

the same as calcium. In the plant it is a constituent of the chlorophyll molecule. A deficiency often causes chlorosis and in severe cases there may be a reddening of grass blades.

### Sulphur

Sulphur has been neglected as a plant nutrient because it rarely is deficient. Organic fertilisers have abundant quantities of sulphur. As inorganic materials rose in favour we began to use sulphate of ammonia and superphosphate. Both these materials supply a great deal of sulphur.

As the trend towards higher analyses continues, some of the sulphur contained incidentally in fertiliser materials is being eliminated. Thus sulphur may become an element of greater concern to the plant grower.

Sulphur is considered to be necessary in a magnitude of about two-thirds that of phosphorus. Sulphur is a constituent of protein. In addition it produces an

indirect effect upon the appearance of chlorophyll. A deficiency of sulphur is indicated by a pale green colour, whereas a plant with abundant chlorophyll has a dark green vigorous appearance.

The grower of turf must make use of these elements to insure a healthy, vigorous turf. While deficiencies are quite difficult to demonstrate in the field and though responses to additional amounts are usually not great, these elements all contribute to the well-being of the plant.

It has been said that if one waits until the plant shows deficiency symptoms, the plant has already begun to disintegrate from the lack of some nutrient. There is then a long road to recovery. If one anticipates these hungers and keeps a constant supply of nutrients available to the plant he may avoid a great many turf problems.

*(With grateful acknowledgments to  
"The Golf Course Reporter")*



### JULY

- 22nd Sheffield Section Annual Tournament, Wheatley Golf Club.
- 23rd Midland Section A.G.M., Harborne Golf Club, 7-30 p.m.
- 23rd Midland Section Competition, Parker Cup, 2-30 p.m.

### AUGUST.

- 10th } B.G.G.A. Annual Tournament and A.G.M., Weston-super-Mare.
- 11th }
- 12th }

### SEPTEMBER.

- 15th North-West Section Autumn Tournament, Ashton and Lea Golf Club.
- 15th Southern Section Autumn Tournament, Denham Golf Club.
- 17th Midland Section, Visit to Messrs. Atco Ltd.
- 22nd Midland Section, Autumn Tournament, Stourbridge Golf Club.
- 23rd East Midland Autumn Tournament, Longcliffe Golf Club, Loughborough.