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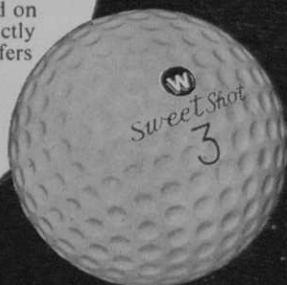
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Grau's Answers (continued)

Storing Topsoil

Q. A club where a friend of mine is one of the directors has a good supply of topsoil for use now and then when required. The problem is how to properly store the topsoil so it will keep its character and not deteriorate from rain or moisture, sun, dust or other elements. It has been suggested that it can be stored under polyethylene sheeting or, possibly, rubber-coated sheeting. What do you recommend? (Rhode Island)

A. The best way to store the topsoil is to leave it out doors in the wind, rain and sun, covered with live growing vegetation. Pile it as you wish, then follow the pattern established by the Pennsylvania Highway dept. Apply lime, if needed, then fertilize with 5-10-10 at 1,000 lbs. to the acre (25 pounds to 1,000 sq. ft.) Sow a mixture of 40 lbs. of ryegrass and 40 lbs. of inoculated Penngift crown vetch seed to the acre.

Cover with a light straw mulch, one ton to the acre, and go away and let Nature take care of it. No mowing will be required. If a few large weeds grow up, cut them off with a sickle. The crown vetch will take over the weeds and will keep the topsoil in a loamy, crumbly condition, ready for instant use.

The piles of topsoil could be covered with

poly sheeting but there would seem to be no advantage except that the soil would be dry whenever needed. The vegetative covering offers the greatest advantage.

Grass Requiring Less Care

Q. I have maintained about 14,000 sq. ft. of Washington bent for the past 20 years or so. It requires close attention and prevents me from making summer trips of very long duration. I have decided to go into some other lawn grass that would be beautiful and, at the same time, would not require as much attention and give me as much grief as the bent. In making this change I'd like to know what kind of grass to plant. We live in south-central Minn. and have good sandy loam with clay sub-soil. I presume it would be well to make the change in Sept. and remove all the bent sod. About how deep would you suggest we cut the sod? (Minnesota)

A. I can think of no combination that would be more suited to your conditions and to your climate than a mixture of Pennlawn creeping red fescue (70 per cent), Merion blue (30 per cent). This mixture should be seeded at the rate of 2 to 2½ lbs. to 1,000 sq. ft.

Yes, the bent sod should be stripped and removed. I would suggest cutting it about one inch thick. If the grade of the lawn is exactly the way you want it, I doubt if I would do any seedbed preparation beyond going over it

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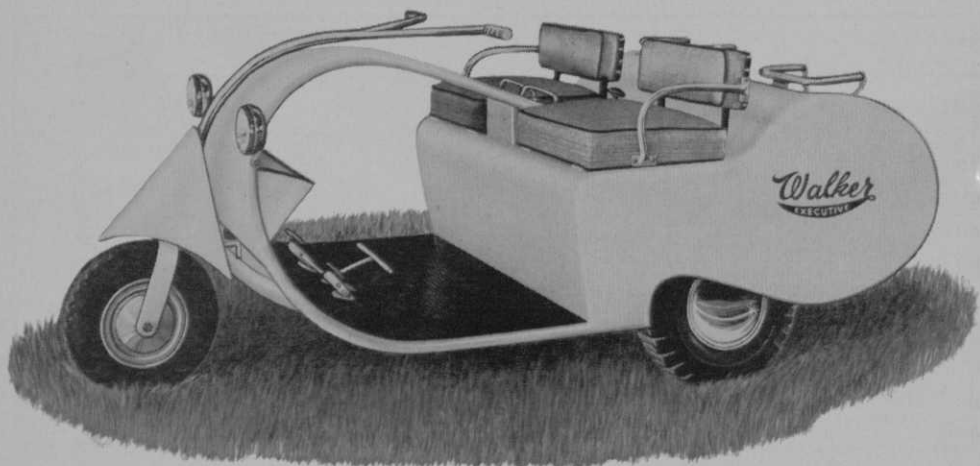
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6 or 8 times with an aerating machine to cultivate the soil and to punch it full of millions of holes. During this process incorporate whatever lime, phosphate and potash may be required according to the soil test. The soil test can be made in advance of stripping so that you can have all materials available when aerating is started. The various passes of the aerating machine will help work the materials into the seed-bed.

As a last item before sowing the seed, I would spread 20 lbs. to 1,000 sq. ft. of nitrogen fertilizer. This will provide adequate nitrogen for rapid establishment of the fescue and Merion and feed the turf for an entire season.

I would start immediately. Mid-August would have been even better. Merion needs warm soil to germinate quickly and to establish turf before cool weather sets in. Pennlawn fescue thrives under almost identically the same conditions.

You may expect to find some of the Washington bent coming back into the lawn. That which reappears can be discouraged by treating the patches with 2,4D. Bent is very sensitive to 2,4D and can be killed while fescue and Merion will not be injured. The height of cut should be about 1 in., no higher.

These grasses will require infinitely less maintenance than bent and probably need to be irrigated only two or three times in a season. One fertilization a year with a controlled release is all that you will need.

It is recommended that the clippings be re-

moved, especially when they are heavy enough to lie on top of the turf and become unsightly and a harbor for insects and diseases.

A Pair of Pests

Q. I have some patches of clover and also some patches of silver crabgrass on the fringe area of my greens. I would like to kill this grass. What do you think would be the best material to use. I want to replant these areas in bentgrass. (Kansas).

A. Clover largely can be eliminated through the use of nitrogen fertilizer. Nitrogen feeding on a good grass can choke out clover without the need for chemicals if soil conditions are good and management practices are favorable. Overwatering and starvation are sure ways to bring in clover and other unwanted growth.

In replanting these areas in bentgrass I suggest that you consider using Pennncross creeping bentgrass seed. Pennncross has been proved to be a highly desirable grass for putting greens with great vigor and sturdiness and ability to keep out unwanted growth. Be sure to fertilize generously in the seedbed before sowing the Pennncross seed. One lb. of seed to 1,000 sq. ft. ordinarily is sufficient to produce an excellent stand of turf. Superior grasses adequately fertilized and intelligently managed are your first defense against weeds.

Buyer's Service • P. 85

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Swinging Around Golf

(Continued from page 20)

says architect will be engaged for the job.

Sterling, Colo., talking about building munny course . . . It had one, Columbine, that operated for 22 years and was abandoned in 1950 . . . Planning to build course at Florissant, Mo. . . . Park and Recreation Commission recommends building 9-hole munny course at Amarillo, Tex. . . . Fort Walton Beach, Fla., hoping to build municipal course on Eglin Air Force Base land.

Propose building 18-hole Benson Park course at Omaha . . . Gull Harbor Development, Inc., plans big residential and business development, including course, six miles north of Olympia, Wash. . . . Expect to open second 9 of White Mountain CC, Pinetop, Ariz., May 30, 1960 . . . Sidney and Donald Robertson building 9-hole course near Decatur, Ill.

Jacksonville Beach, Fla., which expects to finance its new course by selling bordering building lots, didn't get a bid on first offering of the lots . . . Delay in starting course construction, absence of electric, water and sewer services and uncertainty about nature of operation of

course given as explanation of lack of bids.

Francis E. Sheehy is retiring as headmaster at Waltham (Mass.) High School where he has been a teacher since 1928 but is continuing in his other job as professional at the Bass River CC . . . He started in golf at Wollaston GC as a caddie while Mike Brady was pro . . . Sheehy was captain of golf teams of 1923-24 at Dartmouth . . . Hatten Farm GC 9-hole public course at Webb City, Mo., sold . . . Will be subdivided.

Senior 16-men teams of US, Great Britain and Canada will play at Pine Valley Club, Clementon, N. J., Nov. 5-6 . . . Eight men of each team will be in 55-64 group, four in 65-70 age class and four older than 70 . . . Ellis Knowles will captain US team.

Call for bids on Jacksonville, Fla., Hyde Park and Brentwood municipal courses which were closed April 7 when US District court ordered race bans removed . . . Bill Wright, 23-year-old Western Washington College student who recently became first Negro to win USGA Publinx championship, became first Negro eligible for USGA Amateur championship through that victory.

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New TURFACE soil supplement keeps greens alive and fresh!

1 RETAINS MOISTURE AT ROOT LEVEL

TURFACE, the first *complete* soil supplement specifically recommended for conditioning golf-course greens and tees, eliminates hot-weather burn-out *by absorbing its own weight in water*. This root-level holding action retains enough moisture to minimize the damage from prolonged dry spells.

2 STIMULATES DEEP ROOT GROWTH

Soil conditioned with TURFACE allows water to quickly penetrate down to root level and below. This moisture will *remain* deep in the ground long after surface soil has dried out. Less frequent watering is required, and the roots will grow toward the moisture, producing a deeper root structure.

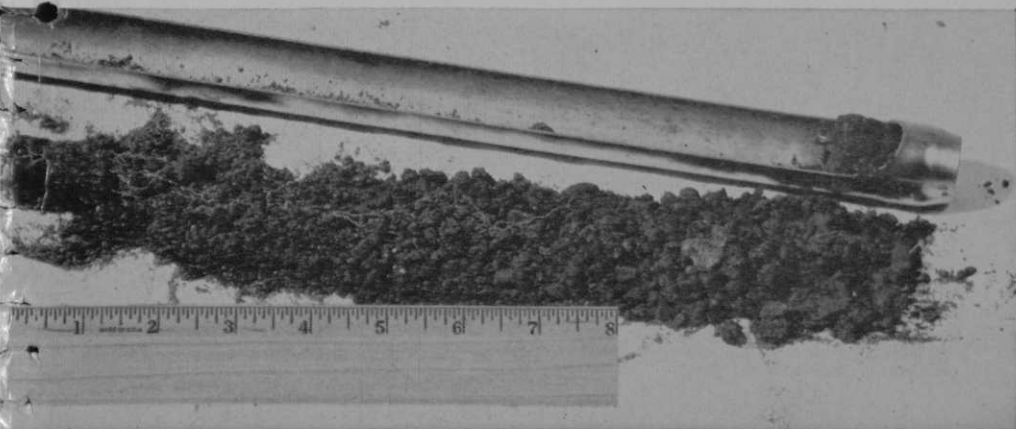
3 GIVES SUPERB DRAINAGE AND AERATION

TURFACE *drains 4 times faster than sand!* Greens are playable even after repeated hard showers! And top dressing a green with TURFACE produces a constantly loose soil structure. Wet or dry, TURFACE will not compact, cake or break down. It acts as a "separator" in sticky, gummy soil—letting roots breathe.

4 REDUCES DANGER OF DISEASE

Greens constructed with sand cannot hold or absorb the water that is *essential* to good root and turf structure. TURFACE works to control moisture content, thus reducing the danger of disease when high moisture or drought conditions prevail.

greens all season long!



HERE'S PROOF THAT TURFACE PRODUCES HEALTHY GREENS!

This plug, taken from a green top dressed with TURFACE for five seasons, shows soil still loose and granular. Note how light character of treated

soil permits 8" root growth. (Standard twice-a-year treatment: One 50-lb. bag of TURFACE for each 500 square feet of green surface.)



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June with 11,220 rounds was biggest month's play at Peoria, Ill., North Moor municipal course since it was opened on July 4, 1929, reports pro Bill Kurek . . . Alexandria (La.) G&CC spending \$140,000 on improvement program . . . Pelham (N. Y.) CC to spend \$200,000 for clubhouse addition.

Walter Kolb, Winged Foot president, says club netted \$75,000 on 1959 National Open . . . Women's Golf Assn. of Palm Beach to hold Bessie Fenn tournament annually in March honoring the beloved Boss Bessie who retired recently after 34 years as manager of the Palm Beach GC where she succeeded her father, pioneer American pro, Arthur H. Fenn . . . Indian Mountain CC 9-hole course at Kresgeville, Pa. sold by Alex Traycheck for reported \$60,000 . . . Buyer is Pocono Vacationland Realty Co., Mountainhome, Pa., President of the Pocono company is Vance C. Megargel who owns several Par-3 courses.

Plan to open first 9 of Williamsburg (Va.) CC in October . . . Alex Watson is course supt. . . Pro Jack Murphy of Vestavia CC, Birmingham, Ala. to have \$40,000 shop built for him as part of club's expansion program . . . Tony Leonelli, supt., Tooele (Utah) muny course, severe-

ly burned battling fire that destroyed maintenance building and equipment.

C. L. Parris, toy manufacturer of Savannah, Tenn., and a golf enthusiast, is building teen-age country club at Savannah . . . Club will be called Kadet Teen Town & Country Club . . . It will be operated by elected teen-age officials under guidance of an adult manager . . . 9-hole Par 3 course, practice green, range, among facilities . . . St. Louis Post-Dispatch showing picture of "Easy Ed" Macauley's "Golfland," an 18-hole miniature course on a half acre at a shopping center says "Miniature Golf, Depression Years Pastime Makes Elaborate Comeback."

Complete new clubhouse at Traverse City (Mich.) G&CC in time for fourth annual Walter Hagen invitation tournament which draws 200 Michigan amateurs . . . Walter has his summer home near Traverse City . . . Willard (O.) GC opens its 9-hole course designed by Harold Paddock.

Equipment building and equipment and supplies of Plum Hollow GC (Detroit dist.) burns . . . Loss, \$30,000 . . . Another big development, including 18-hole course, planned for Palm Springs, Calif., area is Golconda which accents appeal to "senior citizens." . . . Clarence Ausburn

now supt., Columbia, Mo., munny course, succeeding Leon Hart who resigned.

Dick Mulvaine, for past two years on staff at Las Posas CC, Camarillo, Calif., named head pro, succeeding Bud Holscher who went to Lakeside CC, Los Angeles as pro . . . Ed Dudley resigns as pro at Eldorado at Puerto Rico and Rockefeller interests will select Ed's successor from among tournament circuit applicants.

Carl Gieson now pro at the new North Shore CC, North St. Louis, Mo., and Harold Davis formerly of Glen Echo is North Shore's new supt. . . . Homer Herpel, formerly North Shore pro, continues to be associated with the club in an advisory capacity but will extend his activities in the organization he and Chic Adams formed for golf club planning, building and membership campaigning.

Interesting piece in Macon (Ga.) Telegraph that Harley Bowers wrote about the Hugh Moores, Sr. and Jr. . . . Father and son were pros in baseball before they became golf pros . . . Boston Traveler's series of biographies of pros in Boston district drew much favorable comment from golfers in the area . . . Burlington, Ky., meeting to organize golf club, gets details from L. P. Blankenship, Nashville,

Ky., pro and architect.

Metropolitan (NY) PGA lost two veterans in the passing of Fred Grieve, pro at Glen Head and Tom Vinton of Hempstead . . . Grieve began his pro career at Lee-wood in 1930, then was at Soundview for three years and had been at Glen Head since the club opened in 1948 . . . Cancer took this fine gentleman sportsman . . . Vinton came from Scotland in 1929 and went on the pro staff at Cherry Valley GC . . . He had been at Hempstead the past four years.

Greater New Orleans Open sponsors talking about raising purse from \$20,000 to \$30,000 for next year's April event . . . Alex Stewart mgr. of Palo Alto (Calif.) Hills GC now being built to plans of Clark Gasson . . . Bill Deck, former asst. at Bethesda Naval Hospital course, named pro at Belair G&CC (Washington dist.) which recently opened first 9, will open second 9 next month and have open lighted Par 3 next spring.

Pines CC, Mount Airey, N. C., opens first 9 . . . Ralph Tilley is pro . . . White Lakes, 9-hole semi-private course at Topeka, Kans., popular with personnel at Forbes Air Force Base, has been sold for subdividing . . . Forbes personnel plan-

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