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2418 GRASSLYN AVENUE HAVERTOWN, PA.

Grau's Answers

(Continued from page 54)

Q: Our greens committee and myself are trying to determine how to improve fairways and tees. Fairways have not received the proper amount of food for growth. They have received little fertilizer in years. The only thing that has been used is lime, except on the approaches. We aerify fairways and tees each year, but have not fed the fairways much. Existing grass is chewing fescue and Kentucky blue and rye. Even with improper feeding, the fairways are "fair." They are thin as opposed to lush, and there is much silver crab and crowfoot in them and around greens.

Another club near us is changing to Bermuda fairways and is keeping its bent greens. We have thought about this but are hesitant because of fear of the Bermuda crowding out our greens.

I have noticed that you and O. J. Noer have endorsed Merion and K-31 for fairways with Merion on the tees. Also, you have mentioned other grasses, depending on location. If we were to go into a program of seeding and feeding our fairways, what would you suggest as best grass for this area? Our tees will not hold up during heavy play because of poor turf. Have Bermuda

fairways and bent greens been proven compatible partners on the same course? Would you recommend them in this location?

If you recommend a fairway grass, will you please give us your plan for such a transition including lbs. per acre, time of year to begin, preparation and feeding?

Another question concerns weeds. We spend a lot for removing weeds from greens. Can you tell us if it has been proved that there is a chemical that can safely be applied to bent greens that will control crabgrass and not harm the bent.

We are located in western North Carolina; Elevation 2200 ft.; Greens — Mixture of Seaside, Colonial and Highland bent; Fairways and Tees — Red Top, Ky. Blue and annual Rye; No Fairway Water; Rainfall usually adequate, 12 months — 59.86 ins.; Heavy play during June, July and Aug.; Soil is heavy as opposed to sandy.

A: It is tremendously encouraging to have your frank admission concerning lack of plant food. The first step is to draw soil samples from all tees and fairways and have them tested for pH, Ca, Mg, P, and K. Do not request a test for N — it would tell you nothing of value. Send me a pH copy of the test results.

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National Golf Day

June 11th

The first step in fertilization, until we have knowledge of P and K, is to apply straight nitrogen in a non-leaching, long-lasting form. As soon as possible this spring apply to tees and fairways 4 lbs. of N in one application. If you were to use one of the 38% N materials, for example, it would require 450 lbs. to the acre (or about 10 lbs. of material to 1,000 sq. ft. This treatment will be the start of a longtime program and is basic to anything you intend to do in the line of seeding or sprigging.

In the absence of a sound, generous feeding program, annual aerifying may help to keep weeds and weedy grasses active. There is no need to think about chemical weed control until you plant the right grass and feed it adequately.

Your course is known to me. So is the other course which plans Bermuda fairways. Yours is not considered a proper candidate for Bermuda fairways. It is not because the Bermuda would crowd out your greens but because there is another grass that will be much more economical in every way. I refer to zoysia.

You could grow Merion - Ky 31 fairways and Merion tees but in your area the maintenance costs would be much higher than for zoysia. Merion demands at least twice as much fertilization.

Here is a plan for your fairways. Fertilize soon this spring, as suggested immediately after spring aerifying. Secure zoysia japonica seed so that you can plant the selected areas at 20 lbs. to the acre soon after aerifying. Mix 20 lbs. of zoysia seed with 100 lbs. of the same nitrogen fertilizer that you will have used previously. Broadcast uniformly over fairway areas. You will not need to mulch the seeding nor will you need to change your mowing schedule. You will not see much Zoysia turf the first year - only small seedlings. You will see real improvement during the second year. Virtually all summer weeds gradually will be choked. It is significant that goosegrass will not grow in zoysia turf. No chemical weed control will be necessary. No irrigation will be required. Bluegrass, fescue and poa annua will crowd in and provide much green color during winter and early spring. During June, July and August, you will have outstanding turf - but no better than during the other 9 months.

Either zoysia or Bermuda will try to crowd bent greens. Don't let them in! Weekly power edging keeps the greens free from invasion.

Your present greens can be invaded much more easily than greens of Penncross bent, for example. Penncross is your bent. Seed it after thorough spiking (sow at ½ lb. to 1,000 sq. ft. mixed with 5 lbs. of granular, non-burning nitrogen fertilizer). This bent is economical and will gradually replace the weak bents which you now have. Also, it will help to keep out weedy grasses.

If you decide in favor of zoysia fairways, your feeding program will be one application a year to supply between 175 and 220 lbs. of N per acre per year.

There are two ways in which you can approach the weed problem in your greens. First set up and follow a PMA (mercurial) schedule

of treatments (as recommended by the manufacturer). Second, sterilize all of your topdressing with methyl bromide under a cover. See your dealer for assistance in setting it up. By using weed-free topdressing you will cover the weed seeds now present and they will have difficulty becoming re-established.

We have said nothing so far about tees. For them you can grow zoysia sod (or U-3 Bermuda, if you prefer) in a nursery. When it is solid you can re-turf the tees with good ready-to-play sod. Also, you can grow a Merion sod nursery for those tees which are too shady for Bermuda or zoysia. Zoysia will thrive in shade where Bermuda will die for lack of sun. Some tees may be split down the middle, using Merion on one side for winter play, and a warm-season grass on the other side for summer play. Tees have to be large to permit this plan to work.

115 Attend Seminar Held by Mid-Atlantic PGA

Mid-Atlantic section of the PGA held its annual education seminar at Cole Field House, University of Maryland, Feb. 29-Mar. 1, with 115 pros in attendance. Max Elbin of Burning Tree CC and Roger Peacock of Sligo CC, Silver Spring, Md., were co-chmn. of the two-day program. It covered advertising, merchandising, accounting, teaching, psychology of learning and other subjects of interest to pro operators.

Speakers at the first day's gathering included George P. Lamb, attorney, author and lecturer, who spoke on the place of golf in business; Bill Ford of the MacGregor Golf Co. advertising dept. who discussed marketing and advertising; and Steve Comings, Southeastern University accounting professor, who told the pros how to install and operate a simplified accounting system.

The first day's teaching program was conducted by Al Houghton, Princes George CC, George Bird of Richmond, Va., and Leo Fraser of Atlantic City CC.

Eddie Ault, golf architect of Washington, D. C., was the leadoff speaker on Mar. 1. He talked on the interrelationship of the work of the professional, supt. and architect. Dr. Warren Johnson spoke on the psychology of learning and Prof. Alfred A. Crowell of the University of Maryland journalism dept., described methods of setting up a pro public relations program.

Roger Peacock and Al Jamison handled the second day's teaching program. Peacock's subject was "Tips for Beginners and Comments on the Swing." Jamison summarized the techniques of teaching.



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Walker Executive Car Being Introduced in Australia

Max Walker, owner-mgr. of Walker Manufacturing Co., Fowler, Kans., has announced that Tutt-Bryant, Lt., Rydalmere, Australia, has purchased a Walker Executive car for demonstration on Australian courses. Tutt-Bryant hopes to develop interest in riding golf in the six large cities in which it has outlets. The first car was scheduled to be shipped Apr. 1. Walker Manufacturing Co. is in its fourth successful year of operation. The Executive is powered by an air-cooled, electric starting gas motor and is distinguished by what is said to be unexcelled hill-climbing performance.

Golfcraft Merchandising Brochure Now Available

Just off the press is Golfcraft's "1960 Golf Merchandising Brochure." It is described by Mark Cox, vp, as a merchandising kit that has been designed for pros to aid in selling Golfcraft equipment to members. In it are a complete price list, showing cost and suggested retail, point-of-sale material and booklets in four colors describing the company's line of clubs, putters, balls and accessories.

Pittman Joins Hagen Advisory Staff

Jerry Pittman of Tulsa, who is playing his second year on the circuit, has joined the Walter Hagen advisory staff. A graduate of Southern Methodist U., where he captained the golf team for two years, Pittman has a degree in mathematics and statistics and worked for an insurance company as an actuary before turning pro. In the 1958 Open at Southern Hills (his home club) Jerry finished as second low amateur. He entered the pro ranks in May, 1959, after being discharged from the Army.

Wittek Releases 1960 Range Supply Catalog

Wittek Golf Range Supply Co., 5128 W. North ave., Chicago 39, Ill., has released its 1960 catalog. The 24-page book lists everything in the range end of the business including stripping and painting equipment, ball pickers, mats, miniature supplies, re-sale balls, etc. It also shows course equipment, clubs, accessories, bags and carts. Copies of the catalog can be obtained by writing the Wittek company.

Golf Day • June 11th

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Exide Golfer-48 Said to Give More Energy, Last Longer

The Exide Golfer-48, made by Exide Industrial div., Electric Storage Battery Co., Rising Sun & Adams aves., Philadelphia 20, is said to deliver 9 to 30 per cent more electrical energy than any battery used in golf cars, yet is sized to interchange with automotive-type batteries generally used. The 48 also is said to be designed for 48 months of use. It is a 6-volt, 3-cell unit with rubber Monobloc container and is equipped with either bare terminal posts or wing nut terminals. It comes charged and filled with electrolyte or is dry-charged with electrolyte packed separately. Other features are: high amp-hour rating, heavy rugged plates and fuller power for a longer time after it leaves the factory.

1960 Spalding Almanac Distributed to Press

Spalding's 1960 Golf Reporters Almanac is a handy reference book for writers, radio and TV men which includes the records and biographies of more than 25 men and women topnotchers plus miscellaneous tournament information. The Almanac or photos of players on the Spalding staff can be obtained by writing to Public Relations Dept., A. G. Spalding & Bros., Inc., Chicopee, Mass.

Galloping Golf Is Lockerroom Game

Galloping Golf is said by the mfr. to be the fastest moving golf game off the course, with every roll a hole of golf and with all the fun of



the side bets of the game. A before and after game in lockerroom or bar, it is compactly packaged in leather snap case with five dice in different colors. Galloping Golf retails at \$2.00 with usual pro discount. It is sold a doz. games to the box. The game is available through Arl-Hi Co., c/o Leo French & Associates, 2014 Cleveland, Evanston, Ill.

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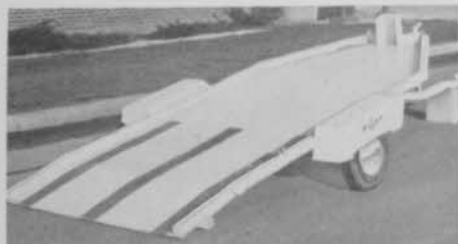
THE CLAPPER CO.

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Boston 65, Mass.

The Alloy Golf Car Trailer

The new golf car trailer, specially designed for drive-on-and-off loading, is made by Alloy Ma-



rine, Inc., Algonac, Mich. It handles 750 lbs. on its 12 ft. long, 54 in. wide platform of 14 gauge steel with corrugated, non-skid finish. Independently suspended wheels have coil springs, hydraulic shock absorbers.

Newport Bluegrass Association in Promotion Campaign

Newport Bluegrass Assn., 855 Fifth st., PO Box 56, McMinnville, Ore., has started a national promotion campaign to acquaint turf specialists and the public with the qualities of Newport C-1 bluegrass, called "The Bluegrass

Supreme." Two-color ads are appearing in GOLF-DOM and magazines in the park maintenance, landscaping and seed fields. Seed production of Newport C-1 will be greatly stepped up in the coming year and a more intense program of promotion will accompany the increase in output.

Baduini Is Distributors Vice Pres.

John Baduini has been elected vp of National PGA Distributors, Newark, O. He continues as sales mgr. of the company. Baduini has been in the golf business for nearly 30 years, many of them in a sales capacity.



K & M Sales Service Head

John F. Heaney has been named sales service supervisor of Keasbey & Mattison's Perth Amboy, N. J., plant. He was formerly employed in the firm's New York dist. office. He succeeds J. R. Purtell, now in charge of sales service in K & M's St. Louis plant.

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There is a one-year unconditional guarantee on the Traction Power-Full golf car battery which is made by Traction Service Co., 118 Concord ave., Oceanside, N. Y. Popular on eastern courses, Traction Power-Full is said to be the only battery on which there is an "in-use" guarantee. Its extra power capacity (190 amps.) gives 25 extra amp hours, according to the manufacturer. The battery is offered to pros and clubs at a special price.



Wide Area Insect Electrocutor

Ram Meter Inc., 1100 Hilton Rd., Ferndale, Mich., has a new device which attracts night-flying bugs and insects by a special black light to a high-voltage grid where they are killed. It protects an acre at cost of burning a light bulb. Metal mesh guard protects against unpleasant shock if grid is touched. For use at ranges, Par-3s, miniatures, dance areas, etc. Details from above address.

Price Was Wrong

In the E. James Kunik ad, which appeared on page 159 in March Golfdom, "Ladies Strictly Tailored Bermudas" were listed at \$6.95. This is incorrect. The price should have been listed at \$11.95. Kunik, whose sales outlet is located at 41 S. New York ave., Atlantic City, N. J., handles both men's and women's sportswear.

Miller Named P.R. Director by Wilson

Marion H. Miller has been appointed dir. of public relations at the general offices of Wilson Sporting Goods Co. in River Grove, Ill. He was formerly in the company's Kansas City div. in a promotional capacity for several years. Miller joined Wilson in 1921 while still in high school and has worked in most depts. of the company. He has long been associated with amateur sport as an official of the AAU and the U. S. Olympic assn. At present he is chmn. of one of the important committees making arrangements for the 1960 Olympic games in Rome.

Davis Catalog Available

Latest price list catalog of George A. Davis, Inc., 5440 Northwest Hi-way, Chicago 30, recently came off the press and is available for all persons connected with the maintenance depts. of courses, cemeteries, parks, etc.

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Water hazards and lakes now may be cleaned of all rooted aquatic weeds, Lily, cattail, milfoil and many other aquatic weeds are easily killed with one application of R-H GRANULAR WEED RHAP. It is easily applied — will not harm fish or animals. This inexpensive application usually lasts from 18 to 36 months. Write for further information or ask your dealer.

REASOR-HILL CORPORATION
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Stroke-Master's New Style 918 Features Ventilated Vamp Lining

One of the top pace-setters in the 1960 Stroke-Master line of pro shop golf shoes is the new Style 918, on the Lido Last. Fully leather lined,



the vamp lining is purposely punched for ventilation. Style 918 is dark brown Puritan Calf saddle with genuine White buck vamp and quarter. The ventilated vamp lining feature also is available in Style 917 with its color combination of black calf and white buck. Both styles are stocked for immediate shipments. Ask your Stroke-Master salesman or write E. E. Taylor Corp., Freeport, Me.

Bayer Woods Built for Power

George Bayer woods, made by MacGregor, are especially designed for the power player at impact. The hand selected persimmon heads are finished in Rosewood stain. The red fiber target face of a Bayer wood is 1 1/2 ins. deep and the Pro-Pel Action No. 1 shaft is light in weight but has firm action. The new Firma-Grip has built-in tackiness. Bayer woods also are available with molded-on, all-rubber grips.



Aero-Thatch Dealers

Tenos Brothers, Pittsburgh, Pa. and Howard Kiscaddin, Lebanon, Pa. have been appointed exclusive dealers in western and central Pa. by Aero-Thatch, Inc., Rahway, N. J. Both will handle sales and service for the two basic Aero-Thatch machines for complete turf renovation and maintenance employing the CHIA method (patents pending) of continuous horizontal invert aeration.

Buyers' Service • Page 135

Golf Score Cards

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Cushman Offers Insurance to Its Golf Car Buyers

Owners and buyers of vehicles made by Cushman Motors, Lincoln, Neb., can buy what is said to be the first complete, low cost, red tape-less package of insurance ever offered in the golf car and scooter fields. Coverage includes bodily injury and property damage liability, collision, comprehensive and uninsured motorists. A separate life policy with double indemnity for accidental death also is available. The golf car policy covers all authorized drivers as well as the owner while operating another scooter type car. Collision carries a \$25 deductible and theft (comprehensive) has a \$10 deductible for partial theft. Premium rates vary from state to state and are quoted on an annual basis although policies may be issued for three or six-month periods. The Cushman insurance program is being initiated in various states upon approval of state insurance depts. Complete information can be obtained from Mack & Coons, Stuart bldg., Lincoln.

New Machine Makes Quick Job of Removing Litter From Fairways

The Ronning Grounds Groomer, a course maintenance machine on which superintendents focused their attention during the national turf-

grass conference, is made for quickly removing all kinds of litter from fairways and other turf areas. Its 5-foot-wide rotary brush picks up damp or dry leaves, grass cuttings, sticks, stones, pine cones and needles, paper, bottles, etc., and golf



balls on practice ranges, without damage to turf or equipment.

Use of perforated metal conveyor troughs permit partial mulching of dry leaves. The bulk of the leaves and all other debris is blown into a 7-cubic-yard dump body equipped with tilting winch for quick unloading. A 9-hp engine drives brush and blower. The Grounds Groomer may be operated at speeds up to 12 mph depending on condition of terrain and litter. For complete information write: Ronning Corporation, 1001 Third Avenue N.E., Minneapolis 13.



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Sloan-Ashland Enters Golf Car Field With 10 Models

The Sloan-Ashland Co., a Chicago firm with headquarters in the Merchandise Mart, have announced their entry in the golf car field with the most complete line of cars yet to be made available for golf course rental fleets or player individual ownership.



This two passenger Terra-Tire Model #202GT is top car of the new Sloan-Ashland line. Engine is 2-cylinder, 4-cycle air cooled Onan; gasoline tank holds four gallons; delivers approx. 18 holes per gal. Wheel base is 75½"; over-all length is 102".

The Sloan-Ashland line embraces 10 models, including one, two and four-passenger vehicles, available in either gasoline or electric power. The gasoline cars are offered in one cylinder and two cylinder models, ranging from 4 hp to 12.9 hp.

Four models use the new Goodyear "Terra-Tire" which exerts five pounds pressure on turf vs. the 24-pound pressure of each foot of a walking golfer.

Sloan-Ashland points out that, with their one-passenger models they are pioneers in Terra-Tire single seaters with both electric and gas models. All one and two-passenger models come with either Terra-Tires or standard tires.

"Our main objective in assembling the Sloan-Ashland line of golf cars," says president Albert E. Sloan, "is to supply performance-proved vehicles in a range of types, models and prices to meet the varying local conditions and preferences at each of the nation's golf courses." For complete details, specifications prices, etc., write Sloan-Ashland Co., at above address.

Neoprene used in the tires of the Rollite golf cart, manufactured by Koch Corp., Montecito stn., Santa Barbara, Calif., is supplied by DuPont's Elastomer Chemicals dept., through the H. C. Lien Rubber Co. in Los Angeles. The Rollite is made of rust-free aluminum and has oversize wheels for easier rolling.

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