



JOHN QUAIL SAYS:

It's about time to start thinking about Columbus. From all indications, it looks like a bigger and better convention than we have ever had.

* * *

The Central District Golf Association of Ohio has pledged their support and also the support of about forty clubs in that district.

* * *

The Columbus Chamber of Commerce is waiting with open arms to greet us.

* * *

And last but not least, what the Columbus District Greenkeepers plan is nobody's business. Just wait and see. Joe Williamson says there never was anything like it and it will be a long time until some one can even come close to it.

* * *

Columbus is a beautiful city. It has to be seen to be appreciated. It is the home of several colleges and institutes. The State buildings are architectural masterpieces. The whole city is something that is worth seeing.

* * *

Mr. Trautman, the congenial convention manager of the Chamber of Commerce, is working hard to see that we will not want for anything our heart desires.

All we need to make it a grand and glorious success is your presence and cooperation. Take that long needed vacation and come to Columbus. Not only come but bring someone with you. It will be worthwhile.

* * *

President Morley and his convention committee is working hard to secure the best possible speakers and arrange an interesting and instructive program. The question box will be a new feature this year. Save up your troubles and questions and ask the question box to help you out.

* * *

Fred Burkhardt and his Show committee reports that the space is being reserved rapidly and that we will have the best exhibition of equipment and machinery that has ever been gathered together in the history of golf.

* * *

When you think of the hard work the various committees are doing for your pleasure and advancement, it is little enough for you to encourage them with your presence.

* * *

Boost—boom and buy at the golf show and help make it a success.

* * *

Don't forget that if you have not paid your 1930 dues you are liable to suspension after November. Pay up and make your association one hundred per cent.

* * *

We are still looking for new members. Help us reach the thousand mark. The more the merrier and the better it will be for you. In union there is strength and we are still a trifle weak. Help us help you is a good slogan.

An Editorial

By ROBERT E. POWER, *Editor*

THIS editorial is addressed to the thousands of Green committee chairmen and golf club officials who read the NATIONAL GREENKEEPER.

Here we are in the sunset of another golf season—a season of drought and grief for the greenkeeper. How he has suffered no member of the club knows. Sleepless nights and tireless days have been his lot. His pet child has been sick and he has been a day and night nurse.

Yet through it all there has been no complaining. Colonel John Morley wrote a personal letter recently to the members of the National Association of Greenkeepers of America who read the magazine

and some of their replies we are putting in print.

My reaction to the situation is that the greenkeepers as a whole are good sportsmen and can take it on the chin and smile. What the club can afford they are willing to get along with. As a class there is no employee on the club's payroll so loyal, so efficient—so economical, and so conscientious as the greenkeeper.

I have been a Green committee chairman off and on since 1912 and I think I can appreciate the situation in 1930. We should all in our next club directors' meeting give our greenkeeper a quiet vote of confidence and appreciation. He has worked while we have slept.

Affeldt Building Miniature Courses

GOLF courses like bathing suits have become very much abbreviated in the past two years and the end is not yet in sight, every corner lot that was formerly an unsightly weed patch has been transformed into a Miniature Golf Course. According to the United States Department of Commerce there are at this time between 25,000 and 30,000 of these small courses in the country, representing a value or rather an investment of over \$125,000,000.

Early in 1928 there were probably not over half a dozen of these miniature courses. 1929 saw some 10,000 of these courses all over the country, and so far this year over 15,000 have been built. They are still going strong, and as the season advances the tendency is toward indoor courses. The unfortunate part of all this vast enterprise is that the great bulk of this work is being done by people who know little or nothing about golf, and are using materials that are unsuited for good putting surfaces.

There are, however, some really fine Liliputian courses in the Metropolitan district constructed by men who have long been associated with the game of golf. The course at Fairlawn, N. J., by A. W. Tillinghast, known as Placid Lakes, and the course in Brooklyn, N.



PLACID LAKES COURSE, FAIRLAWN, N. J.

Y., by Arthur D. Peterson, Inc., are courses of really fine design and construction. Plainfield, N. J., can also boast of a Peterson indoor course which to date is the last word in that type of construction.

All of the above may not benefit the greenkeeper a great deal at this time, but I feel that out of all this great army of golfers at least a percentage will tie up with some golf club in time.

ELMER F. AFFELDT,

35-12 Brewster Ave., Flushing, L. I., New York.

Michigan Greenkeepers Meet

By WILLIE SMITH

Greenkeeper, Red Run Golf Club, Royal Oak, Michigan

WE THOUGHT it would be of interest to the members of the National to know that the Michigan and Border Cities Greenkeepers' Association

held the annual get-together and tournament at the Birmingham Golf Club, October 6.

We had thirty-two members present, also a few Green chairmen. After a very nice lunch and meeting, twenty-two of the Greenkeepers took part in the tournament. Keen competition prevailed as there were some very interesting prizes which were donated by the various equipment firms of the district.

The Birmingham layout is a very difficult one and the best score of the day was turned in by Mr. F. Sherwood of Birmingham G. C., who shot an 88, followed closely by Mr. J. R. Collins of Ypsilanti, and Mr. H. E. Shave of Oakland Hills.

Mr. Shave also won the driving contest, second was Mr. J. Provan, and third, Mr. C. Prieskorn of Birch Hills.

For the kickers' handicap there were four prizes won by the following: Mr. H. Cartwright, first; Mr. P. Watling, second; Mr. J. Dolsen, third; and Mr. C. Clan, fourth.

At a meeting one month previous to the above, the members of the Michigan and Border Cities Greenkeepers' Association presented to Mr. H. Shave of Oakland Hills, who has been president of our local association for the past five years, a pigskin golf bag as a mark of respect and esteem.

"Windrift Hardwood" Humus

APLIED 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.

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Box 95

London, Ohio

Canadian News

By J. H. EVANS, *Golf Editor, Toronto Globe*

WITHIN a fortnight courses of Central Canada will be prepared for a northern winter after a season which has impressed upon a number of the more important clubs the necessity of extensive improvements, some of which are being proceeded with at the present time.

Courses west of the Great Lakes to the Rocky Mountains are already covered with snow. Western greenkeepers caught napping may find themselves confronted with problems of extensive proportions forced on them by a blizzard which took its toll of life and ravaged standing wheat. The tail end of the storm travelled east, but failed to do damage, although the army of golfers taking part in the final handicaps and matches of the season played through flurries, wrapped in windbreakers.

Perhaps it might have been better had the storm coasted east with greater force. A heavy fall without the frost which accompanied the blizzard that swept the prairies would have provided the moisture for layouts, sorely in need of a drenching after a season which was marked to a serious extent by lack of rainfall.

It is an ill wind that blows nobody good. In 1929 and in 1930 lack of rainfall in the summer and early snowfalls in October without frost have been responsible for droughts of a decidedly expensive character. As a consequence, the older clubs, whose members have proceeded year in and year out along conservative lines have realized the necessity of the installation of water systems along fairways as a protection from the dry summer and fall which is now associated with conditions in Canada.

During July and August there was no rainfall of consequence in Ontario. Streams from which the clubs secured their supply of water were reduced to a trickle. Clubs close to the large centers of population were compelled to seek assistance from rural municipalities with

water systems of a limited character and frequently found that the assistance could not meet the needs of a golf course.

* * *

The Hamilton Golf and Country Club which possesses one of the finest pieces of turf in the Dominion has decided to install a watering system over its entire course. Its course is located at Ancaster, Ont., a few miles from the city. It was selected for the Canadian open golf championship which was held during July on a layout which had been seriously burned. There was some criticism of the condition of the course, dismissed for the moment as unavoidable. However, the Hamilton Golf and Country Club has decided to protect itself against a repetition of the situation.

The Lakeview Golf and Country Club proposes to water every inch of its course for a similar reason, and also because its test may be selected for the 1931 Canadian open championship. Lakeview is located on the shores of Lake Ontario. It is well sheltered and usually opens the season before other clubs of Ontario. It has found that it must provide itself with precautions against damage to fairway and green of a course with an unbroken par, although the best golfers of the American continent have at one time or another attempted to break it. Bert Hawkins and staff of men are now installing the system.

Mississauga, farther west along the Toronto to Hamilton highway, has its course superintendent and its workmen employed on the same job at the present time, while the Toronto Golf club, which, with the Royal Montreal Golf club is considered the most exclusive organization in Canada will install its system in the spring.

* * *

Indirectly, the change from a conservative policy which relied on the elements for years, has been due to

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the organized greenkeepers who have driven home the necessity of modern methods instead of a penny-wise and pound-foolish attitude toward the problems of course maintenance. For the past three seasons, the greenkeeper has become weary through his efforts directed toward the provision of fairways with antiquated methods. He has driven home continually the necessity of watering systems in his discussions with club committees and now finds he has made some headway.

Other improvements for the next season will be decidedly limited. They will consist of the construction of bunkers and changes of a minor character. Prevailing conditions in the financial and industrial world have robbed clubs of accustomed sources of revenue have compelled the many organizations of the Dominion to confine their expenditure to the essential which appears to be the installation of watering systems.

* * *

Reviewing the year which is about to close, President W. J. Sansom, of the Ontario Greenkeepers' Association, expressed the opinion that it had been eminently successful from the point of view of the greenkeeper.

"We commenced with fairways and greens in bad shape," he said. "As the season proceeded, we secured some rain, but before the summer was over, we were up against it. Fairways have recovered somewhat during the past month, but what has happened during the past two years has convinced clubs which can afford it that they must install water systems. It's a step forward for which the organized greenkeepers can take some credit."

* * *

Mr. Sansom announced further that the Ontario Greenkeepers' Association, after its successful season, would meet to arrange its winter program. The program will be similar to that of former years. It will include a monthly meeting commencing in December and continuing until April. The suggestion has been made also that authorities on grass culture, machinery and course maintenance should be given the opportunity to address the meetings.

"It would not surprise me at all if there was an increased representation of Canadian greenkeepers at the 1930 convention of the National Greenkeepers Association, over last year," he stated. "I am driving it home when I meet course superintendents and greenkeepers that no progress can be made unless there is a close bond of contact with the greenkeepers of the United States and unless we are well organized. In more than one way have we felt the value of organization."

HUBBARD NURSERIES CREEPING BENT STOLONS

Washington and Metropolitan Strains

Pure, free of weeds, and of one season's growth

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WARNING

Our attention has been called to the fact that certain agents are soliciting subscriptions for the *National Greenkeeper* without any authority from us. We know of two by name, DuBay and Samuels. We hereby warn all greenkeepers and golf club officials to have no dealings with any agents, except Roy Graham.

The National Greenkeeper, Inc.

Mr. Sansom made the announcement that greenkeepers of the Dominion would make a bid for the annual convention of the National Greenkeepers' Association within the next two years. He stated that the interval would give Canadian greenkeepers the opportunity to provide themselves with the organization and the essentials required for the entertainment in a truly Canadian manner of a convention of several hundred visitors from all parts of the continent.

A Dandelion Killer

By E. M. MOORE

Superintendent, The Lakewood Country Club, Edgewater, Colorado

I HAVE made a wonderful discovery this summer. I discovered a dandelion killer which has proved very satisfactory. In addition to that it does not injure the roots of the grass but it does turn the top brown for about six days and then the grass comes back very quickly.

I hope to get some of this killer out on the market this coming year. I will guarantee it to kill the dandelion—it doesn't just kill the tops—it gets the roots clear into the ground, so there isn't any chance of their coming back. But it will take about twenty-five years to get rid of all of the dandelions before we can have real clean grass seed to sow.

I am planning on coming to Ohio this winter to the Convention and will try to explain more about my discovery. I do not believe any condition in any climate will have any effect on the remedy of the chemical.

Have had wonderful success with my putting greens this summer for we had eight weeks of very hot weather and very hot winds along with the extremely hot weather, but I kept my greens in A-1 playing condition without a brown spot in them. In fact in the five years I have been here I have never been bothered with brown spots in the putting greens.



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Mid-West Greenkeepers' Page

BY A. L. BRANDON, *Secretary*

THE following figures compiled by C. A. Donnel, chief meteorologist of the weather bureau for the Chicago district, showing how this district was affected by the drought this past summer.

	1930	Normal
April	2.30 inches	2.78 inches
May	2.16 inches	3.54 inches
June	2.49 inches	3.30 inches
July	2.63 inches	3.33 inches
August	1.17 inches	3.21 inches
September	1.16 inches	3.15 inches

The deficiency of precipitation January 1st to October 1st is 7.39 inches. Estimating one inch of precipitation per acre equal to 27,000 gallons, we find that each



GREENKEEPER C. M. HARRISON

Who holds forth at the U. S. G. A. Green Section experimental and demonstration turf gardens at Laskers Estates, Everett, Illinois

acre has a shortage of 199,530 gallons. So, if your course comprised 150 acres the total shortage from January 1st to October 1st is 29,929,500 gallons.

Another point which the writer thinks rather interesting is that the normal precipitation for September is lower than the four preceding months, somehow we had the impression that beginning with September a sort of rainy season began.

* * *

The equipment demonstration and show which has been an annual event sponsored by the Midwest organ-

ization was decided to be omitted this season, for the following reasons: Possibly asking too much of our local manufacturers and distributors, inasmuch as they all exhibit at the annual N. A. G. A. show and convention during February. Secondly, lateness of season, with the probability of bad weather occurring on the day of the event.

* * *

The September Midwest meet at Chicago Golf Club certainly provided a fine climax to a season of successful outdoor meetings. Chicago Golf is one of the most complete and expertly maintained courses in the Chicago district.

* * *

The next meeting will be held at the Great Northern Hotel, Chicago, October 29. The meeting will begin at seven in the evening.

* * *

To those members who plan to dine before the meeting and want to enjoy companionship, impromptu arguments plus inspirational speeches, should dine in the Great Northern Grill, for here most of the boys assemble before the meeting.

Ermer Elected President

Frank Ermer, greenkeeper at the Ridgewood Golf Club, Cleveland, was elected president of the Cleveland District Association of Greenkeepers, at a meeting held at the Brae Burn Golf Club, Akron, October 20. Although a young man, Ermer has been greenkeeping several years and received his training under Fred A. Burkhardt, at the Westwood Country Club. He has made a splendid record at Ridgewood and is considered one of the best greenkeepers in the Cleveland District. Ermer succeeds Christopher Bain of the Oakwood Country Club.



FRANK ERMER
New president of the Cleveland District Association of Greenkeepers

Other officers elected were Frank Dunlap, HawthorneValley C. C., first vice-president; Robert Zink, Shaker Heights C. C., second vice-president; L. M. Latta, Brae Burn C. C., third vice president; and Walter Knowles, Highland Golf Club, secretary-treasurer.

The greenkeepers had their yearly clam bake at Brae Burn. They intended to play golf, but it was too cold.

Dearie Story In December

The final instalment of the series of articles by Edward B. Dearie, Jr., entitled, "Golf Course Construction from the Greenkeeper's Standpoint," will be published in the December number. It is entitled, "Bringing the Course Along."

LaGrange To Have Golf Club

LaGrange, Ind., boosters are considering the establishing of a country golf club probably to be located just east of LaGrange near road 20.

Pacific Coast Gossip

By ARTHUR LANGTON

THE opening of nine new greens on the course of the old San Gabriel Country club was the signal for the start of a tremendous amount of play which will be continued throughout the remainder of the winter or tourist season.

At the time of writing there has been no rain of any importance for the current season, although any day now may see the precipitation a considerable amount. In the case of such an event there will be as always on similar occasions general rejoicing among the greenkeepers of the Pacific-Southwest, who have seen hardly a cloud since last March.

* * *

However, if rain does come in the copious quantities promised by California oceanographers, a great many southern California greenkeepers will be forced to wage a desperate battle to save all or part of their golf courses from the consequent raging torrents which will run through them. This is because a great many of the golf courses of this territory have incorporated in their construction a familiar unit of the local topography, the arroyo or dry wash.

In the summer dry months these arroyos consist merely of channels of sand and gravel which constitute a splendid hazard and an almost impregnable barrier to the golfer unfortunate enough to play into one. But when the rains come these washes undergo a sudden and startling metamorphosis. If anyone has any doubt as to what a "dark brown flood" really signifies, he should visit California and view many excellent examples. The loose earth of tees, fairways, and greens is swept remorselessly aside by a tumbling mass of water, sand, boulders and mud. There are many acres that have been devastated in this manner, and more than one fine golf course has suffered the consequences.

The Pasadena Country Club once dug a reservoir near to an arroyo. The annual floods came and filled that reservoir to brim with huge boulders so that it took the better part of ten thousand dollars to repair the damage. Several clubs have had to resort to building concrete flumes to stem the tide.

* * *

For the next few months on the Pacific coast golfing interest will center around Los Angeles and San Diego, not forgetting of course the Hawaiian Islands and Agua Caliente in Mexico. At all of these places one or more of the famous mid-winter tournaments will be played. It has been definitely decided that the Los Angeles Open will be played over the course of the Wilshire Country club, thus giving Bob Greenfield, the local guardian of the green, a lot of work to do.

There is a proposition now afoot which, if it goes through, will save the greenkeepers on the Los Angeles courses a lot of suspense. This proposition is to make the

venue of the L. A. Open a three-cornered, predetermined affair in which Wilshire, Riviera and Los Angeles Country club will rotate in having the play year by year. In this way the respective greenkeepers will know years ahead of time what to expect.

* * *

Mr. William Stewart of Hillcrest Golf club, Los Angeles, has aroused considerable interest in the cause of substituting in a large measure organic fertilizers for some of the more powerful of the inorganic types. Mr. Stewart's argument is backed by his experience in which he says he is required to fertilize less often with organic fertilizers than he is with the more familiar chemicals.

As soon as the promised local experiment station gets under way it may be demonstrated conclusively that the countless forms of life in soil should receive more attention than they have in the past.

* * *

Speaking of experiments, something that Pacific greenkeepers have been desiring but hardly daring to hope for, is cooperation with some great university or other scientific institution. Present indications point to this desire being satisfied in the very near future; that is, if a tentative arrangement with the botany department of the University of Southern California is productive of mutually beneficial results.

Although no definite arrangements have been formulated as yet, there seems to be no reason why a hitch in the contemplated program should occur. The greenkeepers have a lot that they want investigated and the professors and graduates of the university are forever on the lookout for some new field of endeavor.

This being the case, greenkeepers can supply the college scientists with sufficient material to keep them going for some time. The question of brown patch, the use of lime, the time to water, organic versus inorganic fertilizers, and so on *ad infinitum*, are all matters that might be enlightened to the greenkeeper if taken to the apparatus and highly specialized knowledge available at Science Hall of the University of Southern California.

THE PEERLESS MOWER SHARPENER

The Peerless Lawnmower Sharpener is a wonderful but simple invention that sharpens all makes of Power and Hand Lawnmowers, scientifically—quickly—perfectly; does the work as nothing else can. It grinds a perfect bevel and clearance—no more hard-running mowers—no more pulling and tearing of turf. Operated by 1-3 H. P. Motor—attach it to your lamp socket.

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New England Notes

BY LLEWELLYN L. DERBY

FORTY New England greenkeepers battled through the championship tournament which was held at the Brae Burn Country club, Newton, Mass., on October 8. Handicap medal play with four prizes and with the two best medal players competing for the title at match play was the order of the day.

Ted Swanson of Bear Hill tallied an 84 in the morning round to an 87 for R. Wallace Peckham of Sachuset, but the latter was on his game in the afternoon, winning 6 and 4. Alex Ohlson of the Lexington Golf club, winner last year, did not compete.

The four net winners were E. D. Pierce, Kittansett; Bill Lindsay, Manchester, N. H.; J. C. Adams, Pine-wood; and Joe Oldfield, Brae Burn. The guest's prize went to P. W. Chase, and Jim Sullivan of Waltham, captured the prize for men over 50 years of age.

* * *

Professor Lawrence S. Dickinson of Massachusetts Agricultural College, spoke to 79 members of the New Jersey Greenkeepers' Club at their banquet at Rutgers, N. J., September 29. Prior to his arrival at Rutgers, Professor Dickinson had made a tour of courses in New York, Pennsylvania and New Jersey. Considering the lack of rainfall he found courses in these states in fair condition.

* * *

Earlier in the month, Professor Dickinson and Director Fred Sievers of the Massachusetts Experiment Station, visited several courses in Eastern Massachusetts, including Kittansett, Fall River, Charles River, Woodland and Brae Burn.

* * *

Greenkeepers are coming to place more emphasis on the use of various forms of humus and peat, in the opinion of Guy West, greenkeeper of the Fall River (Mass.) Country Club. Although both these substances are being offered commercially nowadays, they are ordinarily offered as aids to increase the water-holding capacity of a sandy soil and to lighten a clay soil—in other words, to improve the textures of soils in general. There is also much to be said for the use of humus and peat as a base for commercial fertilizers or as a carrier for certain forms of manure. Doubtless, they are to be preferred to sand as a filler.

"As golf courses continue to be built," continues Mr. West, "with much regard to certain topographical features and less to soil conditions, sod must be made and oftentimes in these cases humus and peat can be worked in before seeding.

"Usually with the commercial forms on the market it is wise to compost with soil if it is to be applied to a sandy soil, and with soil and sand if it is to be applied to a clay soil. Some substances offered may be applied directly but it is advisable to try a small amount of fair-

way, note results and be guided by them in the future."

Due to the exceedingly dry season this year as well as last, Greenkeeper West is inclined to believe that much more topdressing of fairways will be necessary than normally. It is a pretty good plan to take stock now. If there is on hand a good supply of compost-humus in its best form, there is no cause for worry. If humus or peat must be purchased for this purpose, the materials should be those known from use or recommended by other greenkeepers under similar conditions.

Many times around the corner in an out-of-the-way place on a course is material that may help out the compost pile. Humus and peat may be awaiting discovery.

* * *

In these days of deflated values and upset business conditions, it is refreshing to hear that things are going along well in some places, and this is why a story by Greenkeeper M. D. Maxwell about an organization known as the Marshfield (Mass.) Country Club, Inc., is of interest.

A little over eight years ago the club was organized for the purpose of operating and maintaining buildings and grounds suitable for playing golf and other games, and to furnish facilities and equipment for the athletic

BUCKNER SPRINKLERS

Defy Drought!

Old Demon Drought was licked to a frazzle during the past summer wherever Buckner Sprinklers were installed. Tees, greens and fairways were kept gloriously green and club members waxed enthusiastic over constantly perfect playing conditions.

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and social activities of a country club. This was in 1921 and the capital stock of \$20,000 was quickly purchased by residents in and near the town of Marshfield.

In 1922 the course was formally opened with ceremonies befitting the occasion and the driver and ball used in driving from No. 1 tee by the late president of the club, Daniel M. Frye of Somerville, Mass., now adorn the walls of the clubhouse.

Since this time the club has prospered steadily, improvements to the property have been made annually, the grounds have been beautified, and a new entrance was completed recently.

With interest in golf increasing the club directors decided to add nine holes to present nine-hole layout and more land was purchased, giving the corporation a holding of 125 acres.

Plans and specifications were drawn and work started and it is expected that this Southeastern Massachusetts course will have eighteen of the snappiest, sportiest, and prettiest holes to be imagined. And the good part about it is that already stock has been sold to nearly pay for the completion of this new work.

Pay as we go has been the policy of the handful of men who started this project and the club has operated on a profitable basis each year. Profits have been turned back into the property for improvements. The stockholders have always received annual dividends of 6 per cent.

* * *

Tom Galvin, Greenkeeper at the Rhode Island Country Club, reports an exceptionally dry season at his club. The pond at the right of No. 8 green dried up completely for the first time in the history of the course. This drought did have one saving grace, though. It led

MILORGANITE

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SEWERAGE COMMISSION

508 Market Street

Milwaukee, Wis.

to the discovery of 300 yards of humus which was unknown for many years and which was promptly gotten out.

Construction work this fall will include the making of ladies' tees at the second, third and fourth holes, and a practice field at the left of the eighteenth hole.

"Fifty-cent" Brown Patch made a call on several of the greens this month and Greenkeeper Galvin finds this type more harmful and harder to control than the large patches.

* * *

Contract maintenance for golf courses bobs up in New England. Woodworth Bradley has taken over the Pawtucket Country Club at Pawtucket, R. I.

* * *

Herb Moran of the Newport Country club had an extra hazard added to his course one day last month when a dozen mules from nearby Fort Adams came visiting.

Statement of the Ownership, Management, Circulation, etc., required by the Act of Congress of August 24, 1912, of THE NATIONAL GREENKEEPER, published monthly at Cleveland, Ohio, for October, 1930.

State of Ohio, County of Cuyahoga, ss.
Before me, a Notary Public, in and for the State and county aforesaid, personally appeared Robt. E. Power, who, having been duly sworn according to law, deposes and says that he is the Editor of the National Greenkeeper and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor and business managers are:

Publisher, The National Greenkeeper, Inc., Cleveland, Ohio; Editor, Managing Editor and Business Manager, Robt. E. Power, Cleveland, Ohio.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

The National Greenkeeper, Inc., Cleveland, Ohio. Robt. E. Power, 10601 Lake Ave., Cleveland, Ohio; Frank H. Clark, 2848 Drummond Rd., Shaker Hts., Ohio; H. L. Richey, 3263 E. Fairfax Rd., Cleveland, Ohio; Frank H. Pelton, 19110 S. Woodland Rd., Shaker Hts., Ohio; F. E. Percy, 3159 South Moreland Blvd., Shaker Hts., Ohio; C. F. Lowe, Aurora, Ohio; Frank M. Power, 10601 Lake Ave., Cleveland, Ohio; M. J. Fox, 15002 Superior Rd., Cleveland Heights, Ohio.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

ROBERT E. POWER, Editor.

Sworn to and subscribed before me this 13th day of October, 1930.

A. F. Reymer.

My commission expires Nov. 5, 1931.

Send dues and official communications to 1101 Farmers Bank Building, Pittsburgh, Pa.

Any correspondence requiring the Secretary's personal attention may be sent to either 1101 Farmers Bank Building, Pittsburgh, Pa., or to—

JOHN QUAILL, Secretary

426 HIGHLAND AVENUE

WEST VIEW, PITTSBURGH, PENNA.

Address all communications relating to the Golf Show at Columbus, Ohio, in 1931 to—

FRED A. BURKHARDT

Chairman, Show Committee

405 CAXTON BLDG., CLEVELAND, OHIO

Market Place and Buyers' Guide

Where reputable manufacturers and dealers list and describe their products. Greenkeepers are requested to write the Market Place for any special information they desire about supplies or equipment

Airport Drainage
Armco Culvert Mfrs. Association
Wendell P. Miller and Associates

Ball Washers
J. Oliver Johnson, Inc.
Worthington Mower Company

Ball Locators
Worthington Mower Company

Bent-Coos County State Sealed and Certified
J. M. McCullough's Sons Company

Bent Seed—Cocoos Creeping
Stumpp & Walter Company

Bent Seed—Prince Edward Island
J. M. McCullough's Sons Co.

Bent Stolons
Hubbard Nurseries
O. M. Scott & Sons Co.
Stumpp & Walter Co.
Ohio Humus Products Co.
Illinois Grass Co.

Bluegrass—Seed
J. G. Peppard Seed Company

Brown Patch Control
Stumpp & Walter Co.
J. Oliver Johnson, Inc.
Arthur D. Peterson, Inc.

Catchbasins, Corrugated Iron
Armco Culvert Mfrs. Association

Cast Iron Pipe
McWane Cast Iron Pipe Co.

Charcoal
Cleveland Charcoal Supply Company

Compost Distributor
Toro Mfg. Company

Compost Mixer
Toro Mfg. Company

Compost Screen
Ideal Power Lawn Mower Company

Drainage Engineers
Wendell P. Miller and Associates

OUTSTANDING ACHIEVEMENTS IN THE PRODUCTION OF FINE TURF

Buckeye Brand Seaside Bent Seed

Genuine Coos County Strain

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and Certified

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free on request

The J. M. McCullough's Sons Co.

316 Walnut Street Cincinnati, O.

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Worthington Mower Company	Cover

Drainage Gates
Armco Culvert Mfrs. Association

Dump Carts
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J. Oliver Johnson, Inc.
Worthington Mower Company
Peter Henderson & Co.

Fairway Irrigation
Buckner Mfg. Co.
Thompson Mfg. Co.
Economy Irrigation Company

Fairway Mower Blades
The Budd Mfg. Company

Fairway Mowers
Pennsylvania Lawn Mower Works
Toro Mfg. Company
E. G. Staude Mak-A-Tractor Co.
Ideal Power Lawn Mower Company
Worthington Mower Company

Fairway Rollers
Toro Mfg. Company

Fairway Tractors
International Harvester Co., of America

Fertilizers
Milwaukee Sewerage Commission
J. Oliver Johnson, Inc.
Peter Henderson & Co.
Nitrate Agencies Co.
Atkins & Durbrow, Inc.
Arthur D. Peterson, Inc.

Flag Poles
Ideal Power Lawn Mower Company

Flexible Steel Mats
J. Oliver Johnson, Inc.

Fungicides
Bayer-Semesan Company, Inc.
Sherwin-Williams Company

Golf Course Construction
Ohio Humus Products Co.

Golf Equipment
Stumpp & Walter Co.
Peter Henderson & Co.
Arthur D. Peterson, Inc.

Golf Flags

Ideal Power Lawn Mower Co.
Stumpp & Walter Company
Peter Henderson & Co.
Arthur D. Peterson, Inc.

Golf Cart

Ideal Power Lawn Mower Co.

Greens Mower Blades

The Budd Mfg. Company

Greens Mowers

Ideal Power Lawn Mower Co.

Greens Sprinklers

L. R. Nelson Mfg. Co.
Buckner Mfg. Co.
Thompson Mfg. Co.

Hand Mowers

Ideal Power Lawn Mower Co.

Hole Cutters

Ideal Power Lawn Mower Co.

Horse Drawn Mowers

Pennsylvania Lawn Mower Works
Worthington Mower Company

Hose

Peter Henderson & Co.
Arthur D. Peterson, Inc.

Hole Rims

Ideal Power Lawn Mower Co.
Arthur D. Peterson, Inc.

Humus

Hyper-Humus Company
Ohio Humus Products Co.
Peter Henderson & Co.
Atkins & Durbrow, Inc.

Iron Pipe

McWane Cast Iron Pipe Co.

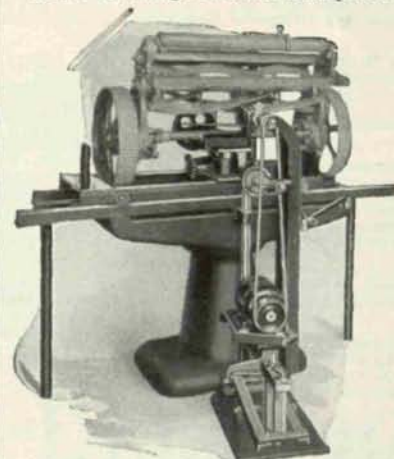
Lawn Mowers

Pennsylvania Lawn Mower Works
Toro Manufacturing Company
Worthington Mower Company

Lime

Limestone Products Corporation of America

FOR BETTER GREENS Use a Harding Mower Sharpener



Sharpens quickly and accurately the
bed knives and reels of all mowers.

Manufactured by
HENRY H. DOTY
Glenview, Illinois

Market Place and Buyers' Guide--- *Continued*

Mowing Equipment

E. G. Staude Mak-a-Tractor Co.
Toro Mfg. Company
Pennsylvania Lawn Mower Works
Ideal Power Lawn Mower Co.
Worthington Mower Company
Cooper Mfg. Company
Arthur D. Peterson, Inc.

Mower Sharpeners

Fate-Root-Heath Company
Toro Manufacturing Company
Henry H. Doty

Poa Annua

J. M. McCullough's Sons Co.

Power Mowers

Cooper Mfg. Company
Toro Manufacturing Company
Worthington Mower Company

Power Mowers—Roller Type

Ideal Power Lawn Mower Co.

Power Mowers—Wheel Type

Ideal Power Lawn Mower Co.
Worthington Mower Co.

Putting Green Mowers

Toro Mfg. Company
Pennsylvania Lawn Mower Works
Worthington Mower Company
Cooper Mfg. Company

Power Mower Blades

The Budd Mfg. Company

Rakes

Pennsylvania Lawn Mower Works

Rhode Island Bent Seed

A. N. Peckham

Rollers

Stumpp & Walter Company
Toro Mfg. Company
Worthington Mower Company

Rough Mowers

Toro Manufacturing Company
Pennsylvania Lawn Mower Works
Worthington Mower Company

Seed

Henry A. Dreer
O. M. Scott & Sons Co.
J. Oliver Johnson, Inc.
Stumpp & Walter Co.
A. N. Peckham
Peter Henderson & Co.
J. M. McCullough's Sons Co.
Illinois Grass Co.
Arthur D. Peterson, Inc.
J. G. Peppard Seed Company

Siphons, Corrugated Iron

Armco Culvert Mfrs. Association

Sod Cutters

J. Oliver Johnson, Inc.

Sprayers

Hardie Mfg. Company

Sprinklers

L. R. Nelson Mfg. Company
Buckner Mfg. Company
Thompson Mfg. Co.
Economy Irrigation Company

Stolons

O. M. Scott & Sons Co.
Hubbard Nurseries

Storm Sewers, Corrugated Iron

Armco Culvert Mfrs. Association

Street Culverts, Part Circle

Armco Culvert Mfrs. Association

Tee Mowers

Toro Manufacturing Company
Pennsylvania Lawn Mower Works
Worthington Mower Co.

Tee Stands

Ideal Power Lawn Mower Co.
Worthington Mower Co.

Top Dressing

Hyper-Humus Company
The Ohio Humus Company
Atkins and Durbrow, Inc.
Limestone Products Corporation of America

Tractors

E. G. Staude Mak-A-Tractor Co.
Toro Manufacturing Company
Worthington Mower Co.
International Harvester Co. of America

Water Pipe

McWane Cast Iron Pipe Co.

Well Casings, Corrugated Iron

Armco Culvert Mfrs. Association

Worm Eradicators

Peter Henderson & Co.

LIST OF EXHIBITORS— COLUMBUS SHOW

The following firms have reserved space for the 5th Annual National Greenkeepers' Golf Show, Columbus, Ohio, February 3-6, 1931:

- Space No. 1—Worthington Mower Company.
Space No. 2—F. & N. Lawn Mower Company.
Space Nos. 4 and 5—Ideal Power Lawn Mower Company.
Space No. 7—International Harvester Company of America.
Space No. 8—O. M. Scott & Sons Company.
Space No. 9—Thompson Manufacturing Company.
Space No. 10—E. G. Staude Mak-A-Tractor Company.
Space Nos. 15, 16 and 17—Toro Manufacturing Company.
Space No. 18—Virginia-Carolina Chemical Corp.
Space No. 19—J. Oliver Johnson, Inc.
Space No. 20—Wendell P. Miller & Associates.
Space No. 21—Buckner Manufacturing Company.
Space No. 22—Peter Henderson & Company.
Space No. 23—L. R. Nelson Manufacturing Company.
Space No. 24—Standard Manufacturing Company.
Space No. 25—Friend Manufacturing Company.
Space No. 26—J. M. McCullough's Sons Company.
Space Nos. 35, 36 and 37—Pennsylvania Lawn Mower Works.
Space No. 38—Koppers Products Company.
Space Nos. 39, 40, 41, 42 and 43—George A. Davis, Inc., & Allied Companies.
Space No. 45—Jacobsen Manufacturing Company.
Space No. 47—Milwaukee Sewerage Commission.
Space No. 48—Fate-Root-Heath Company.
Space No. 49—Universal Sand Equipment Company.
Space No. 50—Atkins & Durbrow, Inc.
Note: This list correct up to October 20, 1930.

Lawn Equipment Gives Real Service

The kind of service which greenkeepers need nowadays is an important part of the policy of the Lawn Equipment Corporation, located on Larned at Second Street, Detroit, Mich. In a recent letter the Manager, F. J. Fellman, says:

"The writer sold the first power lawn mower in the Detroit district in 1912. The writer saw the future in the golf industry and realized that by starting a service station, a real business could be built in the state of Michigan.

"It was necessary at that time for a greenkeeper to send his equipment to the different fac-

ories where they purchased it, for repairing and also they were troubled with a delay in getting parts. There was no place in the state of Michigan where a greenkeeper could buy everything for the maintenance of his course and we therefore, were the pioneers in complete golf course equipment and service in this state.

"We laid down a rule in the service station that any greenkeeper regardless of whether he bought his equipment from us or not, could get immediate service even if it necessitated the ripping down of a brand new lawn mower or loan him a brand new outfit to keep him running until service could be rendered. This is the reason for the Lawn Equipment Corporation's success and prestige in the state of Michigan. We enjoy the confidence and patronage of the greenkeepers due to the fact that we believe in square dealing."

"EVERYTHING FOR THE GOLF COURSE"

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FOR SALE—Hardinge Lawn Mower Sharpener.
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