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to one of the improved Bermuda grasses. Two that I would suggest for you to try side by side are Tifgreen and Ugandagrass. Both are fine in texture, the latter like bent. Ugandagrass is proven winter hardy in New York and central Pennsylvania. Tifgreen is undergoing hardiness tests.

**Q.** Can you advise as to one or two good sources of information on Bermuda grasses? We want books giving details on planting, care, fertilizing, disease control, etc. (Maryland)

**A.** The best reference we know of on the subject is the 1948 U.S.D.A. Yearbook GRASS. There is no book on the subject that we know of. A good source of current information is the U.S.D.A. Plant Industry Station, Beltsville, Md. Another source of current data is Georgia Coastal Plain Exp. Station, Tifton, Ga. This department of Golfdom can help you with specific problems. The current issue of "Southern California Turfgrass Culture" carries an "Evaluation of Bermuda Grasses." This is available from University of California, Dept. of Horticulture, Los Angeles 14, Calif.

**Q.** The pH on my greens is up around 7.5 to 7.6. I'm afraid it is getting too high. What can I do to lower it? (Ill.)

**A.** My advice is to do nothing about your pH — just let the grass enjoy it. Bentgrass will thrive over a very wide range of pH values — even up to pH 8.5.

Light, periodic applications of sulfate of ammonia will tend to hold the reaction steady

or lower it slightly. I favor an acid-forming fertilizer such as sulfate when soil pH is high, not so much to change the reaction but for beneficial effects from the sulfur in the fertilizer.

**Q. Please examine the samples of soil and sand I am sending you and give me your opinion of the best mixture for topdressing my bent greens. (Pa.)**

The soil appears to be clay loam with good physical structure. The sand is graded from coarse to fine but most of it is what I would call coarse. This is good. With a good grade of peat or well decomposed sawdust on hand, I would suggest this mixture:

Sand	7 parts by volume
Clay loam	2 parts by volume
Organic Material	1 part by volume

I'm sure that you will be much better satisfied with this mixture if you can make it up a year ahead, treat it for weed seeds (sterilize with cyanamid or methyl bromide), and let it develop a "bond" between particles. This will give the micro-organisms a chance to operate and develop some aggregates before you use it. It will be best if you continue to use the same mixture year after year.

**Q. I am considering introducing Certified Meyer (Z-52) Zoysia into my fairways. We have recently installed a complete fairway watering system on 9 old fairways (carpet grass and Bermuda) and 9 new fairways which are seeded with Bermuda. I want your advice regard-**

**ing Zoysia for fairways. I intend to start a small nursery, then plug and sprig small portions of the fairways from the nursery. (La.)**

A. Meyer Zoysia does not appear to me to be one of the better fairway grasses because of a tendency to become a "deep cushion." This quality may be wonderful in a lawn but, if allowed to develop it would give golfers an insecure stance and footing. A heavy cushion of turf makes tiresome walking. Zoysia clippings decay slowly and build up an undesirable mat.

By all means start a small nursery. When you have solid turf, have your members play from it and walk on it. But remember a few steps on a small plot is not the same as walking several miles.

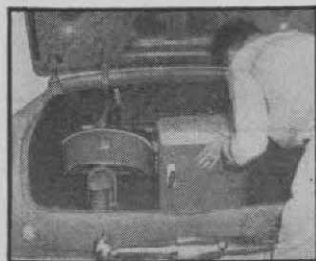
Had you planned to start a similar nursery with improved Bermuda grasses? It should be very worthwhile. Renovation will be less costly and much faster with the right Bermuda.

**Q. What are other reasons in addition to disease control in favor of early morning watering over night watering? The only standard I have to go by for swishing greens is when the temp. is above 88-92 degs., there is high humidity, and the green feels hot to touch. Are there more things to look for? How often should a green be swished during hot weather? 10 minutes per time is about standard isn't it? What are other factors to consider in watering beside puddling and runoff? What are the symp-**



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