Concealed sprinkler type becoming popular on golf courses. Mowers pass freely over concealed sprinklers not in use.

This photograph, showing interior of Eden pumphouse, was omitted through error in September GOLFDOM. Note deep well pump in foreground discharging into intake sump connecting to large pond. Roof has hatch over turbine pump for well driller's future convenience.
THE RICHMOND SOD CUTTER


MILORGANITE
THE IDEAL TURF FERTILIZER

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"Although we have only had our KEMP Soil Shredder for about 10 days, we must say that it does wonderful work. It is not only a labor-saver, but delivers a product which can not be obtained by hand screening." Mark A. Cawley, Landscape Architect, Camp Engineer, Warrensburg, N.Y.

KEMP, by properly shredding soil and retaining the vital humus, makes better top dressing. Power driven, it prepares soil in one operation—saving from a third to half the time and labor of hand-and-shovel methods. Write for details and Catalog. KEMP MANUFACTURING CO., Dept. C, 2001 Peach St., Erie, Pa.

ECONOMY SPRINKLERS

make all water systems efficient. Sturdy and wear-proof, they distribute water evenly without waste.

ECONOMY IRRIGATION CO. INC.
21 Spokane Street, Seattle, Wash.

Distributors in leading American and Canadian Cities.

fairway irrigation can be initiated at an outlay of $10,000 to $20,000, and later extended over a period of years, into ultimate hoseless irrigation, at a low total cost, and with no replacements under 12 to 15 years, or more. Clubs interested in fairway irrigation should arrange a thorough investigation of all factors involved in their water supply and prospective distribution system, and give consideration to proceeding along safe and sane lines, to ultimate hoseless irrigation.

Low Cost Hoseless Systems.

The necessity for low operating costs has been responsible for the design of a "one man" hoseless system, a system whereby one man can irrigate an entire 18-hole property, including the house grounds. Systems of this type can be installed at an increase of from 10 to 25 per cent over the construction cost of ordinary hose systems (except on courses of rambling design and large total property area). The first systems of this type will be installed during the fall of 1930. It is quite possible that the "one man" system will prove very popular and lead to a rapid spread of hoseless irrigation throughout Eastern States.

Benefits of Irrigation.

Artificial irrigation is a necessity on the golf courses of the eastern and central states, but the golfing public has not yet discovered this. At Kansas City they even say that irrigation is impractical. Nevertheless, fairway irrigation is spreading and by 1940 nearly all of our 18-hole courses will be under complete irrigation. Of course, water alone is not a panacea for turf ills. Five things are needed to produce the finest turf: tilling, seeding, fertilization, irrigation and drainage and over all, intelligent turf management. Irrigation is a great blessing to established turf. It can be mismanaged to produce weeds as at Kansas City. But the general results are indisputable.

Evidence on Every Course.

Nearly every course shows evidence of the benefits on fairway irrigation. Go out on your courses and examine the fringes of your greens—where fairway turf merges into putting green—and see for yourself what a judicious combination of fertilizer, tillage, and water, will do for the fairway turf. While you are out there, count the weeds you see in the green fringe (usually you can easily count all you can see) and then imagine the condi-
This Helps Your Buying

Use this page to notify GOLFDOM of your club's requirements for course, clubhouse and pro shop, and you will get prompt and complete details from leading manufacturers.

Check this page and mail it to GOLFDOM, 236 N. Clark St., CHICAGO

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Club .......................................................... By ..........................................................

Position ...................................................... Address ..................................................

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Date ......................................................... 1930

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**Itemizing the Benefits.**

Irrigation makes up for the irregularity of the rainfall and for its inadequacy, providing the optimum moisture content required for best plant growth.

Irrigation provides the means of securing maximum results from fairway fertilization.

Divots (when replaced) will grow on irrigated ground. Scars and other wear and tear are quickly and automatically repaired.

Irrigation enables the turf to hold its improvements in quantity and quality. Without irrigation the growth of the spring and fall are largely lost in the summer, and succeeding years often yield poorer, rather than, better, turf.

Irrigation to proper depth (usually six inches) plus sensible fertilization, reduces weed growths, and strengthens the fairway grasses to the point where they are able to crowd out undesirable growths.

**Player Benefits.**

Artificial irrigation maintains the turf in uniform playing consistency, and hence in uniform playing length, throughout the season. The same stroke produces the same distance at any time of the year.

Irrigation produces turf that provides sporty lies throughout the year and makes for a better game. Nearly every shot is “teed up” on a mat of grass. Brassie lies are particularly improved. Irrigation develops the grounds to their maximum beauty, and comfort. Just compare walking 7,000 yards over hard, dry, dusty ground with a like walk over springy, velvety, green turf.

Irrigation saves annual seeding expense.

Irrigation increases the guest fees and the patronage throughout all departments. If there be any panacea for the finance committee, it is fairway irrigation, and the resultant increased revenues.

The sum total of complete irrigation is
the maximum pleasure from the game of golf. Our clubs east of the Rocky mountains are slowly discovering this fact, and accordingly general irrigation is spreading slowly, but surely, among the stronger clubs, and in a very few years will be classed as a necessity instead of a luxury; for fairway irrigation is indeed a necessity, if we are to have the very finest turf, and the greatest pleasure from our golf.

CORRECTION—In the September installment of the Miller series on fairway watering two illustrations were incorrectly captioned. The view described as "interior of Eden pumphouse" actually showed the emergency pumping installation in the stadium grounds to supply University of Michigan golf course new seeding.

The California hoseless outlet and portable sprinkler was incorrectly described as a "concealed sprinkler."

Canadians Hold Second Show of Course Equipment

ONTARIO greenkeepers held their second golf course equipment and supply exhibition and demonstration at the Royal York G. C., Toronto, Sept. 9. The event was first held in 1928 and allowed to lapse during 1929. This year's revival was marked by a large attendance of both course maintenance men and manufacturers and won enthusiastic comment for the practical manner in which it was handled.


Working demonstrations of equipment were given by various manufacturers and greenkeepers provided with an excellent opportunity to make close-up comparisons under actual operation conditions. It now is the intention of the Canadian greenkeepers to make the equipment demonstration an annual fixture.

Quebec greenkeepers made up a goodly percentage of the 200 in attendance at the affair.

Racks HANDICAP Cards

John Willy Handicap racks and cards are standard with practically all the leading American golf clubs. Write for booklet.

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Pro-Greenkeeper with 11 years' experience in shop and greenkeeping desires new location for next season. Also is interested in winter location. First-class instructor and good business man. College graduate and has finest recommendations. Three years at present club. For complete details write: Box 611, % Golfdom, Chicago.

Manager with 11 years' successful experience at prominent metropolitan district club desires new location for 1931 season. Has unusually fine qualifications in general clubhouse management, finance and secretarial duties. Has been directly responsible and financially successful in handling club operating details in a manner that relieves officials of worries connected with all phases of house operation. For complete information write: Box 612, % Golfdom, Chicago.

South Carolina Club with 135 members desires competent steady professional. Guarantee is $50.00 a month with full concessions. Furnished bedroom in clubhouse for pro, who will be required to stay on premises at night. A good opening for a conscientious young man who will grow with the club. Address: Box 613, % Golfdom, Chicago.

Experienced professional wishes position with club for winter months. Now employed. Can furnish excellent references from present club. Good instructor and player. Address: Box 614, % Golfdom, Chicago.

Want professional (no greenskeeping) of highest calibre for highest class fee course, in central west. Must be good teacher. $350 per month minimum guaranteed. Average attendance 1,000 per week. A gold mine if you can qualify. Address: Box 615, % Golfdom, Chicago.

Well-known and very successful club manager desires to make new connection on expiration of his present contract October 1st. Located in California for past several years but will go anywhere. Wife is valuable aid as hostess in building club spirit and clubhouse business. One of the country's most successful operators of a golf club on a first-class basis. Full details of qualifications will be sent immediately upon request. Please advise something about your situation in your answer. Address: Box 617, % Golfdom, Chicago.

Professional and wife desires position for next year. Wife is competent clubhouse operator, having been with present club for eight years. Pro is excellent instructor and good man at course maintenance. Is sober, steady, reliable and hard worker. This team will make a staff for any average size club. Address: Box 618, % Golfdom, Chicago.

Wanted—Position as Manager or General Manager. Have successfully managed four large club properties located in Illinois, New York, North Carolina and Oklahoma. Thirty-five years of age, college education, excellent health, A-1 references; can furnish bond for any amount required. Address: Box 619, % Golfdom, Chicago.

Wanted—To buy or lease in the middle west or south, daily fee golf club with good earning possibilities under competent management. Please give complete details of proposition including size of town and competitive golf aspect in first letter. Address: Box 620, % Golfdom, Chicago.


Greenkeeper wants position with reliable club. Can furnish best of references. Available any time after December 1st or will consider engagement for spring of 1931. Address: Box 621, % Golfdom, Chicago.

Able and conscientious young professional, well schooled in all phases of professional work and club operation, is anxious to make connection with golf club for winter and for 1931 season. Splendid education, pleasing personality and thoroughly on the job. Will furnish best of references. Address: Box 622, % Golfdom, Chicago.

Professional, 32, sixteen years' experience, desires to change for broader activities. Takes an active interest in teaching and shop service, also course maintenance if desired. Has a clean record; A-1 credit rating; am a hard worker and will give any club employing me 100% efficiency. References from former employers. Address: Box 624, % Golfdom, Chicago.

Pro-Greenkeeper — Scotch-American, 20 years' experience, general managerial capacity, wants position with medium-sized club. Efficient, trustworthy. References; wife capable caterer. Address: Box 628, % Golfdom, Chicago.

Managing Steward, ten years' successful experience at high-class clubs, desires new location. Will go anywhere. Excellent operator of clubs with exacting membership. References and surety bond furnished. Address: Box 626, % Golfdom, Chicago.

Well-known Scotch professional for eight years connected with prominent American club desires Northern situation. Highly successful instructor, thoroughly alive to club's best interests, and in every way qualified to give employers complete satisfaction. For full details and references write: Box 627, % Golfdom, Chicago.

Young and thoroughly experienced and successful professional desires position for winter only with a small club. Will go anywhere. Highest references, splendid personality and a real factor in business-building service to any club. Address: Box 625, % Golfdom, Chicago.

Tree surgeon. Competent young man with considerable experience in all kinds of tree surgery desires a steady connection with a country club or institution to take charge of tree maintenance. Satisfactory references will be furnished. Norman H. Beebee, 835 Hazel Ave., Ardsley P. O., Pa.

Advise GOLFDOM of Your Winter Address

GOLFDOM will appreciate receiving from greenkeepers, professionals and managers prompt advice of their new mailing addresses when they leave their clubs at the conclusion of the current season.

You don't want to miss a copy of GOLFDOM and we don't want to have a single issue fail to reach you, so we will both benefit from this cooperation.

GOLFDOM, during the coming winter months, will have a great array of articles on planning for the 1931 season—practical stories that will help every alert club department head make 1931 a banner year.

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Handy—concise—complete for Greenkeepers, Professionals, Foremen, Superintendents, Contractors, Architects, College Graduates.
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Tell us any idea for making GOLFDOM advertising more helpful.
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Forms close 20th of month preceding date of issue. Address all communications to home office.
Circulation: A personally addressed copy of GOLFDOM is mailed free, each month, to the president, green chairman, greenkeeper, house manager and professional of every golf club in the United States, Cuba, Mexico and Hawaii. Please notify us at once of any changes in above offices, sending us the new names and addresses.
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