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.


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 greenhouse 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.

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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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Take stock in America
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**Golf How by Orville Who?**

*By Orville Moody with Jim Hiskey*

_Hawthorn Books, Inc._

_New York, N.Y. 10011 $6.95_

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
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☐ Sprayers
☐ Spreaders
☐ Sweepers
☐ Sweepers-mulchers (turf)
☐ Thatch cutting machines
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☐ Trucks (utility)

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☐ Sweaters
☐ Trophys
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☐ Bag carts
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<td>Golf Course Design</td>
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<td>Lester Electrical of Nebraska, Inc.</td>
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<td>Maddox Construction Co.</td>
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<tr>
<td>Mallinckrodt Chemical Corp.</td>
<td>61 &amp; 101</td>
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<td>Midwest International, Inc.</td>
<td>CHII</td>
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<td>Milwaukee Sewerage Comm.</td>
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<td>Myers Company, F. E. &amp; Bros.</td>
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<td>National Golf Foundation</td>
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<td>North Central Plastics, Inc.</td>
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<td>Par Aide Products Co.</td>
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<td>Parco, Inc.</td>
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<td>Philadelphia Carpet Co.</td>
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<td>Phillips, Harry</td>
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<td>Plasti-Gard Co.</td>
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<td>P.L. Products of Houston, Inc.</td>
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<td>Power Spike Mfg. Co.</td>
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<td>Putman, Robert Dean</td>
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<td>RAC/ME Golf Bag</td>
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<td>Storage Racks</td>
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<td>Rainbird Sprinkler Mfg. Co.</td>
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<td>Ram Golf Co.</td>
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<td>Reeve Co.</td>
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<td>Roseman Mower Corp.</td>
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<td>Rudy Patrick Co., The</td>
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<td>Ryan Equipment Co.</td>
<td>74 &amp; 75</td>
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<td>Schendel, W. C</td>
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<td>Smithco, Inc.</td>
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<td>Agri-Chem. Div.</td>
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<td>Stylo Matchmakers</td>
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<td>Toro Mfg. Co.</td>
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<td>Toro Co., (Moist-O-Matic Div.)</td>
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<td>Trojan Battery Co.</td>
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<td>Tuco, Div. of Upjohn Co.</td>
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<td>U.S.S. Agri-Chemicals, Inc.</td>
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<td>U.S. Suzuki Motor Corp.</td>
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<td>Victor Golf Co., PGA Div.</td>
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<td>Wadsworth Co.</td>
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