

ing on the soil, is much better than more frequent, light watering. Experiments have shown that Bermuda can go 100 days or more fertilized adequately.

Less water and more nitrogen often is the key to good Bermuda fairways.

**Q—What causes moss in putting greens? (Pa.)**

A—Excessive moisture most often is the cause. Poor drainage and lack of aeration, or keeping the surface saturated through improper watering, encourage moss. If drainage is extremely poor, it may be necessary to rebuild.

In many cases, even though drainage isn't perfect, it is possible to maintain the green by establishing a vigorous adapted strain of bent, and managing it properly with regular aeration, fertilization and proper use of water.

**Q—As long as the proper amount of water is applied, does it really matter whether greens are watered at night or in the morning? (Ky.)**

A—Using the proper amount of water so that soil will not be kept saturated certainly is important. Nevertheless, the time when the water is applied is important. All other factors being equal, there will be fewer disease problems where watering is in the early morning.

We have mentioned before in *GOLFDOM*, that the benefits of early morning watering were demonstrated nearly 25 years ago by Monteith and Dahl.

**Q—When purchasing stolons which must be shipped from a great distance, isn't there danger that the planting material will be in poor condition on arrival? Also, what guarantee do we have that the material is young nursery stock? (Ariz.)**

A—Shipping stolons is no longer any great problem. Stolons can be shipped from any part of U.S. by air and they will reach their destination in good condition. The age of the nursery stock is not important, as long as you get fresh viable planting material.

**Q—What quantity of planting material would be required for sprig fairways and tees? (Fla.)**

A—For a fairway it should be possible to plant an acre with 25 to 40 sq. yds. of sod, roughly equivalent to the same number of bus. of sprigs when sod has been shredded. Tees will take about twice as much material as fairways in order to get a solid cover more quickly.

**Q—What is the best way to get rid of moles in greens? (N.Y.)**

A—You generally find moles at work where there is a heavy insect population. Get rid of the insects and you should not have any further trouble with the moles. Chlordane is one of the best insecticides to control all turf insects, including earthworms. A granular formulation seems to be the best — easier to handle and less loss. Application to greens should be watered in.

## Michigan PGA Lists Rates For Pro Services

THE Michigan PGA has made a tabulation of rates for pro department services that is proving very helpful in establishing proper prices this year. The compilation covers 82 clubs, (private, semi-private and public.)

The range of prices shows some wide variations.

Club-cleaning per person per month ranges from \$7.50 to \$15; Club-cleaning and storage with cart from \$10 to \$15.

Club-cleaning on man-and-wife arrangements at slight discounts at eight of the 20 clubs reporting. Reduced club-cleaning rate for juniors at three of the reporting clubs.

Half-hour lesson rates range from \$2.50 to \$4. About half the half-hour lesson rates given are \$3. At the majority of clubs there is a charge of 50 or 75 cents for balls used in half hour lessons; charge for balls used for hour lessons is double the half-hour rate.

Seven pros have hourly lesson rate applying to playing lessons. Other charges for playing lessons range from \$5 to \$10 for 9-hole lessons and from \$10 to \$18 for 18-hole lessons, plus the pro's caddie fee.

Electric cart charges range from \$3 to \$4 for nine holes and the 18-hole car rental charge is \$6 at all clubs reporting.

Small bag of range balls varies in number from 25 to 65 with 30 and 50 ball bags being most common. Prices for use of the small bag of balls varies from 40 cents to \$1.10. The large bags have from 50 to 100 balls and rental price ranges from 80 cents to \$1.10.

Nine of the 30 pros reporting on the query about tees said they give away tees; the others charge.

Warren Orlick, Michigan PGA pres., and Lou Powers, sec.-treas., have been providing the Michigan members with considerable information on the organization's operating plans and policies for this year.

A feature of the section's business program is a one day session for assistants, with Emil Beck and Joe Devany, co-chairmen of the Educational committee, in charge. The subjects to be covered include fitting of clubs, cleaning of clubs, human relations, rules, business telephoning, tournament operation, records and accounting, and merchandise display.

Orlick has had a crowded schedule this winter. He's been teaching indoors at the Sidney Hill club from Jan. 15 through March 15, and gave 660 individual lessons.