

THE BULLETIN

of the

UNITED STATES GOLF ASSOCIATION GREEN SECTION

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No. 2

Contents

	Page
Development of Local Green Sections.....	22
Index of Reports from Local Green Sections and Similar Organizations.....	22

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Development of Local Green Sections

This number of the Bulletin contains reports of the activities of 30 organizations interested primarily in golf course turf. The Green Section is not directly responsible for the formation nor the management of any of the organizations listed in this number, but it has from their start cooperated in one way or another with most of them. Some of these organizations are confined to members of green committees and some to greenkeepers, while others are organized on a broader basis to admit to membership all individuals who are interested in growing turf. The large number of these organizations is significant in indicating the growing interest in turf problems. All of these organizations have been formed since the establishment of the Green Section of the United States Golf Association in 1920. It is interesting to note that the first local green section was started in Philadelphia in 1921. The first organization of greenkeepers was the Greenkeepers' Club of New England, which held its first meeting in 1924.

The purpose in presenting all these reports in one number of the Bulletin is to call attention to the large number of organizations that are interested in turf culture throughout the country. The reports show that some of these organizations have extensive programs for the year, while others are relatively inactive. A review of the many programs given in the following reports should furnish program committees of these organizations with many helpful suggestions for the 1931 season.

Organizations Whose Reports are Published on the Following Pages

	Page
Atlanta Green Section.....	46
Central Ohio District Golf Association Green Section.....	35
Cleveland District Green Section.....	50
Connecticut State Greenkeepers' Association.....	49
Detroit District Golf Association Green Section.....	42
Golf Service Bureau of New England.....	37
Golf Service Bureau of Pittsburgh.....	28
Green Committee, Chicago District Golf Association.....	31
Green Section and Supply Section of Metropolitan Golf Association.....	25
Greenkeepers' Association of Minnesota.....	47
Greenkeepers' Association of New Jersey.....	32
Greenkeepers' Association of Southern California.....	43
Greenkeepers' Association of Westchester County.....	47
Greenkeepers' Association of Western Michigan.....	27
Greenkeepers' Club of New England.....	23
Greenkeepers' Club of Western Pennsylvania.....	40
Indiana Greenkeepers' Association.....	34
Long Island Greenkeepers' Association.....	44
Maintenance Section, St. Louis District Golf Association.....	33
Michigan and Border Cities Greenkeepers' Association.....	43
Mid-Atlantic Association of Greenkeepers.....	36
Mid-West Greenkeepers' Association.....	30
National Association of Greenkeepers of America.....	46
New Jersey State Golf Association Green Section.....	48
Ontario Greenkeepers' Association.....	39
Philadelphia Association of Golf Course Superintendents.....	41
Philadelphia Green Section and Service Bureau.....	44
Rhode Island Greenkeepers' Association.....	49
Western New York District Greenkeepers' Association.....	38
Wisconsin Greenkeepers' Association.....	45

Greenkeepers' Club of New England

By Robert A. Mitchell

The Greenkeepers' Club of New England has the distinction of being the first club of its kind in the United States. It was in the fall of 1923 that Thomas Fahey, of Winchester, and Alec Brice, then of Belmont Springs, made a canvass of the greenkeepers of the clubs of metropolitan Boston with a view of ascertaining the sentiment regarding the forming of some kind of a greenkeepers' organization. The matter was discussed further by Frank R. Wilson, Jr., of the Charles River Country Club, and C. E. Treat, of the Woodland Golf Club, on a train returning from the annual meeting of the United States Golf Association at New York in January, 1924, when Mr. Treat decided to call a meeting of some of the more prominent greenkeepers in the district, at his home, on February 5. At that meeting it was agreed to hold a get-together dinner at Cottrell's Restaurant, in Boston, on February 25, 1924. The dinner was attended by 41 greenkeepers, and there the Greenkeepers' Club of New England was formed, a constitution adopted, and the following officers elected: President, John Shanahan; vice-president, James Holden; secretary, F. H. Wilson; treasurer, C. E. Treat; trustees, Valentine Flood, William McBride, and James Sullivan. The membership has since grown to 80, one-half of whom are from the Boston district, one-quarter or more from Rhode Island and southern Massachusetts, and the balance scattered. Membership is confined to greenkeepers and assistant greenkeepers.

On June 9, 1924, our first tournament was held, at Brae Burn. In May, 1925, the club conducted the first outdoor demonstration of golf course equipment and machinery held in this part of the country. During the last 7 years the club has visited and played golf on over 25 of the courses of New England. At our winter meetings we have listened to some of the best authorities on golf course maintenance and construction, have had meetings at the Massachusetts Agricultural College and meetings with seed and implement men, and have had many interesting discussions of local problems. A spirit of friendship and cooperation has sprung up among the members which is growing year by year. The club has won the respect of those with whom it has come in contact and has raised the standard of greenkeeping and increased the skill of its member greenkeepers. In 1929 it started the publication of its official organ, the *Newsletter*. This paper, which is published each month, has received much favorable comment; its success is largely due to the untiring efforts of G. C. West, editor, and M. Burnett, business manager, both of whom are greenkeepers.

The purpose of the organization, to quote from its by-laws, is "the advancement, by cooperation, of the interests and welfare of its members and of those in whose employ they may be from time to time, and the establishment of uplifting standards of dignity and skill among our greenkeepers by cooperative education and training amongst ourselves in the varied requirements of our profession, and the education and training of employes under us in the various departments of our work."

Regular meetings are held monthly. One is the annual banquet and business meeting. Four are educational meetings. Seven are held on golf courses (educational features being a prominent part of

these meetings). We also cooperate in the holding of a golf equipment show, with field demonstrations, and we hold a meeting at the Charles River demonstration garden of the United States Golf Association Green Section. We have begun to hold joint meetings also with the state greenkeepers' associations lately organized in Rhode Island and Connecticut. Each year since the founding of a school for greenkeepers at the Massachusetts Agricultural College, at Amherst, we have made a pilgrimage to that institution at the time of its annual golf maintenance exhibits.

The following is a brief resumé of our 1930 meetings:

January 6. Annual meeting with election of officers and banquet.

February 3. Business meeting at Horticultural Hall, Boston. Speaker, W. B. Hatch, golf architect.

March 3. Business meeting at Horticultural Hall, Boston. Speakers, Prof. L. S. Dickinson, Prof. M. J. Markuson, and Dr. W. H. Cubbon, of Massachusetts Agricultural College.

March 15 and 16. Attended the fourth annual golf course maintenance exhibition at Massachusetts Agricultural College, Amherst. Two forums for discussion of golf course problems. Joint open meeting with Greenkeepers' Club of New England and Connecticut Greenkeepers' Association.

April 7. Business meeting at Horticultural Hall, Boston. Speaker, Dr. F. J. Sievers, director of the agricultural experiment station at Amherst.

May 12. Albemarle Golf Club, West Newton, Mass. Golf tournament. Demonstration of top-dressing equipment.

June 2. Unicorn Country Club, Stoneham, Mass. Golf tournament.

July 7. Weston Golf Club, Weston, Mass. Golf tournament. Demonstration of loam steamer.

August 4. Agawam Hunt Club, East Providence, R. I. Golf tournament. Inspected extensive grass tennis courts. Combined meeting with Rhode Island greenkeepers.

September 2. Stoney Brae Country Club, Wollaston, Mass. Golf tournament.

October 8. Brae Burn Country Club, West Newton, Mass. Club championship golf tournament.

November 3. Waltham Country Club, Waltham, Mass. Golf tournament.

December 1. Hotel Narragansett, Providence, R. I. Joint meeting with the Rhode Island and Connecticut greenkeepers' associations. Speakers, Dr. T. E. Odland and Dr. H. F. A. North, of Rhode Island State College.

The officers reelected for 1931 are: President, Carlton E. Treat, Woodland Golf Club; first vice-president, Thomas Fahey, Winchester Country Club; second vice-president, James McCormack, Unicorn Country Club; third vice-president, Howard Farrant, The Country Club, Brookline, Mass.; treasurer, James Sullivan, Waltham Country Club; secretary, Robert A. Mitchell, Kernwood Country Club, Salem, Mass.; trustee for 3 years, T. W. Swanson, Bear Hill Country Club; trustees, Frank H. Wilson, Charles River Country Club; R. Wallace Peckham, Sachuest Golf Club.

The board of trustees is in charge of a trust fund for the benefit of the sick and needy.

Green Section and Supply Section of Metropolitan Golf Association

By G. W. Milnes

The beginning of the Metropolitan Golf Association Green Section dates back to June 23, 1925, when a special meeting of the Metropolitan Golf Association was called to consider and vote on a plan for the organization of a service bureau for golf clubs in the Metropolitan district. This meeting was attended by nearly 100 delegates, and after a discussion these delegates endorsed the idea of a service bureau and referred the matter to the executive committee with power to act. The purpose of the service bureau, as stated at that time, was primarily to help in the purchase of implements and materials and to distribute information and advice with regard to the maintenance of golf courses. The expense of this service was to be borne by a fee of \$100 to be paid by each particular club. Twenty-two clubs applied for membership, and a headquarters was established at 2 Rector Street, New York City.



Hardly anything can compare in interest with a meeting on a golf course, where greenkeepers and committee members may get first-hand information on turf practices and the use of equipment. Green Section and Supply Section of Metropolitan Golf Association.

By the end of the year, the number of member clubs participating in the service bureau had increased to 39. From then on there was a steady growth. In December, 1928, the membership included 63 service bureau clubs out of a total in the association of 180. It was then felt advisable to discontinue the service bureau as a separate organization, and a new constitution was proposed and adopted at the annual meeting of December 11, 1928, whereby the service bureau was consolidated with the other activities of the association. At the same time the work was divided into two sections, namely, the Green Section and the Supply Section, and from that time on the Green Section has been concerned solely with the distribution of information and advice in regard to golf course maintenance, while the Supply Section has dealt only with questions relating to the purchase of implements and materials. Also, the annual dues of the association were increased so that all clubs shared the expense incurred in carrying on

the above activities. This was done because it was felt that under the old plan all were sharing indirectly in the benefits for which only a few were paying the way. At the present time the Green Section and the Supply Section stand ready to serve the entire membership of the Metropolitan Golf Association, which now consists of 192 clubs.

The activities of the Green Section, under the direction of a trained field man, include meetings, advisory service, field work, local bulletins, and supervision of demonstration turf gardens. Meetings of chairmen of green committees and greenkeepers are sponsored by the Green Section but are not held according to any definite schedule. During the past season this phase of Green Section activity has been limited to cooperation with district associations in New Jersey, Long Island, and Westchester County, at meetings held on demonstration turf gardens. It is planned to enlarge the scope of the work along these lines during the season of 1931. The advisory service and field work of the Green Section, which necessarily are the backbone of an organization of this kind, required an average of over 100 calls to clubs throughout the district during the past seasons. Mimeographed bulletins covering subjects of local interest are issued from time to time as occasion requires, although no effort is made to keep to a definite schedule. In addition, the Green Section undertakes a general supervision of the three United States Golf Association Green Section demonstration turf gardens located in this area, directing the application of fertilizers and reporting the condition of the various plots each month during the growing season.

The activities of the Supply Section, under the direction of a separate manager, include advisory service, the placing of orders for member clubs, bulletin service, and the holding of machinery demonstrations. The advisory service of the Supply Section pertains only to sources of supply and prices for various commodities in demand on golf courses. When requested, the Supply Section also acts as purchasing agent for member clubs, placing orders for the various commodities, which are then shipped and billed directly to the club. The grouping of orders for near-by clubs into car lots with resulting saving to participants is an important feature in this connection. To further this work, the Supply Section issues from time to time, though adhering to no definite schedule, a bulletin pertaining to its activities. In addition, the Supply Section sponsors, as occasion demands, machinery demonstrations at the various courses, to which greenkeepers, chairmen of green committees, and all others interested are invited.

As pointed out above, the entire membership of 192 Metropolitan Golf Association clubs may avail themselves of the services of both Green Section and Supply Section. Greenkeepers, chairmen of green committees, professionals, and all others connected with member clubs may call for assistance at any time.

The territory covered by the Metropolitan district includes an area of which the radius is 55 miles from Columbus Circle, New York City, plus all of Long Island. Outside the city limits it includes Suffolk, Nassau, Westchester, Putnam, and Rockland Counties, and parts of Dutchess and Orange Counties, in New York; the lower portion of Fairfield County in Connecticut; and 13 northern counties in New Jersey. As may be readily seen, there is a wide overlapping in this area, not only with the Westchester, Long Island, and New Jersey state golf associations, which work in close harmony with the Metro-

politan Golf Association, but also with the Connecticut state, New York state, Fairfield County, and Philadelphia golf associations as well. Needless to say, this overlapping does not simplify the work of the Green Section or the Supply Section in the Metropolitan District.

The officers of the Metropolitan Golf Association, who are elected at the annual meeting held in December of each year, are as follows:

For 1930.—John A. Ladds, president; Jess W. Sweetser, vice-president; Livingston Platt, treasurer; Stacey Bender, secretary. Green Section committee: Harry P. Kidd, chairman; Frederick W. Kiendl, Robert F. Arnott, Eugene L. Larkin.

For 1931.—Stacey Bender, president; Jess W. Sweetser, vice-president; Livingston Platt, treasurer; Fred Connell, secretary. Green Section committee: Robert F. Arnott, chairman; George Kiendl, St. Albans Golf Club; William Rice Hochster, Quaker Ridge Golf Club.

The office of the Green Section and the Supply Section of the Metropolitan Golf Association is at 295 Madison Avenue, New York City.

Greenkeepers' Association of Western Michigan

By John E. Dustin

Our association was formed early in 1929 for the purpose of meeting fellow greenkeepers and comparing results we are obtaining on our courses. We give each other the value of our experiences and discuss the condition of our putting greens and fairways, methods of fertilizing, disease control, and similar matters. By such cooperation we hope to improve our courses and to maintain them in the cheapest possible manner.

Regular meetings of the association are held the first Monday of each month. In the summer we hold meetings every two weeks on the various courses represented in the association. Each of these summer meetings is preceded by a 9-hole match and a lunch, after which informal discussions are participated in, particularly with regard to conditions on the course on which we have just played. If one of our meetings happens to be in a neighborhood where any equipment is made which is used in our line of work, we get permission to go through the factory. The factories are glad to demonstrate their equipment to us.

Our membership is now about 50. We have three classes of members: regular members consist of greenkeepers and superintendents of golf construction; associate members are assistant greenkeepers or those who have served at least two years under a competent greenkeeper; honorary members are chairmen of green committees employing greenkeepers who are regular members of the association, and are exempt from all dues or assessments. Associate members have no vote. The annual dues are \$1 for regular and associate members; in addition to this there is an initiation fee of \$5.

The officers and directors of the association are as follows: President, John Dustin, Kalamazoo Country Club; vice president, L. McQuillan, Ionia Country Club; secretary-treasurer, Andrew Peck, Battle Creek Country Club; directors, Lee Dustin, Berrien Hills Country Club; W. B. Matthews, Grand Rapids; Raymond Lampky, Jackson Country Club; M. F. Webber, Groesbeck and Red Cedar Country Club.

Golf Service Bureau of Pittsburgh

By Lois Miller

In March, 1926, a committee from the larger golf clubs in and around Pittsburgh organized the Golf Service Bureau of Pittsburgh, to be similar to bureaus then in existence in Philadelphia, Cleveland, New York, Boston, and elsewhere. The membership of the bureau is now 28 golf clubs in the metropolitan Pittsburgh district and 4 clubs located more than 50 miles from Pittsburgh. It is open to any golf club in western Pennsylvania. The annual dues are \$100 for 18-hole courses and \$50 for 9-hole courses; for clubs beyond 50 miles from Pittsburgh the dues are reduced one-half. Its object is three-fold; cooperative purchasing of golf course materials for its member clubs, disseminating information on golf course maintenance through correspondence and bulletins, and keeping the records of the developments of the two Green Section demonstration turf gardens established at Pittsburgh. The regular meetings of the board of directors are in January and July; additional meetings are called as necessary. The annual meeting of the bureau, which is attended by chairmen of green committees and greenkeepers, is held in July at either the Oakmont Country Club or the Allegheny Country Club turf garden. At this meeting a dinner is served, officers are elected, reports are made on membership and finances, and a talk on the turf garden work is given by a representative from the United States Golf Association Green Section. The total income to the bureau during 1929 was \$2,475. Its total expenses, consisting of office rent, secretarial service, postage, and stationery, were slightly less than the income.

During its first four years the bureau purchased approximately \$151,000 worth of seed, fertilizers, sand, tractors, mowers, fungicides, insecticides, hose, sprinklers, landscape materials, and miscellaneous equipment used on golf courses. The orders received from the clubs for materials are pooled early in the season for the purpose of obtaining the lowest wholesale prices on the best materials available. The bureau acts only as an agent in the purchases, all accounts being charged direct to the clubs. A club is free to designate from whom the goods should be purchased. Many of the clubs consider the services of the bureau also a great convenience and time-saver for the chairmen of green committees and the greenkeepers. It is hard to estimate in dollars and cents how much the bureau saves its member clubs. Although at the time of the organization of the bureau, few of the clubs were ordering their supplies like seed and sulphate of ammonia out of retail catalogues and paying high retail prices, nevertheless some were doing it, and one of the greatest benefits that has resulted from the activities of the bureau has been the stabilization of prices for golf course supplies. The bureau endeavors to get the same discounts on purchases as the largest manufacturing plants in Pittsburgh receive on their purchases. It tries to keep in touch with the purchasing departments of some of the largest corporations in Pittsburgh in order that it can check up from time to time the discounts that it is obtaining. Even in such things as pipe, picks, shovels, tools, and hose it believes it is getting the best discounts obtainable. Seed is an important item in the upkeep of golf courses, especially new ones. In its first four years the bureau purchased 68,391 pounds of seed. All is purchased under guaranteed specifications for purity and germination. It stands to reason that the purchaser of such a quantity

of seed can obtain better prices than a single club using only 1/32 of the total quantity. The chairmen of green committees of clubs constantly using the bureau in making their purchases are satisfied with what it accomplishes and feel that clubs may save their dues many times.

The bureau's activity in disseminating information on the care of golf turf is regarded by the board of directors as of vital importance. The bureau keeps in close touch with the research work of the United States Golf Association Green Section, with the work of four other service bureaus, with the course of instruction in greenkeeping at the Pennsylvania State College, with the national and local greenkeepers' associations, with the Allegheny County Agricultural Association, and with such other research organizations of the kind as are engaged in studies applicable to the care of golf courses. It maintains a file of technical information of value to greenkeepers and chairmen of green committees. Member clubs cooperate with the bureau by giving it information regarding the handling of their particular problems which may be of value to other clubs. In disseminating information of this kind we strive to avoid giving any opinion of our own, but rather to refer those asking for advice to sources competent to give it. The bureau has had a representative at each of the greenkeepers' conferences held at the Pennsylvania State College and at the equipment demonstration held at the Highland Country Club. Bulletins are sent out from time to time to its member clubs regarding the pooling of orders for spring and fall requirements, changes in market prices, and the results of the turf garden experiments.

The bureau was instrumental in establishing at Pittsburgh two demonstration turf gardens of the United States Golf Association Green Section similar to those in other sections of the United States. It was felt that soil and climatic conditions were so different at Pittsburgh from conditions at the Arlington turf garden that it was highly important to establish these local gardens. It was therefore determined at the annual meeting of the bureau in July, 1928, that two turf gardens, to be supported by the member clubs of the bureau, should be located in our district, one at the Allegheny Country Club and another at the Oakmont Country Club, one representing soil conditions typical of our shaley hillside courses and the other representing soil conditions typical of our flat level courses. Each garden contains 60 plots, 10 by 10 feet in size, which were prepared, seeded, and fertilized under the direction of the United States Golf Association Green Section. The plots are cared for by the greenkeepers of the respective two courses, and records of developments which are kept by the two greenkeepers and by the Golf Service Bureau are sent monthly to the Green Section at Washington. These turf plots have aroused much interest among greenkeepers, players, and even the general public.

The board of directors elected at our last annual meeting in July are as follows: Chairman, J. E. MacCloskey, Jr., Longue Vue Club; vice-chairman, Wm. K. Frank, Westmoreland Country Club; directors, J. H. Baily, Longue Vue Club; Grant Dibert, Stanton Heights Golf Club; William Frew, Fox Chapel Golf Club; John Graham, South Hills Country Club; Dr. J. L. McBride, Shannopin Country Club; Edward E. McCoy, Longue Vue Club and Oakmont Country Club; J. Bernard Rose, Allegheny Country Club.

The headquarters of the Golf Service Bureau are at 1101 Farmers' Bank Building, Pittsburgh, Pa.

Mid-West Greenkeepers' Association

By A. L. Brandon

Our association developed out of a mass meeting of greenkeepers held in the Great Northern Hotel, Chicago, November 29, 1926, after golf courses in Illinois, Wisconsin, and Indiana had been circularized. It was incorporated under the laws of Illinois, December 24, 1926. We have now 70 active members, who are located in a centralized area within a radius of 150 miles from Chicago. Any greenkeeper or assistant greenkeeper who has had 3 years of experience in actual greenkeeping and those holding the combined position of greenkeeper and professional are eligible for active membership in the association; any person directly or indirectly interested in the development of golf courses is eligible for associate membership. The annual dues are \$5, in addition to which there is a \$5 initiation fee. As stated in the corporate records of the organization the objects for which it was formed were:

"To associate and unite those persons engaged in the construction, reconstruction, development, improvement, and maintenance of golf courses and their attributes, particularly known and designated as greenkeepers.

"To promote, in any manner, the lawful and legitimate interests of its members; to assist in the development and advancement of the science of greenkeeping for the purpose of improving, standardizing, and developing methods of efficient and economic maintenance of golf courses.

"To collect, promulgate, and disseminate practical and scientific knowledge of problems and methods of greenkeeping of every kind and nature; to facilitate and promote the interchange of ideas among the members; and to edit, publish, distribute, and circulate magazines, periodicals, bulletins, and journals of all kinds pertaining to the activities and objects of the association."

Meetings are held monthly. Winter meetings are held indoors at the Great Northern Hotel and are educational in character, the round table discussions proving extremely valuable. It is the attempt of the association to present an authority at each meeting to address the membership. Summer meetings have been held at various clubs throughout our membership district since the existence of the organization. Members have visited a large representative number of clubs. Green committee members are cordially welcome to our meetings but we find it hard to gain a representative attendance.

The annual meeting of the association is held in Chicago, January 5. Additional meetings during 1930 were held as follows:

January 29. At this meeting arrangements were made for the participation of the association in the convention of the National Association of Greenkeepers of America at Louisville, Ky.

February 26. The meeting was addressed by C. M. Harrison, of the United States Golf Association Green Section.

April 9. The meeting was addressed by O. J. Noer, soil expert.

April 28. First outdoor meeting; Medinah Country Club, Medinah, Ill.

May 26. Chain O' Lakes Country Club, Antioch, Ill.

June 30. Harlem Hills Country Club, Rockford, Ill.

July 8. Meeting held in conjunction with the meeting of the

United States Golf Association Green Section, on the A. D. Lasker estate, Everett, Ill.

July 28. Skokie Country Club, Glencoe, Ill.

August 25. Shoreacres Golf Club, Lake Bluff, Ill.

September 8. Annual Mid-West tournament at Medinah Country Club.

September 29. Chicago Golf Club, Wheaton, Ill.

December 5. Indoor meeting, addresses by A. S. Dahl, of the United States Golf Association Green Section.

The officers of the association for 1930 were as follows: President, M. L. Bezek, Beverly Country Club; first vice-president, Pete Stewart, Lake Shore Country Club; second vice-president, John MacGregor, Chicago Golf Club; treasurer, Fred Kruger, Olympia Fields Country Club; secretary, A. L. Brandon, St. Charles Country Club, St. Charles, Ill.

The officers for 1931 are: President, M. L. Bezek, Beverly Country Club; first vice-president, Alfred Buller, Chikaming Country Club; second vice-president, R. N. Johnson, Medinah Country Club; treasurer, Fred Kruger, Olympia Fields Country Club; secretary, A. L. Brandon, St. Charles Country Club, St. Charles, Ill.

Green Committee, Chicago District Golf Association

By Guy M. Peters

The by-laws of the Chicago District Golf Association, which was founded in 1913, provide for various committees, one of which is the green committee. The writer has been chairman of that committee since 1927, and has been reappointed as such for 1931, with Ben Stevenson as the other member of the committee. Some years ago the green committee maintained a central purchasing bureau and a professional greenkeeper who gave advice to the member clubs in connection with problems in greenkeeping. In the earlier days the purchasing bureau was used by the member clubs and was instrumental in securing substantial reductions in cost of supplies. Later when the cost of golf supplies became more standardized it was found the member clubs could secure by direct purchase practically the same price as the purchasing bureau, and the member clubs thereafter availed themselves so little of either of these facilities that they were abandoned. Before the establishment of the turf gardens in the Chicago district by the United States Golf Association Green Section our principal activity was the holding of a joint meeting once a year of the chairmen of the green committees and the greenkeepers of the member clubs. These meetings consisted of machinery demonstrations in the afternoon and dinner in the evening, with a program of papers, usually by various greenkeepers, followed by the usual discussions. The meetings were popular and well attended. Our committee took an active part, in cooperation with the Mid-West Greenkeepers' Association, in securing the establishment of the turf gardens in the Chicago district by the United States Golf Association Green Section. Since those gardens have been established, our annual meeting has been held at the gardens, as part of the program of the United States Golf Association Green Section. This, in brief, is the extent of our activities.

Greenkeepers' Association of New Jersey

By H. T. Isleib

Our association was organized in October, 1926. Its purpose is purely educational. To quote from the by-laws, its aims are, "(1) The elevation of greenkeeping to a dignified and worthy status; (2) The advancement, by cooperative effort and concerted action, of the welfare of its members and such clubs as may employ them; (3) The establishment of a system of cooperative education and training among ourselves whereby we and those assisting us may benefit."

Our membership covers the State of New Jersey and Staten Island. It is composed of regular members, which include greenkeepers; and associate members, which include foremen who have served as such for at least one year. We also have at present several honorary members, of whom we are naturally a bit proud.

Our meetings are held regularly the first Monday in each month, usually in the evening. Our recognized meeting place is the Newark Athletic Club, although during the year several of the meetings were held at New Brunswick. The subjects to be discussed at the various meetings are planned in advance by a director of lectures, who also designates the member who is to lead in the discussion either by delivering a talk or reading a paper.

The subjects presented at the respective meetings during the past year were as follows:

- January. Power greens mowers, their benefits and disadvantages.
- February. Kinds and working efficiency of fairway mowers.
- March. Progress in Japanese beetle control during two years.
- April. Spring preparation of greens.
- May. Planting greens with stolons.
- June. Summer top-dressing of greens; materials, frequency, and quantities.
- July. Brown-patch control; effects and cost.
- August. Value of proper drainage during construction; actual experience.
- September. Various types of sprinklers; their effectiveness and efficiency under proper pressure.
- October. Practicability of preparing approaches to greens.
- November. Preparing greens for winter play.

December. A 200-word paper on the subject of greatest interest on the course during the year with reference to maintenance or construction or any other feature of the work, to be presented by each member.

The presentation of the talk or paper at the meeting is followed by an informal discussion.

The officers elected for the year 1930 were as follows: Chairman, H. T. Isleib, Locust Grove; first vice-chairman, William Finley, Norwood Country Club; second vice-chairman, Edward Stroud, Laurence Brook Country Club; secretary, George Kells, Orange Mountain Golf Club; treasurer, A. Burton, Mountain Ridge Country Club; trustee for 3 years, J. Anderson, Crestmont Country Club; trustee for 2 years, F. J. Roth, Plainfield Country Club; trustee for 1 year, William Sharkey, Sr., Essex County Country Club.

We have a membership committee and an advisory committee. The function of the latter is to assist our members in solving any special problems with which they may happen to be confronted.

During the past year we have visited several courses, including

the Merion Cricket Club, at Haverford, Pa. We also have our annual shore outing, and a theater party for the ladies during the winter. Next season it is our plan to hold meetings at a number of points throughout the state. As yet we have not established a publication of our own, but are given considerable favorable publicity through several of the newspapers. The growth of our organization has been altogether satisfactory and a keen interest is being sustained in all of its activities. Our enrollment is now about 47 members.

The officers for 1931 are the same as those listed above with the exception of the secretary. William Sharkey, Jr., Essex County Country Club, West Orange, has succeeded George Kells as secretary of the organization.

Maintenance Section, St. Louis District Golf Association

By D. R. Niederlander

Although the St. Louis District Golf Association has in previous years occasionally given attention to turf maintenance problems, the establishment of a special section to consider these problems was not undertaken by the association until the spring of 1930 when, on the urgent recommendation of Col. A. J. Goetz, its maintenance section was organized. Colonel Goetz was appointed chairman of the section, and D. R. Niederlander, 9 Parkland Place, St. Louis, Mo., secretary. No other officers were appointed, and it is expected that these two will continue in their respective capacities during the season of 1931. Leo Bauman, chairman of the green committee of Westwood Country Club, is chairman of the turf-garden committee. The purposes of the maintenance section are to advance the art of golf course maintenance, secure collaboration and interchange of ideas among chairmen of green committees and greenkeepers, hold machinery demonstrations, and promote good fellowship. The section itself does not as yet hold tournaments nor issue a publication. Two meetings were held during 1930, one May 9 at Algonquin Golf Club and the other July 16 at Westwood Country Club. The first meeting was attended by 19, representing 12 clubs, and the second by 32, also representing 12 clubs. Those in attendance were chairmen of green committees, greenkeepers, and others interested in the work. These two field meetings proved to be highly instructive and otherwise successful. Following each meeting a dinner was served in the club house, where great benefit was derived from the hosts of ideas, theories, and discussions presented.

No definite restrictions are placed upon the membership in the maintenance section. The association itself covers a territory within a radius of 125 miles from St. Louis, and invitations are sent to all chairmen of green committees, green-committee members, greenkeepers, and professional-greenkeepers within this territory, and they are asked to bring with them any who may wish to be informed on the problems of course maintenance.

A subject of interest to the organization is the newly established United States Golf Association Green Section demonstration turf garden located at the Westwood Country Club. This garden was planted in 1930, and several of our members were present at the time of planting. We expect that in 1931 and later years this garden will prove of much interest and value to all our members.

Indiana Greenkeepers' Association

By Carl A. Bretzlaff

Our association was organized in 1928 with 22 charter members. Its membership is now 35. Greenkeepers and assistant greenkeepers on Indiana courses are eligible for membership provided they have had at least two years of actual experience. The annual dues are \$5. Meetings are held monthly at the various clubs with which the members are associated. Inspection of the course is made at the meeting, followed by a luncheon and a general discussion. The green committee of the club at which the meeting is held is always in attendance. At our meeting in October, 1930, which was held at the Christiana Country Club, at Elkhart, we held our annual tournament. The winter meetings are held at Hotel Lincoln, in Indianapolis. During 1930 twelve regular meetings were held.



A meeting of the Indiana Greenkeepers' Association

It is our hope to be able to have a short course of instruction in greenkeeping established at Purdue University, and also to establish an experimental turf garden in the state.

The officers of the association for 1930 were as follows: President, Victor George, Country Club of Lafayette; first vice-president, Albert Esterline, Delaware Country Club; second vice-president, Carl J. Coy, Tippecanoe Lake Country Club; secretary, Carl A. Bretzlaff, Meridian Hills Country Club, Indianapolis, Ind.; treasurer, George Hawkins, Speedway Golf Course.

The officers for 1931 are: President, Victor George, Country Club of Lafayette; first vice-president, Carl J. Coy, Tippecanoe Lake Country Club; second vice-president, William Yergin, Christiana Country Club; secretary, Chester Coval, Avalon Country Club, Indianapolis, Ind.; treasurer, George Hawkins, Country Club of Indianapolis.

Central Ohio District Golf Association Green Section

By George M. McClure

The Central Ohio District Golf Association was organized in May, 1929, as a result of an amalgamation of the Columbus District Golf Association and the Dayton District Golf Association. The association consists of 38 clubs located in central and southeastern Ohio. Active membership is restricted to private clubs, and associate membership to public and semi-public golf courses. The executive work of the association is divided among seven sections, each of which has a chairman; these seven sections are as follows: green, tournament, cooperative purchase, ways and means, public links, women's, and house management.

The chairman of the green committee for 1930 was C. F. Young, Dayton Country Club. During the year the green section held a meeting each month except January, at which practical subjects in green-keeping were discussed. Following is a list of the meetings, showing the place at which each was held, the principal subject discussed, and the leader of the discussion:

February 12. Elks Home, Columbus. Some observations on the trend of greenkeeping. George Sargent.

March 11. Elks Home, Columbus. Drainage on golf courses. Joe Williamson.

April 8. Columbus Country Club, Columbus. Control of weeds. C. J. Willard.

May 13. Chillicothe Country Club, Chillicothe. How to control brown-patch. Attilio Millrenee.

June 10. Elks Country Club, Columbus. Use of fertilizers on golf courses. Lawrence Huber.

July 8. Mound Builders' Country Club, Newark. Construction work on the golf course. D. M. Boude.

August 12. Odevene Country Club, Delaware. General green-keeping. Joe Williamson.

September 9. Scioto Country Club, Columbus. Soil organic matter. George M. McClure.

October 12. Urbana Country Club, Urbana. The making of compost. George M. McClure.

November 12. Elks Home, Columbus. Open discussion on general subjects.

December 17. Elks Home, Columbus. Use of peat on golf courses. Wright McCallip.

The average attendance at these meetings was 30, consisting largely of greenkeepers and chairmen of green committees. It is our purpose to continue holding these monthly meetings, on the expressed desire of the greenkeepers themselves. Plans are also under way to establish one of the United States Golf Association Green Section demonstration turf gardens in our district.

The Green Section Committee for 1931 is as follows: Chairman, George M. McClure, York Temple Country Club; vice-chairman, Tom Dempsey, Elks Country Club; executive secretary, Miss Helen Webster, Central Ohio District Golf Association Green Section, 513 Chamber of Commerce Bldg., Columbus; members, F. B. Thomas, Lima Country Club; George Sargent, Scioto Country Club; D. L. Neuman, Army Country Club; D. M. Boude, Miami Valley Golf Club; L. M.

Otis, North Shore Country Club; Fred Hearn, Scioto Country Club; W. B. Sime, MacGregor Golf Club; Lloyd Adams, Bucyrus Country Club; Clarence Young, Springfield Country Club; C. F. Young, Dayton Country Club; S. E. Robison, London Country Club.

Mid-Atlantic Association of Greenkeepers

By William E. Dunt

Our association was organized in 1928 for the purpose of promoting better fellowship among greenkeepers in the Mid-Atlantic states and a better understanding of the science of greenkeeping so that our members might become more proficient and obtain the best results at the minimum expense. Emphasis also is placed on the training and instruction of assistant greenkeepers. During the golfing season our meetings are held on courses in the vicinity of Washington and Baltimore, where problems in greenkeeping are discussed and views exchanged as to the best methods of handling these problems. Our membership consists of greenkeepers, professional-greenkeepers, assistant greenkeepers, chairmen of green committees, and others interested in the upkeep of golf courses. The membership, which numbered 14 at the time of organizing the association, has now increased to 33, coming mostly from the Baltimore and Washington districts.

Our officers for the season of 1930 were: President, Robert Scott, Baltimore Country Club; vice-president, R. P. Hines, Manor Club; secretary, R. Giddings, Gibson Island Club; treasurer, W. E. Dunt, Sherwood Forest Golf Course.

A brief resumé of our meetings held in 1930 is as follows:

February 10. Washington, D. C. Dr. Fletcher, United States Department of Agriculture, gave a talk and demonstration on testing soils.

March 3. Baltimore, Md. Lewis Evans spoke on the methods adopted to control the Japanese beetle on the courses adjacent to Philadelphia.

April 7. Philadelphia, Pa. Inspection of damage caused by the Japanese beetle on golf courses in the vicinity. Attended dinner and meeting of the Philadelphia Association of Golf Course Superintendents.

June 2. Gibson Island Club, Pasadena, Md. An 18-hole match play tournament was held, and in the evening the use of arsenate of lead was discussed at a meeting in the club house.

September 22. Arlington turf garden, Washington, D. C. Participation in the summer meeting of the United States Golf Association Green Section.

October 13. Suburban Club, Baltimore, Md. Annual greenkeepers' tournament.

November 3. Woodholm Country Club, Baltimore, Md. Eighteen holes of golf were played.

The officers of our association for 1931 are as follows: President, R. P. Hines, Manor Club; vice-president, R. Giddings, Gibson Island Club; secretary, W. E. Dunt, Sherwood Forest Golf Course, Annapolis, Md.; treasurer, Dick Scott, Rolling Road Golf Club; publicity committee, O. B. Fitts for Washington and Robert Scott for Baltimore.

Golf Service Bureau of New England

By Evelyn C. Nickerson

The Golf Service Bureau of New England was organized in 1925. Its membership has grown from 14 clubs at the time of its organization, to 60 clubs in December, 1930. Membership is limited to golf and country clubs in the five New England states. The annual dues are \$100 for 18-hole courses and \$50 for 9-hole courses. Its purpose is to reduce, by cooperative effort, the cost of maintenance of golf clubs, to promote the interests of golf, to improve playing conditions, and generally to accomplish such ends as will improve the business administration of the clubs and lessen their costs.

Group buying of merchandise means saving in its purchase cost. The saving to an individual club through group buying depends on the use made by the club of the purchasing organization. In many instances our member clubs have saved in this manner over five times their annual dues in the Service Bureau. Today trade discounts on purchases are generally on a quantity basis; thus it is that cooperative buying effects savings to individual clubs. But greater than the saving in cost is the avoidance of loss that would follow the purchase of inferior or unsuitable goods. Our bureau saves more money for its members in the quality of the goods it buys, in its knowledge of what to buy, and in the kinds of goods that it tries to persuade clubs not to buy, than it does in prices. Particularly is this true in the purchase of seed. All seed purchased by our bureau is first submitted for analysis to one of the few seed laboratories in the country equipped to make reports on the quality of grass seeds. Our purchases of golf course merchandise include such items as seeds, fertilizer, chemicals, machinery, and auto supplies; for the club house, items such as kitchen equipment, house and locker room furniture, draperies, linen, blankets, and table silver; for the club, items such as gasoline, prizes, pipe, printing, and shrubs. I must also not overlook favorable mention of our "cat and dog" department, which has become very popular as a means of exchanging used machinery and surplus material and machinery between member clubs.

Another important feature of our activities is the bureau's service as a clearing house for information on the many problems relative to costs, methods, kinds of merchandise most suitable for a golf course, caddy welfare problems, and employment placement.

Events which are looked forward to with keen interest are our annual machinery demonstration and the meetings at the United States Golf Association Green Section demonstration turf plots which the bureau is helping to maintain at the Charles River Country Club. Our meeting at the demonstration plots on October 5, 1930, was the most enthusiastic of the year.

The officers of the bureau are as follows: Chairman, Frederic C. Hood, Kittansett Club; vice-chairman, Harry P. Hood, Tedesco Country Club; treasurer, J. L. S. Barton, Winchester Country Club; manager, Evelyn C. Nickerson. The directors are J. L. S. Barton, Winchester Country Club; E. H. Boody, Portland Country Club; Eugene H. Clapp, Tedesco Country Club; Charles H. Cross, Unicorn Country Club; Ezra Dixon, Jr., Metacomet Golf Club; Malcolm Farmer, Shuttle Meadow Club; Oscar M. Flather, Nashua Country Club; Raynor M. Gardiner, Nantucket Golf Club; Frederic C. Hood, Kittansett Club; Harry P. Hood, Tedesco Country Club; M. Fred O'Connell, Oak Hill Country

Club; E. J. Poor, Lake Sunapee Country Club; Leon B. Rogers, Brae Burn Country Club; Frank H. Wilson, Charles River Country Club; ex-officio, Herbert Jaques, The Country Club, and Alvah W. Rydstrom, Norfolk Golf Club. The offices of the Golf Service Bureau of New England are rooms 88 and 89, 50 State St., Boston, Mass.

Western New York District Greenkeepers' Association

By Arthur Stephen

The first meeting of our association was held at Grover Cleveland Park, in Buffalo, in March, 1928. That park is the old Buffalo Country Club. Twenty-eight members were present, and the following officers elected: President, Robert Henderson, Buffalo Country Club; vice-president, W. F. Radford, Niagara Falls Country Club; treasurer, Arthur Stephen, Grover Cleveland Park Golf Course; secretary, Al Schardt, Wanakah Country Club. The directors were: Frank Bulges, Niagara Falls Municipal Golf Course; A. W. Kroll, East Aurora Country Club; Custis Stallman, Durand Eastman Park Golf Course; James Connaughton, Monroe Country Club; William Philipson, Willowdale Country Club. Mr. Henderson remained president for three years, and is now a director; Mr. Schardt was secretary for three years and is now president. The membership has increased to 34, consisting entirely of greenkeepers, from a territory extending from Buffalo to Rochester, Jamestown, Niagara Falls, and Welland, Ontario.

Our meetings are held monthly at the different golf courses represented in the association. The meetings are purely educational, consisting mostly in exchange of opinions and narration of experiences in greenkeeping. We held one meeting in 1930 jointly with the chairmen of green committees; this meeting was of great benefit, particularly in that it afforded an opportunity for the discussion of matters pertaining to the golf course budget. Another important meeting was held July 2 on the United States Golf Association Green Section demonstration turf garden located on the grounds of the Niagara Falls Municipal Golf Course. Mr. Depew, chairman of the United States Golf Association Green Section and president of the Western New York Golf Association, which latter organization is financing the garden, spoke at the meeting and pointed out the values of the demonstration gardens in furthering cooperation between greenkeepers, green committees, and technical specialists. Mr. Welton, of the United States Golf Association Green Section, then explained the garden and pointed out results that were already apparent even though the garden was only a year old. The meeting was attended by over 40, composed mostly of greenkeepers, who showed keen interest in the results of the work on the garden.

We have not yet held a machinery demonstration but are planning on one for 1931.

The officers for 1930 were: President, Robert Henderson, Country Club of Buffalo; vice-president, Arthur Stephen, Erie Downs Country Club; treasurer, William Philipson, Willowdale Country Club; secretary, Al Schardt, Wanakah Country Club; directors, C. Stallman, Durand Eastman Park Golf Course; F. Nichols, Meadow Brook Club; W. T. Radford, Niagara Falls Country Club; James Connaughton, Monroe Golf Club.

The officers elected for 1931 are as follows: President, Al Schardt, Wanakah Country Club; vice-president, Frank Bulges, Niagara Falls Municipal Golf Course; treasurer, James Connaughton, Monroe Country Club; secretary, Arthur Stephen, Erie Downs Golf and Country Club, Bridgeburgh, Ontario; directors, F. Nichols, Meadowbrook Golf and Country Club; W. F. Radford, Niagara Falls Country Club; Robert Henderson, Country Club of Buffalo; James Connaughton, Monroe Country Club.

Ontario Greenkeepers' Association

By W. J. Sansom

In October, 1924, on the invitation of C. H. L. Knuth, then secretary-manager of the Weston Golf Club, a meeting of representatives of various other golf courses was held at that club, and the Ontario Greenkeepers' Association was then organized. The original membership was 11, but it has since increased to 27, all of whom belong also to the National Greenkeepers' Association of America. The officers and executive committee of our association have remained the same since the date of organization, and are as follows: President, W. J. Sansom, Toronto Golf Club; secretary-treasurer, H. Hawkins, Lake View Golf and Country Club, Route 1, Port Credit, Ontario; executive committee, H. Lloyd, Rosedale Golf Club, A. McCullum, Scarboro Golf and Country Club, William Kirby, Lambton Golf and Country Club, C. Freeman, Toronto Hunt Club, and J. Stanfield, Mississauga Golf and Country Club. The annual meeting is held on the second Tuesday of January.

The purpose of the organization is to advance the science of green-keeping, maintain a closer fellowship among the greenkeepers of the district, accumulate practical knowledge on the problems of green-keeping with a view to promoting more efficient and economical maintenance of golf courses, and serve as an agency through which members may obtain employment. We hold educational meetings from time to time in which specialists from the agricultural college at Guelph assist; also regular monthly meetings during the summer on the various golf courses, at which discussions of turf problems yield very helpful results. The different clubs are very generous in providing us with a room and luncheon at these meetings. We are often called upon for advisory service, from which the smaller clubs especially profit. We are also often asked for advice through the mail, and the inquiries are always given prompt attention. Our winter meetings are held at the Sons of England Hall, Toronto, the second Tuesday of each month. These are very helpful from an educational standpoint. A greenkeeper is invited to prepare a paper to be presented at the meeting, and this serves as a basis for a discussion. We do not issue any publication of our own, but the local papers and occasionally the *Canadian Golfer* lend publicity to our activities. Once in two years a machinery demonstration is held, our last having been in September, 1930, at the Royal York Golf Club, where everything in the way of tractors, machinery, and equipment for the upkeep of a golf course was represented. As few of our greenkeepers play golf we have not had occasion to hold any tournaments.

Our membership is confined to greenkeepers and greenkeepers' assistants, while at the same time we strive to enlist the cooperation

of green committees, secretary-managers, professionals, and stewards at the various clubs in our activities, as it is quite essential that all work in close touch one with another if the best interests of the clubs are to be served. After all, we are all working toward the same ends, namely, to give the players the best course possible, the steward the best service in the club house, the professional the best assistance in his shop, the secretary-manager the best help in his office, and the green committee the utmost economy possible. Our territory covers the Province of Ontario.

Greenkeepers' Club of Western Pennsylvania

By John Quail

Early in 1926, a few of Pittsburgh's prominent golf course superintendents realized the benefits to be derived from an organization of the greenkeepers of the district. With this thought in view they questioned the other superintendents of the district and everywhere were met with the same answer, "Fine; go ahead and we will follow." Such was the beginning of the Greenkeepers' Club of Western Pennsylvania. On March 17, 1926, the club was organized and a constitution and by-laws were drawn up. The officers elected were: President, John Pressler, Allegheny Country Club; vice-president, John McNamara, Pittsburgh Field Club; secretary-treasurer, Charles Nuttall, Fox Chapel Golf Club. There were 12 members in the original club, and it has since grown slowly but surely, until every eligible greenkeeper in the district is a member. At first the by-laws excluded the professional-greenkeepers, but have since been changed to permit them also to belong.

The club meets monthly in the Fort Pitt Hotel, Pittsburgh, on the second Monday of the month, at which time all business is attended to and plans made for the good of the club. Other activities consist of joint meeting of greenkeepers and chairmen of green committees, equipment demonstrations, and visits to different clubs. The meetings are forums where the members can exchange ideas and discuss topics of interest and work for the betterment of their clubs. The annual meeting is held on the second Monday of December when officers for the ensuing year are elected.

Mr. Pressler has been president of the organization since the beginning; and up to November, 1930, at which time he was seriously injured by an automobile, he missed only two meetings of the club, and both times it was strictly unavoidable. Mr. Jacob was appointed to fill the vacancy caused by the death of John McNamara, one of the organizers, and was elected to serve a full term in 1930 and has since been reelected for 1931. The writer was appointed secretary-treasurer in 1927 to fill the unexpired term of Mr. Nuttall. He has since been reelected for the past four years.

The membership includes the western Pennsylvania district, which covers a radius of about 20 miles. Several more members are expected to become affiliated in 1931.

The officers for 1931 are as follows: President, John Pressler, Allegheny Country Club; vice-president, G. F. Jacob, Stanton Heights Golf Club; secretary-treasurer, John Quail, Highland Country Club, West View, Pittsburgh, Pa.

Philadelphia Association of Golf Course Superintendents

By M. E. Farnham

Our association was organized September 14, 1925, with 24 members. The membership is now 51, coming from the Philadelphia district in Pennsylvania and adjacent New Jersey. Active membership is confined to greenkeepers; men other than greenkeepers who have rendered the profession special service are eligible for honorary membership. The officers of the association for 1930 were as follows: President, L. M. Evans, Cedarbrook Country Club; vice-president, Eugene MacFarland, Marble Hall Links; secretary, M. E. Farnham, Philadelphia Country Club; treasurer, R. C. Lane, Bala Golf Club.



Philadelphia Association of Golf Course Superintendents

The purpose of the organization is to advance the science of golf course maintenance and its related fields in our district, and through frequent meetings to provide a medium for the exchange of ideas and experiences, and to promote cooperation. Meetings are held monthly, and more often when occasion warrants, usually on the first Monday of the month. The annual meeting is usually the third or fourth Monday in January. Programs for some of the meetings are of an educational character, speakers from outside of the association being introduced. At other meetings the program is informal; it is considered desirable to get together regularly even in the absence of special attractions. Three or four of the meetings are held at a restaurant in Philadelphia during the winter; the rest of the year the meetings are held at clubs in the district, an afternoon of golf or inspection being followed by dinner and the regular meeting. A tournament is held each fall to compete for the Howard C. Toomey cup and such other prizes as the association provides. The association sponsored a United States Golf Association Green Section demonstration garden, which was laid out at the Spring Mill Course, Philadelphia Country Club, in September, 1930. The Philadelphia Green Section and Service Bureau is furnishing the financial support for this garden.

In 1930 we held 12 meetings, which were addressed by the following: John Monteith, Jr., and Kenneth Welton, United States Golf Association Green Section; G. C. Cunningham, Philadelphia Green Section and Service Bureau; C. K. Hallowell, agricultural county agent; H. B. Sprague, New Jersey Agricultural Experiment Station; H. B. Musser, Pennsylvania State College.

Our officers for 1931 are: President, T. E. Dougherty, Springhaven Club; vice-president, Eugene MacFarland, Marble Hall Links; secretary, M. E. Farnham, Philadelphia Country Club, West Conshohocken, Pa.; treasurer, R. C. Lane, Bala Golf Club.

Detroit District Golf Association Green Section

By J. McKae Hartgering

The Detroit District Golf Association was founded in 1915. It now consists of some 43 member clubs, which are located within a radius of 60 miles from Detroit, including several near-by clubs in Canada, although the membership is open to any club within an approximate radius of 75 miles from Detroit. The officers and directors of the Detroit District Golf Association re-elected for the year 1931 are as follows: President, W. G. Curtis; honorary president, John S. Sweeney; first vice-president, L. J. Lepper; second vice-president, N. A. Hawkins; third vice-president, Hon. Charles C. Simons; treasurer, C. H. Haberkorn; secretary, John W. Bryant, Jr., 2843 East Grand Boulevard, Detroit, Mich.

The Detroit District Golf Association is governed by the officers and a board of 15 directors. The president appoints from the directors a committee chairman to take charge of each of the main activities, which include caddie welfare, club relations, green section, handicap, publicity, membership, public links, and tournament. The green section, of which I have been chairman for several years, is organized with the member clubs, and each member of the green committee of the several member clubs receives notice of the meetings. We now have about 150 members, all of whom are on the green committees of member clubs. The calls on our green committee for advice are numerous. If the problem presented in any case is such that we can not answer it offhand, advice is sought from some club which has had experience in the matter. A very large amount of work of this kind has been done during the past few years.

We do not have any regular meeting dates, but hold a number of meetings each year at various clubs. Each meeting is held in the evening, following a game of golf and a dinner. Some meetings are called to discuss a particular subject. For example, at one meeting last year we discussed the subject of watering fairways, and brought out some very instructive information. This was tabulated and distributed to member clubs. A club is free to bring up any subject it desires at a meeting. Five of these special meetings were held last year, several of them with the greenkeepers; the subjects discussed were equipment and maintenance of courses, fertilizers, grasses, watering fairways, and the three United States Golf Association Green Section demonstration turf gardens. Our association is maintaining these turf gardens on three different representative soil types found in the district. The gardens are for the benefit of members of green committees and greenkeepers. On June 30 we cooperated with the United States Golf Association Green Section in holding a meeting on the turf garden located on the course of the Detroit Golf Club. Several visitors from Toledo joined the large attendance of local greenkeepers and members of green committees in examining the numerous experimental plots on the garden. The work was explained to them by a representative of the U. S. G. A. Green Section.

Michigan and Border Cities Greenkeepers' Association

By William Smith

Our association was organized in the spring of 1925, with 15 members. The membership, which consists of greenkeepers and greenkeepers' assistants, has since been increased to over 40. To qualify as a regular member a person must be in charge of a golf course or must superintend golf course construction. We also have associate membership, to which greenkeepers' assistants who have served at least two years under a competent greenkeeper are eligible. Chairmen of green committees are honorary members of the association, and are welcomed at all of our meetings.

The association covers all of Michigan and the border cities of Ontario. Its members are at present located mostly within 30 miles of Detroit. Its purpose is to further the science of greenkeeping. On an average 12 meetings are held during the year. The meetings commence in the spring and are usually held at one of the golf clubs in the district, near the beginning of the month. A subject of special interest is arranged for consideration at each meeting. Any member of the association is, however, at liberty to bring up for discussion at any meeting any of his problems or to call them to the attention of the directors at any time. Members usually bring their golf clubs and play over the course after the meeting. In October of each year an annual tournament is held, at which prizes are offered.

The officers of the association are at present as follows: President, H. E. Shave, Oakland Hills Country Club; vice-president, William Beaupre, Lochmoor Club; secretary-treasurer, William Smith, Red Run Golf Club; directors, John Gray, Essex County Golf Club; F. Sherwood, Birmingham Golf Club; E. Haymen, The Country Club of Detroit, and H. F. Godwin, Franklin Hills Country Club.

Greenkeepers' Association of Southern California

By James A. Lyon

Our association was formed in 1926 by six greenkeepers as an outgrowth of one that disbanded in 1921. The membership represents about 35 of the leading golf courses of California between San Diego and Del Monte. The association has met once each month during 1930 to discuss current greenkeeping problems in an informal manner. This year it is working towards an exhibit of golf course machinery. It has also taken steps to obtain an experimental station, and has interested the Southern California Golf Association in this enterprise. The most tangible evidence of the success and activity of the Greenkeepers' Association of Southern California is its monthly magazine, *The Pacific Greenkeeper*, published at 910 East Hermosa Drive, San Gabriel, Calif. This is distributed free of charge to the course superintendents and chairmen of green committees in British Columbia, Washington, Oregon, California, and Arizona. Since its inception the publication has been self-supporting.

The officers of our association for 1930 were as follows: President, Robert S. Greenfield, Wilshire Country Club; vice-president, C. W. Hazlett, Bel-Air Country Club; secretary, James A. Lyon, Flintridge Country Club, Pasadena, Calif.; treasurer and managing editor of *The Pacific Greenkeeper*, W. E. Langton, San Gabriel Country Club, San Gabriel, Calif.

Philadelphia Green Section and Service Bureau

By H. Kendall Read

The activities of the Philadelphia Service Bureau date back to March, 1921. At that time it was operated separately, but later merged with the Philadelphia Green Section and carried on under its present title. Its purpose is to make possible more efficient buying and to have available for its members information on all matters affecting course maintenance. Its membership consists primarily of members of green committees, although all officers and members of clubs are eligible also. Our territory embraces the Philadelphia district and adjoining sections of New Jersey, but we have member clubs from more distant points, to whom we are happy to extend our service.

We issue bulletins covering timely subjects as they arise, but at no fixed dates. While we have never had any regular schedule of meetings we have held many sessions that have proved educational and most helpful. Various members of the United States Golf Association Green Section and the United States Department of Agriculture have attended these sessions and have given information and advice of the most helpful character. We owe much to these men for their generous cooperation. Our principal source of information on all technical questions is the United States Golf Association Green Section, and without its help we could not hope to operate as successfully.

The officers and executive committee of the Philadelphia Green Section and Service Bureau are as follows: President, Otto W. Schaum, Whitemarsh Valley Country Club; vice-president, George W. Satterthwaite, Huntingdon Valley Country Club; treasurer, Raymond M. Slotter, Philmont Country Club; secretary, Edward P. Challenger, Merchantville Country Club, Merchantville, N. J.; chairman Service Bureau, H. Kendall Read, Country Club of Atlantic City. Other committee members are Frank H. Chapman, Whitemarsh Valley Country Club, and Willis F. Manges, Springhaven Club. The office of the association is at 803 Harrison Building, Philadelphia, Pa.

Long Island Greenkeepers' Association

By Charles Walker

Our association has only recently been formed, and our membership is now only about 30 but we hope to increase it materially. During 1930 we held meetings the second Tuesday of each month at different golf clubs, where the course was critically inspected and the various problems which it presented were informally discussed. Our plans are to arrange for a series of lectures to be delivered by experts in golf course maintenance and turf management, also to arrange for social meetings and competitions, and in general to promote a closer fellowship, both social and professional, among greenkeepers and assistants in the Long Island district.

The officers of the Long Island Greenkeepers' Association for 1930 were as follows: President, Abner E. Affeldt, Glen Oaks Golf Club; vice president, A. Lunstrum, Crescent Athletic Club; secretary, Allan Jarvis, Northport Golf Club; treasurer, Ben Zukosky, Links Golf Club; trustees, J. Dishington, Creek Club, and H. Williams, Deepdale Golf Club.

The following officers have been elected for 1931: President, Edward O'Brien, Fresh Meadow Golf and Country Club; vice-president, Eugene Early, Hempstead Country Club; secretary, Harry Williams, Deep Dale Golf Club, Great Neck, L. I.; treasurer, Ben Zukosky, Links Golf Club; trustees, Abner E. Affeldt, Glen Oaks Golf Club, and Sidney Black, Engineers' Country Club.

Wisconsin Greenkeepers' Association

By C. L. Bingham

Our association is the spontaneous outgrowth of the first short course for greenkeepers held at the University of Wisconsin, in February, 1930. Its active membership is confined to greenkeepers on golf courses in the State of Wisconsin. Assistant greenkeepers and members of green committees are admitted as associate members. Others who wish to encourage the movement join as contributing members.

The formal organization meeting was held at Blue Mound Country Club, Wauwatosa, in March, 1930, where we were addressed by the chairmen of the green committees of Blue Mound Country Club and Brynwood Country Club. The committees appointed at that time engaged suitable legal help to draw up articles of organization and by-laws, which were duly filed with the secretary of state of Wisconsin and the register of deeds of Milwaukee County.

The first officers were: President, Paul Brockhausen, Blue Mound Country Club; first vice-president, John S. Bone, Blackhawk Country Club; second vice-president, Charles L. Ream, Green Bay Country Club; secretary and treasurer, Charles L. Bingham, Municipal Golf Course, Beloit; director for one year, C. B. McCann, Hillcrest Country Club; director for two years, Robert Michaels, Oconomowoc Country Club; director for three years, Robert E. Farmer, Brynwood Country Club.

During the playing season of 1930 three additional meetings were held. The first was in May, at Blackhawk Country Club, Madison, where the main address was delivered by A. S. Dahl, on snow-mold. Another meeting was in July, at Hillmoor Golf Club, Lake Geneva, where Wesley Merrifield and Messrs. Harrison and Ream, of the United States Golf Association Green Section's Mid-West turf garden, answered questions. In September a greenkeepers' tournament was held at Lawsonia Country Club, Green Lake. The average attendance at the 1930 meetings was 41. The practice at these summer meetings has been to take the visitors on their arrival on an inspection of the course at which they were guests. In all cases there have been interesting work and seasonal problems. After these inspections lunches were served, followed by the business meetings and discussions. We have received many invitations to meet at courses in all parts of the state.

The purpose of our association is educational. It largely centers around the short course for greenkeepers at the State University. Two sessions have been held, one in February, 1930, at which 58 were registered, and another in the same month of 1931, at which the registration was 62. The program for these short courses is varied and practical. They bring the greenkeepers in personal contact with those at the experiment station whose training and every-day work are

along lines allied with the problems the greenkeeper must meet and solve to the satisfaction of the multitude of golf players.

The officers for 1931 are the same as for 1930, except that Peter Sieber, Winneshick Golf Club, has been elected as a director to fill the vacancy caused by Mr. Michaels' moving out of Wisconsin.

Atlanta Green Section

By Thomas P. Hinman

Our organization has held its regular monthly meetings until May, 1930, but for the remainder of that year, due to illness of its president and preoccupation of its other officers, has been unable to get together for the other meetings that had been anticipated. It was founded for the purpose, broadly speaking, of distributing to its members information bearing directly upon the problems of greenkeeping in the southeastern states. Its membership consists of greenkeepers, green committees, professionals, and presidents of golf clubs. Its officers for 1930 were the following: President, Thomas P. Hinman, Druid Hills Club; vice-president, Howard H. Beckett, Capital City Club; secretary and treasurer, Warren Granade, Ansley Park Club, Atlanta, Ga.

National Association of Greenkeepers of America

By John Quail

Our association was organized on September 13, 1926, at a meeting of 31 greenkeepers who had been called together for the purpose, held at the Sylvania Golf Club, Toledo, Ohio. John Morley was the originator of the idea which resulted in the formation of the association. The officers elected at that meeting were as follows: President, John Morley; vice-president, John McNamara; secretary, William J. Rockefeller; treasurer, Alexander McPherson.

The following month a meeting was held in Chicago, where 15 more members were enrolled. Meetings were also held in Cleveland, Detroit, and Pittsburgh, where the membership was put over the 100 mark. Other meetings were held in various sections of the United States and Canada, until the membership was boosted to the 500 mark. The members were picked for quality and not for quantity, as the association wanted to boast of having the cream of the country on its roster. The membership requirements were made rigid enough to exclude the novice but broad enough to include the man who had the interests of greenkeeping at heart.

The association holds its annual meeting about the 1st of February, at which officers are elected and pertinent business attended to. A golf show is also held, which has become the largest show of its kind in the world. The educational conference is also the best that can be planned, with experts and scientists on the program to tell the delegates how they can better run their courses and to offer suggestions for the advancement of greenkeeping.

The association publishes its notices and articles through the *National Greenkeeper*. This paper is its official organ.

The main activities of the association are the golf show, educational conference, and district meetings.

The officers for 1930 were as follows: President, John Morley, Youngstown Country Club; first vice-president, John MacGregor, Chi-

cago Golf Club; second vice-president, L. M. Evans, Tam O'Shanter Golf Club; third vice-president, William J. Sansom, Toronto Golf Club; fourth vice-president, George Davis, Big Springs Golf Club; fifth vice-president, Robert J. Hayes, Pelham Country Club; secretary, John Quail, Highland Country Club, 426 Highland Avenue, West View, Pittsburgh, Pa.; treasurer, Fred A. Burkhardt, Westwood Country Club. The only changes in the 1931 officers are: Second vice-president, William J. Sansom; third vice-president, Robert J. Hayes; fifth vice-president, John Anderson, Crestmont Country Club.

Greenkeepers' Association of Westchester County

By William Conroy

Our association, which consists of greenkeepers and foremen who have served under a competent greenkeeper for three or more years, was organized November 16, 1925. Its membership is now 24. The district it covers is the golfing district of Westchester County, N. Y. It meets the first Monday of each month. In the summer the meetings are held outdoors on different golf courses. A round of golf is first played, which is followed by an inspection of the course. Dinner is then served at the club house, and afterwards a lecture is delivered pertaining to the maintenance of golf courses. The lecture is given by one of the members selected by the director of lectures, on any subject he wishes to choose.

The officers for 1930 were as follows: President, William A. Grover, Gedney Farm Golf Club; first vice-president, Sidney Black, Broadmoor Country Club; second vice-president, Joseph Schaub, Bonnie Briar Country Club; treasurer, William Sterling, Dutchess Golf and Country Club; secretary, Thomas Hayes, Westchester Hills Golf Club; director of lectures, Hugh McGill, Oak Ridge Golf Club. For 1931 the following officers have been elected: President, Hugh McGill, Oak Ridge Golf Club; first vice-president, Joseph Schaub, Bonnie Briar Country Club; second vice-president, Joseph Butler, Siwanoy Country Club; director of lectures, Thomas Winton; financial secretary, William Conroy, Oak Ridge Golf Club, Tuckahoe, N. Y.

Greenkeepers' Association of Minnesota

By Erich W. Pahl

Our association was organized in April, 1928, out of a realization of the necessity for a permanent organization in Minnesota and parts of neighboring states. The purpose of our organization is to study the various problems concerning the greenkeeping of today and to help one another with our local problems. We often give advisory service when requested by others outside of our organization. We have two classes of members. The regular members are greenkeepers and assistant greenkeepers who have had at least 3 years of experience in actual work on golf courses in the United States or Canada; the junior members are those engaged in greenkeeping who do not qualify as regular members. Junior members have no voice in business meetings, but otherwise participate in the privileges of the association. The dues are \$3 a year for both regular and junior members. The association was organized with 17 charter members, and now has 26 regular members.

Our annual meeting is held the first Thursday in April, and regular meetings are held the first Thursday of each month. At the time of the National Open Tournament in July we held a meeting in cooperation with the United States Golf Association Green Section on the demonstration turf garden maintained at Interlachen by means of contributions from various local clubs in the district. In the evening our association held a meeting at the Nicollet Hotel, Minneapolis. Preceding the afternoon meeting Mr. Erickson gave a luncheon for greenkeepers at the Minikahda Club. Special meetings are called from time to time as particular problems develop on any course.

We are planning to increase the membership during the coming year, and to make several trips during the summer that will cover as many golf courses as possible in Minnesota and adjoining states. Some of our playing members have held very interesting golf matches at our meetings, and at our annual meeting in April, 1931, following the dinner, the question of holding a tournament will be discussed.

The officers of the association for 1930 were the following: President, Charles Erickson, Minikahda Club; vice-president, Leo J. Feser, Woodhill Country Club; treasurer, Victor E. Larson, Minneapolis Golf Club; secretary, Erich W. Pahl, Interlachen Country Club, Hopkins.

The officers for 1931 will be elected at our annual meeting in April.

New Jersey State Golf Association Green Section

By Robert F. Arnott

The green section of the New Jersey State Golf Association was organized in March, 1928, for the purpose of cooperating with the United States Golf Association Green Section and the Metropolitan Golf Association Green Section in the study of turf, and to make the results available to greenkeepers and green committees of golf clubs. The green section is a part of the New Jersey State Golf Association and is primarily devoted to the interests of its member clubs, although representatives from other clubs are welcome to its meetings, information and service.

A demonstration turf garden at the Upper Montclair Country Club and an experimental turf garden at the New Jersey State Agricultural Experiment Station at New Brunswick have been established in cooperation with the United States Golf Association Green Section.

Meetings are held twice a year to bring greenkeepers and members of green committees together. One of these meetings is held in the spring, either May or June, and the other is held in September or October. The place of meeting is either the Upper Montclair Country Club or the State Experiment Station at New Brunswick, where the results obtained in the demonstration or experimental turf gardens are discussed in the afternoon. A dinner meeting is held in the evening either at the club house or at a hotel in New Brunswick, where two or three speakers take up problems of interest to greenkeepers, and the meeting is then open for questions and discussion.

The territory covered by our work embraces the northern part of the State of New Jersey, and we have a number of visitors at the meetings from New York State and other more distant places, while

most of the clubs in the southern end of New Jersey belong to the Philadelphia Green Section.

As an organization we have been instrumental in obtaining financial assistance necessary for the work carried on at the turf garden at the State Experiment Station.

Our green-section committee includes the following: C. W. McGraw, Springdale Golf Club; J. R. Monroe, Baltusrol Golf Club; W. D. Vanderpool, Morris County Golf Club; H. B. Sprague, New Brunswick; R. F. Arnott, Upper Montclair Country Club, chairman.

Connecticut State Greenkeepers' Association

By R. B. Burnham

Our association was organized in February, 1923. Its members are greenkeepers and assistant greenkeepers in Connecticut. The membership is now 26, of whom 6 are charter members. The aims of the association are to promote the utilitarian and esthetic purposes of all Connecticut golf clubs by a better understanding of problems pertaining to the maintenance and upkeep of a golf course, through the exchange of practical information and through organized study, and also to foster a feeling of good fellowship among greenkeepers in Connecticut. To accomplish these aims regular monthly meetings are held. Invitations are extended to college professors and to representatives of state experiment stations and also to implement and fertilizer companies to address these meetings on technical subjects. Practical demonstrations are also held to show the use of improved implements and machines and the results from the use of new and standard fertilizers. Our association has banquets, tournaments, and excursions to points of interest and instruction.

Our annual meeting and election of officers is held early in February. The officers for 1930 were as follows: President, J. W. Whitehead, Middletown Golf Club; vice-president, I. Pierson, New Haven Municipal Club; treasurer, O. Nelson, Farmington Country Club; secretary, R. B. Burnham, Avon Country Club, Hartford, Conn.

The officers for 1931 will be elected the first meeting in March.

Rhode Island Greenkeepers' Association

By R. N. Peckham

Our association was the outcome of a conference called May 26, 1930, by Dr. B. E. Gilbert, director of the Rhode Island Agricultural Experiment Station, at which a demonstration of equipment was conducted by several leading New England manufacturers' agents and an inspection made of the grass plots at the experiment station. To Woodworth Bradley is due credit for calling the first meeting of the association, which was held at the Bonnet Shore Golf Club on June 26. The following officers were elected: President, R. Wallace Peckham, Suchuest Golf Club; vice-president, Lawrence Hay, Agawam Hunt Club; treasurer, Thomas Galvin, Rhode Island Country Club; secretary, Martin Green, Wannamoisett Country Club, Providence, R. I. The next meeting was held July 21 at the Sachuest Golf Club, Newport. There were present 26 members, including two associate members, who were advertising agents. Regular members are greenkeepers only; associate members are golf course supply and equipment agents and assistant greenkeepers. The August meeting was held at

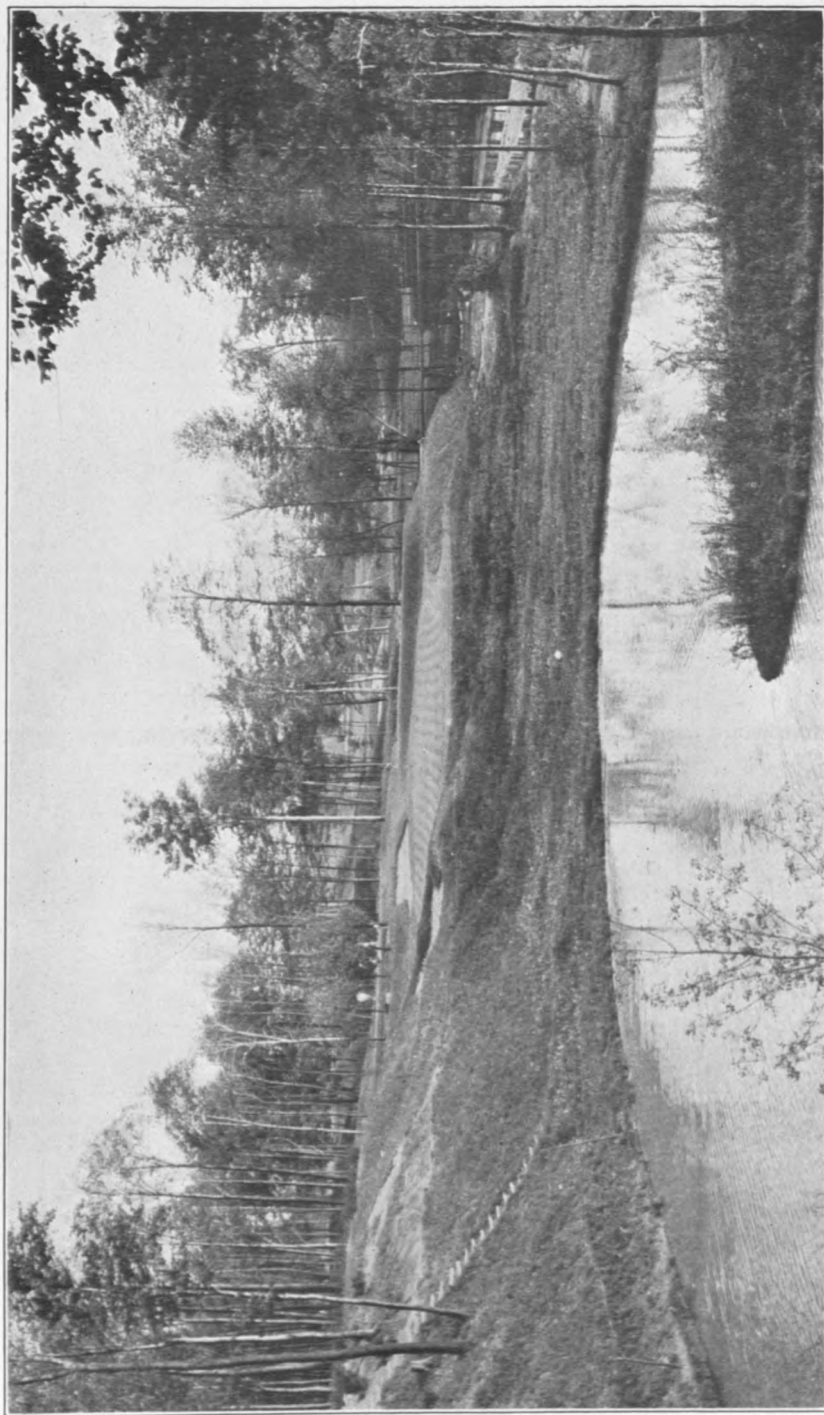
the Misquamicut Golf Club, Watch Hill, at which the 15 members present competed for prizes offered by Woodworth Bradley. The next meeting was held at the Wanumetonomy Golf Club and the Newport Golf and Country Club, where both courses were played. Following that we held a meeting at the Agawam Hunt Club, which was participated in by the New England association also. We arranged the next meeting at the Narragansett Hotel, Providence, and invited the New England and Connecticut greenkeepers to attend. Dr. T. E. Odland and Dr. H. F. A. North, of the Rhode Island Experiment Station, addressed the meeting on the subject of the types of grasses best suited for golf courses. Dr. North told of a visit to Canada and the methods of producing and cleaning bent grass seed. We expect in March, 1931, to adopt by-laws similar to those of the Greenkeepers' Club of New England. We also admit to membership greenkeepers of less experience, since they are the ones who can best profit by contact with experienced greenkeepers and by the educational programs which we shall present during the winter months. The district covered by our association includes the State of Rhode Island only. New officers will be elected at our March meeting.

Cleveland District Green Section

By Robert E. Power

The Cleveland District Green Section was organized in 1923. Its purpose is to furnish information only to clubs in the Cleveland district, which comprises an area of about 3,000 square miles. In this district there are about 60 clubs actively interested in golf course maintenance. We do not hold educational meetings, machinery demonstrations, or tournaments, neither do we put out a publication of our own. Occasionally the *Cleveland District Golfer* carries some information relating to our work, but the green section here is so well established that the work it is doing is very well known throughout the district. We do not give advice on purchases, but we aim to give complete information, and we keep a file of the latest and most up-to-date equipment catalogs and their prices, also prices on seed and fertilizers, so that the information is available to greenkeepers and chairmen of green committees when they wish to avail themselves of it. In other words, the green section office is more or less a reference room. In addition to the manufacturers' printed matter and price lists, we keep a record of the orders placed by the clubs, the quantities and kind of materials ordered, and prices, which is of great value to clubs in the market for new material. While we make a record of the purchases, we do not influence the clubs as to whom they wish to buy from, but we do try to see that prices are stabilized, so that member clubs purchasing material may secure the lowest market prices consistent with the quality furnished from reputable sources.

The 1931 officers and members of the Cleveland District Green Section are as follows: Chairman, Robert E. Power, Westwood Country Club; vice chairman, Myron H. Wilson, Jr., Kirtland Country Club; secretary, Marie J. Fox, 405 Caxton Building, Cleveland; members, C. J. Arganstine, Mahoning Valley Country Club; Dr. R. H. Birge, Mayfield Country Club; R. G. Little, Lorain Country Club; W. T. Redmond, Beechmont Country Club; G. T. Whitmore, Jr., Ridgewood Golf Club. The greenkeepers' committee consists of Harry A. Burkhardt, Manakiki Country Club, R. T. Zink, Shaker Heights Country Club, and A. G. Fovargue, Westbrook Country Club.



Seventeenth hole (125 yards), Westwood Country Club, Cleveland, Ohio



A husbandman who had a quarrelsome family, after having tried in vain to reconcile them by words, thought he might more readily prevail by an example. So he called his sons and bade them lay a bundle of sticks before him. Then having tied them up into a fagot, he told the lads, one after another, to take it up and break it. They all tried, but tried in vain. Then, untying the fagot, he gave them the sticks to break one by one. This they did with the greatest ease. Then said the father: "Thus, my sons, as long as you remain united, you are a match for all your enemies; but differ and separate, and you are undone."

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