil conditioner)	Belts	bottle draught
Pipe	Bookkeeping system	draught
perforated for drainage water	Buffing motors	Beer cooling equipment
_ water	□ A.C. □ D.C.	Cash registers
Playground equipment	Caddie badges	Cheese
Pumps (state capacity)	Caddie uniforms	Deodorants
	Calks for golf shoes	Disinfectants
	Caps Clubs	Kitchen equipment
Putting paths (sand green) Putting cups	Clubs	Laundry equipment
Rollers	Brassies Drivers Irons Matched sets Putters Spoons Women's	Liquors
fairway	Putters Spoons	□ gin
O green	Women's	Whiskey
fairway green spiked	Club racks for pro shop	gin whiskey wine mixers
Sand green equipment	Gloves	Linens
Scythes (motor driven)	Grip dressing	Lockers
Seed	Grip wax	Mineral water
☐ fairway	Handican	Defrigarators
fairway green rough	□ racks □ cards	Rugs—runners for aisles
rough	Hats, duck with vizor	Showers
	Leather jackets Leather preservative Movie cameras, projectors	Soda fountains
Seeders	Leather preservative	Water coolers
Seeders Shelters (golf course) Skeet layouts		

President

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...what you're doing

For our readers to get the utmost good from this magazine, we must have at all times an accurate up-to-date list of each golf club's officials. And we need your cooperation in keeping our list in such condition.

If you get good from these pages, so will your club officials not on our mailing list. Perhaps we haven't been notified by your club of its latest election or recent appointments. Right now—do your club a favor by tearing out this page and mailing it, filled in, to GOLFDOM, 14 E. Jackson Blvd., Chicago.

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Manager		
Address		
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Address		
Club		
Town	State	
Number of Holes Is Course Private, Daily Fee or Municipal?		
Please give us this additional inform	nation for our records:	
Swimming Pool? How Many	Tennis Courts?Trapshooting or Skeet?	

JANSSEN GRAYBAR HOFBRAU

Lexington Ave. at 44th St. Old Hofbrau: 28 W. 30th St. Where golfers meet in the atmosphere of 'Old Heidelberg'—the perfect combination of a delightful eating place and '19th hole' in the heart of New York. Open Sundays.

Janssen wants to see you!

It slices hot and cold beef, ham, bacon, corned beef, meat loaf, sausages, cheese, hot and cold breads, cakes, etc. With it you can slice potatoes wafer-thin and make your own fresh potato chips every day. It's a time saver, cutting cabbage, celery, carrots, onions, cucumbers and pickles. It also slices all fruits for cooling drinks and salads.

Finished in bright colored Duco with glistening stainless steel and chromium. For further details write U. S. Slicing

Machine Co., La Porte, Ind.

The new balls introduced during the British Open and on which the American newspapers commented, were the new "Red Name" Autograph Penfolds. These balls feature still further development of Penfold's exclusive cold "Chemo-Weld" process—claimed by the makers to keep life in a golf ball during manufacture. In this newest development of the process Penfold claims that he can add length to a ball, virtually at will, without making the ball "woody"—without sacrificing feel. Marcel Dallemagne won the French

Open playing the new ball.

Penfold Golf Balls, Inc. have taken over the sales and distribution of the reborn Tufhorse bag line throughout the Eastern states. A full display of the bags may be seen at the Penfold showrooms, 11 Park

Place, New York. Announcements will be

released to pros shortly.

Kroydon Co., Maplewood, N. J., has made several additions and switches in its sales force. Frank Mitchell now is representing Kroydon in New York state. L. W. (Jack) Dalton, for nine years with Kroydon, has been assigned to New England. Robt. E. Hoffner, in that territory for seven years, is transferred to Kroydon's

Pa., Del., Md., and Va. beat. C. J. (Jack) Henningsen comes back to the Kroydon staff to take Al Grant's place in Wisconsin and some other Midwestern territory.

Classified Ads

Greenkeeper-pro with extensive successful experience in high-class course maintenance on low budgets and fine instructor seeks new location either in south or north for next season. At present connected with famous club. Especially interested in greenkeeping job at moderate salary. Address: Ad 804. Chicago, Ill.

18-hole golf course, well located and completely equipped, wanted by experienced daily fee course operator under lease with purchase option. Address: Ad 800. % Golfdom, Chicago, Ill.

Golf Professional—expert instructor, clubhouse manager and greenkeeper desires connection. Highest credentials. Address: W. C. White, 2227-19th Ave., San Francisco, Calif.

Greenkeeper now employed desires to make change. Thorough knowledge of grasses, soil, maintenance and construction. Excellent references. Will go anywhere. Address: Ad 803, % Golfdom, Chicago, Ill.

PROS—ATTENTION Please—"Grip-Rite" removable Shu-Spikes are economical, convenient and practical. Can be EASILY INSERTED and PREVENT SLIPPING and IMPROVE STANCE. Help your members by recommending "Grip-Rites." The North & Pfeiffer Mfg. Co., Hartford, Conn.

Manager—31 years old, college education and married. Six years' experience in business and country club management. At present am in full managership of a private golf and country club and wish to become located in the south or southwest for the winter season. Address: Ad 801, % Golfdom, Chicago, Ill.

Golf course for sale in Northern Wisconsin. Semi-public, 18-holes, clubhouse furnished complete. Only course in city of 15,000. Beautiful, scenic, sporty. Reason for selling due to owner's death. Address: Ad 501, % Golfdom, Chicago, Ill.

Golf Course Wanted—I wish to purchase, or lease for long term, nine or eighteen hole course, Grass greens, clubhouse containing living quarters. Address: Ad 500, % Golfdom, Chicago, Ill.

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MILORGANITE is a natural organic fertilizer easy to apply — nonburning — long lasting. Its continued use eliminates the necessity of constant reseeding. Plan now on MILORGANIZING your fairways this fall. It will restore turf vitality, increase turf density by encouraging desirable grasses to spread (thus discouraging many objectionable weeds), and give your grass the strength to survive winter. Any MILORGANITE not consumed this fall will lie dormant in the soil during the winter to give the grass plants an early start next spring.

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