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SUMMARY

If I can possibly summarize this discussion on turf fertilization, it might be something like this:

A healthy, well-maintained golf course can be a beautiful landscape which has great functional and aesthetic value. However, such an environment doesn't just happen! It is the result of a lot of hard work and is realized only if its plants are grown under near ideal conditions. This includes adequate light, air, water, proper temperatures, a suitable soil to grow in and a supply of essential nutrients.

A good fertilization program is a vital part of your management system and one tool you have control over. Proper fertilization involves a basic understanding of plant nutrition, soil science and fertilizers.

There is probably no single magical fertilizer or fertilization program even though there are frequent claims to that effect. First, realize that all plants require the same essential elements in proper amounts and proportions. Several nutrients like nitrogen, phosphorous and potassium are required in much greater quantities than others but all 16 are essential. Secondly, use soil testing only as a guide to help you decide when and how much phosphorous, potassium, calcium and magnesium are needed and if soil pH needs to be adjusted. And finally, design a nitrogen fertilization program to produce acceptable quality turf for your particular golf course. In most instances, a satisfactory nitrogen fertilization program can be achieved using one or several materials. The critical thing is to understand the characteristics of each material and to use them accordingly. One material may be easier to apply, safer, less expensive to buy or apply, or more effective than another in any given situation. But, there is no perfect recipe for all turf. You must formulate your "best" program for your conditions. You can achieve this goal if you understand the basic principles we have covered in this discussion. ■

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