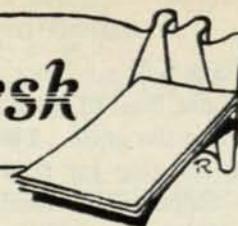




Around the Office Desk



ERICKSON GETS PRAISE

Golfers of the Northwest may look for large and lasting benefits from the work of the recently organized Greenkeepers' Association of Minnesota. The greenkeeper is the unsung hero of the links; great things are expected of him, yet his feats never are blazoned in the headlines. The greenkeeper's lot is a constant battle against conditions over which he usually has no control, and his efforts and results often are too little appreciated by the golfer. The veteran and expert Charley Erickson of Minikahda, who heads the Minnesota organization, and his associates will go the limit, we may be certain in studying what is best for our courses and in disseminating their knowledge. EDITORIAL TAKEN FROM THE 10,000 LAKES AMATEUR GOLFER. HUBERT M. DUSTIN, EDITOR.

A WORLD OF GOOD

Cedarbrook Country Club
Mt. Airy, Philadelphia, Pennsylvania.

Dear Mr. Power:

Enclosed find the copies that were forwarded to me marked as I carefully considered them. I realize that conditions under which the average greenkeeper works are so different and that the brown-patch is much more severe in certain localities than in others, and these facts I also considered when reading over the various articles.

That the contest has done a world of good there can be no question, and I want to congratulate you on the novel idea of having it, also the interest you are showing in the hope of mastering this dreaded "Pest" and the golfing world and the greenkeepers owe you a debt of gratitude for this interest. My sincere wish is that from these articles may come the real mastering of a condition that has caused more mental depressions than anything else pertaining to golf courses.

I want to select this means of congratulating the men who wrote the articles, for you have shown your interest in the giving of your time and talent that we may have better looking courses during the "brown-patch" period.

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SHALE **GENERAL** TILE
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The General Clay Products Company
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GOLF SHOW ANNOUNCED

Fred A. Burkhardt, chairman of the Show Committee of the National Association of Greenkeepers of America, announces the 2nd Annual Greenkeepers' Golf Show to be held in February. Prospective exhibitors may file their tentative reservations for space now subject to definite assignments later. Address 405 Caxton Bldg., Cleveland, O.

In closing I want to again compliment you and the writers of the articles for your determined effort to stamp out our greatest enemy brown-patch and that success will crown your efforts is the sincere wish of

Sincerely yours,

(SIGNED) Lewis M. Evans, Treasurer

The National Association of Greenkeepers of America.

Robert E. Power, Editor

THE NATIONAL GREENKEEPER.

OAKLEY SENDS GREETINGS

Mr. John Morley, President

The National Association of Greenkeepers of America

2248 Selma Avenue

Youngstown, Ohio.

Dear Mr. Morley:

It was indeed a pleasure to get your letter of May 22 with the words of good feeling contained in it. I have thought of you many times since I have been forced into retirement and especially recently since learning of the annual meeting at Atlantic City. It would indeed be a great pleasure to me to meet with my greenkeeper friends this year but of course I cannot do so. I am looking forward, however, to a time when it will be possible to take part in such gatherings again.

I am pleased to say my health is improving nicely although slowly.

Please remember me to my friends with whom you may come in contact and especially my very kindest regards and best wishes to yourself.

Sincerely yours,

(SIGNED) R. A. Oakley.

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Ammonium Sulphate

WEEDS will take root and increase in a lawn that has not been supplied with enough plant food for the needs of the grass. They have longer roots and are better at foraging for food. If you apply plant food, such as Sulphate of Ammonia, you will increase the growth of the grass and it will be able to crowd out the weeds. But Sulphate goes further than this, in that it creates a soil reaction that is unfavorable to the weeds while favorable to the grass.

Ordinary weeds, such as buttercup, dandelion, crabgrass, chickweed, plantain or buckhorn, are definitely discouraged, and in course of time will disappear. The time required varies with the soil conditions, size and number of weeds, and the treatment given. One set of conditions will respond more readily than another. Both the crowding of the well-nourished grass and the changed soil reaction work toward the same object, namely, weed elimination.

Directions for Applying to Putting Greens

Apply from three to five pounds for each 1,000 square feet of green and repeat as below. The Arcadian Sulphate of Ammonia for each application should be mixed with about a cubic yard of sand or good loam compost and spread evenly on the grass. Follow this by a thorough watering.

Three applications of Arcadian Sulphate of Ammonia should be given annually, one early in spring, one late in spring and the third early in the fall.

Applying in Solution

Another method of applying is to dissolve three to five pounds of Arcadian Sulphate of Ammonia in 50 gallons of water for each 1,000 square feet of green and apply evenly with a sprinkling can. Water thorough after applying.

The choice between these two methods is largely a matter of convenience.

If a new green is being built mix 50 pounds of Sulphate of Ammonia with the surface soil a few days before the seed is sown. No lime should be used either in building the green or as an application later, as it counteracts the acid tendency, which is desired.

Fairways

One of the best known golf architects in the United States recommends that Sulphate of Ammonia be used on the fairways at the rate of 200 to 300 pounds per acre each year. This should be put on in two applications about two weeks apart early in the spring, when the grass is dry.

It aids distribution to mix with about five times its weight of sand. Even without the sand, however, there is no danger that this amount will harm the grass provided it is spread evenly and the grass is dry. The fine mechanical condition of Arcadian Sulphate of Ammonia makes it possible to distribute it on the fairways through a fertilizer drill or distributor.

How Golf Hose Is Made

By R. M. GATTSHALL

Republic Rubber Co., Youngstown, Ohio

TWENTY-FIVE years ago no one ever heard of a piece of hose being longer than fifty feet and great excitement was caused by the announcement that a continuous piece of hose could be made up to five hundred feet. Today we speak of this type of hose as "Molded and Braided" type.

The old construction known as the "wrapped type" consisted of three, four, five, six or seven plies of duck or sheeting wrapped upon a mandrel, each ply being first coated with a thin sheet of rubber. When this was tightly wrapped and subjected to heat the rubber would run together, but the best manufacturers could do would not permit of making an even tension on the duck, consequently, when the hose was bent sharply a kink would result and eventually a leak would appear at the kink. The hot sun on golf courses would soon dry out the rubber between the plies of such constructed hose today.

The molded and braided type is constructed in a very much different way. The tube or water-way is formed by running the uncured compounded rubber stock through a machine that looks a great deal like a large meat grinder.

The rubber is first heated to a point where it is plastic and then fed into a hopper where it is caught in a worm gear that forces it around a solid die. This forms the shape of the tube to its proper size and as it comes from the machine it is coiled on a large revolving table about six feet across. In this tube is just enough air to keep it from collapsing and sticking together.

It is now placed in a braiding machine where bobbins revolve about it braiding on the tube, threads, a good deal in the fashion a May Pole is wound up. Some times one thread is braided on, sometimes two, and naturally it makes considerable difference in the strength of the hose whether the braid is single or double.

The size of the thread also is a determining factor. After this first braid is applied a sheet of rubber is put on the hose which will act as insulation between plies and friction to hold the plies together. Then another ply is braided on. Generally two plies only are used, but in some cases more are called for.

When the required number of plies are built up the cover is applied by passing the hose through the machine the tube is formed on. The whole is then placed in cavities in a large plate mold which is operated in a steam heated hydraulic press. Sufficient air is forced into the hose to expand it against the wall of the mold and the heat and pressure causes the rubber to run together into one integral part.

This construction permits of long lengths without couplings to dig up the greens. The braided plies are put on at an angle and with an open weave which allows the rubber to run in and around each thread thereby lubricating each thread and reducing the cutting action of one thread upon another. It also makes a hose which can be bent and twisted without causing the kink which is so detrimental to hose.

Market Place and Buyers' Guide

Where all reputable firms handling supplies and equipment are listed. For addresses refer to advertisers index page 34.

Ball Washers

J. Oliver Johnson, Inc.
Stumpp & Walter Co.

Bent Stolons

Hubbard Nurseries
O. M. Scott & Sons Co.
Lyman Carrier, Inc.
Stumpp & Walter Co.

Brown-Patch Control

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Bayer Company, Inc.
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PATRONIZE YOUR ADVERTISERS
They make this *Greenkeeper's Magazine* possible

Fletcher Golf Specialties

The Philadelphia Toro Company, 1528 Belfield Ave., Philadelphia, Pa., sole distributors of Fletcher golf specialties announce some very interesting equipment for golf course maintenance.

Chief among these is the Fletcher Green Roller for putting greens which is scientifically designed to give just the right pressure and is so constructed it will not mark or cut the green. It consists of four sections running on grease packed roller bearings and is very easy running.

Quite an innovation is a Practice Green Marker which consists of a staff fitted with a plate which catches the ball as it drops in the hole. When the staff is lifted the ball comes out automatically.

The Fletcher line also includes the Crown Tee Marker finished in Duco in either red or white, the Drainwell Hole Cup which drains at the side as well as the bottom and the Hole in One pole end which gives plenty of room between the edge of the cup and the flag pin to allow the ball to drop in. It is said that the White-marsh Valley Club of Philadelphia

using this pole end had more Holes in One than any club in the district last season.

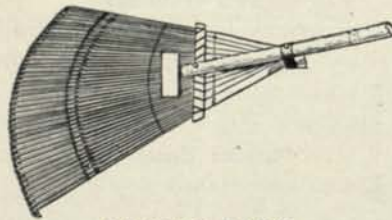
Special literature covering all of these Fletcher Specialties may be obtained from the Philadelphia Toro Co., at the above address.

Buy Your Seed Now

WEATHER—wields a mighty influence in the price movement of grass seed. Sharp advances have just occurred in Kentucky Blue Grass and Redtop, principally because the weather in producing sections has been unfavorable and meadows that are expected to produce seed for summer harvests are looking unpromising.

It is of interest to you to know that seed prices which have been far below normal for the past eighteen months are on the advance. Imported varieties such as German Bent and Chewings Fescue even though partially held down by normal crops will be influenced somewhat by the strength in the domestic grass seed markets.

Should you be able at this time to anticipate your fall seed requirements we believe it will be to your



BROOM RAKE

A product of J. Oliver Johnson, Inc., Chicago, Ill.

advantage to consider buying for later delivery. While we have no positive means of accurately forecasting future markets, we are simply passing on to you an opinion based upon a study of the factors that affect seed harvests and seed markets.

O. M. SCOTT & SONS CO.
Marysville, Ohio.

Drainage For Bunkers

The important question of bunker drainage which bothers every greenkeeper may be solved by the use of a new Armco Perforated pipe recently put on the market by the Ohio Corrugated Culvert Company of Middle-



*Delivered prices quoted
on request*

The E. BIGLOW Co.
DEPT. G. NEW LONDON, O.

town, Ohio. This pipe is eight inches in diameter, thoroughly galvanized and is perforated with one-quarter inch holes through which the water seepage is taken into the drain so gradually and effectually that no sand is sucked in to fill it up.

Use of this perforated pipe throughout the bunker area causes the bunker to drain more quickly than through a single opening which is the custom with drain tile. This pipe may be shipped in long lengths up to twenty-two feet with connecting bands, and while the first cost is greater than clay there is so little of it used that it is perhaps more economical in the long run.

Complete information with prices may be obtained from the company at the above address.

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Golf course mechanic thoroughly experienced in golf course maintenance and construction work wishes to change position to either a western or southwestern course. Employed at present at one of the well known eastern courses. Can take care of golf course equipment both outside and in the buildings. Will be able to give excellent references.

Address.—P. B.—THE NATIONAL GREENKEEPER, Caxton Bldg., Cleveland, Ohio.

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Greenkeeper with thirty years experience, seven years Muirfield, Scotland, ten years at Dunbar, Scotland and the balance in the United States and Canada seeks position either as greenkeeper or construction superintendent. Holds the best of references. Can leave on month's notice.

Address.—W. M.—THE NATIONAL GREENKEEPER, Caxton Bldg., Cleveland, Ohio.

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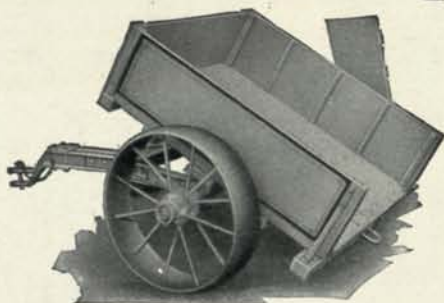
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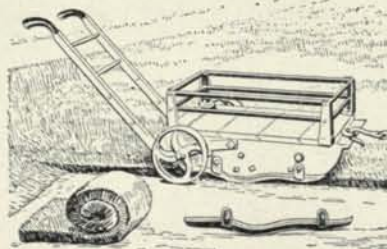
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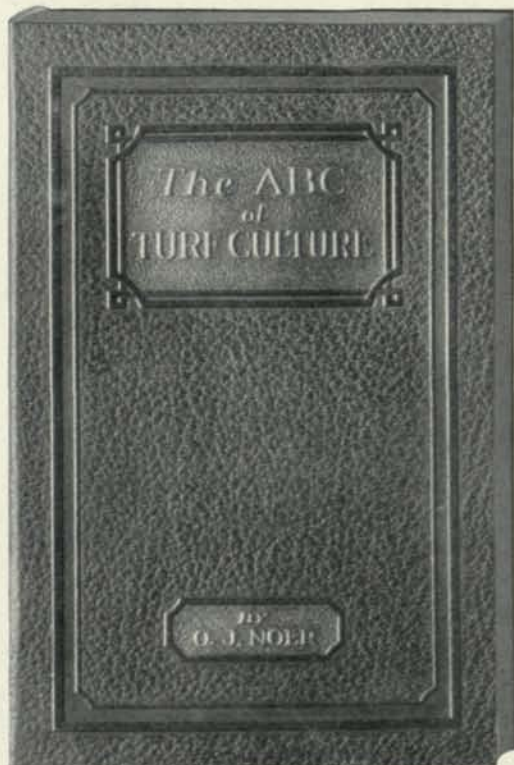
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by O. J. NOER

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Elements and Characteristics
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The National Greenkeeper, Inc.

405 Caxton Bldg.

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