



NEWS LETTER

JOHN

SHANAHAN

MEMORIAL

NUMBER

FEBRUARY

1935

This NEWSLETTER is published monthly by the Greenkeepers Club of New England, and sent free to its members and their Greens' Chairmen. Subscription price ten cents a copy, or a dollar a year.

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312 Mt. Pleasant St., Fall River, Mass.

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132 Russett Rd., West Roxbury, Mass.

February, 1935

Vol. 7, No. 2

"Blessed is that man who has found his work."

In the spirit of honoring a dearly loved brother the Greenkeepers Club of New England is presenting this issue of the NEWSLETTER as a John Shanahan Memorial. We trust that his memory may ever be revered among us, and his teachings followed.

It is perhaps fitting that we here announce that the Greenkeepers Club, with the New England Section of the P. G. A., and the Brae Burn Country Club cooperating, is establishing the John Shanahan Shield as a trophy which will be hung in the trophy room at Brae Burn, and upon which will be inscribed yearly the names of the winners of the annual Greenkeepers-Pro Championship.

The Greenkeepers Club of New England has also voted to award annually a John Shanahan Award of Merit to the person or persons who make the most outstanding contribution to Greenkeeping in New England.

We are indeed pleased to include some of the many tributes to the memory of our friend.

Brae Burn and John Shanahan, the two are inseparable in one's mind. We judge a man by his accomplishments in life and Brae Burn is known throughout the length and breadth of this land for its beautiful golf course. John lived with his work. He knew every green, tee, fairway and bunker intimately. Those who know Brae Burn know that his work was well done.

John was the dean of greenkeepers in this country. His wide knowledge and years of experience made him an authority on golf course problems. He

kept pace with the changing times. His helpfulness to others was one of his outstanding characteristics. If you were in trouble and took your problem to him, he was always willing to help.

His sound judgement helped in a large degree in the developing of The Greenkeepers Club of New England into an organization which has prospered for eleven years, done an incalculable amount of good for greenkeepers and golf clubs. In his quiet unhurried way he has been a steadying influence which we all miss.

I cannot help thinking of William Cullen Bryant's words in *Thanatopsis*:

"So live, that when thy summons comes to join

The innumerable caravan, which moves
To that mysterious realm, where each
shall take

His chamber in the silent halls of death,
Thou go not, like the quarry-slave at
night,

Scourged to his dungeon, but, sustained
and soothed

By an unfaltering trust, approach thy
grave,

Like one who wraps the drapery of his
couch

About him, and lies down to pleasant
dreams."

Clean living, his trust in God, helpfulness to his fellowmen, a ready smile, a hearty laugh, a warm handshake are some of the things I remember in my friend John Shanahan.

Frank H. Wilson.

AS FRIEND AND NEIGHBOR

Words simply fail when one wishes to pay full tribute to John Shanahan, as friend and neighbor.

At all times he was painstakingly considerate in his advice to the younger greenkeeper. His criticism was of the most kindly type, always given with that gracious smile of his that we all learned to love. His wisdom in greenkeeping affairs, and affairs in general was as large as the man himself.

The many talks we've had. The visits back and forth are things of the past now but they will always linger in my memory. John could say so little and yet say so much; I am indeed grateful that my work in greenkeeping brought me in touch, and in such close touch, with a man of his caliber.

I like to think of John Shanahan as a greenkeeper, better yet, I like to think of him as the out-standing one in his profession, but best of all I like to think of Dear Old John as my neighbor and greatest friend.

Carlton E. Treat.

My first acquaintance with John Shanahan was shortly after Brae Burn opened its first course of nine holes.

When Fred Hood organized the New England Service Section, John was one of our most valuable members, and continued with his advice after the Service Section was consolidated with the Massachusetts Golf Association.

During the two years that I was President of the Massachusetts Golf Association, I asked John many times to go to different Clubs, and help out with suggestions to some Greenkeeper who was having troubles. He never failed me.

I always considered John as the premier Greenkeeper of Massachusetts, if not of the country. He was a credit to the game of golf.

Charles H. Cross,
Past Pres., M. G. A.

I never knew John Shanahan personally. I did know what kind of a man he was, because of what he did, and on account of hundreds of friends he had who spoke so highly of him. Every golfer who had the privilege of playing at Brae Burn recognized that the course was groomed by a great master. Mothers have told me that they never worried when their children were at Brae Burn, for John Shanahan would look out for them. When the greenkeepers organized their club John Shanahan was the unanimous choice for president. He was a hard worker—willing, able, unselfish. His standards were the highest—only the best would suffice. His life was an example from which we can all well profit.

Charles E. Mason,
Pres. Mass. Golf Assoc.

Were I a master of the English language I could not write a tribute worthy of John. His greens and fairways were always so uniformly good that we seemed to take his ability for

granted in that line but, unlike many arriving at his years, his vision always was forward, seeking new truths and their application to his problems.

His knowledge of men and his keen sense of humor often caused us to marvel at the breadth of his point of view. Generosity, loyalty to his family and to his Club, and helpfulness to his fellowmen, were John's chief characteristics.

Associated with him for ten years, first as a member, and then as Chairman of the Brae Burn Country Club Grounds Committee, I have never heard John speak ill of any man, and if an occasional report reached him as to misfortune befalling another greenkeeper, he would always reply that probably he could not have done as well under the same circumstances.

We have indeed lost a friend as well as a master craftsman.

C. A. Sawyer, Jr.,
Chairman, Greens Committee,
Brae Burn Country Club.

While I have known John Shanahan only a few years, and while we did not always see things in the same light, I always found him honest and sincere, firm in his convictions, always ready to applaud good, and denounce wrong. I considered Mr. Shanahan one of our leading pioneers and Dean of the Greenkeepers of America. Through his untiring efforts, he has helped to advance the cause of greenkeeping to a higher standard. Few men have lived so usefully, so richly endowed in friendships and so tenderly held in the memory of all who knew him.

John Morley,
Pres. Emeritus, N. A. G. A.

Greenkeepers and research workers in the field of Agrostology must never be permitted to forget John Shanahan. It is the duty of us who knew him to carry his splendid teachings and the inspiration of his rare personality to the future generations.

Greenkeeping was not his chosen profession, but a profession adopted by necessity. Thus his complete success became a greater tribute to his character.

John Shanahan was successful during the early period of greenkeeping because he realized that he was working with living plants: he was a clear observer and wise interpreter of signs and omens; he was not excitable, but calm and conservative; he had great faith in Nature and wanted to help her.

In the middle period of his greenkeeping he was even more successful and a stronger and wiser leader and example. He was tolerant of new ideas and leaders, never destructive in criticism, but always encouraging, yet he never hesitated to give an honest opinion. His valuable influence was felt in this period by leading the greenkeepers to give of their knowledge, and by his willingness and desire to direct scientists in the solution of their research problems.

We are thankful that we were permitted to have John Shanahan with us during the final period of his greenkeeping career. For then he was to demonstrate by his practices and life the value of his example, teachings, and ideals. His acceptance, and adaptation of the results of scientific research was proof of their soundness, and his leadership was followed throughout the country.

The greenkeepers of New England have lost an able adviser, a living example of their ideals. The research worker has lost a true friend, a wise counsellor with an inspiring personality. The community has lost a valuable citizen.

Prof. Lawrence S. Dickinson,
Mass. State College.

It is given but to few men to rise through hard work and eternal vigilance to the peak of their individual professions. Mr. Shanahan did accomplish this feat and maintained his "second to none" reputation to the very end of his life. It is truly inspiring to those of us, who have yet to make our mark in this world to have known and associated with a man of his excellent qualities. He leaves a heritage of which any man might be proud.

Orville O. Clapper, Mgr.,
New England Toro Co.

RESOLUTIONS

Adopted December 17, 1934, at a meeting of the Board of Directors of the Brae Burn Country Club, West Newton, Massachusetts

WHEREAS:

THE BRAE BURN COUNTRY CLUB

records with deep regret the decease of

JOHN SHANAHAN

its beloved and loyal Greenkeeper; and

Whereas: For thirty-two years Brae Burn has enjoyed the benefit of his knowledge and industry, resulting in the attainment of one of the finest examples of golf course architecture and maintenance in the United States; and

Whereas: During his long years of service, spanning the growth and development of golf as a National recreation in this country, John Shanahan prepared the Brae Burn course for many State and National Tournaments; and

Whereas: He was recognized as the Dean of Greenkeepers, holding membership on the Advisory Committee of the Greens Section of the United States Golf Association and on the Executive Committee of the Greenkeepers Club of New England;

Whereas: Sincerity and sterling integrity were the basic attributes of his character and a remarkable influence for good among his fellowmen; and now therefore be it

RESOLVED

That the Club express its appreciation of John Shanahan's long and faithful service, and extend to Mrs. Shanahan its sympathy in her loss of a loving companion, and be it also further

RESOLVED: That this tribute be spread on the records of the Club and that a duly authenticated copy be engrossed and presented to Mrs. Shanahan.

BRAE BURN COUNTRY CLUB

Leon B. Rogers,

President.

William H. Rice,

Secretary

C. A. Sawyer, Jr.,

Chairman, Grounds Committee.



JOHN SHANAHAN

GOLF CLUBS

What the Green Section of the United States Golf Association has done for you.

Are you doing your part?

This article is not written to emphasize the benefits derived by all golfers by the various activities of the United States Golf Association, such as maintaining the standards of the game, the handling of tournaments and the standardization of golfing equipment, etc., but to point out what the Green Section has done of a beneficial nature for all golf clubs whether members of this Association or not.

Let us just state that membership in the United States Golf Association costs only \$30 per club per year. On the basis of an average membership of 200 members per club, this represents the small outlay of fifteen cents (15 cents) per member.

The Green Section, through years of experimentation, has done the following for you:—

1. *Grasses*: Developed superior grasses for putting greens. Defined adaptability of various grasses for fairways and tees. Determined economical seeding rates and methods.

2. *Fertilizers*: Determined the relative values of various fertilizers for turf production by tests on different soils.

3. *Diseases*: Devised remedies (including corrosive sublimate and calomel) for control of brownpatch, dollar-spot, snowmold and other turf diseases.

4. *Insects*: Sponsored tests leading to arsenate of lead treatment for control of grubs and earthworms. Tested other remedies for insect pests.

5. *Weeds*: Demonstrated several effective means for reducing weed problems on golf courses.

6. *Soil Improvement*: Developed methods for improving soil conditions to make them more suitable for golf course conditions.

7. *Mowing*: Determined favorable and unfavorable effects of mowing turf at different heights; thereby modifying unfavorable mowing practices on golf courses.

8. *Watering*: Demonstrated advantages in improved methods of applying water and removing excess water.

9. *Advisory service*: Advised clubs on all types of questions concerned with materials and methods used in golf course construction and upkeep, including soil and seed analyses. (This service has not been connected with purchasing bureaus.)

10. *Bulletin*: Published 13 volumes constituting the most authoritative and useful reference work on turf culture that is in existence.

11. *Educational Work*: Conducted educational work which has raised the standards in greenkeeping in every part of the country.

12. *Interpretation*: Served to interpret related agriculture science so that it might be applied to modern greenkeeping.

From the above brief summary the Greens' Chairman or Greenkeeper, who is a keen student of his duties, can read—

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for

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What is Florida Humus?

Humus in its purest, richest form—with a high content of organic nitrogen which makes it a plant food in itself. It is decayed vegetative mold from underwater deposits where, for centuries, the life-giving organic matter has been sealed in and all weed seeds, waste and foreign matter sealed out. Air-dried and conveniently packaged, it is light, fluffy, clean, odorless—and more highly absorbent than any other humus known.

Ready to use as received.

Carloads were used on New England golf courses during the 1933 and 1934 seasons. The results have been most satisfactory.

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ily appreciate that the services rendered to his club have been of inestimable value.

It might be well for us at this juncture, to correct an erroneous impression in the minds of many, to state that no member of the Executive Committee of the United States Golf Association receives, or has received, any remuneration for his services or expenses either for travelling or otherwise.

The United States Golf Association in the last fourteen years has spent over \$335,000 in research and development work for the benefit of its member clubs. We have been compelled to reduce the budget for Green Section work because of operating deficits of the Association in 1931, 1932 and 1933. Our present budget, however, is sufficient for us to do a great deal of constructive work for the clubs both by helping them to correct erroneous practices of greenkeeping and to avoid mistakes which may be very expensive. In other words, our tremendous investment in research and experimental work has brought us a fund of knowledge which will be of lasting benefit to our clubs, and which, we believe, you cannot afford to be without.

There are in this country approximately 5,800 golf clubs. We had at our peak 1,129 member clubs, which has now been reduced through resignations to about 800 member clubs. This alone accounts for \$9,000 less income which previously was used by the Green Section in experimentation work.

A fact that should not be overlooked is that research results of the Green Section not only have saved thousands of dollars for golf clubs, but sports fields, tennis courts, bowling greens, lawns and ball parks have been able to benefit as well.

This brings us to the main question. In view of the fact that all this has been done for you, what are you doing to help? In other words, are you doing your part? The question has many times been asked of a United States Golf Association official—What does the United States Golf Association do for my club? It seems to us that the shoe is most certainly on the other foot.

United States Golf Association,
By Harold W. Pierce,
Chairman, Green Section.

FEBRUARY MEETING

The February meeting was held at the Hotel Statler, Boston, on the 4th. Representatives of several golf supply houses were present and gave short talks on various subjects, the program being presented under Chairman Darling of the Entertainment Committee.

The following were the speakers and their subjects:

Mr. Kylander of the New England Toro Co., "Rubber Tires for Fairway Mowing".

Mr. Coles of the Antube Co., "Control of Ants".

Mr. Stone of Philip Porter & Sons, "Adding Humus to Established Greens".

Mr. Goldthwait of Duro Pump Co., "Fairway Irrigation".

Mrs. Smith of Ma-Ches-OK, "Organic Matter in Native Peat".

Mr. A. N. Peckham, "Growing and Harvesting Turf Grasses".

Mr. Reid of Hovey & Co., "Irrigation".

Mr. Sawtelle of Worthington Mower Co., "How to Prolong the Life of Fairway Units".

Mr. Dodds of Thomas Emerson Co., "The Seed Market in 1935."

Mr. Berecz of Power Lawn Mower Service Co., "The Economy in Golf Maintenance of Modern Equipment".

Mr. Nye of F. H. Woodruff & Sons, "Advice in Purchasing Grass Seed."

Mr. Preston of General Chemical Co., "Japanese Beetle".

These talks were interesting and made the meeting a very successful one to all those present.

The speaking program for the Conference was still incomplete when we went to press, but we understand that Herb Graffis of Golfdom is to speak on "The Prevention and Cure of Brainpatch in Greenkeeping", and this alone should take you there.

The Greenkeepers Frolic will be held around the first of April, date not set as yet. Buy the wife a new dress, brush off the suit, and be ready!

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Is the water available in the soil-conditioners you are using?

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Organic matter	93.13%
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Organic matter and nitrogen tests were run at the Mass. Agri. Ex. Sta.

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Richard D. Mansfield, Sales Mgr.

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REFERENCES:

Suffield Country Club, Conn.
Wellesley Hills Country Club, Mass.

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Three - Day Golf Conference

at Mass. State College — March 15-16-17

The ninth annual Golf Course Maintenance Exhibition and Conference will be held in connection with the Recreation Conference at the Massachusetts State College on March 15-16-17.

The programme will start early Friday morning, March 15, and the eighteenth hole will not be reached until Sunday afternoon, March 17. This conference concludes the ninth annual eleven weeks winter school for greenkeepers, and will be the largest golfing meeting in the East in 1935. To provide continuous entertainment the program is divided into three definitely scheduled divisions.

The education division will have very strong speakers to cover all phases of golfing—professional, player, greenkeeper, club officials and club manager. A majority of the speakers will be new to the conference and included will be prominent greenkeepers with practical suggestions, and practical-minded scientists who will offer scientific facts to be heeded. The Massachusetts Golf Association is actively cooperating to make the exhibition and conference a success and representatives from the M. G. A., U. S. G. A., and P. G. A. are to be on the programme.

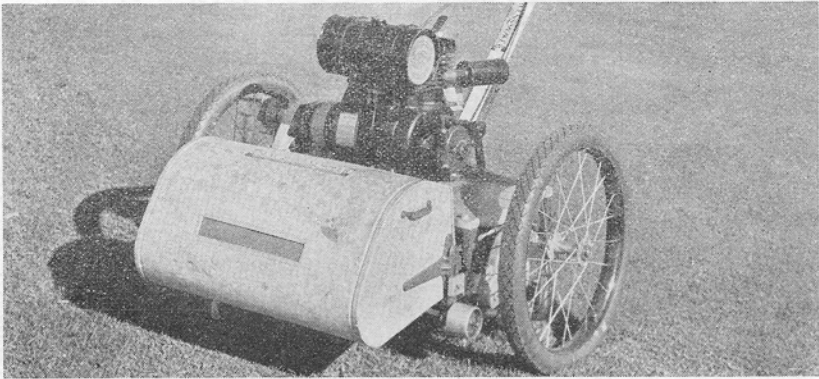
The exhibition is to be held in the college baseball cage, an area larger than most exhibition halls, and nearly all space has been already reserved. Club officials and merchants find this conference a rare opportunity for interviews and the only opportunity in New England to inspect the various types of equipment and to converse with reliable seedmen, all collected under one roof.

To supply amusement and to relieve the tension of serious lectures, real entertainment is being arranged for.

This conference and exhibition will be a part of the General Recreation Conference which includes all winter sports, hunting and fishing, and archery. Each of these groups will have a fine exhibition.



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A BETTER job of cutting—every day—the season through—that's what you can expect when using the Ideal Power Greensmower.

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Certainly, they save labor also—and take the hard work out of mowing greens—but the high quality of their work is the big reason for their fast growing popularity.

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RUBBER TIRES FOR FAIRWAY MOWING

(Presented at February Dealers' Meeting.)

The subject assigned to me to be covered in five minutes is "Rubber Tires for Fairway Mowing". It is my belief that insufficient evidence is available to limit myself to this one phase of Rubber Tires on Tractors and with your permission I will treat of Rubber Tires for Tractors in a general manner and deal more specifically with the mowing towards the end of my address.

The trend during the past recent years has been very definitely toward rubber tired equipment on all types of tractors. While our interest here is primarily with mowing it might give me a better background to touch on general usage.

The Agricultural Wheel Equipment Committee of the American Society of Agricultural Engineers decided to make one of its major activities for the year of 1934, a study of rubber tires for tractors by means of a questionnaire sent to owners. Such references as I may make are based on 373 returned questionnaires as compiled by Prof. C. W. Smith of the University of Nebraska. Of course every one did not answer every question with a definite yes or no.

Tractors were used from 70 to 4,000 hours per year, 260 reported that they used their tractors more since having them equipped with rubber tires. Nearly 100% of these reported a fuel saving. 261 gave figures on this subject and the average saving was 24.1%. Following is a brief resume of the questions and answers.

How much more can you do in a day with rubber. Answers ranged from 0% to 100%.

Were breakage and repairs reduced through use of Rubber Tires. 198 answered yes.

Was your tractor operated in higher gear with Rubber Tires. 332 answered yes.

Do the tires give satisfactory traction. 334 answered yes.

Do you ever use chains with rubber tires. 274 answered No and 79 answered yes.

Do Rubber Tires ride easier? 363 answered yes.

Do Rubber Tires pack the soil more than steel wheels? 301 answered No.

If buying a tractor would you want it equipped with Rubber Tires? 343 answered yes.

A summary would read something like this—

A marked saving in fuel—Faster Operating Speed—More comfortable riding.

Less repairs thus longer life—Better traction—More power and work done.

Less soil packing with rubber.

End of quotations from Prof. Smith's compilation of questions and answers.

Perhaps one of the reasons why rubber tires were not so quickly adopted for Golf mowing was that the size of wheels used on Golf tractors did not permit the use of Farm Implement or Tractor Type Tires. A few attempted using the pleasure car or truck type of tires but experienced wheel slippage causing turf burns, which was partially overcome by using chains and then damage to turf invariably resulted. This can be verified by your own experience with your own trucks on your golf course.

In the most recent years the large tire companies have made great strides in the development of tires built specifically for tractors and now make sizes for the popular golf tractors. These are not pleasure type tires but have special treads designed for efficient traction and a softer and more elastic cord permitting the tires to adapt itself to the ground contours. The average tire pressure is 12 lbs. and chains are not recommended on the tractor type tires for turf work.

Of the many sizes in our experimental work two stand out as the most satisfactory. These are the 6:00 x 16 and 7:50 x 16 either of which will fit the 4:50 x 16 rim. The maximum load is 915 and 1350 lbs. respectively and the ground contact area is 25 and 41 square inches respectively. Dual tires are recommended on the rear rather than large single tires as this permits greater contact area with the ground, insuring better traction under all conditions with minimum slippage. Tests have proven dual tires will take seven units or a dump cart load over hills

without slippage while the same machine with the same load and steel wheels with spuds will slip and tear the turf. Also side hill slippage has been practically eliminated.

Last and certainly not least is the tractor operator: "The Forgotten Man". On Rubber Tired Tractors he rides in comfort, he is better satisfied and it is reflected in his work and frame of mind. His efficiency can be increased by minimizing jolts and jars throughout his working day.

O. O. CLAPPER, MGR.,
NEW ENGLAND TORO, CO.

Mr. Richard D. Mansfield has recently joined the organization of Brague, Inc., of Hinsdale, Mass. as sales manager for their product, SOIL-

CO. SOIL-CO was formerly sold under the name of Hinsdale Leafmold.

Mr. Mansfield is a graduate of the Stockbridge School at Mass. State College, having majored in golf course maintenance. He was with the Newbergh, N. Y., Country Club for one year and has been with Colonial Country Club, Lynnfield, Mass., for eight, the past year as assistant greenkeeper.

He is a member of this year's class for greenkeepers at Mass. State College and is student chairman of the golf division at the Recreation Conference Exhibition in Amherst to be held March 15-16-17.

He has many friends among the greenkeepers throughout New England and all wish him the best of success in his new position.

Brague, Inc.

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Pat. July 3, 1934



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Before the spring top-dressing, use a "Porcupine"—the spike roller that gives perfect holes and satisfaction. Does not rip the turf. Put this in your budget for 1935.

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HOSELESS FAIRWAY WATERING

(Presented at Feb. meeting)

The accepted hoseless fairway watering system in the Eastern States is the one-man operated, high pressure, center pipe system devised by Wendell P. Miller and installed by him at Albany Country Club in 1930. Every hoseless system in the East, installed since 1930—except one—is a Miller system, no matter by what name called. The one exception is a hoseless system of the original Buckner type installed at Lido Club, Long Island, in 1932. New England examples of the Miller system are The Country Club, Charles River, and Hyannisport.

This one-man system can be either looped or non-looped. The original Albany system was looped, with a few separated, non-looped, fairways, called "appendages". The Country Club and Charles River are looped systems; both have "appendages". Hyannisport System is non-looped. In practical operation there is no difference between looped and non-looped systems. For example, no difference in a practical way can be detected between Fresh Meadow (1932) which has no loops whatever—and its immediate neighbor, Queens Valley (1930) which is looped.

The choice between loops and no loops lies in the layout of the course—in fact, there is little room for choice, as the course itself determines the design. Far-flung courses with far wandering fairways—courses which are spread over rough country and vast acreages, are best handled with a loop, like the two Boston clubs mentioned, while groups of parallel holes, like Hyannisport, are best handled without loops.

There is no especial merit in loops as a mere principle of design for golf courses. The loop idea comes from city water practice, where loops are used to equalize pressure over large areas, to meet unknown peak loads of domestic demand, and to carry large volumes of water for fire protection. These peak loads do not exist on golf courses, where the demand is definitely calculable. Loops are unnecessary to equalize pressure on fairways because pressure is easily maintained throughout the fairways except on the far ends of

the mowed areas. The ends of most fairways are narrow by intention of the golf architect, hence some pressure loss can be sustained at the ends.

As for economical delivery of water to the fairways, one pipe does the job at less investment than two pipes. An 8" pipe carries more water than two (2) 6" pipes and costs 35% less installed. Likewise, a 6" pipe is bigger than two 4" pipes, a 4" bigger than two 3", and a 3" is bigger than a 2" plus a 2½", and in each case the single pipe represents a smaller investment.

"Equalization of pressure" and "looped systems" are nothing more than catch words to lure the unwary into the belief that there is some special merit in the looped system.

Vendors of watering equipment are promoting the idea that there is merit in loops because loops permit the operation of more sprinklers in any single fairway at one time than a non-looped system provided, however, the capacity of the loop exceeds the capacity of the non-looped header. Here is the catch! This is likewise a "catch" idea because for any given investment more water can be delivered to any single fairway by a single pipe than two pipes.

The number of sprinklers to be operated on any one fairway at one time is determined by the size of the pipe rather than loop design. The full capacity of the pumps can be used on one fairway if the pipes are large enough—regardless of the design adopted.

There is little or nothing to be gained by operating quite a few sprinklers on a single fairway at one time. With night watering it is usually difficult, if not impossible, to utilize the workman's time between sprinkler moves—and if the time saved by concentration of sprinklers cannot be effectively utilized, the extra investment which permits such concentration is wasted. A system which gives the workman maximum time to sit and think between rounds—or merely just to sit—is nice for the workman but hard on the club purse. It is simpler to get a smaller appropriation—and let the workman walk more and sit less.

Staggered sprinkler operation means operating the usual 7 to 10 sprinklers over a number of fairways at one

Makes Turf That Wins Praise!

The **right** fertilizer isn't all that's necessary in growing fine playing turf, but you'll agree it's mighty important. Swift, manufacturer of fertilizers for fifty years, offers you a fertilizer that is formulated especially to meet the needs of golf course turf. It supplies all of the elements needed in proportions which assure beautiful turf **that can take it!** Like so many other New England courses, you'll find just what you want—exceptional results plus economy — in

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20 Years Experience in Pumping Problems in New England.

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2. Investigation of underground water and study of saving in water cost through ground water.
3. Application of water with reference to particular soil and turf requirements.
4. Comparative costs—electric vs. gasoline pumping.
5. Lower cost fairway irrigation.

RESIDENCE:

35 Park Ave., Wakefield, Mass.
Crystal 1761-W

OFFICE:

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Hubbard 5580

time, so that the flow of water is spread over as many different pipe lines as possible. Thus pipe sizes can be kept down. Usually one to three heads are operated on a fairway—enough to water each fairway within the shift. Usually six or nine fairways are watered each night.

There is no adequate reason for this practice. Cost of construction can be further reduced if only one head is used on one fairway at one time. Watering from the green, toward the tee, it is possible in one shift to water further back from the green than the longest ball will carry, thus providing a uniform fairway condition over the longest approach shot. And if only part of a fairway be watered in one night—Who can tell the difference the next day? And what difference does it make whether the player passes from a fairway just watered to one not watered, or vice versa, or whether the player passes from an unwatered portion of a fairway to a recently watered portion,

Greenkeepers will get fairway watering quicker if they will scale down their ideas to the staggered system of sprinkler operation—the results are the same but the cost of construction substantially less—while the routine of staggered watering is simple enough for any workman to follow.

First-class cast iron piping systems operating one sprinkler per fairway and having a capacity of 350-400 G. P. M. can be installed on many courses for \$7,000.00 to \$10,000.00. These systems will have adequate capacity, in fact in most cases will permit getting clear around the course in one shift when it is desirable to prevent drying out in extreme weather. No system of this type, to our knowledge, has yet been installed but we believe this idea to be entirely feasible, and to offer the opportunity to install fairway watering at a price within the means of clubs not able to spend \$15,000 to \$20,000.

Lower cost irrigation construction is coming—and accordingly we recommend this new idea for consideration.

D. G. REID,

HOVEY & COMPANY,

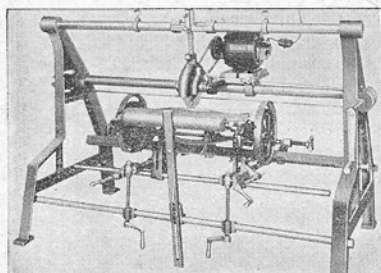
Boston, Mass.

Attention is especially called to the notice of the Recreation Conference elsewhere in this issue. The Greenkeepers Club of New England heartily endorses this Conference, as it has all previous conferences held at the Mass. State College, and believes that every greenkeeper in New England should be among those present on March 15-16-17. As a means of spreading this message, this issue of the NEWSLETTER is being sent to every greenkeeper in New England whose address we have been able to find. We hope that you who receive the NEWSLETTER for the first time will be interested enough in it to get this message, and see us in Amherst next month! You will find the regulars there nearly 100%.

At this time we wish to urge every member to make better use of the various committees of the club, and also to cooperate with these committees. Any member who knows of another's illness should communicate with the Chairman of the Welfare Committee, James C. Sullivan, 47 Hammond Street, Waltham, Mass. Any member knowing of another's need should communicate with the Chairman of the Trustees, Carlton E. Treat, Woodland Golf Club, Auburndale, Mass. The Trustees are empowered to use funds in their care to help any members who may be in need. Further use of the Employment Committee is urged by its chairman, James C. McCormack, 450 William St., Stoneham, Mass., and he also would appreciate knowing of openings, also greenkeepers wishing positions. Club officials are requested to write Mr. McCormack if they need a greenkeeper; he can furnish a list of qualified applicants.

The March meeting of the Greenkeepers Club of New England will be held at the Hotel Statler, Boston, on March 4th at 2 P. M. The speaker will be Prof. J. W. White of Penn State College, and his subject "Turf Problems". Because we believe that Prof. White will have a real message, we are inviting each and every greenkeeper in New England to this meeting.

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