meantime I sent for a supply of Calogreen, but it was two (2) days later before I applied this and I couldn’t notice then where the disease had spread very much. I then applied Calogreen in solution at the rate of one-fifth pound to one thousand feet and the disease disappeared in a few days and the greens were back in a healthy state again.

Knowing the fungus is a disease affecting the blades of grass mostly, nevertheless I noticed a decided check after applying the sulphate of ammonia as a stimulant when the turf in that state was very beneficial.

The one application of Calogreen was sufficient to remedy a cure in my case as we had been having a dry spell at the time. After treating all my greens the same way I topdressed and came out all right and healthy if this is of any interest.

JAMES A. SMITH
London Country Club, London, O.

For several years I have been greatly interested in the prevention of brown-patch rather than in its control after appearance.

I have watched carefully over a period of five years the development of more than five million square feet of good, finished bent and invariably found that when at least a five inch rootage existed due to good physical soil conditions, brown-patch had never affected the planting. Where there has been immunity, deep rootage had so nourished the turf that its healthy and rapid growth could not be seriously impaired by this fungi.

Practically all brown-patch I have examined has been found upon shallow rooted turf, in comparatively poor soil and the soil of such a texture that the easy passage of water and air to a depth of five inches was impossible.

If this is true, the solution is one of better greens construction in the top five inches. We must remember that bent grass requires at all times abundant moisture to the depth of its rootage. All feedings used by turf must pass through this rootage as it takes up moisture, and its depth and the presence of proper bacteria surrounding it decide the character of the turf development. Artificial nourishment may stimulate momentarily its growth, but there is invariably a reaction effecting the bacterial life in the soil and a tendency to shallow rootage because of surface feedings.

Healthy and immune “Washington Strain” bent should have a rootage of from eight to ten inches and natural feedings from the soil bacteria sufficient to make the use of ammonium sulphate or other artificial feedings unnecessary. Their need as feedings is largely due to impaired aerobic bacteria which have been denied sufficient air and moisture. The greater the turf weakness, the more likely that brown-patch will get a foothold. This fungi does not thrive where healthy conditions of turf oppose it.

A tendency to turf coarseness from an excess of natural feedings can be corrected by the character of top dressings used.

Improperly nourished turf like improperly nourished children are liable to disease because of lowered vitality.

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