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treated on all sides with a roller coat of colored Minwax to ease the movement of bags and preserve the chipboard against wear and moisture. Some members had the pro staff carpet their sections.

Costs are always important to club management. This job, exclusive of paint finish, ran \$4.83 per cubbyhole. Three-quarter inch plywood would have cost \$1.00 more per section, but it is felt that the plywood would be subject to greater splintering deterioration and bag damage. Costs between different club installations and various regions of the country will vary quite considerably.

\$350,000 Clubhouse

(Continued from page 46)

here than in the main dining room.

The pro shop is located on the east end of the clubhouse, and is only a short distance from the first tee. The sales display room is 25 feet wide and 40 feet long and opens into an alcove where clubs are stored. Behind this is Pro Don Dunkelberger's office.

Eventually, about 2,400 residences will surround the Canyon Creek course. The subdivision is being developed by Wallace Investments, Inc., which has its headquarters in Dallas. As of Jan. 1, about 250 homesites had been sold in the subdivision. The fact that 10,000 people someday will live in the Canyon Creek area doesn't mean that the club will be overrun with golfers. The course is not being used as a come-on for the sale of real estate. Memberships in the club weren't offered until the clubhouse and all 18 holes were completed last summer. The clubhouse has been built to accommodate between 250 and 300 members and when this quota is filled, Canyon Creek CC doesn't plan further expansion of its membership.

The manager of the Canyon Creek club is H. C. McSwain, who served in the Air Force for 21 years and got into club management work shortly after he was retired in 1961. While in service, McSwain, a graduate of the University of Texas, was in charge of officers' clubs from 1955 until the time he was dis-

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"After several months of operation, that General Electric estimate looks conservative," says Pete McEvoy.

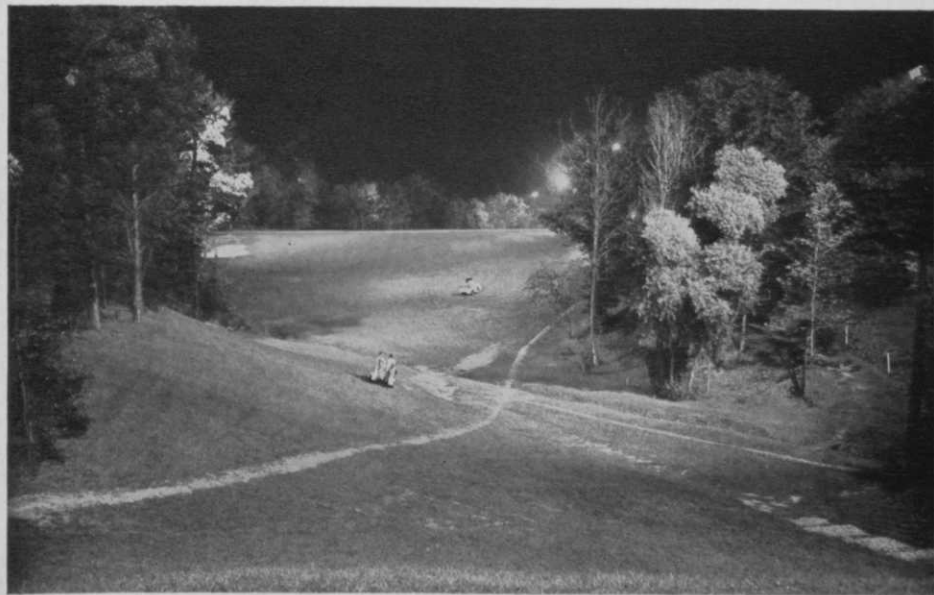
"We expect the system will be paid for before the four-year period is up. Then those extra dollars will come in as extra profit. Lighting is giving us a better return than we've made on any capital investment in the course.

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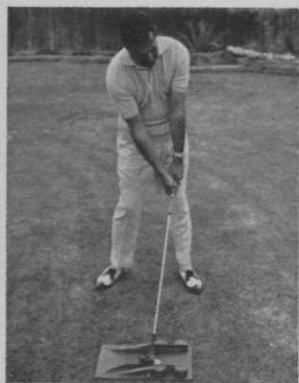
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Condemnation Suit

(Continued from page 48)

"The cost of carving a golf course out of a wooded tract in an identical setting, with a similar view, surrounded by mountains and wooded property, in our opinion, is the type of evidence which was held to be inadmissible in *Anderson-Tully Co., v. United States*, 189 F. 2d 195 (5th Cir. 1951) ***"

Prohibitive Costs?

"If the owners' argument is accepted, then in future condemnation proceedings, owners of such structures or improvements as arboricultural nurseries, parks, cemeteries, tennis courts, croquet courses, bowling greens, and special purpose farms, located in forested areas, could introduce reproduction costs in evidence and include therein the cost, however prohibitive, of clearing the land of woods, stumps, roots and stones. We are loathe to endorse this view as the law."

The USGA came into the picture when

a government witness testified: "To reproduce the Kinzua Valley Golf Course in its condition as of Sept. 19, 1961, would cost \$57,400, while to reproduce it as changed in design to meet minimum current USGA standards would cost \$83,317." In regard to this testimony, the Court said: "The court's charge instructed the jury to disregard the latter figure as reproduction costs, but permitted the jury to consider it for whatever questionable utility it may have had in reflecting market value. Clearly, the \$83,317 was not reproduction cost evidence in its proper sense, i.e. the cost of reproducing a structure or improvement according to its own particular design. Accordingly, no error was committed in so instructing the jury."

Not in Neighborhood

The testimony of another Government witness who testified in regard to the sales of other golf courses, testimony to which the Kinzua owners objected because the three courses mentioned were not in the immediate neighborhood, was concerned with courses in New York State.

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The first was 31 miles from the Kinzua course; the second 51 miles away; and the third 33 miles distant. The court held that the testimony was admissible, saying: "In our opinion the alleged comparable course sales were sufficiently similar and proximate in time to be useful in reflecting the fair market value of the condemned golf course. Further, we believe that insofar as proximity of location is concerned, a court should exercise its discretion in accordance with exigencies of a case, and if land is not of a character commonly bought and sold, should allow evidence of the sales of similar land located at some distance from the land taken."

The motion for a new trial was denied and the \$97,000 award was allowed to stand without change. United States v. 84.4 Acres of Land, Etc., 224 F. Supp. 1017.)

Strains Lose Identity

(Continued from page 64)

seedhead formation or remove all seedheads formed before they have had an opportunity to shed pollen and produce fertile viable seed. Our firm maintains small plot areas, almost in putting green condition, for a constant source of pure foundation material. Each year a small quantity is taken to plant an increase row to provide plant material to be used the following year for planting the production areas. The increase rows are given extremely close attention and extra care.

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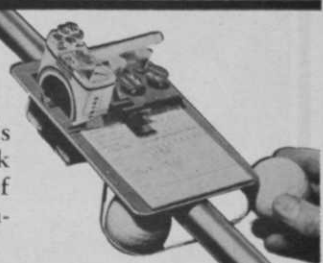
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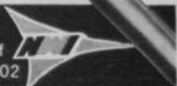
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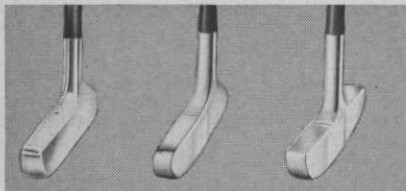
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and color saves many dollars in maintenance costs during the life expectancy of a good green. The advantages of using stolons are many and important in providing the desired degree of satisfaction.

Grau's Answers

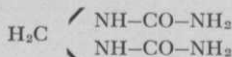
(Continued from page 70)

“framework” or “skeleton” that hold the nitrogen in a soluble form ready to go into solution and to feed the plant. Without the framework you would have 100-0-0 which is elemental gaseous nitrogen, almost completely useless to your turf. Efficiency would be a fraction of one per cent. Cost would be astronomical. You would have great difficulty in applying it to your turf.

Now let's look at 38-0-0, the familiar insoluble ureaform that you are using. The N content is higher but it is still a long way from the 100-0-0 you speak of. This material has no filler. It, too, must have a skeleton to carry the N in a slow-release form just as your body must have a skeleton.

Unlike the simple inorganic soluble molecule of sulfate of ammonia, ureaform is a mixture of complex molecules of various sizes. All ureaform molecules are made up of hydrogen, carbon, oxygen and nitrogen. The carbon, hydrogen and oxygen are all a part of the framework. Carbon furnishes energy to microorganisms that release N from the molecule. Oxygen is essential to the life and health of the soil microflora. Hydrogen enters into base exchange to release other nutrient elements to the plants.

Thus, you see, every part of the ureaform molecule is useful. A simple molecule might be shown thus:



From here they become increasingly complex.

The case of the natural organic, 5.5-4-0, follows the same general pattern but is not so easily explained because it is a variable accumulated by-product of a mixture of materials that have been used before for other purposes. The nitrogen is carried in a framework of lignins, cellulose, waxes, inorganic salts, and organic colloids, all of which act more or less as a framework for the nitrogen. Many of the soluble materials have been carried away in the water processing.

Fillers sometimes are used to make up a mixed fertilizer to equal a ton. More generally these are called “conditioners” which help the physical nature of the blend. Single ingredients as we have discussed never contain fillers or conditioners. The nitrogen is carried in an essential molecular skeleton or framework.

Allen Co. Adds Distributor

Paul E. Allen Co., Palm Harbor, Fla., has added Illinois Lawn Equip. Co., Orland Park, Ill., to its list of distributors of True Organic fertilizer.

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Swinging Around Golf

(Continued from page 24)

decided in court whether Florham Park's new ordinance will affect the existing lighted Par-3 at the club.

The proposed construction of a \$400,000 municipal country club in Fridley, Minn., has received the support of the town's planning commission and its parks and playgrounds subcommittee . . . East Brunswick County, N.J., has approved purchase of 112 acres for course development . . . Still to be acquired are 100 acres for the proposed 350-acre project.

George Fazio, well-known Pa. course developer, is seeking a zoning okay for a new course in Paoli, Pa. . . . York County, Pa., plans to open two new courses on Memorial Day — 9-holes in Yocumtown and 18 near Stewartstown . . . Sixty acres have been purchased by the town of Stockton, Ill., and local support is being sought for course development . . . Corunna Hills course and clubhouse have opened ahead of schedule in Owosso, Mich. . . . Bloomington, Minn., has the land but starting date for new course has not been set.

Rockford, Ill., sees a need for at least four more 18-hole courses by 1985 and is beginning long-range land purchase plans to meet this need . . . Nine-hole island layout in Haverhill, Mass., has lain idle since 1936 flood forced its last owners, the Jewish Community of Haverhill, to abandon the site . . . According to Sports-writer, Walt Ryan, modern flood control has kept the old course from further dam-