

The TORO Zenith Disker

FOR cultivating putting greens without marring their beauty . . . to open the soil for light, air, water and top dressing and to prevent excessive souring . . . use the Toro Zenith Disker several times during the season. It cuts the running stooling grasses and weeds without injuring the turf.

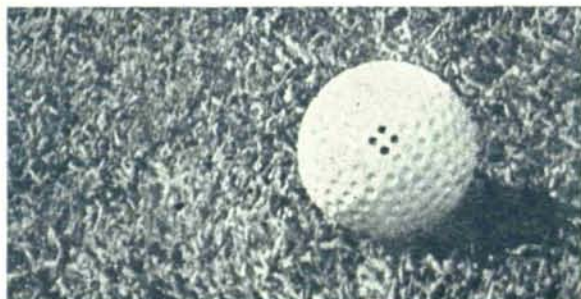
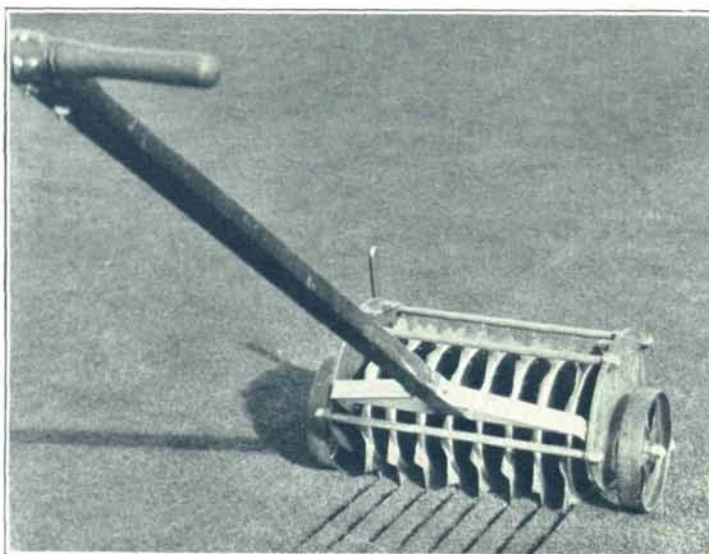
*Write for complete catalog
of Toro Equipment*

Toro Manufacturing Co.

3042-3160 Snelling Avenue
Minneapolis, Minn.

Service Stations at:

Newton, Mass.	Cleveland, Ohio	Dallas, Texas
New York, N. Y.	Detroit, Mich.	Los Angeles, Calif.
Yonkers, N. Y.	Indianapolis, Ind.	Winnipeg, Man.
Syracuse, N. Y.	San Francisco, Calif.	Toronto, Ont., Can.
Troy, N. Y.	Chicago, Ill.	Calgary, Alta., Can.
Jacksonville, Fla.	Des Moines, Iowa	Buenos Aires, S. A.
Philadelphia, Pa.	Kansas City, Mo.	Hamburg, Germany



Coccoos Bent — The Turf that has made California Greens famous

Coccoos Bent is botanically known as *Agrostis Maritima*, but all strains of *Agrostis Maritima* are not Coccoos Bent.

We offer the true Coccoos Bent, the finest of the *Agrostis Maritima* grasses, in sealed bags.

For the Finest Turf Sow Bent

Grass Seed of Known Quality

TESTED for PURITY and GERMINATION
South German Bent Colonial Bent Rhode Island Bent
Coccoos Bent Special Putting Green Bent Formula
Superfine Fairway Formula (with Bent) Bent Stolons
Wholesale prices on above, or any other turf grasses, on request

Stumpp & Walter Co.

Specialists in Golf Grass Seeds and Equipment
30-32 Barclay St., New York

JUST OUT— The Lawn

BY LAWRENCE S. DICKINSON

Ass't. Professor of Horticulture
Massachusetts Agricultural College

Defines and describes the Culture of Turf in Park,
Golfing and Home areas.

CONTENTS

The General View	Controlling Pests
Molding the Lawn	General Maintenance
Preparation of the Seed Bed	Lawn Mowers
Seed Selection and Planting	Park Turf
Important Turf Plants	Cemetery Turf
Planting a lawn with Stolons	Useful Tables
Fertilizing	

Illustrated

128 pages---Price \$1.25 postpaid
to any address

The National Greenkeeper

405 Caxton Bldg.

Cleveland, Ohio

The NATIONAL GREENKEEPER

(Registered U. S. Patent Office)

Official Organ of the National Association of Greenkeepers of America

Published monthly at 405 Caxton Building, Cleveland, Ohio.

Contents copyright, 1930, by The National Greenkeeper, Inc., Publishers.

Robert E. Power, President and Editor; Frank H. Pelton, Sec'y.; C. F. Lowe, Treas.; M. J. Fox, Asst.-Sec'y.

Entered as second-class matter, Aug. 25, 1928, at the post office, Cleveland, Ohio, under act of March 3, 1879

All Rights Reserved—None of the contents of this Magazine, either wholly or in part, may be reprinted without permission

Contents

BELIEVE ALL, USE LITTLE <i>By Prof. Lawrence S. Dickinson</i>	5	HOW WE NURSED OUR GOLF COURSES THROUGH THE PAST SUMMER'S DROUGHT.....	14-15
GET READY NOW FOR COLUMBUS <i>By Colonel John Morley</i>	6	GOLF COURSE CONSTRUCTION FROM THE GREENKEEPER'S STANDPOINT Chapter No. VII — Landscaping the Golf Course <i>By Edward B. Dearie, Jr.</i>	19
CLEVELAND GREENKEEPERS WILL PLAY <i>By Frank P. Dunlap</i>	8	PACIFIC NOTES <i>By Arthur Langton</i>	22
CANADIANS STAGE EXHIBITION <i>By J. H. Evans</i>	9	MID-WEST GREENKEEPERS' PAGE <i>By A. L. Brandon</i>	24
NEW ENGLAND NOTES <i>By Llewellyn L. Derby</i>	12	MARKET PLACE AND BUYERS' GUIDE.....	25

Officers---National Ass'n of Greenkeepers of America

John Morley, President
Youngstown Country Club
2248 Selma Avenue
Youngstown, Ohio

John Quail, Secretary
Highland Country Club
426 Highland Avenue
West View, Pittsburgh, Penn.

Fred A. Burkhardt, Treasurer
Westwood Country Club
Cleveland, Ohio

John MacGregor, First Vice Pres.
Chicago Golf Club
Box 717, Wheaton, Illinois

Lewis M. Evans, Second Vice Pres.
Cedarbrook Country Club
Mt. Airy, Philadelphia, Penn.

Wm. J. Sansom, Third Vice Pres.
Toronto Golf Club
Long Branch, Ontario, Can.

George Davies, Fourth Vice Pres.
Big Springs Golf Club
Louisville, Kentucky

Robert J. Hayes, Fifth Vice Pres.
Pelham Country Club
Pelham Manor, New York

DISTRICT VICE PRESIDENTS

ELMER F. AFFELDT, 3512 Brewster Ave., Flushing, L. I., New York.
JOHN ANDERSON, Crestmont Country Club, W. Orange, N. J.
WALTER G. ANDERSON, Sunnehanna Country Club, Johnstown, Penn.
A. E. ARNOLD, Masonic Country Club, Grand Rapids, Mich.
C. J. AUGUSTO, Del Monte Country Club, Del Monte, Calif.
G. W. BARNES, Banff Springs Golf Course, Banff, Alberta, Canada.
C. G. BARTON, Sylvania Golf Club, Toledo, Ohio.
C. BASHAM, River Crest Country Club, Fort Worth, Texas.
ALEX. BINNIE, Shoreacres Golf Club, Lake Bluff, Ill.
JAMES BOLTON, Berkshire Country Club, Reading, Penn.
W. A. BOSTIC, Biltmore Forest Country Club, Biltmore, N. C.
CARL A. BRETZLAFF, Meridian Hills Country Club, Indianapolis, Ind.
PAUL BROCKHAUSEN, New Blue Mound Country Club, Wauwatosa, Wisconsin.
FRED A. BURKHARDT, Westwood Country Club, Cleveland, Ohio.
JOHN CAIRD, Manito Golf Club, Spokane, Wash.
J. O. CAMPBELL, Wethersfield Country Club, Hartford, Conn.
JAMES CONNAUGHTON, Monroe Golf Club, Pittsford, New York.
DENNIS CROWLEY, Wollaston Golf Club, Boston, Mass.
CARL DAVIS, Moonbrook Country Club, Jamestown, New York

E. E. DAVIS, Meadville Country Club, Meadville, Penn.
THOS. E. DOUGHERTY, Springhaven Country Club, Chester, Penn.
GORDON W. EARL, Ogdensburg Country Club, Ogdensburg, N. Y.
CHARLES ERICKSON, Minekahda Club, Minneapolis, Minn.
D. ALLEN FRASER, Berkshire Hunt and Country Club, Lenox, Mass.
FORD GOODRICH, Flint Country Club, Flint, Michigan.
JOHN GRAY, Essex Golf and Country Club, Sandwich, Ontario.
HARRY HANSON, Maple Bluff Country Club, Madison, Wisconsin.
H. HAWKINS, Lakeview Golf Club, Port Credit, Ontario.
ROBERT HENDERSON, Country Club of Buffalo, Williamsville, N. Y.
ARTHUR J. JENSEN, Fargo Country Club, Fargo, N. D.
OSCAR JOHNSON, Happy Hollow Club, Omaha, Nebraska.
M. W. LAWRENCE, West End Country Club, New Orleans, Louisiana.
GEORGE LIVINGSTON, Belle Meade Country Club, Nashville, Tenn.
HUGH LUKE, Garden City Country Club, Garden City, N. Y.
WILLIAM MAYNE, Jasper Park Lodge, Alberta, Canada.
JOE P. MAYO, Pebble Beach Country Club, Pebble Beach, Calif.
CHESTER MENDENHALL, Sim Park Golf Club, Wichita, Kansas.
T. H. RIGGS MILLER, Richmond Country Club, Staten Island, New York.

HUGH C. MOORE, St. Simon's Island Golf Club, St. Simon's Island, Ga.
JAMES MUIRDEN, Ridgewood Golf Club, Cincinnati, Ohio.
JOSEPH O'GRADY, New Bedford Country Club, New Bedford, Mass.
WILHELM PETER, Lynnhaven Golf Course, Kansas City, Mo.
JOHN PRIE, Country Club of Fairfield, Fairfield, Conn.
CLARENCE PLOSS, Salem, Mass.
WALTER C. REED, Westwood Country Club, St. Louis, Mo.
CAPT. DAVID L. REES, Progress Country Club, Purchase, New York.
CHARLES A. ROBINSON, Brookside Country Club, Lake Tarleton, Pike, N. H.
GEORGE SARGENT, Scioto Country Club, Columbus, Ohio.
ROBERT SCOTT, Baltimore Country Club, Baltimore, Maryland.
H. E. SHAVE, Oakland Hills Country Club, Birmingham, Michigan.
FRED J. TIENKEN, Colorado Springs, Colorado.
D. R. VALENTINE, Beaumont Country Club, Beaumont, Texas.
JOSEPH VALENTINE, Merion Cricket Club, Philadelphia, Penn.
GEORGE WELLIN, Tumblebrook Country Club, New Britain, Conn.
JACK WELSH, Wakonda Country Club, Des Moines, Iowa.
WALTER WOODWARD, Senneville Country Club, Montreal, Quebec, Canada.

TESTED SEEDS

NO matter how well the soil has been prepared, or how fully the thousand and one little details have been taken care of—if the seeds you plant are not right, it is largely wasted effort. This is why we emphasize, at all times, what we term "The Henderson Standard of Quality," rather than our prices.

We have always believed that there is a demand for the highest grade of Grass Seed—Grass Seed that could be depended upon, and the results have fully justified this belief.

Let us quote you on your requirements, and you will be surprised to find that the prices for Seeds of the Henderson Quality are about the same as you have been paying, but with a vast difference as to results.

We can help you with your course problems. Our staff of trained men is competent to assist you, whether it be a complete new course, the renovation of your present one, or the usual problems that come from day to day.

An inquiry does not obligate you in any way.

PETER HENDERSON & CO.

SEEDSMEN

Everything for the Golf Course

35 Cortlandt St.

New York City

Believe All, Use Little

By LAWRENCE S. DICKINSON

IT is doubtful if there is a man in any profession who is beset with as many "pet ideas," hobbies, experts, and salesmen, or has to listen to as much confusing evidence, or has had as many counteracting experiences as the greenkeeper.

The confusion of ideas is increased by the great business possibilities that golf brings about and the field is wide open for those with advice.

The greenkeepers backed by the Green committee men must be the buffers between the "pet ideas," hobbies, and experts, and the golf turf and nature. A mighty responsible position, and any golf club with the buffers forty per cent efficient may consider itself lucky, and call their green committee and greenkeeper ninety-nine and forty-four one-hundredths per cent perfect.

Believe that all the advice given, each experience related, and observation made, is given in good faith, truthfully related, and correctly seen. Don't doubt in the least degree, but weigh and evaluate the advice, experience or observation.

Ask yourself a few general questions, each of which can have many sub-questions. What other factors contributed to these "wonderful results?" Was the experience local or general throughout a large area? Is the grass really more healthy, or is it simply greener? Red cheeks can indicate rouge, booze, excitement, embarrassment, or recent exercise. They also might indicate the presence of a fever.

Also ask yourself some questions as to relative values. Just what will I do with the time, that is promised to be saved by using that machine? How much will fertilizing the fairways increase the cost

of maintenance? How will an accumulation of this element in the soil affect the health of the turf? Shall I buy or build a loam baker, or spend an equivalent amount of money and clean up sources of contamination? There are many quack cures for hay fever, but the surest cure is to remove the weeds that spread their irritating pollen.

The following may serve to illustrate how necessary it is to believe all, but use little.

John, Bill, and Sam each have a golf course on soil that is generally similar and within a radius of ten miles. The greens on each course became a yellowish green color and were unresponsive to the usual fertilizer treatment.

John had used nothing but ammonium sulphate for five years. Bill had used for five years a very slow-acting and slowly-available organic fertilizer, and Sam who had greens built on "very rich soil" had used only water.

To alleviate the yellow condition, John limed his greens, Bill used ammonium sulphate, and Sam hit upon calcium nitrate.

The results were "marvelous" on all greens. The turf improved and became "wonderful." What was the cause of the yellow color? Which fertilizer was the correct one to use? What will happen if Bill and Sam use lime, or John and Bill, ammonium sulphate? What will happen if each continues for five more years with the fertilizer that gave the "wonderful results?" Shall all of John's, Bill's and Sam's friends use these fertilizers because of the three very obvious successes?

As the competition in all activities relating to the game of golf increases the more necessary it will



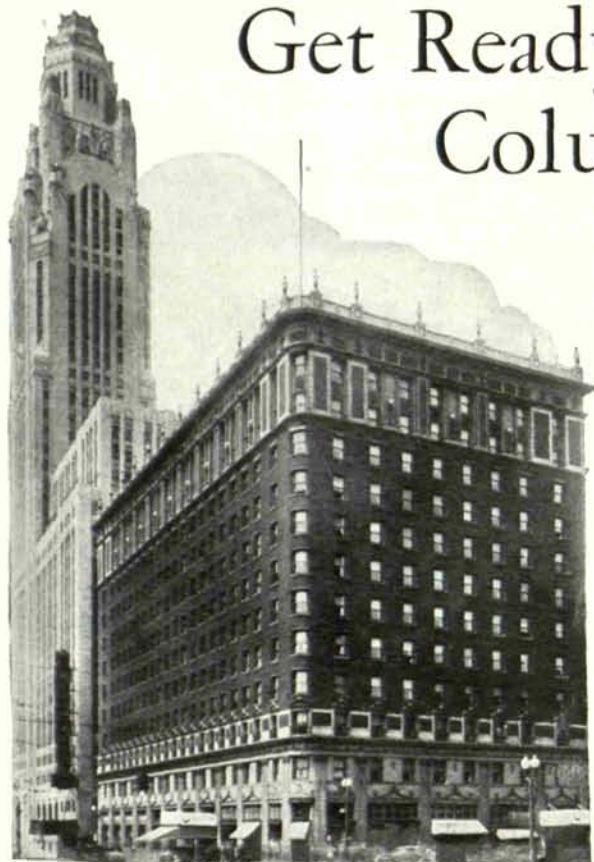
PROF. LAWRENCE S. DICKINSON
*Massachusetts Agricultural College,
Amherst, Mass.*

Continued on page 26

Get Ready Now For Columbus



By COLONEL JOHN MORLEY



THE DESHLER-WALLICK HOTEL

This palatial hostelry will be the headquarters of the National Association of Greenkeepers of America the first week in February

BY THE time this number of the NATIONAL GREENKEEPER reaches our members and others interested in our general welfare, our worries over various fungus diseases will for this season be a thing of the past. And the greenkeepers east of the Mississippi will record the season of 1930 one of the driest on record.

But it has not been without its compensation. For not only has it drawn the Chairman of the Green committee more closely to his greenkeeper, but the rank and file of all the club members. They have observed his devotion to his course—many greenkeepers working early and late and often until midnight trying to avoid serious damage to the turf. Owing to these facts the officers of our association have allowed the progressive work to drift a little. Our troubles nearly over, we now look forward and start laying plans for our coming Golf Show and Convention and Conferences.

Each year since our institution we have always stated that the coming Golf Show, etc., will be better than the previous one and when we re-affirm that the coming one which will be held in the beautiful city of Columbus, Ohio, will exceed all others,

we are not unmindful of the fact that a number of members will claim that it will be impossible to improve on Louisville. Each year finds our association more warmly received by greenkeepers and more especially chairmen and officials of our respective clubs. There will be more chairmen of Green committees sending their greenkeepers to Columbus the first week in February, 1931, than ever before.

GOLF ASSOCIATION PROMISES SUPPORT

WITHOUT any solicitation on our part the President of the Central Ohio District Golf Association has promised us the support and cooperation of the forty clubs that constitute this district.

I have been informed by our secretary that this year will show one hundred per cent of our membership having paid their 1930 dues. This shows that the members are proud of what we are accomplishing for their welfare.

The Editor of the *Canadian Golfer*, which is the official organ of the Royal Canadian Golf Association, in a recent editorial endorsed our association and urged the Canadian greenkeepers to become members.

Mr. Robert E. Power, President and Editor of the NATIONAL GREENKEEPER, our official organ, has promised to do all in his power to make the coming Golf Show a grand success.

With Fred A. Burkhardt and several of his former aids again in full charge of the Golf Show, and the manufacturers and merchants anxious to show their equipment, etc., we know that we are progressing and keeping step with the times. Mr. Burkhardt has already secured the largest auditorium in the city of Columbus. The floor space measures one hundred and five thousand square feet. To show how we are expanding, our first Golf Show held in Detroit had only eleven thousand square feet.

At Columbus we will be assisted by a number of able workers, among them, Jos. Williamson, who has been selected chairman of the Entertainment Committee; Professor Geo. M. McClure, of Ohio

State University, will again act as chairman of the Conferences; Mr. George Trautman of the Columbus Chamber of Commerce, one of the finest and best publicity men of the country will aid us along these lines.

DESHLER HOTEL TO BE HEADQUARTERS

WE HAVE secured for the greenkeepers and all those who attend one of the largest and finest hotels in the city of Columbus—The Deshler-Wallick. The management of this well-known hotel has given us suitable hotel rates. It will not be necessary when you arrive to spend time looking for cheaper headquarters as the management of the hotel has promised that no other organization will interfere with our comfort during the week of the Convention.

From all indications the attendance will exceed Louisville by over fifty per cent. Start to make your arrangements now and don't be afraid to invite your chairman to come along. For every chairman who attends means one more friend added to our association. We want them to know that we have other objects in view besides the fraternal spirit.

It is too early at this time to discuss the Conferences and Convention, but you can rest assured we will have the best talent available. There is one thing, however, I want to mention; I am going to make some of our experienced greenkeepers do a little more talking than we had at Louisville. For at the close of each day's Conference I intend to



FRED A. BURKHARDT
*Who will again have charge of
the Greenkeepers' Show*

follow Professor Dickinson's idea, which he developed at the Amherst Conference—that is to have a question box and about one-half hour's discussion on the questions placed in the box.

To those who come from a distance to attend a Convention one of the chief thoughts entering their mind is what kind of a city is it to bring their families or sweethearts to go sightseeing. To those that attend Conventions during the winter months, especially above the Mason-Dixie line, I can state that the city of Columbus has no equal, with its many fine institutions which

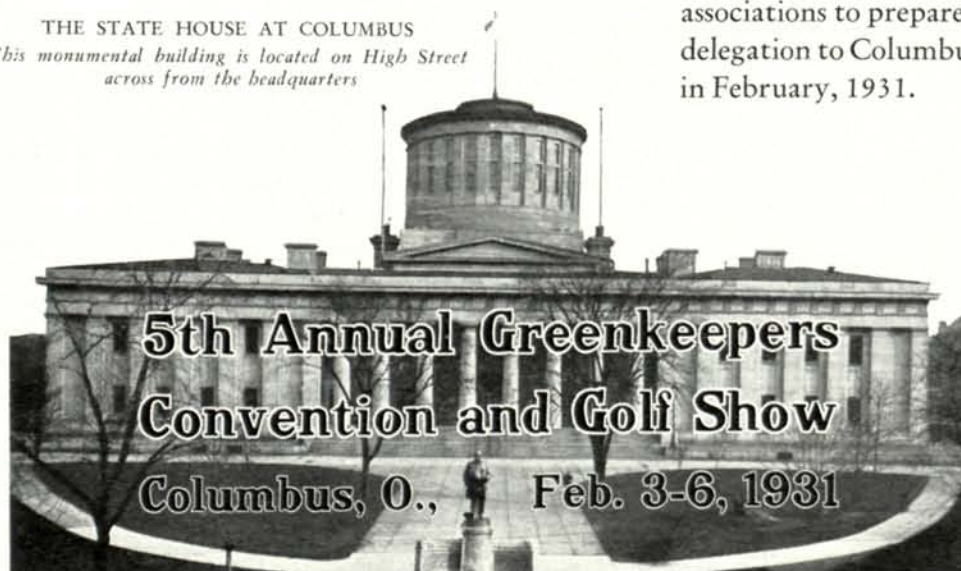
can be reached within a few minutes' time after leaving hotel headquarters. A Convention held in the City of Columbus gives its delegates as a whole the advantage of a shorter trip by rail or highway and at a lower cost than any other Convention city. Twenty-seven railroads enter Columbus, bringing more than two-thirds of the larger cities of the United States within a night's ride.

Columbus has two picturesque rivers, the Scioto and Olentangy, which flow through the heart of the city and present a beautiful view from the windows of the Deshler-Wallick hotel; Ohio State University is located at Columbus; the Capitol or State House is just across the street from our headquarters. There are many fine theatres and motion picture houses which can be found nearby.

Space will not allow me to give you all of the many attractions that are in Columbus, so I may state you will never regret a visit to the Capital of the State of Ohio. Now is the time for all district associations to prepare sending a large delegation to Columbus the first week in February, 1931.

THE STATE HOUSE AT COLUMBUS

*This monumental building is located on High Street
across from the headquarters*



**5th Annual Greenkeepers
Convention and Golf Show
Columbus, O., Feb. 3-6, 1931**

Cleveland Greenkeepers Will Play

BY FRANK P. DUNLOP

THE annual district greenkeepers' tournament will be held at Beechmont Country Club, October 6. All the boys are practicing hard to make the tournament as difficult for each other as possible. This event is followed by the annual clam bake at Brae Burn Country Club, October 20. This is always looked forward to as one of the most enjoyable events of the year as it seems the boys in Cleveland are particularly fond of clams.

* * *

Chickweed has been one of the greatest weed pests we have had at Hawthorne Valley ever since we opened the course four years ago, but the past year I have pretty well eliminated this pest by the use of arsenate of lead, using a pound of arsenate to a gallon of water and spraying only the spot affected with this solution. In about three days the weed turns brown and disappears while the grass continues to grow just as green and well as ever.

* * *

Frank Ermer, greenkeeper at the Ridgewood Golf Club, writes a few lines about one of the strange things that happened at his club this season. The subject being small brown patch.

"The first year I came to Ridgewood, which was in 1924," Frank says, "I had a very bad attack of brown patch and as this disease was new in the district I did not



Photo by O. J. Noer

NUMBER 3 HOLE AT CANTERBURY, CLEVELAND

This hole is 143 yards long and has a water hazard. It was rebuilt by Jack Way, pro-greenkeeper in 1927

know what to use to get rid of it. I tried several different things but with no success until I tried Corrosive Sublimate, using about one-half to three-quarter ounces to each one thousand square feet of green at about ten days' to two weeks' interval.

"I put this solution into a barrel with ammonium sulphate as I sulphated the greens and from that time I had not the faintest sign of brown patch until this season.

"I dropped off using the chemical about July 15 just to see if it was really necessary to proceed with it or not, when, to my surprise about August 15 I had brown patch on one of my greens. I left it alone for about one week and finally could see that it was spreading so I got the barrel cart working with the above-named solution and checked it at once, watering about three days. Later I gave it another dose and five days later seeing that it had spent its time I gave the green a topdressing with one and one-half yards of compost consisting of one part soil, one part sand and one part humus with three hundred pounds of powdered charcoal and about thirty pounds 8-6-4 fertilizer.

"In three days' time the green looked just as good as ever, if not a little better. Of course, I do not forget to pole the greens early every morning which I think is a very important item. So you can readily see that I am going to use this solution regularly from now on."

* * *

The Cleveland district amateur was held at Canterbury Golf Club the past month. The course was in splendid condition for which Mr. Way and Mr. McLaren deserve the highest praise.

The third hole pictured on this page is a fine illustration of the beauty and sportiness of the course. This hole has been remodeled under the direction of the above-mentioned men and as you may see by the picture a very fine 143-yard hole is the result.

"Windrift Hardwood" Humus

APPLIED lightly to greens, approaches and fairways, has three times the value of a well-ripened manure, will not interfere with play and will be entirely absorbed in the soil by spring. This dressing can be applied to fairways and approaches by use of the manure spreader, making an economical and even distribution.

In the fall, after seeding has been finished, such a dressing acts as a dust mulch maintaining moisture about the seed until germination and rootage is established.

"Windrift Hardwood" humus material can be shipped in a dry condition at any time during the fall and winter. We are offering terms making this investment an easy one to care for.

THE OHIO HUMUS PRODUCTS CO.

JAMES A. SMITH, President

Box 95

London, Ohio

Canadians Stage Exhibition

Splendid display of machinery and accessories at Royal York course in Toronto. Ontario Greenkeepers' Association is sponsor

By J. H. EVANS
Golf Editor, Toronto Globe
Photos by Legge Bros. and Jones

"WE'LL have a place in your next exhibition," was the assurance given by C. A. Carter, sales manager of the fertilizer division of the Canadian Industries, Ltd., to W. J. Sansom, Bert Hawkins, Howard Lloyd and other greenkeepers and course superintendents on the Royal York golf course on September 9 when the second exhibition of golf course equipment and material for course maintenance had been brought to a successful termination.

The assurance given by Mr. Carter was typical of the attitude of others representing different firms who attended the exhibition. His is the critical eye of business seeking an avenue through which to market its product with success and with economy.

Realizing the significance of the combination of greenkeepers, Mr. Carter decided on an earlier opportunity to cultivate the greenkeeper of Ontario and extended him an invitation to visit the company's plant in Hamilton in which a large sum has been invested with a view to securing a grip on the fertilizer market of the Dominion.

The general endorsement of the value of the exhibition which followed on the heels of the Canadian

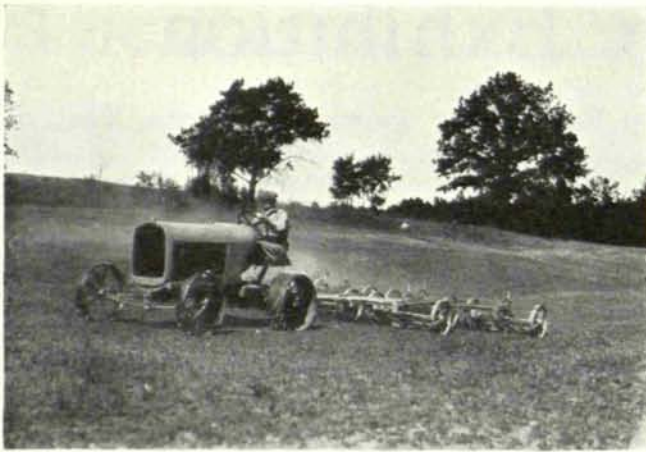
National Exhibition was the outstanding feature of the show given on the Royal York course. A similar show was held in 1928, but was allowed to drop in 1929. It was taken up during the late Spring as a possibility for 1930 and brought to an end as a financial success insofar as the association was concerned. The greenkeepers' association left the exhibition with several hundred dollars' profit.

Mr. Carter's vision of a valuable adjunct to his business in a golf course equipment exhibition was illustrated in the opinions of aggressive salesmen who, in a lean year, have struggled for business. The salesman as he heard club secretaries discuss the merits of different types of machinery, the Worthington, the Toro, the Pennsylvania and other tractors and mowers with a view to purchase for 1931 felt that the show might have been held with greater and more material success earlier in the season.

There was only one discordant note to be heard during the day. The gathering included national representatives of United States firms marketing their products in Canada, of Canadian firms, club secretaries who were seeking ideas as to how they



RICE LEWIS & SON, LTD., HAD ONE OF THE LARGEST EXHIBITS AT THE ROYAL YORK EXHIBITION
At the right is a Pennsylvania 6-cylinder tractor. On the left is the Staude tractor. Both are popular in Canada.



WORTHINGTON UNIT EXHIBITED BY
JOHN C. RUSSELL, MONTREAL

might replace their equipment with efficiency and economy, the greenkeeper and his assistant and also the technician. The technician, one of a small group in the gathering of 200 keenly interested in the maintenance of golf courses, could not make up his mind if the show was a success, but was willing to advance the opinion that it provided at least an outing for the greenkeeper.

QUEBEC GREENKEEPERS JOIN NATIONAL

IN ADDITION to the favorable comment advanced by hard-headed business men from another angle the show was a success. Mr. Sansom extended an invitation to representatives of Quebec greenkeepers to attend the exhibition. The invitation was accepted and before they had left the course they had joined the National Greenkeepers' association.

The policies of Quebec and Ontario greenkeepers are different. Efforts in Quebec consist of cooperative purchases and assistance to the local greenkeeper when he requires it given by an experienced official. In Ontario, success has attended the in-



IDEAL TRIPLEX EXHIBITED BY
THE AIKENHEAD CO., TORONTO

dividual efforts of the greenkeeper. He has mapped out the program for his study classes in the winter and his work in the summer. The exchange of views between Ontario and Quebec is to be carried on and out of them is expected to come a larger organization.

Practical results of the show were the unanimous endorsement of exhibitors, a substantial profit for the greenkeepers' association, and an addition to its membership from Quebec sufficient to convince all but the keen-eyed technician of its success. It will be an annual affair, and possibly earlier in the year if the views of some are heeded who believe that it would be of more immediate value from the point of view of business to be secured.

The morning was devoted to a demonstration of sprinklers, a demonstration of motor-driven compost mixers and screens, top dressing machines, spike rollers, putting green rollers, fertilizer and hand power sprayers. The afternoon was given over to a demonstration of tractors and fairway cutting units, power green machines, putting green



TORO UNIT EXHIBITED BY 'GOLF LIMITED', TORONTO



ROSEMAN TRACTOR AND MOWERS EXHIBITED BY
EDWARD TIPPET, TORONTO