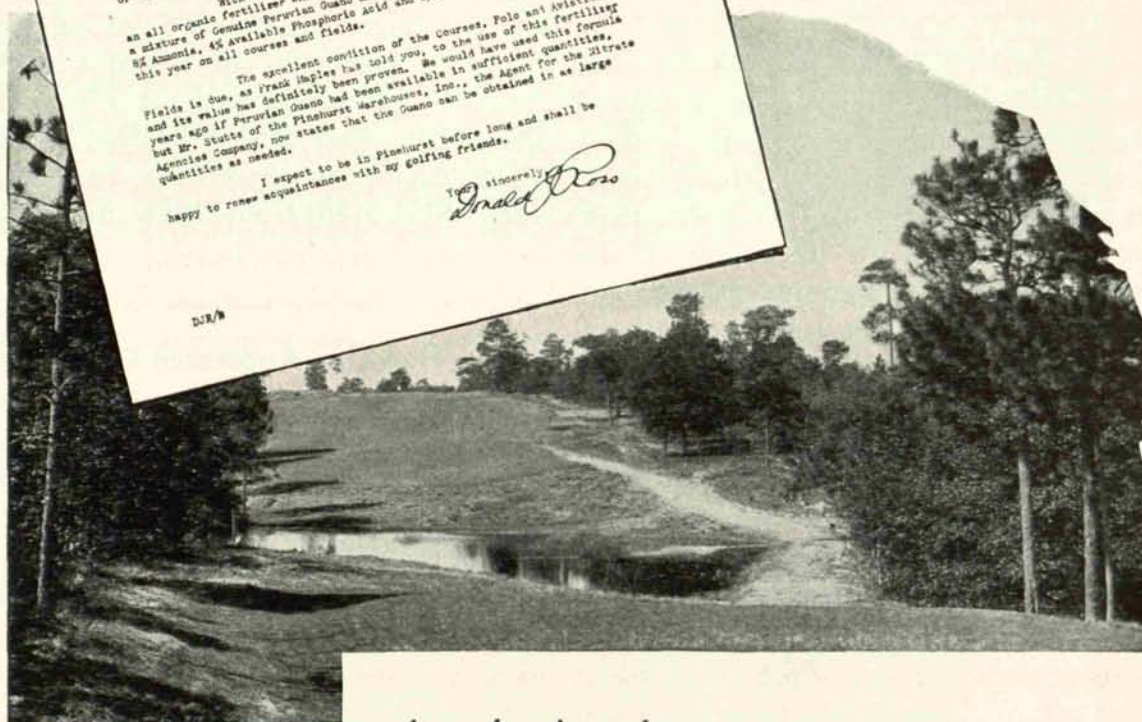


# NACO

"A GOLF COURSE FERTILIZER"



## NACO

"A GOLF COURSE FERTILIZER"

This fertilizer is now available, in the recommended formulas, for golf courses throughout the United States. If unable to secure NACO from your Golf Supply House . . . write direct to the manufacturers.

from the above letter . . . .

"The excellent condition of the Courses and Aviation Fields is due . . . to the use of this fertilizer and its value has definitely been proven."

**NITRATE AGENCIES COMPANY**  
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### Extra Land is Good Investment

THE size of the site must be carefully considered. It is usually wise to acquire a few extra acres. This extra land may often be sold at a handsome profit. A country club always raises property values and should be the one to benefit. It is better to have an acre to spare than to be obliged to pay a fabulous sum later for an acre or two to complete the development.

The probable ultimate membership of the club must be borne in mind when acquiring the site. Fee courses are likely to be unhappily congested if ample provision is not made to accommodate large crowds week-ends and holidays. In many cases it is very desirable to have extra large fairways to avoid danger.

The accessibility of a site is one of the most important factors. Golfers are reluctant to join clubs located too far away from their homes or places of business. Speedier automobiles make time more of an element than distance however, and the conditions of the roads to the links is of more importance than the actual distance. Often a short stretch of ill-kept muddy road is more of a detriment than several miles of well-paved highway. As a country club cannot control the upkeep of the roads in its vicinity, it should consider in advance the likelihood of such roads being kept in repair.

While almost all families belonging to country clubs have an automobile not all families possess more than one yet. Frequently while

one member of the family is using the car, another would like to play a round of two of golf. Therefore, a site on a suburban steam or electric line or motorbus route is a decided advantage. Such a location has an important publicity advantage.

But because a certain piece of land has been suggested as a site for a golf course does not mean that it would be unsuitable. On the contrary, it might be ideal for the purpose. There are many fine golf course sites in every section of the country. Probably some of the very best sites are still undeveloped.

A magnificent course, no doubt, will sometime in the near future be developed along the shores of Lake Michigan or Lake Erie in the attractive sand dunes, the God-given land of golf. Here may be found a perfect site, moulded by Nature with its wind-made gaps and valleys that defy imitation. So it is the Great Artist who makes the best golf course sites. Man at his best is only an imitator.

*Next Month—Designing the Course*

### Hawkins Appointed Organizer

H. HAWKINS, greenkeeper, Lakeview Golf & Country Club, Port Credit, Ontario, Canada, has been appointed by the Directors of the National Association of Greenkeepers of America, as organizer for the Canadian District. Mr. Hawkins occupies the same position in Canada as Lewis M. Evans of Philadelphia in the United States. He is already hard at work lining up new members among the greenkeepers of the golf courses of the Dominion of Canada.



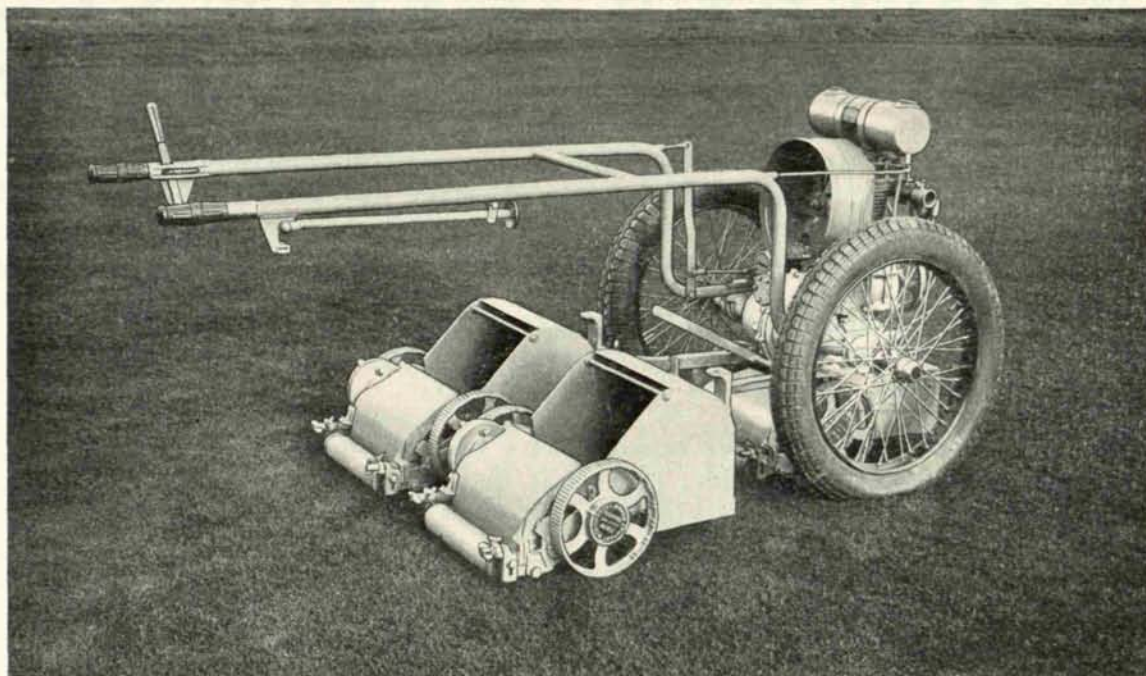
THE 16TH HOLE AT THE PITTSBURGH FIELD CLUB

*This hole was reconstructed about two years ago under supervision of the late John McNamara, greenkeeper*

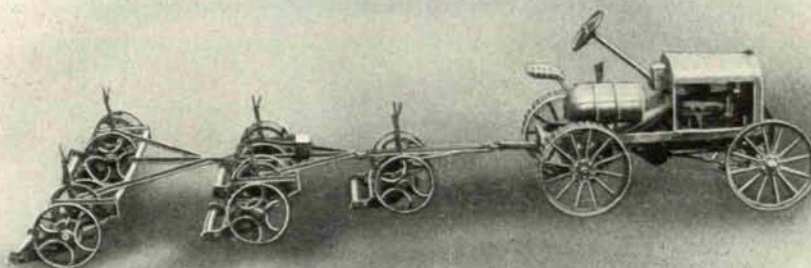


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The "Overgreen" will cut an average green in less than 10 minutes. The most remarkable machine offered for reduction in golf maintenance since Worthington gave to the world the fairway gang mower. Light, efficient. Price, 36 inch swath, \$400.00; 50 inch swath, \$425.00.  
The "Overlawn" for private estates, approaches to greens, tennis turf, tees, etc. 5 blade high speed reel, 36 inch swath. Price \$375.00. 50 inch cut \$400.00.



Illustrating the fastest and most economical lawn tractor and gang mower in the world. Cutting swaths  $7\frac{1}{2}$  feet, 12 feet and 16 feet. Tractor with Model A motor including self starter, \$650.00, with Model T motor, \$496.00. Gang Mower combinations—three unit, \$360.00—five unit, \$610.00—seven unit, \$860.00 complete.

— The largest manufacturers of Gang Mowers in the World —

**Main Office and Factory—Stroudsburg, Pennsylvania**

Branches: Chicago office and Warehouse, 517-21 South Laflin Street; Montreal, 132 St. Peter Street; Cleveland, Hippodrome Building; New York, 11 E. 44th St.  
San Francisco, 52 Beale St.; Boston, 1 State Street

*Agencies in all Principal Cities*



# LOW WHEELS MEAN SMOOTHER FAIRWAYS

**I**DEAL Bulldog Mowers have low, close-coupled wheels that permit a simple pinion and pawl drive. All gears guarded against dirt by closely machined gear case. Any repairs can be made quickly and inexpensively.

The short frame enables the cutting knives to reach right to the bottom of every hollow—and to ride smoothly over every little hillock. Clean cut fairways result.

Write today for the five reasons why Ideal Bulldog mowers do better work, last longer, and cost less to operate.

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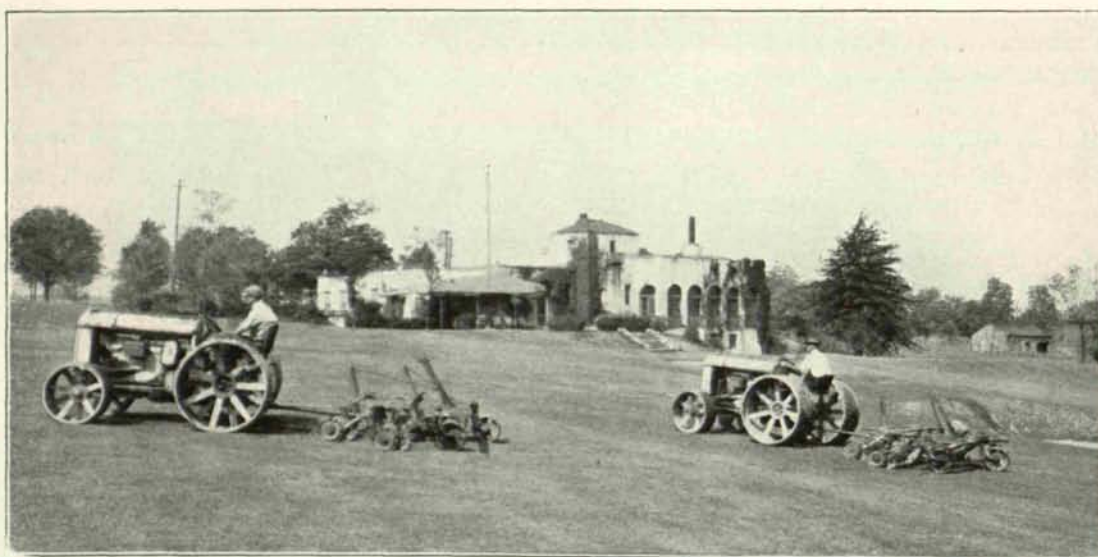
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237 Lafayette Street  
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161 Vester Street  
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*Dealers in all principal cities*



## IDEAL GOLF COURSE EQUIPMENT



# HIGHEST GRADE BALL BEARINGS HELP TO MAKE IT THE WORLD'S LIGHTEST RUNNING GREENSMOWER

**I**DEAL Greensmowers are equipped with only the highest grade ball bearings. The frame and roller are aluminum. This mower pushes so very lightly that it will surprise you.

Simple to sharpen and service. The seven-blade, four-inch, high-speed reel cuts clean and smooth.

The scientific design is the result of more than ten years' experience designing high quality mowers. Try this precision-built machine, and find new cutting perfection. Your name brings full data.

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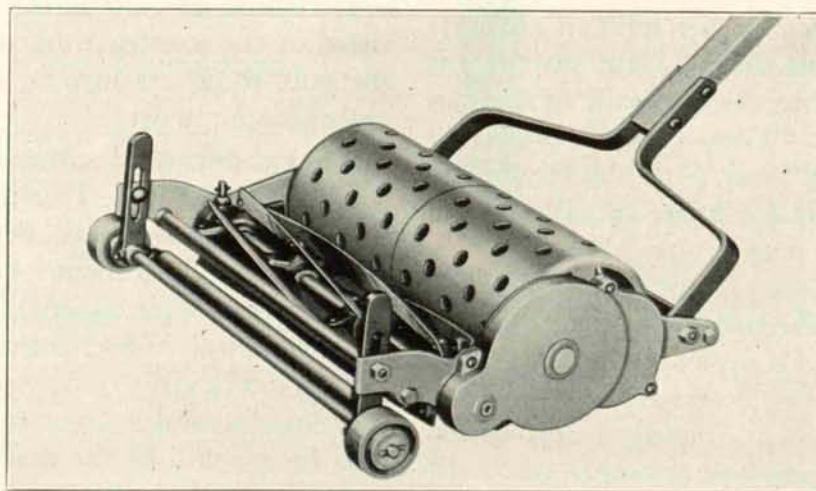
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## IDEAL GREENSMOWER



# Impressions of the Convention

BY JOHN MacGREGOR

Greenkeeper Chicago Golf Club, Wheaton, Ill.



JOHN MACGREGOR

THE fourth Convention and third Golf Course Equipment Show of the N. A. G. A. is over. It was by far the best of any previously undertaken. When the convention was awarded to Louisville for 1930 I was doubtful as to the outcome; it was very evident however that such doubts were groundless.

It behooves me to give George Davies great praise for the efficient way in which he carried out his part of the program; he seemed to forget nothing which would make everyone's visit to

Louisville a happy one. Not once was a greenkeeper heard to sing the anthem.

The banquet and the entertainment deserve special mention; it may be that George will have to take off his hat to Columbus next year.

The afternoon meetings of Wed., Thurs. and Friday were educational and instructive and attended by a greater number of Green chairmen and Greenkeepers than at any previous Convention. The program was of a high class nature and given by men who are authorities in their different fields. I am sure it was a great satisfaction to them to talk to such an interested audience. There is no doubt everyone took something away with him from these meetings. We were fortunate in having such men as were on the program to talk to us.

The equipment and golf course supply show was the finest we ever had. The exhibits were more numerous and complete than any of our previous shows. Fred Burkhardt, who is getting to be a wizard at staging a golf show, outdid any of his previous attempts, all credit for that show being due to him.

The outstanding feature of the show was the golf hole constructed by George Davies on which he used bent turf taken from his course.

# Hyper-Humus

## Gives Quick Response on PUTTING GREENS

Gentlemen:—We used Hyper-Humus during the present year to replace mushroom manure or compost in top-dressing (one-third Hyper-Humus, one-third topsoil and one-third sharp sand, by volume), and find that it gives very quick response when applied with fertilizer. It is much handier to use than compost and, if costs are considered, we believe it is much cheaper. We know that it contains a high percentage of useful bacteria which quickly convert such fertilizers as Urea, ammonium sulphate and cottonseed meal to the readily usable form.

Very truly yours,

W. W. Rhodes,  
Green Committee, Wilmington Country Club, Wilmington, Delaware.

Write for literature and approved methods of application to

from HYPER-HUMUS COMPANY  
Newton, New Jersey



# Newton-New Jersey

It was a fine piece of work, and ought to provide the promoters of indoor courses with food for thought.

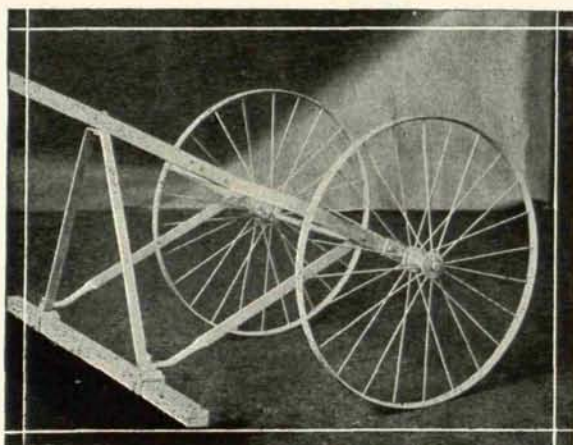
The greens constructed by Charles Erickson and Joe Valentine were also a novelty at the show. Among other things it should open the eyes of golf club officials as to the ability of greenkeepers to cope with the design and construction of golf holes. The men who assisted in the construction of the two greens at the golf show are men of high repute in the greenkeeping world.

The exhibits were numerous and well staged. The exhibitors had, I believe, more salesmen than at previous shows, which I am sure was more profitable to them. Green chairmen and greenkeepers were given courteous treatment by these men. Description advantage, reliability, mechanism, etc., was gone into very thoroughly, and I believe many sales in the near future will be the result.

We are proud to list in our honorary membership, Prof. L. S. Dickinson of Amherst, Mass., who gave us a most instructive and educational address on the ever present sub-



## THE MacGREGOR COMPOST BRUSH



You need the MacGregor Compost Brush to renovate your greens in the spring. Also to work the compost into the grass after top dressing.

**MacGREGOR COMPOST DISTRIBUTOR CO.**  
P. O. Box 717      WHEATON      Illinois

ject "Brown Patch." It is to be hoped he will give us at Columbus the same information on the dollar patch.

It was a great satisfaction to have our President made a Colonel of Kentucky on the Governor's Staff, also to see him reelected for another year to carry on as head of our organization. He is to be congratulated for his good judgment in choosing his committee chairmen, and the efficient manner in which the whole Convention and Show was conducted.

### Bezek Names Committees

President Matt Bezek of the Midwest Greenkeepers Association announced his committees for 1930 at a recent meeting held in Chicago.

The executive committee will be the officers of the association.

Membership committee—Fred Kruger, Chairman, Olympia Fields; C. A. Tregillus, Mill Road Farm C. C.; P. Stewart, Lake Shore C. C.

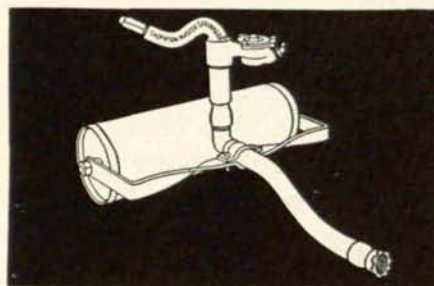
Tournament Committee—J. T. Langell, L. J. Norris private estate; F. Mastroleo, Geneva Golf Club; Alfred Buller, Lakeside, Michigan.

Speaker and entertainment committee—F. Ingwerson, Bunker Hill; A. L. Brandon, St. Charles C. C.; A. H. Abrahamson, Rob Roy C. C.

A paper on course architecture was well received by members; it was submitted by Pete Stewart of Lake Shore C. C.

It was decided to start the outdoor meetings on the last Monday in each month beginning with April.

## ONLY EIGHT MOVES *and you've* **FINISHED AN ACRE!**



The Thompson Master Sprinkler is made uncommonly sturdy. Every Master is completely guaranteed against any defect for THREE years. If anything wears out or breaks within three years—*regardless of the cause*—it will be replaced free of cost!

### *Economical!*

With an operating pressure of 45 pounds, the Master covers a diameter about 110 feet. This saves water bills because the turf receives *even* coverage efficiently applied. That means an entire acre of ground can be covered in only eight moves! Cuts down labor expense.

No wonder Golf Clubs everywhere are ordering Thompson Master Sprinklers! Send for our interesting free catalog showing you everything your course needs for sprinkling equipment.

### **CHECK** *these features found only in the Thompson Master Sprinkler!*

1. Master Sprinkler gives greater uniform coverage with less water.
2. Operates on pressure as low as 20 lb.; with an average of 45 lb. pressure it will cover an entire acre with only 8 moves.
3. Low center of gravity; does not tip over easily.
4. Offers less of a play and wind hazard.
5. Three-year *absolute* guarantee.
6. Light in weight—9 pounds including roller base—easy to move. Saves money on labor bills.

**Thompson**  
Sprinkling Systems

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2251 E. 7TH ST., LOS ANGELES, CALIF.

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I should like very much to see your catalog.

Name .....

Address .....



# High-Speed Greenkeeping

BY W. D. CHINERY, Greenkeeper

*York Downs Golf Club, Toronto, Ontario*

**G**RASS, grass, more grass, and better grass. This has been the slogan for many years but never perhaps in the annals of grass-growing has the desire or demand for better production been so keen as at the present time. Not only on golf courses alone is this apparent but owners of private estates and officials of cricket, tennis, and bowling greens all vie with one another in producing the best.

There are at least two outstanding points in connection with the cultivation of grass which have occupied the attention of those who are responsible for its production as never before, viz: bent grasses and brown patch disease. From what source has the latter sprung? It appears to me that it has developed along with the intensive culture of bent grasses.

When one considers and enumerates the long list of fertilizers, both chemical and organic, humus, etc. that are placed on the market, good, bad and indifferent, with the endeavor to produce two blades of grass where one grew before, one may ask this question—are we not using too much dope for the production of good healthy turf? Personally, I think we are. It is not the use so much perhaps as it is the abuse that tells the tale and we should bear in



W. D. CHINERY

mind the sound reasoning in the old adage that which is one man's meat is oftentimes another man's poison.

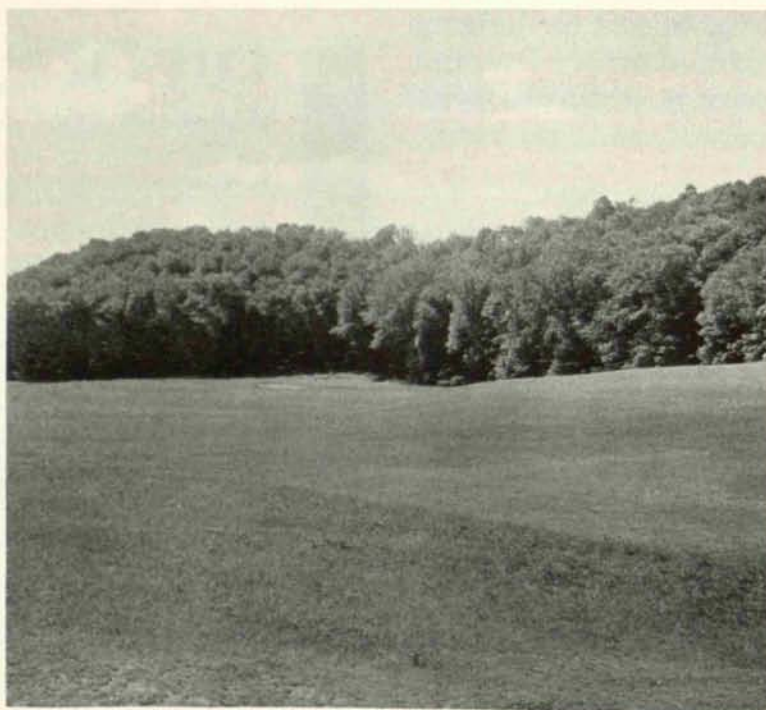
In the old days it was always considered good judgment to avoid the use (whenever possible) of any fertilizer that was of a hastening or burning nature for a permanent crop and this applies to grass on a golf course. Any food that is conducive to quick growth must of

necessity mean a soft and somewhat coarse growth and in many cases this is forced too much at the expense of the root which under certain conditions cannot develop at the same rate, especially during the hot Summer months, and thereby hangs a tale.

## Cannot Outrage Nature

**O**NE cannot outrage nature for long at a time without suffering the consequences. We as greenkeepers have been in certain respects led by

the ear so to speak with regards to the treatment of our grasses by some "experts" with their theoretical bunkum so that years of practical experience often gained under adverse conditions have been thrown in the discard. For a long time we have been told to render our soil acid by applications of chemicals, to procure a sourness in our soils for the bene-



NUMBER 4 HOLE, YORK DOWNS CLUB, TORONTO, ONT.



## Flooded Fairways

Nothing so much provokes the golfer, already chafing under a long winter's restraint, as to have his spring entry upon the course delayed by flooded, sodden fairways. You can't stop spring rainfall so there is only one thing to do—get rid of the water, quick!

## The Key to the Situation

Leave it to Nature, if you want to; but better, beat her at her own game! Progressive clubs everywhere are doing it—compelling that surplus water to run off at record-breaking rates by employing

## Engineered Drainage

which is a practical application of scientific principles whereby surface and soil water is removed extra expeditiously, leaving the turf with that springiness that delights the golfer's heart.

## Play Weeks Earlier

Don't waste a single day of golfing weather. Don't let another spring catch you napping. Engineered drainage will help you get on your course weeks earlier—it's being done on other courses, everywhere. Our booklet tells you how to do it—write for it NOW!

## Wendell P. Miller and Associates

105 W. Monroe St., Chicago

85 E. Gay St., Columbus, O.

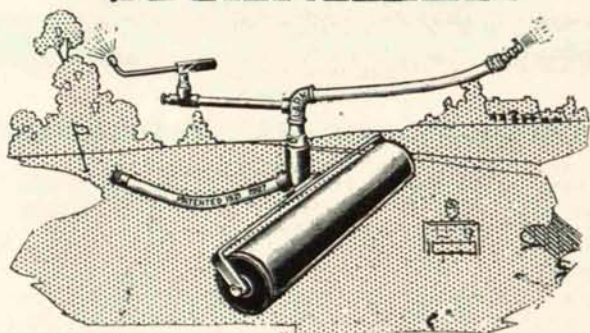
Consulting Engineers  
Drainage - Irrigation - Turf Development

fit of our turf. A great many have attached much importance to that "rich black muck" that is to be procured from swamps, etc. But to speak of lime in connection with grass was like the traditional red rag to a bull. Bone-meal must not be used on account of the lime content and therefore, encouraged clover; even sand was looked upon with suspicion, fearing that the possible lime content therein might be injurious. To procure good healthy turf and also act as a deterrent to weeds one must procure acidity in our soil, acid, acid, and more acid.

In certain respects and conditions extreme acidity goes hand in hand with brown patch disease or should I use the term algae? The average horticulturist and farmer have for many years recognized the value of sheep manure for certain crops, especially grass, owing chiefly to the acid contained in the excrement, etc. but allow me to say that the acid conveyed to the soil through the manurial properties of sheep manure is vastly different to that produced by continued application of chemicals. Results speak for themselves and the reason is obvious.

As our very worthy President, Mr. J. Morley, has intimated in a previous article, we are living in the age of the motor car, the aeroplane and the radio, and in consequence the general feeling is perhaps that we must speed up to keep pace with the times. And that pace has been set to some extent in some quarters and to whom our worthy Editor, Mr. Power, sounded a warning note in his editorial of Jan., 1929. Some of us no doubt err on the one side by being too cautious or old fashioned in our methods while others probably err more

## THE LARK SPRINKLER



Even coverage on ANY pressure—Absolutely safe for all night sprinkling—Positive, slow movement—Non-Clogging—Wind can't stop it—Far throw saves frequent setting—No gears or complicated wearing parts—Roller base permitting easy moving on the green—these are a few reasons that more greens are watered with "Larks" than with any other sprinkler.

Try the Lark before you buy it. We will send you a Lark postpaid for 15 days trial. Price \$15.00 in the U. S.



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## For Putting Greens Cleve - Brand - Charcoal

Makes the soil porous, retains moisture. Assures fine healthy turf without risk of any harmful results. Compost grade now only \$30.00 a ton f. o. b. Cleveland in 50 pound paper lined sacks.

Any special grade of charcoal supplied to order

**THE CLEVELAND CHARCOAL SUPPLY CO.**  
3905 Jennings Road - - Cleveland, Ohio



by jumping to conclusions or otherwise. With the multitudinous assortment of fertilizers that are to be obtained today and with the desire to maintain and keep our courses verdant and in the pink of condition during the playing season, are we not prone to overdo this and in so doing are we not apt to overlook Dame Nature?

### Brown Patch Disease and Patches

**M**Y experience is that B. P. D. attacks certain bent grasses more severely than other grasses. As a matter of fact I have never seen this disease on any grasses but bent. With us the fescues, Kentucky blue, P. E. I., bent and velvet bent seems immune from the disease. We have quite a lot of native bent, P. E. I. and South German bent on most of our fairways but have never seen any of it attacked by B. P. D. or Algae with the exception of certain patches in proximity to the greens, then only slight. Here then surely is food for thought. Is brown patch disease hereditary to certain bent grasses and by taking them somewhat out of their element are we engendering this disease by intensive culture in the way of fertilizing, too close cutting, etc?

Having read the many articles on B. P. D. that have appeared in our magazine I cannot help but think that some of them appear rather conflicting; for instance, one may read that anyone having greens situated in the open or on high ground need not fear B. P. D. Others appear to differ in this respect. Then again one may read where others rely on sulphate of ammonia to bring their grass back to normal again after or during an attack of the disease. On the other hand there are some who eliminate this food during B. P. attacks and on this point I for one fully endorse. The answer or argument, if any, is perhaps answered best by the old adage quoted above.

It seems to me that with the introduction of a lot of new foods or fertilizers for the production of good turf and incidentally oftentimes a too luxuriant growth follows such applications and some of us are apparently satisfied with the results obtained; then comes mid-season with its horrors of B. P. D. and we are called upon to invest in another chemical outlay to counteract this disease. Though we

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### Kills the Worms—SAVES the Grass

One application of "ELECTRIC" Worm Eradicator will bring up the worms so that they can be swept away. This is far better than killing them in the soil where they attract ants.

"ELECTRIC" Worm Eradicator not only kills the worms, it saves the grass. In many years' use on more than 700 golf courses, it has never been known to injure a putting green. On the contrary, it checks "brown patch", one of the most insidious enemies of your turf.

Why risk injuring your turf, when "ELECTRIC" Worm Eradicator will rid your greens of worms safely?

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