



Select the spreading thickness you want—even with high moisture content top dressings.



Spreading is uniform over full width of the spreader—so non-marking wheels do not run on fresh top dressing.

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The power top-dressing machine that has the features you asked for!

- Spreads a full 39" width, travels under power over 200 ft. per minute.
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- 7 cu. ft. heavy gauge all metal hopper—you spend more time spreading, less time filling.
- Oversize balloon-type tires will not mark surface of finest greens even when the 450 lb. unit is fully loaded.
- Easy to handle . . . makes a full circle turn within its own width . . . handlebar post has pin-type hitch so unit can be towed behind other equipment.
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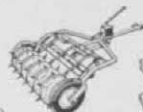
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can be effectively supplied to plants for periods of several months by this means in spite of conditions which would normally leach soluble minerals. The cost of providing for slow-release fertilizers in this fashion is high and the technique appears destined to remain of academic interest as far as turfgrass is concerned until lower cost exchange resins are developed.

### Installation and Maintenance of Miniature Greens

*(Continued from page 34)*

not be used, use a tamper or walk back and forth several times.

#### Can new felt be laid over the old?

No! The old felt should be removed by scraping or with a blow torch to heat the adhesive so that the old carpet will "peel" back. A wire brush is used to complete the job. Weather during the closed season will remove much of the old adhesive and bits of carpeting.

#### Should the felt carpet be covered during bad weather?

Not if good material is used. All-hair felt combinations naturally withstand rain, snow, ice or extreme heat and will not mildew or rot.

#### What is the average useful life of putting course felt?

Many operators prefer to change greens every year. They find that after a year's heavy service, wear spots and uneven surfaces begin to appear. The cup area, for example, is seldom stepped on. A rise or slope around the cup results.

#### What special cleaning is needed?

None. A simple broom or brush removes most surface dirt, mud, etc. Waterproof tar or similar spots are left to wear off with the flow of traffic.

#### After a heavy rain, how long must you wait before felt greens are playable?

Play can start almost immediately on a good quality felt after fairways and greens are squeegeed. Actually, squeegeeing is a safety factor since wet felt can be slippery.

#### How do you patch a bad break or hole caused by club damage or spike rips?

Avoid patching where possible, especially in tread-worn areas where it is difficult to match felt thickness. Fold back the ruptured piece, blow out the dust and dirt, then apply cement as required. Return flap and press down with your fingers around the edges, tucking in the edges and pulling surface fibers together to camouflage the tear.



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## Computers Take Work Out of Handicaps

(Continued from page 38)

man's name. This card can be attached either to a golf bag with a plastic holder or carried in the golfer's billfold. Everywhere he goes proof of his handicap goes with him. Minimax calculates either the USGA handicap or the Chicago District Golf Association handicap.

### From 217 to 130

There is a human side to the electronic production of handicaps, too. Charlie Kemp, developer and president of Minimax, has watched millions of scores go through the computer. "The worst one so far is a 217 turned in by a lady from one of the Rocky Mountain states. I have been following her career and she is now playing in the 130's", says Kemp.

"We have had two 59's, one by Charlie Coe at Oklahoma City," Kemp continues. "Our key punchers have been told not to punch any score under 66 without asking about it, but with people like Hogan, Nelson, Earl Stewart, Ernie Vossler, Shelley Mayfield, Spec Goldman, Dudley Wysong (who just broke the course record at

Northwood with a 63) on our handicap lists we are queried fairly often. Probably our most consistent golfer is a member at Houston Country Club. He hasn't been above 83 or below 80 in almost two years."

### Cost Is Reasonable

It would seem that a service such as Minimax offers would be prohibitive in cost, but this isn't true. At most clubs and associations the members are billed yearly for the service. At the municipal courses players sign up on a subscription basis. According to Bill Trombley, a PGA professional with many years experience, president of Dallas' Brookhaven CC, and vp and sales manager for Minimax, some clubs and associations charge in excess of Minimax invoices and make a profit. Most, however, merely charge the member the Minimax fee. This depends on the number of people involved and the frequency of the calculation. A few clubs pay the entire cost for their members. The Minimax season's fee runs less than a package of golf balls. That's cheap for getting rid of one of golf's king size headaches.

Women's Metropolitan GA Championship will be played at Old Westbury CC, June 24-28.

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3 Foot Spread

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3 Horse,

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## Fraser Top Dresser-Spiker

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Now, for turf maintenance *and new construction*, a new Royer Shredder, the SUPERINTENDENT, tops them all—in economy, performance and versatility! Even tops the Royer you're now using. Here's how. Besides giving you the same dependable features that are in every Royer Shredder, the SUPERINTENDENT adds—

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You owe it to yourself to check this revolutionary Royer that completely eliminates time consuming and costly manual labor. Do it today. Send for Bulletin S-120 for all of the specs. You'll find the SUPERINTENDENT is budget-priced.

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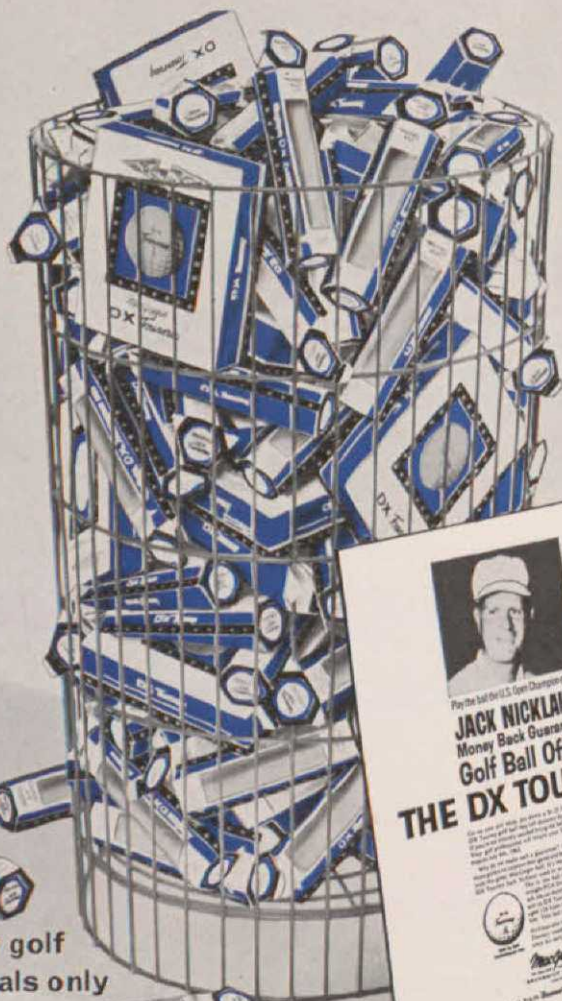
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## Fred V. Grau's Turf Questions and Answers

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### How Risk Is Being Taken Out of New Construction

Architects and builders continue to design and build new courses at an accelerated pace. Literally, there seems to be no end in sight. Harry Eckhoff of the National Golf Foundation assists newly-formed clubs and committees at the rate of almost one a day, Sundays included. His and the work of other Foundation men in guiding new clubs into a sound sensible plan of financing, designing and building is the most significant thing that has happened since the golf "boom" got underway.

It is particularly interesting that in all cases Eckhoff recommends that the clubs surround themselves with topnotch professional help. This includes a qualified architect, a consulting agronomist (if the architect does not have one on his staff), and a recognized builder who has had several successful experiences. By emphasizing the value of these professional services the Foundation has performed a service of incalculable and lasting value for the new club. It is like correcting a mistake before it is made.

### Gives Estimated Costs

Typical of the thoroughness with which Eckhoff does things, he even has a list of the basic equipment that the new club will need together with an approximation of the cost. Estimated costs of equipment, lime, fertilizer, soil amendments, etc. necessarily must be general because of local variations.

The very important fact is that a new club has an idea of its probable financial involvement right at the start before irrevocable commitments have been made.

Professional assistance is the watchword in today's developments. It costs so little in reference to the good it can do. Time was when a group of dedicated amateurs could throw a golf course together and make it stick. The high standards demand-



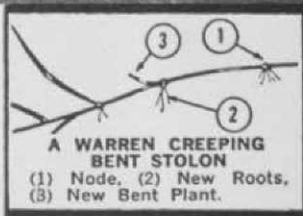


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### PLANT *Warren's* *Creeping Bent* STOLONS!

The only way to obtain uniformity of color and a perfect putting surface is by planting vegetatively with pure-strain stolons. Seeding can result in "patchwork", different colored greens. Warren's pure-strain stolons make a putting green with a velvet-smooth texture and complete uniformity of color.

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ed today render success of such a course of action highly improbable. To us it is a constant source of wonder how a skilled architect can lay out one perfect golf hole after another through woods that the layman can't even see through.

#### **Technical Accuracy**

The specifications upon which the course must be built are a work of art in themselves. Not only do they have to be legally sound as a basis for competitive bidding, but they must be technically and agronomically accurate. Physical and chemical characteristics of soils must be studied in relation to choice of grasses, lime, fertilizers, soil amendments, time and method of planting and many other details. Some architects arm themselves with the best professional advice in preparing specs. In some cases the club retains an adviser or consultant to supervise construction.

It is heartening to see that a qualified course supt. often is hired to assist with construction and to remain as the greenmaster when the course is opened for play. There is only one thing wrong with this practice — there are not enough supts.

to go around. Not enough young men are being trained for this profession.

This shortage will be corrected only so fast as the salary and other incentives become such that young men are attracted against competition from industry and other presently more lucrative positions.

#### **New Methods Prove Selves**

New techniques that are being written into specs as "Proved Practices" include:

1. Hydroseeding and hydromulching, where seed, sprigs or stolons are blended with water and prepared mulch in a tank along with starter fertilizer and "spewed" over the area to be planted. Powerful engines and non-clogging pumps make this difficult operation simple. Followup watering insures rapid establishment with minimum erosion.

2. Incorporation of a season's supply of maintenance fertilizer into the seedbed just prior to grass establishment. This new research-proved technic has experiment station backing. It relieves the supt. of the need for running equipment over young seedling turf for the purpose of supplying maintenance nutrients, thus releasing labor for other jobs so important to the open-