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THOUGH the demand will over-tax our capacity for some months to come, we will not sacrifice the high quality of workmanship and materials that made the Dubow trade mark a symbol of golf club excellence.

However, every effort will continue toward shortening the time when we can serve you more promptly. Thank you for your patience.

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March, 1947

81

Southwest Turf Men Meet

By JAMES R. WATSON, JR.

Graduate Asst., Dept. of Agronomy, A&M College of Texas

Dr. L. G. Jones, Prof. of Agronomy, A & M College of Texas, Dr. O. J. Noer, Agronomist, Milwaukee, Wis., and others at the first Texas A & M short course, held Jan. 20-22, emphasized drainage as being the major problem confronting greenkeepers in the Southwest. With a great variation in rainfall from 5 to 60 inches in the state it is imperative that all greens be designed and constructed so they will drain properly at all times.

A uniform layer 6 to 8 inches deep of a medium sandy loam, containing 20 to 30% by volume of good quality fibrous organic material is considered ideal for establishing and maintaining good turf. Texture of the soil should be such as to allow 50% pore space, half of which should be occupied by water. Such porosity permits good drainage and aeriation of roots which are so essential in good turf culture.

It was emphasized that alteration of texture on a large scale is not practical, but on greens, which must support a good playing surface under adverse conditions of moisture, heat, and usage a good physical condition must be developed. Texture is not as important on Bermuda greens as on bents, though remarkable response may be elicited by improving texture on Bermuda greens.

Dr. Noer reminded that it was not possible to incorporate admixtures of humus, clays or sands after the turf is established; "therefore on greens already established the topsoil must be built by repeated applications of good topdressings. Material used in composting a topdressing should contain enough medium to coarse sand and organic matter to allow soil to crumble if it becomes puddled by excess moisture. Sands of uniform texture should not be used as they tend to pack and prohibit normal root penetration. Excessive amounts of organic matter will develop springy and spongy turfs. If peat is used as the source of the organic material excessive amounts may cause scalding in the summer. Dairy loams and manure as a composting material are undesirable due to concentration of nutrients in large applications and rapid decomposition especially under the high temperature prevailing in the state. Fertilizer nutrients especially nitrogen should be applied as needed.

It was emphasized that surface drainage was the most rapid method of removing concentrations of water. The green should slope in 2 or 3 directions thus facilitating immediate run off.

Noer in discussing fertilizer stated that correct usage of nitrogen and water is one of the major problems in turf management. Nitrogen, he stated, should be applied at rate of 40 to 50 lbs. per green 2 or 3 times a year preferably in spring and fall. During hot dry weather no nitrogenous fertilizer should be applied. Phosphorous and potash applied twice a year at the rate of 5 to 10 lbs. of 20% superphosphate and 10 lbs. of 60 per cent muriate of potash per green maintain a sufficiently high fertility level of these nutrients.

Liming is quite often necessary to maintain a pH of 6.5 to 7, particularly in the more humid areas of the state. Contrary to popular belief Bermuda will sometimes respond to liming.

Turf Grasses for the Southwest

Potts and Warner in their discussion of adapted grasses named Bermuda as the most widely used turf grass in the southwest. A native of India it was imported to this country by way of the Bahamas and spread very rapidly over the entire south. This grass responds well to good management and fertilization. Under a supervised program of selecting and breeding adapted strains of Bermuda promise to compete favorably on greens with the better bent grasses. As a step forward greenkeepers who have observed small areas of Bermuda exhibiting desirable characteristics have been requested to send samples to the Texas Agriculture Experiment Station for further selection and propogation.

Of the more recent introduced species exhibiting possibilities Manila grass (Zoysia Matrella) is probably the most outstanding. Although a rather slow spreading grass, given sufficient time it develops a leafy, dense, highly desirable sod. It is very versatile, grows well in shade and remains green for long periods during the year.

Centipede grass, (Eremochola ophiuroides) as well as St. Augustine (Stenothaphrum secundatum) are desirable for fairways in areas having 30 to 50 inches of rainfall. Carpet grass (Axonopus affinis) is recommended on the less fertile. MILORGANIZED TURF GROWS BETTER

Fairways, greens and tees fertilized consistently with MILORGANITE, the natural organic nitrogen plant food, are distinguished by rich, deep green color, uniform texture and a healthy, closely knit root system. "MILORGANIZED" turf resists disease and withstands many of the climatic rigors to which less sturdy turf succumbs.

These are reasons why Golf Clubs use more MILOR-GANITE than any other commercial fertilizer. Our Soil Testing Laboratory and Turf Service Bureau are available to you upon request.

> THE SEWERAGE COMMISSION MILWAUKEE • WISCONSIN

PLAN your golf course watering installation for long lasting thrift and dependability.

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leadership in golf course irrigation is the result of 25 years of specialized engineering. Hundreds of America's finest courses know the importance of specifying BUCKNER equipment. Get the facts. The nearest Buckner dealer will gladly furnish them.



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Years of scientific experimentation have demonstrated the value of PURATURF as an effective turf fungicide. Keep your lawn and turf in a good, healthy condition by using PURATURF regularly. It will pay you big dividends by saving time, labor and money.

EASY TO USE! This liquid organic turf fungicide mixes easily with water. No special equipment is necessary for application. Simply mix with required amount of water, stir, and apply as directed. Send for complete details today.

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The new ORGANIC CADMIUM turf fungicide tested experimentally for two years with such outstandingly successful results. A wettable powder, it can be used as a dry mix or spray. Now available in limited commercial quantities, Write for full details.

Distributed by NIAGARA SPRAYER AND CHEMICAL DIVISION FOOD MACHINERY CORPORATION Middleport, N. Y.

> Manufactured by GALLOWHUR CHEMICAL CORPORATION New York, N. Y.

March, 1947

KENTUCKY BLUE CHEWINGS FESCUE SEASIDE BENT COCOOS BENT TRIPLE A BENT ASTORIA BENT VELVET BENT COLONIAL BENT

And other Turf Producing Grasses and Mixtures on hand for immediate shipment.

Also, we can serve you quickly on 2-4D Weed Killers, Brown Patch Remedies and most Golf Course Equipment items.

Price List on Request



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Wichita, Kans.

Dept. D

more sandy areas located in high rainfall belts.

Under more arid conditions Buffalo grass (Buchole dactyloides) a low growing stoloniferous perennial native to the great plains, and Blue gramma (Bouteloua gracilis) a bunch grass, are recommended for fairways.

Potts and Warner further stated that yellow beard (Andropogon ischaemum) a new grass imported from the Mediterranean region primarily for forage, may under certain conditions give a very desirable turf for fairways. Although a bunch grass it will by close mowing grow flat, thus giving a desirable fairway turf.

Ferguson in his discussion of weeds in turf, stated where greens and fairways are managed correctly weeds are not a serious problem. The chief source of weed seed on greens is from topdressing, as many as 70,000 weed seed per sq. ft. may be distributed by topdressing. Ferguson states that the addition of calcium cyanimide at the rate of about 13 lbs. per sq. yd. to composting material will not only speed up decomposition but will also destroy weed seed.

When the arsenicals are used correctly they are very good for the control of weeds. The newest weed killer, 2, 4-D, is being studied in Texas to find reasons for its erratic action under variable conditions. Ferguson emphasized that correct dilutions are essential in all selective sprays. Esters—salts of the acid—have possibilities when applied dry with fertilizer or sand.

Diseases

Dr. Grau, in discussing diseases of turf in Texas pointed out dollar spot, brownpatch, die-back and damping off are the most common diseases infecting greens.

On rye grass heavy application of nitrogen at time of planting produces a plant

CERTIFIED SEED

Limited quantity — 1946 crop. Hardy Eastern grown. Write or telephone your needs.

BLAINE'S TURF SEEDS I. E. Blaine, Grower, Tel. UNION 0952 89 Halsey St., Providence (6), R. I.

Golfdom

highly susceptible to damping off. On the other hand after rye grass plants have become well established the use of a nitrogenous fertilizer may be effective in the control of damping off by stimulating a more rapid growth of the grass.

Scald can be attributed to poor management more than any other factor, therefore the amount and time of watering are very important.

At the banquet held in Sibsa hall Tuesday evening, January 21, 1947, Byron Nelson was one of the principal speakers. Following the banquet the Texas Turf Association was organized. Officers elected to head the new organization were Gordon S. Jones, C.A.A., Regional office, Fort Worth, Texas, President; Dr. Howard B. Sprague, Texas Research Foundation, Dallas, Texas and Sam Schneider, pro, River Oaks CC, Houston, VP, and George Aulbach, Amarillo, Sec.-Treas. After organization was complete 68 individuals joined the newly formed association.

The immediate aims of the association are to establish and promote a research, teaching and extension program for better turf in the state of Texas. The need for such a program was immediately apparent when it was pointed out that in the past agricultural technicians, in their search for suitable forage grasses, have discarded many strains of turf grasses because they were inferior from a forage standpoint, but did exhibit characteristics which are desirable for turf. Plans are now being made to establish a turf nursery in collaboration with the Texas Agriculture Experiment Station.

In addition to golf requirements a great deal of interest was manifested in turf for airfields, parks, playgrounds and roadsides. The conference attracted men throughout Texas, parts of New Mexico and Louisiana. Intense interest in turf in this section was evidenced by the 122 individuals enrolled.

Credit for the overwhelming success of this first Southwest Turf conference is due in large part to the untiring efforts of Prof. R. C. Potts, Dr. Fred Grau, Dr. O. J. Noer.

MIDWEST TURF MEETING

The Midwest Turf Conference, March 17-19, will be held in the Purdue Union Building of Purdue University. The conference is sponsored by the Midwest Regional Turf Foundation, Inc. Fee for the conference will be \$5.00. Those interested in attending the meeting have been cautioned to submit their reservations at once to the Purdue Union Club, the Fowler Hotel, or the Lahr Hotel, all in Lafayette, Ind.



Because of its patent-protected, rotaryscythe suction-lift cutting action, this mower cuts grass and weeds of any height, in any condition . . . cleanly, uniformly, rug-smooth. Mulchifies clip-pings for self-fertilization of turf. No need for a ''grass catcher'' or hand raking.

Keep ahead of your grass-cutting schedule with a WHIRLWIND. Write for free literature and name of dealer nearest you. Address Dept. G-347.

WHIRLWIND LAWN MOWER CORP. 9 730 W Virginia St. Milwaukee 4, Wis. lar areas.

March, 1947

ANew, Better Cultivator GREEN DRAGON

Opens up and aerates packed areas — Makes topdressing and fertilizer accessible to root bed removes grain — easy to operate without interference to turf surface.

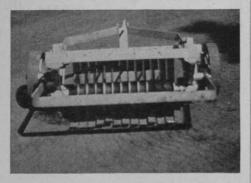


Illustration shows cultivating position. Weights on tray over axle regulate depth of cut. Circular knives made of fine knife steel. A real machine.

Manufactured by Fred Buel Write for price and literature to distributors: WORTHINGTON MOWER CO., Stroudsburg, Pa.

For Tees, Small Greens, and Lawns FLOATING HEAD SPRINKLER

Here's How The Head FLOATS Water flows through spindle S, fills space A forming a cushion of water on which head revolves. Hole D allows excess water to escape. No friction. No wear.

• Spreads water uniformly—mist or rain—plenty of it • Extra nozzle permits even coverage from 10 to 70 ft. • Floating head lasts a lifetime • Nothing to get out of adjustment • Tested — Proven • Rugged, Rustless, Compact, Fool-Proof • Guaranteed for five years • An exceptional value at \$3.95.

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Please ship me, prepaid, Floating Head Sprinklers

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CLAPPER CO. IN 25TH YEAR

The Clapper Co., 1121 Washington St., West Newton 65, Mass., is observing its 25th anniversary as golf course equipment and supply dealers. Orville Clapper, head of the company, started in 1922, handling Toro equipment for the Atlantic coast from Norfolk, Va. north to Canada, and west to Buffalo. He then also was in partnership with T. L. Gustin and Henry R. Jahn handling Toro's interests in Pennsylvania. As the business grew Gustin became head of Toro's business in Pennsylvania exclusively, Jahn took over the export sales and Clapper organized the New England Toro Co., the name of which was changed in 1945 to The Clapper Co. Under Clapper's management business was developed so 5 different companies were established in the territory to provide supply sources closer to the customers. As the business grew Milorganite and other well-known products were added to the Clapper lines. Now the company handles the New England states with the exception of part of Connecticut.

The company has been steadily adding to its staff since the war and expects soon to be up to prewar personnel. Now its big problem is to secure enough equipment and supplies to care for its customers. Prices have been kept down to the "New England thrift" level by the Clapper Co. which has been firm in resisting the temptation to raise prices when it happened to have good stocks of supplies that generally were scarce.

GREENKEEPERS

The North Central Weed Control Conference in their Policy Report state: "In general, the formulations containing 2-4-D esters have been more active and effective under difficult conditions and on resistant plants than the other formulations."

WEEDESTROY contains the butyl ester of 2-4-D, a liquid concentrate that mixes readily with cold water to give stable emulsions.

Make your spraying job effective the first time—no need to wait for perfect weather conditions when you use WEED-ESTROY, the Selective Weedkiller.

WEEDESTROY

The Selective Weedkiller

manufactured by RIVERDALE CHEMICAL COMPANY Harvey, Illinois Distributorships available

WEED-FREE TURF — NEW BOOKLET BY SHERWIN-WILLIAMS

Recently off the press came an interesting booklet on 2, 4-D weed control published by the Weed-No-More sales division of Sherwin-Williams Co., Cleveland, Ohio. The attractive and informative book covers the research which led to the development of the product, letters stressing the importance of 2, 4-D in large area turf maintenance by leading turf management authorities, testimonials from leading greenkeepers, types of spraying equipment, etc. Mailing of the book to all golf clubs was made the latter part of February. Additional copies upon request to the company headquarters.

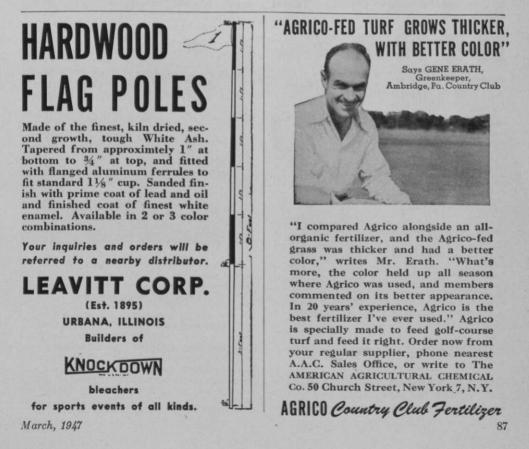
WIN STUMPP & WALTER PRIZES

Winners of radios at Stumpp & Walter Co. exhibit at the GSA show were Col. W. J. Baird, Ft. Leavenworth, Ks.; W. J. Schulz, New Albany (Ind.) CC and W. S. Lindsay, Wampanoag CC, Elmwood, Conn. Winners of the brandied dates were Mrs. W. G. Lewis, Ontario, Can.; K. W. Troensegaard, Apawamis club, Rye, N.Y. and James G. Harrison, Turtle Creek, Pa. Winners of the electric screw-driver were Wm. Glancey, Spring Brook CC, Morristown, N. J.; J. Paul Seizer, Glen Castle CC, Rye, N.Y. and Philip Axt, Broadacres CC, Bloomfield, N.J.

BALANCED GOLF BAG OFFERS ALL-PURPOSE HOOD

Already a decided success because of its unusual features, Lightweight Balanced Golf Bag is now available to golfers as the only lightweight bag with a hood. The hood itself is unique because in addition to providing protection for the club heads it can also be used as a bag for

practice balls, shoes, clothing, etc. Made of the same heavy duck as the bag, the new hood slips over and protects the club heads. When the nylon drawstring is tightened, the clubs are securely held, cannot rattle or fall out of the bag. When not in use, the hood folds into a small square to occupy little space in the bag pocket. With this new development, Lightweight Balanced Golf Bag adds to its strong sales appeal.



DUNLOP HOLDS ANNUAL SALES MEETING

Attending the Dunlop Sales Dept. meeting in New York City the

week of Feb. 3, are left to right, sitting: John Hawes, Atlanta; Herb

Tyrrell, Buffalo; Sam Fairweather, Div. Mgr., Boston; Herbert Griffith,

Div. Mgr., Buffalo; Vincent Richards, Asst. to the Pres.; Al Conaway, Div. Mgr., Philadelphia; and Frank Reeser, Div. Mgr., New York. Second row, standing: Ted Thompson, Credit Mgr., New York City;

Charles Shortle, Boston; Dave Woodcock, Chicago; Herb Andrews,

Los Angeles; Harry Hull, Cleveland; Dan Ellis, Philadelphia; H. L.

Winkler, Dallas; Elia Fottrell, San Francisco; Bud Bruehl, Buffalo.

Presided over by Vincent Richards, gen. mgr., sports dept., 15 sales representatives attended the department's annual three day huddle in New York the week of Feb. 3. Richards explained Dunlop's golf and tennis manufacturing and marketing program for 1947 highlight of which was word that Dunlop has launched an intensive production schedule of three-way shifts which it is hoped will double the production of Dunlop golf balls, tennis balls and racquets. Dunlop's 1947 line of golf balls will include the one-dot, two-dot and three-dot Maxflies. A new lower priced golf ball, the "Skyway", will make its debut this spring to retail for 70c.

CHARLES PARKER HAS STORE — Charles W. Parker, widely known as one of New England's ace greenkeepers, has got out of greenkeeping and started the Cape Cod Garden Store, 572 Main St., Hyannis, Mass. There's a lot of garden pride on the Cape and Charley will do very much O.K. **NEW PAR-AMBULATOR BAG** — Atlantic Products Co., 1270 Broadway, New York, is introducing an ingenious bag that has bag-cart features built in. The wheels and steel handle of the bag can be dismantled readily and stored away in the bag for carrying by strap or for travel. The



-quick, thorough cleaning with no harm to cover paint ...more popular with players because of ease and slopproof operation ... easy to drain and refill...trim and attractive in appearance. Unbreakable steel jacket is rust proofed; no rotten brushes requiring frequent replacing.

HENRY BALL WASHERS give years of efficient service. The use of Allen Set Screws makes them theft proof.

BALL WASHER....\$12.75 Tee Data Plate...\$1.25 Waste Paper Container 2.35 Complete Tee Ensemble...\$16.35

Enclose Score Card when ordering Tee Data Plates.

> PRICES F.O.B. ELM GROVE, WISC.

> > Manufactured by

GOLF & GARDEN EQUIPMENT CO.

BLUE MOUND RD., ELM GROVE, WISCONSIN



HENRY TEE ENSEMBLE includes Ball Washer, Tee Data Plate and Waste Paper Container.

Photos above show how ingenious design of Atlantic's new Par-Ambulator adapts it to both shoulder-strap and cart-carriage. Handle and wheels are easily detached.

cart features are sturdy but lightweight. Retail prices range from \$40 for leathertrimmed canvas to \$70 for a leather number with hood. North British Rubber Co. is sales agent for pro trade on the bag and says the pros and their members really have been going strong for it from the start.

ACUSHNET'S 'FUSSY FOURSOME' PLAYS TO BIGGER AUDIENCE

The Fussy Foursome, Acushnet Process Sales Co.'s famous golf course characters will play to greatly increased audiences this year with the scheduling of advertisements in Golfing, Sat. Eve. Post, Collier's and Time. Developed over three years ago by H. B. Humphrey Co., Boston, the wartime experiences of the fussy four golfing gents helped keep the morale of American golfers at high pitch when golf supplies were at their lowest ebb. Now, before bigger, happier peacetime golfing audiences the campaign is expected to eclipse the successes of previous years. This year, with production on its way to normalcy the ad-vertisement again will stress the idea that an Acushnet ball will help better the player's game, and emphasize that Acushnets are sold the world over through pro shops only. Harry Beckhoff is the artist of the cartoon series.

STOLEN—from Portsmouth (Va.) GC one Toro greens mower, traction drive No. 1448-790, motor No. 343641 W I; if offered for sale advise Russell Emig of club.

DETROIT'S MUNICIPAL REDFORD GC BUSY YEAR-ROUND

How a municipal golf course can function as a city-wide recreation center in both winter and summer is demonstrated daily at Detroit's Redford GC. It is accomplishing exactly what the city's recreation commissioners promised it would when they recommended its purchase.

They told the city it would be just as much a winter playground as a warm weather golf course. So convincing were they that the city began condemnation proceedings and invested \$172,000 in the layout. Last summer, its first as a municipal center, the golf course took in a gross of \$36,020 for 27,959 rounds of golf.

This winter it became the goal of cold

WORM-RID KILLS SOIL INFESTING WORMS, IN-SECTS AND GRUBS THAT RUIN GREENS RECOMMENDED FOR KILLING JAP BEETLE GRUBS, also African Stink Beetle (New York pest), wire worms, cobweb worms, etc., etc. Simply dust on and wash down—or mix with soil. Write for test sample.

PLANT PRODUCTS CORP. Dept. G BLUE POINT, L. I. Order through nearest distributor: Arthur D. Peterson Co. Inc. George C. Davis Co., Chicago New York City R. G. Fox, Buffalo, N. Y.

March, 1947





M. J. SULKA GOLF COURSES OF DISTINCTION DESIGNED AND CONSTRUCTED 41 LEONARD AVENUE ATLANTIC HIGHLANDS, N. J. ESTABLISHED 1920

weather sport enthusiasts. The commission constructed a long toboggan slide between the seventh and ninth fairways. A warming room was built alongside a new skating rink at the first fairway. A fine hill was set aside for skiers and lesser declines reserved for bob-sledders. Part of the River Rouge, which flows through the course and is frozen in wintertime, was cleaned off for additional skaters.

ROBBINS SEES BRIGHT PROSPECT FOR 1947 SPORTS

"All indications point to a strong market for athletic goods in 1947—and very prob-ably for several years thereafter," said Charles F. Robbins, pres., A. G. Spalding & Bros. Inc., in New Commercial Financial Chronicle. "Spectator in-& terest is at an all-time high, as is shown by the reports of the record-breaking attendance at all sports events—golf, tennis, base-ball, football, basketball and hockey. More important to the athletic goods industry is the participation of individuals in these sports. Here again the interest is greater than in any previous period. In golf and in tennis, we see more active play than ever before. In the schools and colleges, baseball, softball, football and basketball are appealing to a greater number of boys and girls than for many years before the war.

"As a background, there is evident a greater appreciation on the part of the average community in the desirability if not even the necessity—of developing and maintaining good physical condition, combined with the development of character, both of which result from properly organized and supervised athletic programs. Much is being done in this field

