

Turf Nurseries: Where a golf course is not equipped with an adequate turf nursery to provide sod for patching purposes, it is well to be reminded that there is no time like the present for breaking a piece of land and cultivating it during the summer months to have it ready for starting a nursery in early September. Turf nurseries may be considered as a form of turf insurance. If something happens to a patch of grass in a putting green, it is very convenient to have readily available a piece of sod which has been maintained like the putting greens that can be lifted and placed in the injured patch.

White Grubs: In May and June the adult beetle (May beetle or June bug) of the common white grub is active and laying eggs for the next brood of white grubs. These well-known beetles spend the night in trees, where they feed on the young foliage. The females fly down to the turf particularly in the early morning hours just before daylight, immediately burrow into the soil and deposit eggs. In a comparatively short time these eggs hatch and the young grubs start feeding on the grass roots, and become most destructive the following year. If they are sufficiently abundant, they greatly weaken or even kill the turf grasses.

These beetles seem to prefer the white or burr oak foliage and therefore are most abundant in groves of these trees. They are also found in such trees as hickory, poplar, elm, willow, locust, ash and walnut. The females ordinarily do not fly far from the trees which they inhabit. Therefore, the area of greatest grub infestation is invariably in the immediate vicinity of trees which have been heavily populated by beetles.

At this season of the year it is well to have members of the green-keeping staff on the lookout for these beetles. The beetles fly to the trees about dusk and, if numerous, with the aid of a flashlight they may be seen flying around the trees during the early evening. Wherever they are observed in large numbers, it is well to anticipate grub injury within the next few months. Important turf in such infested areas may be treated with arsenate of lead at the rate of 5 pounds to 1,000 square feet during the summer to poison the young grubs before they do serious damage to the turf.

REPORT OF THE GREEN SECTION COMMITTEE FOR 1935
Under the Chairmanship of Harold W. Pierce

The Green Section activities for 1935, as in the previous year, were chiefly confined to routine correspondence and advisory service. The heavy rains together with prolonged periods of excessive heat and humidity in the Middle West led to much more than the ordinary injuries to turf in that part of the country. These conditions were responsible for an increase in correspondence with clubs in that area.

In April, after years of faithful service, Mr. Kenneth Welton, who had been on our Green Section staff since 1928, submitted his resignation in order to join the Soil Conservation Service of the United States Department of Agriculture. Mr. Welton's departure was a severe loss to our organization and we wish to take this opportunity to wish him success in his new work.

During the season it was possible to continue experimental work at the Arlington Turf Garden. This work was chiefly in connection with weed control with chemicals, and a study of the influence of air circulation on the development of turf diseases, with the result that effective control of such weeds as clover, chickweed, dandelions and plantain has been accomplished in

fairway turf without destroying the bluegrass and fescue, at a cost for chemicals in many cases well below \$1.00 an acre. Work on a smaller scale was continued on the Mid-West turf garden.

During the winter the Green Section staff took part in the programs of short courses in greenkeeping offered by the State colleges of Iowa, Wisconsin and Michigan, as well as the Annual Convention of the National Association of Greenkeepers of America. During the year the staff took part in the educational programs of local and Green Section organizations in Chicago, St. Louis, Indianapolis, Cincinnati, Detroit, Cleveland, New York, Philadelphia, Baltimore and Washington.

For the benefit of those critics who state that Green Section research work is more important than the other activities of our Association, we are giving below figures for the last nine years showing the percentage of member club dues spent on Green Section work. If consideration is given to the necessary expense of our New York office, it will be seen that if it were not for the income from Championships, materially less funds could have been allotted in the past to Green Section work.

Statement of U.S.G.A. Dues, Green Section Receipts, Disbursements Gross, Disbursements Net, and Percentage Net Disbursements to Dues, from December 1, 1926 to November 30, 1935.

Nov. 30	U.S.G.A. Dues	Green Section Receipts	Disbursements Gross	Disbursements Net	Percentage Net Disbursements to Dues
1927	\$ 29,450.00	\$ 3,627.53	\$ 24,301.14	\$ 20,673.61	70.2
1928	31,350.00	3,565.19	27,099.41	23,534.22	75.1
1929	32,130.00	3,885.79	36,879.26	32,993.47	102.7
1930	32,520.00	3,265.44	41,918.58	38,653.14	118.8
1931	31,770.00	1,802.68	47,032.82	45,230.14	142.3
1932	26,685.00	2,695.63	37,449.36	34,753.73	130.2
1933	23,085.00	3,098.32	29,354.13	26,255.81	113.7
1934	21,760.00	2,410.83	14,396.45	11,985.62	55.1
1935	21,455.00	1,775.04	12,864.41	11,089.37	51.7
Totals	\$250,205.00	\$26,126.45	\$271,295.56	\$245,169.11	98. (Ave)

The Executive Committee of our Association realizes the importance of Green Section research work, and it is their intention to allot to this work as much of our income as is possible.

In order to obtain more funds for this work, our policy was changed this year, by permitting donations from those not connected with our Association. Such contributions amounted to \$405.00. We urge those who are interested to make or obtain such contributions for the future.

In 1935, \$15,750.00 plus the donations of \$405.00 was allotted to Green Section work. At our Executive Committee meeting on November 21, \$15,000.00 was allotted to the Green Section for work in 1936, and in addition there remains the unexpended balance from the 1935 fund, amounting to \$4,660.63, making a total of \$19,660.63 available for 1936 Green Section activity. By not spending our entire appropriation in one year we are able

to budget our expenses and set aside funds to assure the continuance of incomplete experiments.

It is our hope that sufficient funds may be made available so that the Bulletin may again be issued to member clubs, either annually or semi-annually. If this is not possible, we shall advise member clubs by occasional letters of up-to-date information on greenkeeping based on the results of our experiments.