

amount of water that was applied on the heavily watered turf was more than is usual on most courses, yet it is not unusual to find greens that have been overwatered in which the soil contains more water than was contained in the areas here involved. Putting greens constructed of heavy soil should be watered with especial care, since the soil does not allow the water to drain away quickly and the soil remains soggy for long periods. Water should be applied to greens only when necessary, and this is determined by examination of the soil. It is advisable to keep the soil a little on the dry side, rather than too wet.

When greens are watered moderately much less disease will occur when watered in the morning than in the evening. When water is applied in a reasonable amount in the morning, the turf soon dries, and if dew is present the drying is more rapid than if no water had been applied. When watered in the evening, however, the surface of the soil and the leaves are wetted much earlier than normally wetted by dew, and usually remain wet much longer because the larger amount of water in the soil due to the recent watering encourages an abundance of dew. Therefore turf that is watered in the evening not only is wet earlier in the evening but also remains wet much longer in the morning, thus creating conditions under which fungus development may be rapid for a long period of time.

From the results here given it is evident that the careful use of water greatly diminishes the amount of brownpatch that occurs on putting greens. It is, therefore, apparent that the cost of controlling this disease can be greatly reduced by correct watering.

Books and Pamphlets for the Greenkeeper's Library

By Kenneth Welton

The Green Section has frequently been asked to recommend books and pamphlets of value to those interested in turf culture. Several years ago we included in our exhibits and golf shows a collection of books and pamphlets containing information directly or indirectly related to golf-course maintenance. Many who saw this exhibit asked that a list of books and bulletins of interest to greenkeepers be published. In response to these requests the Green Section published a greenkeeper's library in the Bulletin for June, 1929. The following list is more complete and is a revision of the list published in 1929. Although no attempt has been made to include all the literature in this field the list has been selected to cover a wide range as a basis for a greenkeeper's library. While several books and other publications are offered under each classification it is not intended that all are necessary for the greenkeeper's library. Ordinarily only one book on each subject is needed, together with United States Department of Agriculture publications and state publications which apply particularly to those problems in which the greenkeeper is interested. A large number of the United States Department of Agriculture bulletins and state bulletins are included, which, although dealing chiefly with farm problems, contain information applicable to golf-course construction and maintenance.

The publications are grouped in the list with books first, United States Department of Agriculture bulletins and circulars second, followed by state and other publications. An attempt has been made to include the more recent publications and editions except in cases where older literature is still useful. In some instances the books have been revised many times, and it is well in ordering to mention the date or edition given in the list. The bulletins published by the United States Department of Agriculture may be obtained for a nominal sum from the Superintendent of Documents, Government Printing Office, Washington, D. C. State bulletins may be obtained by writing to the issuing institutions at the addresses given. Books may be procured through dealers in textbooks and technical publications or from the publishing house indicated.

Information regarding all subjects connected with golf course construction and maintenance is distributed through various numbers of the Bulletin of the United States Golf Association Green Section. The purpose of the Bulletin is to digest and publish in a form that the layman can easily understand, information regarding various phases of turf culture. Much of this information is the result of research and experimentation conducted by the Green Section. Work reported by other investigators and information on related subjects such as may be found in the books, bulletins, and circulars contained in this list is included in the publication. In this way Bulletin readers are kept up-to-date in the developments in the field of fine turf culture and may only wish to refer to the various publications given in the list for supplementary reading. Only a few of the Green Section Bulletin numbers are given. In these cases the numbers are the more recent publications and are either wholly or in a large part devoted to the subject under which heading they may appear.

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