

were applied uniformly? We know a piece of turf that was treated with a material that does not burn. There was no damage but now, several weeks later, every spot that had a heavy dose is a dark rich green. In between the grass is anemic, starving.

This spring we were shown a putting green that had been seriously damaged by the hard winter. There were odd circular streaks of green and brown that defied analysis. Finally it was determined that the tractor, which had incorporated a sterilizing agent into the soil before the green had been planted 16 months earlier, was partly responsible. The circular marks coincided with the circular motion of the tractor.

It Happens Over and Over

It seems ridiculous to be obliged to mention this but it is still hapening! Many putting greens develop spots or areas where the grass does not do well. Upon examination it is discovered that the materials used in building were not applied uniformly. One can find pockets of pure sand, undiluted peat or manure and chunks of clay. Such non-uniformity as this can lead only to future trouble.

Regardless of the method of applying any material, the accuracy and the uniformity can be no better than the operator, assuming that the brainless machines are in "perfect" working condition. Many machines are taken out on the job before they are tested for accuracy. Even if the machines are operating perfectly, the operator is the only one who can insure perfect uniformity of application. A moment of carelessness and ruined grass may mar his efforts.

Uniformity of material is important, also. Lumps and chunks can clog openings. It is a mistake to try to use such materials until screening or sifting has produced a uniform texture.

Hand Watering Best

Mistakes in watering long have intrigued us. Many have pointed out that the centers of putting greens are the hardest hit after a severe winter. Sprinklers have no brains — they just sit and pour out water so long as they are connected. When sprinklers are set around the outside of the greens, it doesn't take much imagination to realize that the center of the green will receive much more water than it needs simply because of the overlap. The most uniform greens we have seen have been those that have been



Monte Moncrief, USGA Green Section agronomist (left), shows Charles Campbell, pres., Texas Turfgrass Assn., the story of turf management as told by a small section of a green at Ranchland Hills CC, Midland, Tex., during West Texas regional field day. Campbell, director of parks and recreation for Midland, is in midst of Hogan Park 18-hole course construction and a playground building job. Jimmie Gamewell, a supt.-pro with a great deal of successful experience with tough conditions of West Texas, is bringing the Hogan job along in great shape, says, Campbell. Conference at Ranchland drew 35 persons, big attendance considering distance the supts. have to travel and their urgent work in mid-May.

watered by hand, where and when needed.

Perhaps some day there will be invented a device that will apply materials with perfect uniformity, without mistakes, and without having to depend upon human judgment to such a high degree. What a boon that would be.

Kentucky Blue to Bent

Q. We have some greens that are Kentucky bluegrass only. Can we sow Astoria bent with a light topdressing and eventually have a bent green? We have thrown bent clippings from some greens on to fairway grass and now have bent on some areas on the fairways. (Minnesota)

A. During recent visits in the northern part of the country, I have seen where Astoria bent has suffered very severely during the winter. I would advise against sowing Astoria bent into your bluegrass greens. I would much rather you would use Penn-cross bent seed because it has the possibility of being more permanent, more resistant to disease and will give you a tighter, denser putting green. One lb. of Penn-cross bent seed to 1,000 sq. ft. is the maximum planting rate. It would be best to use a spiker

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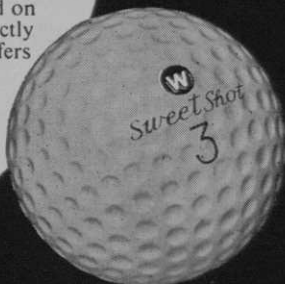
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and thoroughly spike the greens in several directions before sowing the seed. After sowing, put on a very light sandy topdressing and keep the green moist to germinate the seed rapidly.

If you are blessed with a naturally sandy soil, you might wish to consider seeding Pennlawn creeping red fescue into your Kentucky bluegrass greens. This grass can stand much closer mowing than bluegrass and has the possibility of making a very good putting green. If, however, your soil is heavy, it would be much better to use the Penncross creeping bent seed.

Greens Went Out

Q. Last spring (1958) I seeded 9 new greens. I laid sump sand (which is a by-product of washed river gravel) over farm meadow. This sump sand had a pH of 6.5. I then seeded colonial bent on top of this sump sand. I watered the greens about every day and fertilized three times during the summer. The bentgrass came up good but never showed a dark green color.

My course is located in northern Vermont and this past winter was very cold and snowy. This spring, as of May 8, the new greens were completely browned and dead. I wonder if you know what caused the Colonial bent to die and what would be the best thing for me to do as far as rebuilding the greens. (Vermont)

A. Colonial bent and Poa annua both took a severe beating this past winter and spring. Poa

is recovering but the colonial bent does not recover.

Not knowing more about your "sump sand" it is difficult to answer your questions intelligently. You have not identified your feeding program. The lack of dark green color would indicate nitrogen hunger. There could have been a severe potash hunger. Above everything else, Colonial bent is the least likely to produce a putting green.

Had you considered the possibility of seeding the greens to Pennlawn creeping red fescue? This grass will do well in sand with minimum water and attention other than proper feeding and mowing. It would be my choice of a grass to seed now in order to have greens to play on this summer. Red fescue germinates quickly. Seed at rate of 4 lbs. to a thousand, fertilize with a gentle, safe, long lasting nitrogen balanced with P and K in about a 3-1-1 ratio.

**USDA Field Day
 To be Held August 4**

The U. S. Dept. of Agriculture turfgrass field day will be held Aug. 4 at Beltsville, Md. The research service div. has considerable research work in progress and a review of it will be one of the highlights of the field day.