

**BEARD** from page 16

tions where the soil type, slope or rate of drying is different. In these cases the original design of the irrigation system does not offer the flexibility of selectively watering certain areas. Applications of excessive quantities of water over a period of time will result in increased soil compaction, reduced soil aeration and increased encroachment of annual bluegrass.

The use of automatic sensing devices for better control and efficiency of irrigation practices has great possibilities. Unfortunately, much is yet to be known in terms of developing the specific techniques for using these sensing devices in the varied environmental and soil conditions occurring throughout the United States. The turfmen in Southern California have taken the leadership in this approach. Their success in future years will be followed closely by turfmen throughout the United States.

*Influences of fertility ratios on winter hardiness of bermudagrass. W.B. Gilbert and D.L. Davis.*

1971. *Agronomy Journal*. 63:591-593. (from the Department of Crop Science, North Carolina State University, Raleigh, N.C. 27607).

The objective of this study was to determine the effect of various ratios of nitrogen, phosphorus and potassium on the low temperature hardiness of two bermudagrass varieties. The two varieties used were Tifgreen and Tifdwarf bermudagrass (*Cynodon* spp.). Vegetative plugs of the two varieties were taken from mature sods and transplanted into pots containing sand. The turfgrass plugs were grown under these conditions for four months at day temperatures of 86 degrees F and night temperatures of 68 degrees F. The turfs were not fertilized during this period in order to exhaust the existing fertility level in the transplanted sod to a minimal level. The plugs were watered daily with distilled water and clipped three times a week at 0.3 inch.

At this point eight nutrient ratio treatments were applied using a modified Hoagland's solution. The plugs were returned to the green-

house for three weeks under the environmental and cultural system previously described. The plugs were then placed in a cold chamber at 38 degrees F and an eight hour period at 3,000-foot candles. The treated grass plugs were permitted to harden for four weeks prior to exposing them to a series of low temperature treatments utilizing a programmed low temperature chamber. The specific low temperature treatments were 28, 23 and 19 degrees F. Four replications of each variety were subjected to each of the three low temperature treatments.

Subsequently the plugs were allowed to thaw for 48 hours in a darkened cold chamber maintained at 35 degrees F. After this the plugs were placed in the greenhouse at an 86-degree F day temperature and an 68-degree F night temperature with a 14-hour day length. The quantity of shoot growth produced after four weeks regrowth was measured by clipping to a height of 0.3 inch. The eight nutrient ratios compared were 4-1-6, 4-1-3, 4-0-3, 4-0-0, 2-1-3, 4-1-0, 4-5-1 and 1-1-3.

Based on the quantity of shoot re-

*continued on page 102*

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**BEARD** from page 101

growth the following results were obtained. Both Tifgreen and Tifdwarf responded similarly to the eight nutritional ratios. Ratios in which the levels of nitrogen and potassium were approximately equal and about four to five times greater than the phosphorus level gave the highest quantities of shoot regrowth. Specifically, the 4-1-6 and 4-1-3 ratios resulted in a much larger shoot regrowth response. The 4-0-0 ratio was least tolerant of low temperature stress. The amount of low temperature kill was also quite high with the 1-1-3 ratio. At a given nitrogen level, the addition of either phosphorus or potassium alone improved the cold tolerance slightly whereas the application of both resulted in a substantial improvement.

*Comments:* The low temperature tolerance of the bermudagrasses is the limiting factor in how far north a bermudagrass turf can be maintained successfully over a period of years. A number of cultural factors can be manipulated to provide more favorable conditions for low temperature survival of bermudagrasses. Included are the (a) proper subsurface and surface drainage of excess water, (b) nitrogen and potassium nutritional levels, (c) quantity of thatch, (d) cutting height and (e) control of traffic during wet, cold conditions. Of these, proper surface and subsurface drainage is most important. However, the nutritional level is also a factor which, under certain conditions, can determine whether the bermudagrass turf lives or survives.

This study shows that the proper nutritional ratio can make a difference of 3 to 5 degrees F in the severity of low temperature stress that a bermudagrass turf can tolerate. The most important conclusions in this study are (a) that all three nutrients, nitrogen, phosphorus and potassium, are required for maximum low temperature hardiness and (b) they must be provided in the proper ratio to ensure maximum low temperature hardiness. In comparing the research reports between warm season and cool season species, it is evident that the preferred ratio varies depending on the particular turfgrass species that is involved. □



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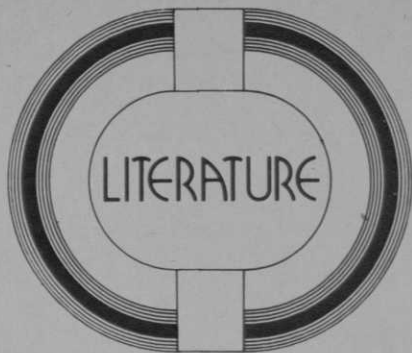
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*Golf How by Orville Who?*  
By Orville Moody with Jim Hiskey  
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I expected to open this book and discover how to play golf "by the numbers" or to be told to "fall in" at address or something like that, but I was pleasantly surprised. Although there are occasional pointers called "Orville's Orders," Moody and Jim Hiskey have put together a very candid, flowing story of what it's like to join the tour.

In the introduction, Moody informs the reader that he personally doesn't believe in instruction golf books and has, instead, strived to narrate the circumstances that pushed him onto the circuit. Many of these narrations become funny stories involving Moody and his backers or Moody and his skeptics.

He traces the decisions and problems an aspiring tour golfer encounters from the first overtures made by backers to the first time he steps onto the tee for a regular PGA event.

Moody also gives us a good picture of the tour's "Bible Cult," the group of pros who meet every week to read and discuss the Bible. "Sarge" is a religious man and he feels he owes much of his success to a faith in prayer, a feeling he shares with many other tour regulars.

There are scattered instructive notes throughout the book, but these are kept to a minimum and the theme is that golf should be fun, not an all-encompassing passion that prevents enjoyment.

If you've got a notion that you'd like to play golf for a living, you'll find this book a good guideline to what you'll encounter along the way. If you're just a fan, you'll find this a good story of a man in quest of himself.

—Parker Smith

## GRAFFIS from page 28

The Jones, Richardson and other awards of golf to its playmates are lovely thoughts. The Evans scholarships and the National Golf Fund awards to scholarships, welfare, benevolence and turf research to which club professionals have given more than \$1.5 million, which they've raised from their members, and players in the rich tournaments have given embarrassingly little, the Eisenhower College and hospital funds and other benefits gave golf the proudest records in sports for giving.

Club officials and owners and public course authorities rarely have the slightest idea of the educational programs of the Club Managers Assn. of America, the Golf Course Superintendents Assn. of America and the Professional Golfers' Assn.

This schooling is far ahead of business training in which most employees are voluntarily and enthusiastically involved. The education is worth millions of dollars a year to golf clubs, but the associations have missed telling their members' employers what kind of an educational job is being done. When I tell men who hire managers, professionals and superintendents how their employees are learning to be executives on the job, the bosses are amazed.

The associations haven't learned how to sell the growing value of their members.

Building third 18 at **Innisbrook Hotel**, Tarpon Springs, Fla. Edward Packard is the architect. National Golf Foundation had its annual staff meeting at Innisbrook last winter. Members of the golf industry's promotion and service team went away with high praise for the way Mike Souchak, winter professional at Innisbrook, runs a resort pro job.

**Leo Jacques**, 40 years superintendent, Brattleboro (Vt.) CC died recently. He was a kindly man and widely hailed for his achievement in growing good golf turf on soil that didn't favor the job. His son Joe is superintendent at Woodstock CC in Vermont.

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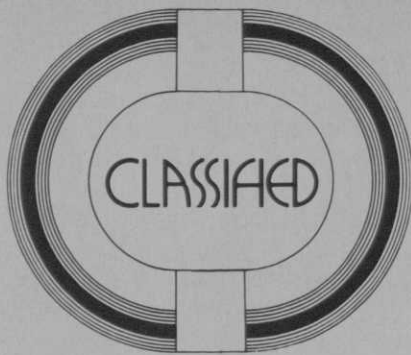
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## GOLFDOM OFFICIALS AND MANAGEMENT MAILING FORM

**IMPORTANT:** Your cooperation with the information below will bring **GOLFDOM** to those responsible for your club's successful operation . . . and keep them up-to-date on the latest and most practical ideas on Administration, Management, Maintenance and Services. Complete and mail this post-free card—**TODAY**—to **GOLFDOM CIRCULATION DEPT.**, 235 East 45 Street, New York, N.Y. 10017. We'll see that those who qualify receive **GOLFDOM** monthly, without cost.

Club or Course Name \_\_\_\_\_  
 Mail Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Owner \_\_\_\_\_  
 Other Duties \_\_\_\_\_  
 Street \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 President \_\_\_\_\_  
 Other Duties \_\_\_\_\_  
 Street \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Manager \_\_\_\_\_  
 Other Duties \_\_\_\_\_  
 Street \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Superintendent \_\_\_\_\_  
 Other Duties \_\_\_\_\_  
 Street \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Professional \_\_\_\_\_  
 Other Duties \_\_\_\_\_  
 Street \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Turfed acreage of Golf Course and Club Grounds regularly maintained:  
 Course Acres \_\_\_\_\_ Grounds Acres \_\_\_\_\_  
 Is your course new? Yes  No   
 Size of Course:  9 holes  18 holes  27 holes  36+ holes  
 Is your Golf Course:  Private  Semi-private  Municipal (city, state or county owned)  Public  Par 3  Military  School  Company owned  Resort  
 Facilities at Course:  Bar  Restaurant  Hotel  Pool  Tennis Courts  Pro Shop  
 If Private Club check No. of members. If semi-private or Public indicate No. of players per week:  
 100 or less  100-200  200-300  300-400  500-1000  Over 1000  
 Your Signature \_\_\_\_\_ Date \_\_\_\_\_