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Whatever your mowing problem . . . from smooth championship fairway turf to high-cut roughs or mowing dew-covered wet turf in the early morning or at night . . . there is a Roseman Gang Mower designed to mow your turf areas efficiently and beautifully and at least possible cost. Models are available in Hollow Roller and Wheel types and in 3, 5, 7 and 9 gang sizes.

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Nation-Wide Sales and Service

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Fairway Mower | <input type="checkbox"/> Hollow Roller Drive
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October, 1962

Good question. With all the makes, types and sizes already on the market, why is Harley-Davidson bringing out a new gasoline and electric car?

For several very valid reasons . . . each of significant interest to those responsible for golf car purchasing or leasing, operation and maintenance.

Research conducted for us clearly established:

1. A *need* for golf cars to meet specifications *your* practical experience indicated were essential to profitable operation.
2. A *need* for golf cars manufactured by a company with years of leadership in powered vehicles with solid financial strength, engineering-production experience and facilities, and a sales-service organization that permits purchasing or leasing with confidence.

WHAT? ANOTHER GOLF CAR?



We suggest that the design and performance of Harley-Davidson Golf Cars — and the corporate abilities behind them — merit your consideration.

Add to that . . .

Program flexibility which enables us to develop, with you, the precise plan — purchase-financing and/or leasing — best suited to your particular requirements.

A nationwide network of Servicing Dealers with trained mechanics and complete stocks of repair parts to virtually eliminate costly down-time . . . *you have compelling economic reasons to talk with Harley-Davidson.*

Operating cost-to-income ratio is of real concern to private clubs and fee courses today. A soundly conceived golf car program, can not only sustain itself, but can even become highly profitable.

A Harley-Davidson Regional Manager is available to demonstrate our golf cars to furnish tangible proof of their superiorities. He is also qualified to assist you — with the aid of the Harley-Davidson "COST AND PROFIT ANALYZER," a helpful guide which he will use in appraising specific factors relating to your club. The "COST AND PROFIT ANALYZER" will bring your situation into sharp mathematical focus, providing the basis for developing a sound program to match your needs and desires.

With all the advantages Harley-Davidson has to offer you, isn't it just a matter of good business to withhold commitments until you talk with us?

HARLEY-DAVIDSON GOLF CARS . . .
designed and built to outlast them all

You told us what you wanted and we translated your ideas into specifications . . . then into what our engineers call "balanced design." This means balancing the *essential* features with the desirable or "extra" features, with an eye always on costs, so that the price-to-value ratio is also in balance. You didn't want "cheap" cars because you learned they are the most costly to operate. You asked for *balance* between the lowest and highest priced cars on the market. Harley-Davidson designed and built to *your* price and performance specifications.

Here is a company with 60 solid years in the powered vehicle field — strong assurance that, with Harley-Davidson Golf Cars, you will never have an "orphan" fleet on your hands without service, or replacement parts. You will be selecting vehicles that carry a name *known* to every adventuresome sportsman — a name that has appeared on thousands of the world's most dependable motorcycles for pleasure, transportation, commercial service and police duty.

GASOLINE AND ELECTRIC CARS are handsomely styled and built for use (and even abuse) with rugged welded tubular steel frames and impact-resistant molded Fiberglas bodies. Attractively finished in birch white, they are a credit to every course.

Easy on the turf . . . and the rider — Big, high flotation, 9.50x8 tires that baby the turf are *standard* equipment . . . as are the soft bucket-type seats that cradle the riders and don't heat up in the sun. Weight is evenly distributed, and low center of gravity makes them sure-footed. Telescopic front forks soak up bumps. They'll turn in 9½-foot and have a reverse gear for backing out of tight spots. Steering is a soft touch, thanks to the 2.6 to 1 reduction gearing between the tiller and front wheel.

Easy on the pocketbook . . . and the serviceman — Wheel bearings are lifetime lubricated and floor mats are made from tough, spike-resistant material. When service is needed, the whole body tilts up and back for easy access.

EXTRA CONVENIENCE AT NO EXTRA COST

Exclusive Dual Position Bag Carrier — Golf bags can be carried either upright or at an angle, as preferred. There's plenty of extra storage space in the bag department.

Removable Tail Gate — The Harley-Davidson Golf Car can double as a handy utility

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vehicle for hauling supplies and equipment. *Extra Protection* — Rear tires extend outboard of the body, acting as buffers to prevent body damage.

Foolproof Brake — Tilting the brake pedal locks it in position so that it serves as a parking brake. Depressing speed control pedal automatically releases brake. There's no chance of damaging car by running with brake on.

Accessory Panel — Recessed to keep your scorecards, pencils, tees and cigarettes neat and secure.

Convenient Seat Rails — Sturdy chrome rails add to riders' safety and convenience.

Both models feature automatic power trains engineered by Harley-Davidson specifically for golf car operation.

Send for new literature containing specifications on complete line of cars and accessories — Let a Harley-Davidson Regional Manager visit you with his "COST AND PROFIT ANALYZER." No obligation, of course.

NEW

SCHEENUIT TURF-TRAC Tire

Rear Tire Mate To The Famous Turf-Glide

Now you can have the perfect balance in golf car tire combinations. The famous Schenuit Turf-Glide in front and this completely new Turf-Trac on the rear.

The new Turf-Trac tire provides the tremendous footprint and turf-top floatation you want with the mild traction you need for the ideal rear tire performance.

950-8 Turf-Trac is available with or without wheels. For full information on this revolutionary tire, write or phone . . .



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50th Anniversary Year

sional at the Anaheim (Calif.) Municipal CC, was elected to the Hall of Fame by the men who already are members of that select group.

Dutra, 61, began his golf career by caddying at the Del Monte G & CC in 1915. Nine years later he became a professional, taking his first job at the Ft. Washington CC in Fresno, Calif. In 1930 he won the first of four Southern California PGA titles that he was to claim.

In 1932, Olin won nationwide acclaim when he captured the PGA Championship by defeating Frank Walsh, 4 and 3, in the final. Two years later at Merion, Dutra staged the most dramatic finish of modern National Open competition by making up eight strokes in the final two rounds and edging Gene Sarazen, 293 to 294, for the USGA title.

Dutra was a member of the Ryder Cup teams of 1933 and 1935 and in the latter year also served as chairman of the PGA tournament committee. At the present time he is secretary of the U.S. National Senior Open GA.

The election of Dutra and Dutch Harrison brings to 31 the number of men chosen for the PGA Hall of Fame since it was established in 1940.

Increase PGA Winter Tour Prize Money by \$26,000

In the first 14 weeks of 1963, approximately \$668,000 will be offered in prize money on the PGA's winter tour. This tops the 1962 total by about \$26,000. Four tournaments will offer \$50,000 or more in purses. These are the Palm Springs Classic, L.A., Lucky International and Doral Opens.

Three tournament sponsors, those of the Tucson, Pensacola and St. Petersburg Opens, are increasing their prize lists by \$5,000 each.

Slight increases in prize money also have been announced by the sponsors of three of the five Caribbean tour tournaments.

Pro-am purses on the 1963 winter tour will amount to \$78,500, an increase of about \$8,000.

Girls' Junior Championship

The 1963 USGA Girls' Junior championship will be played at Wolfert's Roost CC, Albany, N.Y., Aug. 12-16. Mary Lou Daniel, 1962 champion, will be too old to defend her title next year.

Turf Questions ... and answers

FRED V. GRAU



Drought Brings Out the Worst and Best in Grasses

As each season passes we note that, in certain respects, the weather differs from the year before. If we are observant, we note that the performance of certain grasses is affected. We are particularly conscious of the effort of prolonged drought, especially when there is no water system to supplement the moisture supply.

Central Pennsylvania was in a "drought disaster area" during the past summer. A broad belt stretching from Southwest to Northeast was affected. Small grains shriveled on the stalk, corn tassels withered without pollinating silks, pastures turned as "brown as the road," alfalfa fields turned yellow and stopped growing. The last time this happened was in 1957.

It Stopped the Crabgrass!

Crabgrass ceased to be a problem because there was not enough moisture to germinate the seeds. Turfgrass areas that received some irrigation developed plenty of crabgrass.

Poa annua lost its hold on reality early in the season. Lack of moisture took *Poa* completely out of the picture for the summer. True, it is coming back with the advent of fall rains, but its early disappearance gave more drought-tolerant grasses considerable opportunity to spread and fill the voids before they, too, stopped growing. The result was a net gain for the perennial grasses. As rains fell in September, the deep-rooted turfgrasses started growing and spreading long before *Poa* could possibly germinate and start crowding again.

Can't Be Coddled

Bentgrasses that had invaded lawn turf during periods of more ample rain suffered severely and, for the most part,

passed out of the picture. The spotty turf that was left was anything but desirable. As a result, seed mixtures containing bent seed took another kick down the stairs. In areas that will continue to be affected by periodic droughts, there is no place for a grass that must be coddled. When reservoirs run dry and drinking water must be hauled from a distance, there is precious little left over to water lawns or fairways.

Red fescues were ruthlessly weeded out by the drought. Weaker types were destroyed, leaving large bare patches. Stronger individuals survived and started growing "green as grass" as soon as two good rains fell. During "good" seasons there has seemed to be little to choose between the several strains of red fescue. One looked as good as another. The lined-out plots at the Penn State turfgrass field day told another story this fall. Sturdy, hand-picked drought and disease resistant types that have been polycrossed to produce Pennlawn creeping red fescue proved the value of selecting and breeding for quality.

Can Come Back

Bluegrasses suffered in varying degrees as usual. Lawns and fairways of common bluegrass became spotted as weaker types gave up the ghost. Merion held on longest and recovered first, especially where it had been adequately nourished. It must be seen to be believed how quickly drought-parched bluegrass turf can become green almost overnight.

Warm-season grasses proved their worth

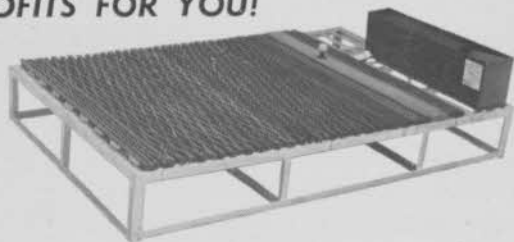
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ALL ENQUIRIES PROMPTLY ANSWERED WITH COMPLETE INFORMATION FROM:

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time and again with the edge in drought resistance going to Bermudas. Zoysia does not have quite the ability Bermuda has to hold color during drought. The virtue of these grasses is their ability to continue to provide a dense, playable cushion of turf during the drought period, even though green color is not all that might be desired. The net result will be a continuing march of the warm-season grasses northward until their final limit is reached.

Tall fescue, last but not least, is one of those amazing grasses that is commanding attention because of its startling performance during periods of extreme stress. Long after bluegrass and fescue turned brown, tall fescue stayed fresh and green and continued to grow. At the end of the drought period, tall fescue retained more green color than any other turfgrass. Rains brought response from tall fescue more quickly than from any other grass. Obviously, some types failed to perform just as with other grasses.

Breeding Candidates

Observant investigators had a field day selecting types that may have value in a breeding program designed to produce a finer bladed type that will tolerate closer mowing and still retain turf density, good

color, and disease resistance. Several of these promising selections are now being evaluated.

Crownvetch, while not strictly a turfgrass, proved its ability to survive drought of the worst kind on steep, rocky, impoverished slopes. Seed fields were fresh and green while conventional crops wilted daily. Rock outcrops along highways showed green only where crownvetch grew.

Sorting-Out Process

Nature, in her own way, continues the sorting-out process whereby the weak are eliminated and the strong survive. Man, in his own way, continues to upset the balance and to persist in coddling the weak while encouraging a too-large population of imperfect individuals to dominate and replace superior types of grasses that have survived adversity. It will not always be possible to provide water when needed to turfgrasses, nor to spray for diseases, insects and weeds on schedule.

The principle of a well-nourished, well-adapted grass providing acceptable turf with minimum coddling is well established. To gain universal acceptance of this principle is our next big hurdle.

Periodic droughts may be said to have some "plus" values. Wet soils that become



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... And they have these important features too!

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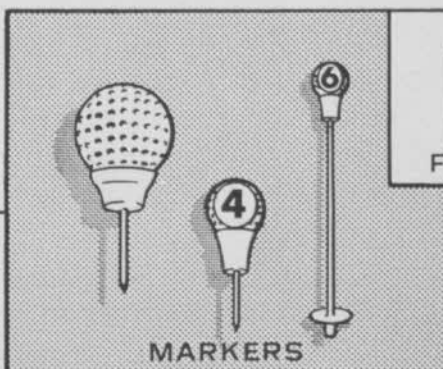
Here's positive proof of our confidence in our products: — "Dress-up" your first hole with Fore-Par from "tee to green" — buy later for the remaining holes — AND RECEIVE A FULL REFUND OF YOUR INITIAL PURCHASE.

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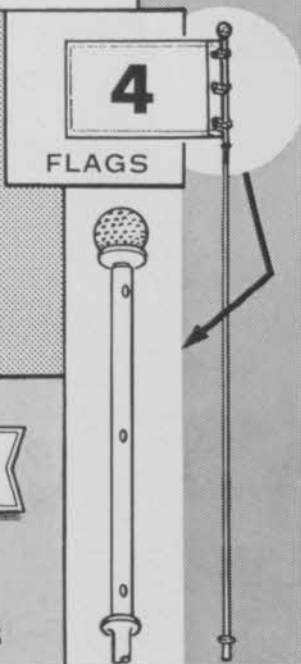
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dry tend to crack, shrink and fracture. The result is deep aeration of a kind not achieved with mechanical devices. Drying tends to release nutrients which become readily available to plants when the soil is rewetted. The fresh green color of grass after a drought has been broken is good evidence of the released nutrients.

Diseases that require ample moisture fail to develop during dry periods. Little or no mowing is required. Poa, the foe, is wiped out. All of this may sound as though we "advocate" periodic droughts. What we are trying to say is: When drought hits, let's make the most of the advantages, count the blessings and observe what factors provide good playable turf in spite of lack of water.

Little solace is offered here to those who suffered through periods of excess rain, high temperatures and very high humidity. That is a subject in itself to be discussed another time.

Robert F. Pollick, 73, supt. at Llanerch CC, near Philadelphia, from 1931 until he retired in 1956, died in Sept. He was a former pres. of the Philly GCSA. He is survived by his wife and three sons.

Planned Purchasing Saves Time, Money for Courses

BY CLINTON KENT BRADLEY

Golf course maintenance, in making the country aware of high turf standards, has created buying problems for the supt. and club officials. The turf market, developed from the course, is in many ways competitive with golf operations. At one time, courses were the largest users of grass seed and mowing machinery. Now, they make up only a fraction of the nation's fine turf area although they continue to set the standards for maintenance.

This change in market dimensions has required supts. to plan, get their purchases authorized, and order golf course equipment and supplies well in advance of the dates when they are needed. Otherwise, the machinery or material may go to other users. In course maintenance, a week's delay may be costly and mean the loss of a good part of a season's expected benefit from the purchase.

The active, productive golf playing season is all too short in a large part of the

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Check these specifications against any other club:



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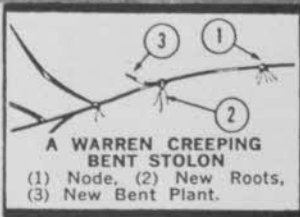


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PLANT *Warren's* *Creeping Bent* STOLONS!

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Ferrule for golf club grips

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**PUTS A "FACTORY LOOK"
INSTANTLY ON A REPLACED GRIP**

Anyone can install in seconds—no skill or experience required. The **only** ferrule that stretches **intact** over the **large** end of a bare shaft and returns to shape.

Made of good-looking, thoroughly baked black vinyl, the Grip-Gard Sleeve* removes forever the problem of wrinkled tapes and jagged ends when replacing golf club grips. Its taper is specially designed to fit the shaft and grip of **any** iron or wood. No glue required.

Inexpensive to buy, easy to install—builds customer good will. Grip-Gard Sleeves have been used on thousands of repaired golf club grips by some of the largest golf repair shops in the Southwest.



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country. No loss of this time should be risked by failures to arrange for desired delivery dates. Supts. who run their courses like well operated factories, know what they are up against in ordering and getting deliveries and have a pretty fair idea of the problems of producers and distributors of course equipment and supplies.

Don't Grasp the Situation

However, club officials sometimes are inclined to think of course maintenance as a simple farming operation instead of an expensive and complex one. Due to this misunderstanding, buying often is poorly timed.

Along in September, the supt. and his chairman should schedule the routine and unusual work they expect to do in the fall and winter and in the coming year. They should decide what they will need for doing this work. Such planning may mean that the supt., through this thoughtful procedure alone, is saving a good part of his salary, or justifying a raise.

Much of the early ordering can be the basis for a program to keep course help profitably employed at the club in the winter working on repair, painting and "housekeeping" jobs.

What club officials may not realize is that there is heavy expense involved as well as uncertainty in training men each new season for golf course work. Any good man who can be kept profitably employed at the club all year generally is worth a whole lot more to the club than his paycheck indicates.

There are times when convenient dating of bills can be arranged with manufacturers and dealers if the club's purchasing policy requires it. A good credit record earns a good profit in more than cash.

In our business we keep records of the special items our customers usually buy from us each year. We list these on special pool order sheets with the notation that the items be ordered in advance for the coming year. In this way we can fill short notice shipping orders.

With labor accounting for 65 to 80 per cent of maintenance costs, and equipment and supplies for seldom more than 15 per cent of the budget, it isn't the amount of money involved that primarily calls for planning to buy well in advance of date the merchandise is required. It's the large amount of labor expense that properly timed buying saves.