

was also affected. Due to the entire course being brown and dry the disease did not show up much until after the recent rains. Since the rains the damage is very apparent. Heavy rains in June followed by extremely hot weather is in my opinion responsible for the disease and scald on the fairways.

## Hammond Uses Milorganite

By FLOYD HAMMOND, *Greenkeeper*

*Ella W. Sharp Park, Jackson, Michigan*

**I**N REPLY to your questionnaire, I will say that we had some trouble from the webworm on three or four greens. We applied arsenate of lead at the rate of six pounds to each one thousand square feet of turf and had very good results from this treatment, although on one green we had to make a second application.

The rest of the greens had a treatment of arsenate of lead in the month of May. This was applied for chickweed and I think this was the reason that the worms did not affect them.

In regards to brown patch, we had an attack of large brown patch about the 28th of June. We used a spray of corrosive sublimate—three ounces to one thousand square feet. This stopped the fungus for a time but we had two more attacks at intervals of about three weeks. We applied the same treatment each time and did not suffer any serious results from it, but we had a case of sun scald. The grass seemed to die out in quite large areas around the outside of the greens. We had to patch some of them.

Later I noticed that the roots of the bent seemed to be nearly all dead. The grass did not seem to respond to applications of fertilizer and browned up very badly wherever the cups were placed. The greens were very fast on account of this and did not hold pitch shots well. We disced them with a spiked disc, going over them three or four times and topdressed with sharp sand mixed with our regular topdressing about one-third sand. As a result our greens are back to normal now.

We use Milorganite and sulphate of ammonia for our greens, applying very light doses during July and August. Just enough to keep them from going off color as this is a public course and naturally our play is very heavy during these months. We have to apply some fertilizer to keep the grass from getting worn out.

We use about five pounds of Milorganite and two pounds of sulphate at three-week intervals during this period.

Over-watering or over-feeding may have a bad effect on greens in some cases, but I think the weather conditions have a great deal to do with it. We have used the same methods for four years and have had very little trouble with fungus diseases.

In 1930 we had no trouble at all. Our greens were in perfect condition all year. In 1928-29 we had but very little trouble either, so it would seem that the weather or some other factor influences the fungus quite materially.

## Season Caused Gray Hairs

By BERT BARROWS, *Greenkeeper*

*Kenosha Country Club, Kenosha, Wisconsin*

**W**ITHOUT a doubt this season has caused greenkeepers of this country plenty of grey hairs. I know my best friend, Mr. F. T. Neff, Green committee chairman, and myself received our share.

As to your questions on webworm and turf problems, I am answering them as follows:

Our greens were affected more or less with the webworm. We applied five pounds of arsenate of lead to one thousand square feet, using the barrel, following with a light topdressing using no organic fertilizer, but good soil and one part sharp sand. In case the green was damaged we use a small part of Milorganite for quick recovery.

We had no sun scald this summer as the greens were watered all night sometimes up to ten A. M., just removing sprinklers long enough to mow, cutting every day.

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