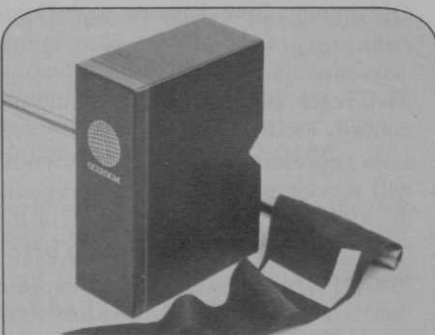


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points, but if true professional proficiency is to be attained, close attention must be paid to each category—and more.

Q—Recently we learned that Certified Pennncross bent seed can be obtained in two different grades: greens quality and fairway quality. We had always thought that certified meant certified—one level of quality only—the best. Can you help us to understand this situation so that we may be guided in our purchases? (Maryland)

A—With the increased interest in and use of Pennncross bent for fairways, the decision was made to skim off the purest seed for greens and market a less-pure seed for fairways where high purity is not so vital and where a lower cost is of considerable interest. Here are the established figures for certified seed:

	Greens quality	Fairway quality
Pure seed, min. %	98.0	96.0
Germination, min. %	85.0	80.0
Other crop, max. %	.10	2.00
Inert matter, max. %	1.8	4.00
Weed seed, max. %	.10	.25
Poa annua permissible	0.00	Trace

By these figures we see that the processors do not have to clean the seed as hard for the fairway quality. The field history that accompanies the tests assures the buyer that every bent seed in the bag is authentic Pennncross. The certified tag guarantees this.

Other crop seed may be another grass, such as redbtop, Colonial bent or fescue which one wouldn't want in the greens, but wouldn't mind in the fairways where they would be crowded out.

By allowing more inert matter in the fairway quality, the seed can be sold at a lower price. The point to remember is that in both grades every bent seed is genuine Pennncross.

Q—We used a scarifier-seeder to overweed our fairways to Ky 31 fescue last fall (1970). The catch was that all that one could expect, but when summer heat and humidity hit us, the Ky 31 suffered and crabgrass and goosegrass came in heavily. The mowers were set at about three-

fourths inch. We are on a good nutrient program. We are going ahead with overweeding again in 1971, adding a little Fylking and Pennstar bluegrass. May we have your comments? (Maryland)

A—I would advise setting the mowers higher (1¼ to 1½ inches) until the plants are well rooted. Your fertilizer program is O.K. There is indication that the soil is very compact. Deep thorough aeration is needed. Limestone will help to improve the soil structure.

Heat and humidity will knock out many of the susceptible plants, leaving the resistant ones. Just one year of this overseeding program is not the final answer. Annual overseeding is favored more and more. Addition of elite bluegrasses can be very beneficial. With pre-emergent chemicals, the summer grassy weeds should be less of a problem. Your program seems sound.

Q—Looking over one of your old letters, you say to reduce disease and algae to spray two pounds Powder Blue with one-half pound hydrated lime and also, if color fades, pep it up with Powder Blue-hydrated lime, plus a bit of iron sulfate. Then I had read in GOLFDOM where you said to apply hydrated lime late in the evening, leaving it on the grass overnight and then wash it off the grass early the next morning.

My question is: Is it safe to use either of the above combinations—applying it late in the evening and watering it in the morning? (Indiana)

A—You will be perfectly safe to apply either Powder Blue-hydrated lime or the three-way combination of Powder Blue-hydrated-iron sulfate in the evening after all play has left the course. Both combinations may lie on the grass overnight to be rinsed off in the morning (actually you rinse the materials in). The chance for a burn is minimal; the opportunity for the materials to do their work is maximal. □