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VELVET BENT

This seed is grown in rows and rogued each year. For this reason we offer pure strain seed with an extremely low weed content. For fungus resistant greens—sow Raritan.

Grass Seed Division

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FOR LASTING SERVICE
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Clubhouse Traffic Matting

RUNNERS

—outlast ordinary corrugated floor matting 3-to1. Made of special oil-resisting synthetic rubber,
Melflex heavy duty, non-slip runner material is
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All Melflex runner matting is a full 1/8 in. thick. 20 yd. and 22 yd. rolls—36 inches wide. Unmatched for locker aisles, corridors, step landings, pro shops, etc.

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—are tougher than the toughest underfoot traffic anywhere in the clubhouse, or outside—but alive with buoyancy that relieves fatigue. Melflex fabric type link mats are oil-resistent and offer an 80% tread surface that is slip proof, wet or dry. Their full half inch cushion is self-cleaning and lays flat or adjusts to uneven flooring.

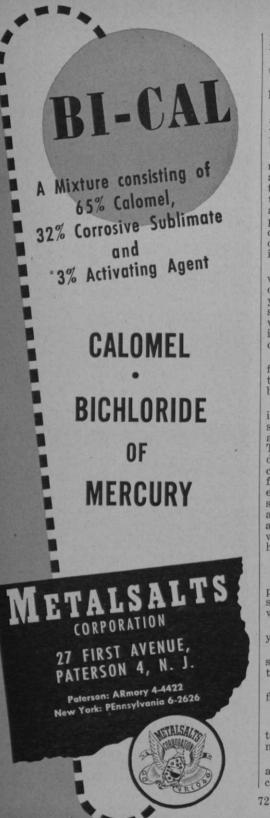
Available in standard sizes or in special sizes made to your order.

MELFLEX specially molded, Non-slip Safety Step Treads also are ready for immediate delivery.

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dam, pump and pumphouse, excavation for pipe lines and back filling.

MATERIALS—Topsoil, fill, sand, manure, lime, fertilizer, seed and stolons.

TRANSPORTATION— Equipment, housing.

The grading and turfing of your course are two of the deciding factors as to whether your course will be one of the best or just another golf course.

The construction period is the time to make any and all physical changes in the areas that are to be turfed. It is also the time when all materials needed to establish a fine stand of turf be incorporated into the soil prior to seeding and planting. It costs just so much to move a cubic yard of material, and the amount of material moved is one of the determining factors in the cost of your course.

Establish the "do it now" slogan. It will pay dividends in a turf you will not only be proud to play on, but one which you will thoroughly enjoy. This same reasoning is true of clearing, drainage and water system. You cannot save on these items. They must be done and they all cost money.

If you do not do things properly the first year it means expenditures through the ensuing years and prolongs the time before you will have a good course.

One of the prime requisites of any course is good turf. The finest designed and constructed course is not a golf course until a good stand of turf has been established. Turf which if properly maintained will endure for the life of your course. The success or failure of good turf depends on the following elements: A scientific study of existing soils and drainage, selection of seed and stolons best suited to your soils and climate, followed by proper maintenance. No experienced construction engineer would submit a bid until these conditions have been investigated thoroughly.

Drainage Essentials

Drainage is a very important factor in producing good turf. If tile is to be used, size should be sufficient to carry off the water, better too large than too small.

Be sure that in your drainage system you:

Cover the open joints with tar paper or straw to keep loose earth from entering the tile before backfilling.

Protect each inlet with block of slate or flat stone.

Protect outlets; setting tile in concrete. Screen outlets with ½" mesh wire gate to keep out rodents and other small animals.

I make an issue of such details because, although the above are elemental specifications known to all contracting engineers, it is amazing how often they are neglected and result in faulty drainage.

Here are a few rules to follow:

Do not tile when an open ditch can be used.

Do not tile if open ditch can be used. Never let anyone talk you into board, plank or slab wood drains.

Nothing can take the place of well con-toured swales and grass hollows with suf-

ficient fall to remove water quickly.

A well constructed green built of good soil with proper surface run off seldom needs under-drainage. Golf course turf will not survive where water remains on it for any length of time. This is where you need experienced men in construction.

It is a good plan for the club to engage a greenkeeper during the construction period. He will then be in a position to study

all details of construction and be better able to handle subsequent maintenance. Use the same discretion in planning your course construction as you would in your business transactions. Investigate thoroughly and make sure that you are really getting the best for your money.

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Fully equipped sporty, eighteen-hole daily fee golf course. Located on two main highways in beautiful Palos Park section, southwest of Chicago; approximately 185 acres improved with clubhouse, greenkeeper's house, pro shop, office, machinery barn. Equipment consists of furniture, and furnishings for clubhouse, etc., two tractors, two power greens mowers, etc. Price \$100,000.00.

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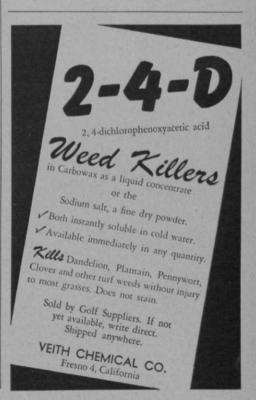
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GOLF & GARDEN EQUIPMENT CO.
BLUE MOUND RD., ELM GROVE, WISCONSIN

Turf Disease Control

(Continued from Page 49)

plants are in the second or third leaf stage, or when about one-half inch high. A single application of Spergon (11-3 oz. in 10 gallons of water to 1000 square feet) on newly seeded Colonial bent checked a severe case of damping-off, caused in this instance, by a Fusarium sp.

To date, the top ranking compounds for control of large brown patch (Corticium vagum) are Zerlate, Puraturf, Thiosan (Tersan), and Calo-Clor. The fungicidal value of the Calo-Clor was somewhat off-set by the considerable injury or "burn" it caused during hot weather. In a series of tests, "Suspension" Calo-Clor 3285 proved to be somewhat superior to Calo-Clor. This was probably due to the more uniform distribution of the toxicant obtained with the "Suspension" form of Calo-Clor.

The outstanding materials for control of dollar spot (Sclerotinia homoeocarpa) have been Thiosan (Tersan), Puraturf, and Calo-Clor. Injury has not been evident on any of the plots treated with Puraturf, and in most cases, Thiosan can also be considered to have a wide margin of safety. So far, only one instance of "burning" has been recorded with Thiosan on the Rhode Island plots; this was observed in 1944 on less vigorous strains of velvet bent.

Standard turf fungicides failed to control copper spot (Gloeocerocospora sorghi) on Piper velvet bent in tests in Rhode Island, but Puratized 177, Puraturf, and Zerlate prevented the disease even though it was prevalent on surrounding plots in epidemic proportions. Forty days after treatment, less than 1% disease could be found in plots to which Puraturf and Puratized 177 had been applied, while about 3% disease was observed in those plots treated with Zerlate. Puratized 177 plots were still 99% free two months after treatment, whereas the Puraturf and Zerlate plots

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showed 6% and 15% disease, respectively. In these same tests, as much as 24% of the grass was injured by copper spot on the check areas.

New Developments

At present, the development of turf fungicides is largely an empirical, or trial and error method. Certain special techniques are being used to determine the potential fungicidal value of chemicals, but placing the control of turf diseases on a firm scientific basis must await the know-



View of the experimental plots at Rhode Island where turf disease studies are conducted.

ledge of how the toxicant inhibits or stops the fungus and what is the mechanism involved. Along with developing new disease controlling agents, fundamental studies should be undertaken on the life processes of turf fungi and the lethal action of the fungicidal chemical on the organisms.

WAR DEPT. CITES MONTEITH—John Monteith, Jr., widely known in golf for his work with the Green Section, has been awarded a War Dept. "commendation for meritorious civilian service." Monteith's award was accompanied by a letter from Maj. Gen. Thomas M. Roberts, the army's acting chief of engineers, lauding Monteith for pioneering in army turf work for control of erosion and dust at military installations and for assisting "in the engaging of other experts for army engineers' field offices." Among those "other experts" were Frank Wilson, George Milnes, Harry Burkhardt, Ed Cale, Bob Dunning, Gordon Jones, John Bengston, Marshall Farnham, Howard Goldthwaite, Jimmy Blackledge, Stan Graves, Claude Whalen, Gus Brandon, O. S. Baker, Norman Johnson, and Joe Lentz, together with other ace greenkeepers.

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says Arthur McKnight, of Philmont C. C., Bethayres, Pa., shown (left) on the 12th fairway of this well-known Club's North Course.

"When members compliment me on the course's excellent playing condition, I give Agrico and your soil service a full share of the credit," says Mr. McKnight—just as do many other well-known Greenkeepers who use Agrico Country Club Fertilizers on greens and fairways with outstanding results. Agrico is specially made for this purpose-it's America's No. One Golf Course Fertilizer. Order Agrico nowask your regular source of supply, phone nearest A. A. C. Sales Office, or write to The AMERICAN AGRICULTURAL CHEM-ICAL CO., 50 Church St., New York 7, N. Y.

AGRICO Country Club Fertilizer

WOOD TO DEFEND TITLE - Craig Wood, duration national Open champion, will defend at Canterbury GC, Cleveland, June 13-15, the title he won at Colonial CC, Fort Worth, in 1941. Wood's been frequently hospitalized by a bad back and recently had another operation in preparation for the Canterbury event.

DR. SALBURY ADDS 2.4-D-Dr. Salsbury's Laboratories, Charles City, Ia., extensively known in the farm field for poultry remedies and other farm pharmaceuticals and chemicals, have worked out a "Weed-Kill" selective weed killer with a selective weed killer with a 2.4-D base. The Salsbury field men who've had considerable training and experience in use of chemical preparations have been we'll schooled in the most effective and safe application of the material and are available for consultation with greenkeepers and chairmen.

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HORTON-BRISTOL IN HUDDLE—Horton-Bristol Sales Corp. executives, sales representatives and ad agency men met in mid-February at the company plant, Bristol, Conn., to start the organization's aggressive return to golf and fishing equipment business, following a grand war job.



Among those at the sessions: L. to R., back row. Everett W. Hoyt, Charles W. Hoyt Co.; John Gavin, Eastern Sales; Frank A. Whipple, Charles W. Hoyt Co.; J. H. Hurst, Sales; Al McCann, New England Sales. Center row: William J. Beuhrer, Mid-Western Sales; Joe Finn, Mid-Western Sales; Tom Higgins, Sales Mgr.; H. L. Judd, Ass't Treas.; W. J. Melinder, Production Mgr. Front row: M. O. Treadway, Sec.-Treas.; H. C. Lagerblade, Pres.; T. G. Treadway, V. P.; R. W. Mickam, Charles W. Hoyt Co.

ALUMICAST TEE OUTFIT—Alumicast Corp., 548 N. Sacramento Blvd., Chicago 12, Ill., now has ready for delivery a new cast aluminum tee outfit consisting of a rotary type ball washer of minimum moving parts, a towel rack with towel 6½ inches x 21 feet long, and an extra towel roller. A sectional mounting post is optional with the outfit. The roller towel can be removed only by unlocking with a key and its feed is easily adjust-

able to any desired length. The ball washer has two palmotto fibre brushes mounted on aluminum bases, rotating in opposite direction, one 3 times faster than the other. A simple adjustment compensates for brush wear. The washer, equipped with drain plug and easily serviced, is made of cast aluminum and is handsome, splashproof and weatherproof. The washer is the invention of Tom Hecklin, manager of the firm's golf department and former country club manager.

THE WINNER

in

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THE (91h (9rthard (C52) STRAIN of creeping bent received the TOP RATING of all COMMERCIAL bents in the U. S. G. A. Green Section trial plots throughout the United States. This includes bents planted by stolons as well as planted by seeds.

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Samples to your club for the asking.

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LAWN SINOX for the control of clover and weeds in bent greens, and crab grass in blue grass without discoloration.

WEEDONE for the control of Dandelion, Plantain and Buckhorn in blue Grass areas; little discoloration. Weedone is the new 2,4-D Weed Killer. Effective, inexpensive. Write for prices

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New Fungicide Tests Show Control Without Injury

Puraturf, trade name of the organic mercury fungicide that first was known to greenkeepers by promising results produced in dollar spot and brown patch experiments at Rhode Island Agricultural Experiment station in 1943 and 1944, now is being distributed for its makers, Gallowhur Chemical Co., by Niagara Sprayer & Chemical Co., Middleport, N. Y. The fungicide, which was identified as Puratized N5D in the earlier Rhode Island tests, was subjected to extensive tests at 30 clubs in various parts of the U. S. during 1945. Results of the tests are reported as highly satisfactory. Puraturf showed excellent control of dollar spot, brownpatch and copper spot, without causing injury to turf. Recommended rate of application is 1/2 pint Puraturf with 50 gals, water, applied to 5,000 to 6,000 sq. ft. of turf. Application is by spray. The product mixes readily with water and does not have to be stirred constantly to be kept in solution. Preventive program recommended is spraying every 7 to 10 days, depending on rainfall and degree of infestation; beginning before the disease appears and continuing through the season.





Bob Haggerty

Haggerty Heads Wilson Division

Bob Haggerty has been named by Wilson Sporting Goods Co. to head its new Eastern pro division. Bob will direct and supervise operations from New York. Units of the division will be in New York City, managed by Jim Beattie, assisted by Reg Watkinson and Jim Blassi; Boston, with Harry Colburn; Philadelphia with Jim Laverty; Syracuse with Francis Miller and Washington with Harry Paler.

Bob's one of the swell and smart vets of pro golf. He started in 1913 with Spalding, then went with Wanamaker. He was with them during World War I when clubs and balls were imported as well as made here and Silver Kings sold for \$15 a dozen. For several years Bob managed Wanamaker's Boston office, which had taken over the Ouimet and Sullivan sales agency. Illness compelled Bob to go back to New York and after his recovery in 1920, he joined U. S. Rubber with Capt I A Scott

managed Wanamaker's Boston office, which had taken over the Ouimet and Sullivan sales agency. Illness compelled Bob to go back to New York and after his recovery in 1920, he joined U. S. Rubber with Capt. J. A. Scott.

In May 1923 Lawrence Icely and Bill Kiley got Bob to come with the growing Wilson outfit. With the late Tom Macnamara, Bob really began making Wilson a factor in pro sales. When Icely made Wilson's first strong power drive for pro business with the Ogg clubs and followed up with the Turf Rider woods, Bob was a spearhead of those highly successful campaigns. Haggerty has always been an astute and faithful pal of pro businessmen, and is considered by many of them to have been a prominent element in their businsss success.

DETROIT CONSIDERS CADDIES—Detroit DGA Caddie Welfare committee annual report recommended paying caddies 25c extra for caddying in rain, setting adequate fees for kids waiting while their players have lunch and bonuses for kids who show up 75% or more of the golfing days.



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BALANCED GOLF BAG CO., Chicago, manufacturers of Balanced golf bags, has announced the appointment of Jackman Sportswear, Chicago, as distributors to the golf professional trade in Ark., Ill., La., Mich., Miss., Ohio, Okla., Tex. and Wis. Jackman also has been appointed national distributors for the golf and country club trade by The Metropolitan Line, Chicago, for their Plasti-Clog line of shower clogs.



Jim Nichols at Camp Edwards hospital exhibitions, one of the 23 camps and hospitals Jim played at during his recent USO tour of Mass., N. J., N. C., Ky., Ohio, Fla., Ind., Tenn., Va., D. C., N. Y., Pa. and Ga. Jim reports that golf is proving great for restoring self-confidence of amputees and that some of these kids are rapidly developing into much better than the average physically unhandicapped players. Spalding is sending Nichols to hospitals and camps between his pro calls and exhibitions.



Harry Welch

WELCH REJOINS SPALDING—Harry L. Welch, former pro, has joined A. G. Spalding & Bros. He will cover North and South Carolina and the greater part of Tennessee as a golf pro representative. Upon graduation from Duke University where he starred as a football player, Welch entered the golf business at the C. Salisbury, N. C.

American Legion GC, Salisbury, N. C. During 4 years service in the Navy he took part in a number of overseas events.

JOHNNY WALKER has been promoted to sales representative in the States of Iowa, Kansas, Nebraska and Missouri (St. Louis district not included) for MacGregor Golf, Inc. Walker became interested in golf as a youngster in 1927 when he caddied at the Evanston (Ill.) CC. He learned clubmaking and later was named assistant factory superintendent at the MacGregor plant in Dayton, Ohio. With his background he turned to sales and that, in turn, added to his taking charge of the Chicago office for MacGregor.

In his new position he eventually will



Johnny Walker

make his headquarters at Kansas City.

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