Answers to turf questions



by Fred V. Grau

All users and prospective users of Penncross seed—hear this! After the 1968 harvest, the only Penncross seed that will be available will be Blue Tag Certified. Anyone who buys ''Affidavit Seed'' or ''So-called Penncross'' which does not carry the Blue Tag can expect to end up with inferior turf. He will have only himself to blame.

The last speaker at the 1968 Penn State Turfgrass Conference (Jan. 15-18) was Dr. Joseph Duich, who reported on progress in the Penncross seed industry. He and Dr. Guy McKee of Penn State in 1967 inspected nearly every field in the Pacific Northwest that was producing Penncross. Serious talks with the growers resulted in strict guidelines for growers to which they subscribed 100 per cent.

Seed from fields that fail to meet rigid specifications can not be sold under the name ''Penncross.''

No field may produce Blue Tag Certified seed longer than three years. Then the field must be plowed and be put to other uses until certification inspectors declare it ''free of bent.''

Blue Tag Certified Penncross bentgrass seed will be sold only in newlydesigned bags that hold 5, 10 and 20 pounds. Bags will be sealed to prevent tampering and possible adulteration, thus protecting the contents and the consumer.

This writer sounded the alarm in GOLFDOM a few years ago when golf course superintendents began to complain that the ''Penncross'' seed they had bought at a high price had failed to produce the high-quality putting green turf that they had expected from this Penn State developed grass. Some turf resembled nothing that anyone had ever seen before. Some of it was unspeakable. Dr. Duich logically and convincingly explained several ways in which this mass deterioration could have happened. Let us say only that the several loopholes in the system have been closed! Penncross seed users confidently can look forward once more to buying nothing but Blue Tag Certified seed, which will produce the superior results that can be expected from this truly great grass.

Q.-We have heard about the Pennsylvania Turfgrass Survey. Is there a

report? How big is turfgrass? How was the survey accomplished?

(Maryland)

A.—The full report carried the number CRS-42. Turfgrass in Pennsylvania is over a half billion dollars, just below Dairy, the largest industry in agriculture. This first full-scale, accurate, authentic, state-wide survey will be summarized to be easily readable. The Summary can be obtained from

> The Pennsylvania Turfgrass Council, Inc.

> Office of the Executive Secretary 526 Sunset Road

State College, Pa. 16801

Be sure to send a stamped, self-addressed envelope.

The survey was sparked by the Pennsylvania Turfgrass Council, supported by the Secretary of Agriculture, Mr. Lee Bull, and conducted by the Pennsylvania Crop Reporting Service. The project is a notable first in the U.S. With reliable data such as this, there is a better chance that turf will receive the financial support it has deserved for so long.

Q.—What is the recommended rate for seeding Penncross bent for putting greens? (Indiana)

A.—From 3/4 to one (1) pound per 1,000 square feet.

Q.—At a recent turf conference we heard about the deterioration of putting green soil mixtures. Even the best mixtures showed decreased infiltration rates within a few years. What seems to be the best way to restore favorable infiltration rates?

(Ohio)

A.—The words are: aeration, cultivation and spiking. One could add dethatching. Small pores in the soil become clogged with ''debris''—fine particles and products of biological decomposition. Compaction by men and machines expels air from the pores which then become ''water-clogged.'' Thatch buildup reduces absorption. Preventive maintenance includes cultivation on a continuing basis to restore infiltration and gaseous exchange. Extreme cases may be helped by the combined use of lime and gypsum.

Continued on page 25

Grau Continued from page 23

Q.—Supplies of fresh pure water in our area seem to be disappearing. We've heard of experiments on use of effluent water from sewagetreatment plants for crops and, possibly, turf. Shall we look into this source?

(New York)

A.-By all means, investigate this and learn all you can about source, quality and future availability. For some, this may be the only water available for turf. Over a six-year period. Penn State experiments have provided solid data to indicate that this is an excellent potential, even though it is not yet recommended. Sewage effluent is rich in nutrients (N, P, K) needed for turf. Some chemical constituents (Boron) possibly could be harmful. Large storage (settling) basins have value. Keep in touch with developments-tomorrow may be here quicker than we think.

Q.—We plan to build an 18-hole golf course. We have considered hydraulic seeding as a practical and economical method of turf establishment. Do you favor this approach?

(Pennsylvania)

A.-Hydraulic seeding is included in many specifications as an alternate method. These factors are important. The operator must be skilled. Water supply must be adequate and close at hand. The combination (slurry) of seed-mulch-fertilizer must be applied uniformly. After application, it must be kept continually moist. Seeds become imbedded in the wood cellulose pulp. If this becomes dry it tends to lift off the soil. Seeds that have germinated in the moist mulch will be killed. Basic fertilizer and lime (if needed) should be incorporated into the seedbed by conventional methods. Starter fertilizer

Bear changes hands

Victor Comptometer Corporation chairman, A.C. Buehler, and Bear Archery Company president, Fred Bear, have announced the acquisition of Bear Archery by Victor on an exchange of stock basis. with the seed in the tank is approved.

Q.—Recently we have heard of "winter fertilization" of turf. We were taught that we must cut off our fertilizer program early in the fall to let the grass "harden off" for the winter. We are puzzled can you help us?

(West Virginia)

A.-Dr. Richard Schmidt, V.P.I., Blacksburg, Va., has conducted ex-

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haustive experiments on feeding nitrogen to turf through the winter. Putting green and fairway turf exhibits better color, appearance and playing quality than ''check'' turf managed under the old regime. There seems to be no increase in diseases or other troubles—only greater acceptance by the public. There is no assurance that the program is recommended universally. Check with your own experiment station and let them consult with Dr. Schmidt.



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