

HOW'S YOUR TURF IQ???

1. Overall nutrient availability is the highest at a soil pH of _____.
2. Phosphorus availability is highest at a soil pH of _____ to _____.
3. A soil pH of 6 is _____ times as acidic as a soil pH of 7.
4. Name three common types of peat available for soil modification. _____
5. How many of the 16 commonly recognized essential elements can you list? _____

Answers to the above questions will be found on another page.

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HOW'S YOUR TURF IQ? *ANSWERS*

1. Overall nutrient availability is highest at pH of 6.5.
2. Phosphorus highest availability is at pH of 6 to 7.
3. A pH of 6 is ten times as acidic as a pH of 7 since pH values are expressed as logarithms. Thus a soil pH of 5 is ten times as acid as one at pH of 6 and 100 times as acid as the one at pH 7.
4. The most common peats are: peat humus, sphagnum moss peat, reed-sedge peat and hypnum peat.
5. The sixteen elements are as follows: Carbon, Hydrogen, Oxygen, Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Sulfur, Iron, Manganese, Zinc, Copper, Molybdenum, Boron and Chlorine.

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Users of restricted chemicals will need to have a permit by October 1977.

Private Golf Course Operators and farmers can receive the necessary training and take the self evaluation for the permit at a program sponsored by the University of Illinois Cooperative Extension Service in DuPage County.

The program will be held Friday, March 4 from 12:00 to 5:00 P.M. at the DuPage County Auditorium (421 N. County Farm Road, Wheaton).

Please advance register by calling the Cooperative Extension Service at 682-7486. A registration fee of \$2.00 is payable at the door.

W. E. Schmidt
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MOTHERHOOD, APPLE-PIE AND THE GOLF COURSE SUPERINTENDENTS ASSOCIATION OF AMERICA

Most Superintendents would support both "Motherhood and Apple-Pie" as long-time pillars of our heritage, but what of the benefits of the G.C.S.A.A.? Every organization, whether it be political, economic or social in origin, must stand the final "cost-benefit" evaluation if its existence is to be continued. In this article I will attempt to establish two points: first that the G.C.S.A.A. does not yield a positive "cost-benefit" ratio for the individual member superintendent; and, secondly, to suggest an alternative program that will fulfill the original objectives of furthering both the educational and financial position of the golf course superintendent.

First we must establish the ground rules of measuring the "cost-benefit" ratio. I am suggesting that the Annual Report of the G.C.S.A.A. be used to evaluate the effectiveness and efficiency of management. This approach is similar to the Management By Objective system (M.B.O.) employed by private industry to measure and compare business operations as to their effectiveness in obtaining stated goals. The costs and benefit figures will come from Exhibit B, or the Statement of Income and Expenses in the 1976 Annual Report. Under the division "Expenses", we find the categories "Member's Insurance Premiums" and "Membership Activities and Services" which include direct benefits to the member superintendents. (I might interject that the Life Insurance has been \$1,000 for many years and this benefit might bury "Chicken George" back in 1865, but today it would place us one foot below ground in a broken plastic box). A secondary benefit, but one I consider indirect, would be the category "Directory and Newsletter".

My Exhibits A and B illustrate the dollar amounts of these expense categories as presented by the G.C.S.A.A. Exhibit B also illustrates the percentage of these member benefits in relationship to total income (dollars available for benefits) for the years 1976 and 1975. During 1975, \$110,032.63 or 14.7% of total G.C.S.A.A. income was returned to the member superintendents whereas during 1976 \$105,812.43 or 14% of income was returned in the form of direct benefits. Not only is the dollar amount declining, but