

WHO MAKE POSSIBLE *a la car!*



The Course Superintendent and The Golf Pro!

These two men, the first to recognize the possibility and pleasure of golf car play, rate a salute from us all! Working from dawn to dusk for better golf, both want to be sure that the golf cars used on their courses do not undo this fine work.

For over 45 years Worthington has built tractors and gang mowers to help make course maintenance better and easier. That's why the Worthington Champ Golf Car, *built with all of Worthington's grass maintenance "know-how"*,

is the car that's being recommended by more and more Pros and Superintendents.



The Worthington Champ has a low center-of-gravity for maximum player safety, ample ground clearance and big, low-pressure turf-type tires for excellent traction and high flotation on the turf. It's a car that *pampers the course* they work so hard to keep at peak condition! *Write today for Worthington Champ sales or rental plan information.*



The most complete line of large-area grass maintenance equipment in the world!

Electric Car Division

Stroudsburg, Pennsylvania
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NOW

**constant compression
golf balls you can recommend
to help your golfers**

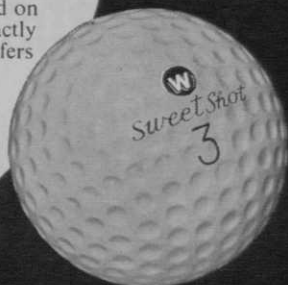
PLAY MORE CONSISTENT GOLF

New Dynamatic SWEET SHOTS by Worthington

Maximum distance — unfailing accuracy — because new Sweet Shots are made under the greatest precision controls ever achieved. The secret is Worthington's complete control of compression through new *dynamatic* winding. And every Sweet Shot is individually compression-tested to make sure it meets the compression level stamped on its sparkling white cover. Each new Sweet Shot is exactly like the last — precision-made to assure your golfers consistent performance every time!

Worthington
ELYRIA, OHIO

**Premiere Name in Golf Ball Developments
Since 1904**



**RECOMMEND THE RIGHT SWEET SHOT
TO MATCH EACH GOLFER'S SWING**

DYNA 90 MATIC

Built to the 90-compression level for the majority of "smooth-swinging" better golfers.

DYNA 100 MATIC

For experts only! Gives hard hitters all the extra distance built into this 100-compression ball.



**SOLD ONLY BY
GOLF PROFESSIONALS**

Maybe we'll have the answer in a few years.

Astoria Does Well

"I have one green (No. 8 on No. 4 course) in Astoria bent, seeded Sept. 10, 1956. It is the best green I have from Oct. to July.

"Last fall I seeded No. 9 on No. 4 course half to Seaside and half to Penn-cross. About that time, I also seeded a green which has C1, C7, C19, Old Orchard, Nimisila, Pennlu, Penn-cross and combination C1 and C19 plots. Experimental greens also were put in at Athens, Ga., and Birmingham. Jim Latham of the Green Section can tell about these.

"Ellis Maples put C1 in the greens at Pine Brook CC, Winston-Salem, when he built it and they have done well.

"So you can see that we are just getting into this matter of bent. No one yet has the answer for sure and we may not find it. But we will find out what not to do.

"The main thing is that we are learning by doing, by trying out new ideas, observing and thinking.

"I wish that every course would do some experimental work. We'd probably get the answers a lot quicker."

Watch for This!

Every golf club in the United States is being mailed our annual form card on which space is provided for names of each club's operating personnel entitled to receive GOLFDOM. Please give this your prompt attention.

Unless we receive up-to-date information on those who are actively engaged in duties concerned with your golf clubs' operation we cannot continue mailing GOLFDOM.

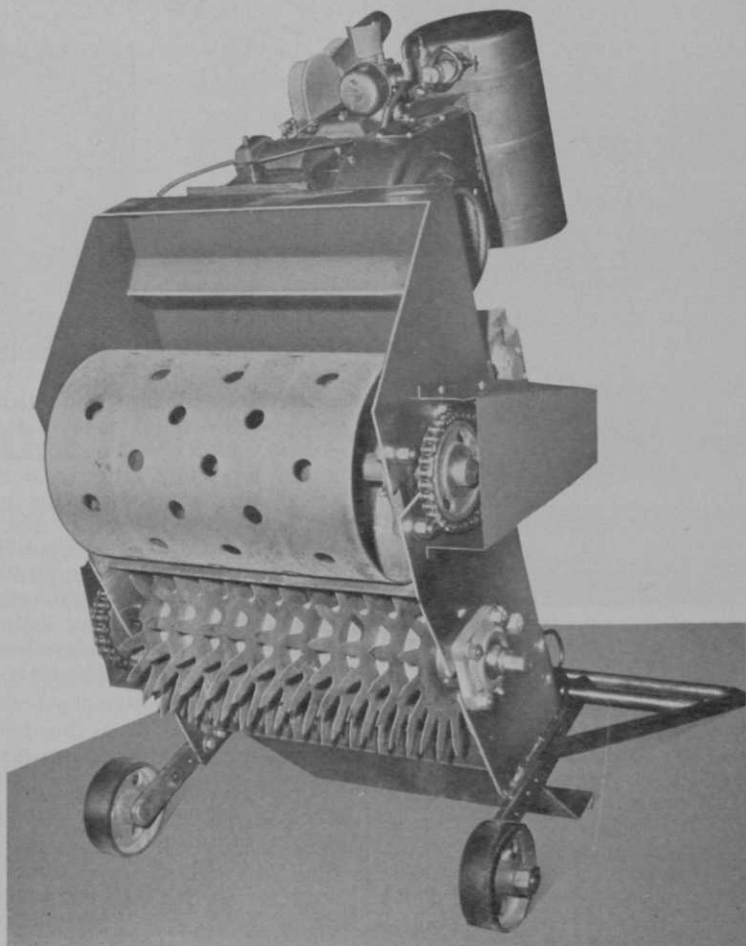
If your club failed to receive our form card or misplaced it — use the form you'll find on Page 126.

Our circulation auditing association requires us to show that the names to whom GOLFDOM is mailed are up-to-date. Lacking this information we are instructed to stop mailing GOLFDOM to old names on our list.

To make certain your 1959 officials and operating heads receive GOLFDOM fill-in the form and mail it — today — please.

This "THATCH-EYE" View of an **AERO-THATCH X-53**

shows the powerful blades which, as part of the C.H.I.A. method, will eliminate Thatch problems and assist greatly in propagation of Bermuda Grass.



Aero-Thatch, Inc.

PHONE FULTON 8-0100 • 673 NEW BRUNSWICK AVENUE • RAHWAY, NEW JERSEY

**Extra tough!
U. S. DRIVING RANGE
BALLS!**



in colored stripes



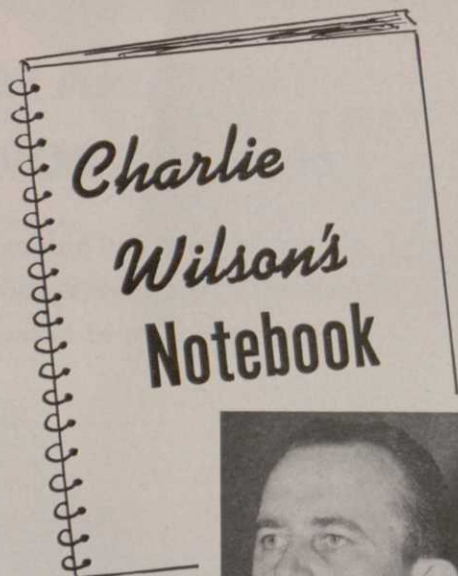
**and new built-in
YELLOW!**

U. S. Driving Range Balls have been acclaimed all over the country as the *best* range balls on the market. They're made *just* for driving ranges. Extra-tough, they take everything in stride—fight off scrapes and cuts. Offer plenty of playability plus durability. Come in a choice of colored stripes—or the new all-yellow ball. The yellow color is built-in—all the way through. Can't wear off. This "high-visibility" yellow makes it much easier to find. Cuts down on pilferage, too. Ask your U. S. Sales Representative to show you the complete line of U. S. Driving Range Balls!



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**Sky Ponds
Unreliable
Water Sources**



Speaking to the Mid-Atlantic GCSA group, J. Frederick Hazen, U.S.D.A. soil conservationist, warned that artificial ponds dependent on natural rainfall and run off are unreliable sources of irrigation water. "They always fail when you need them the most", stated Hazen, "unless the level can be supplemented from wells or other assured sources."

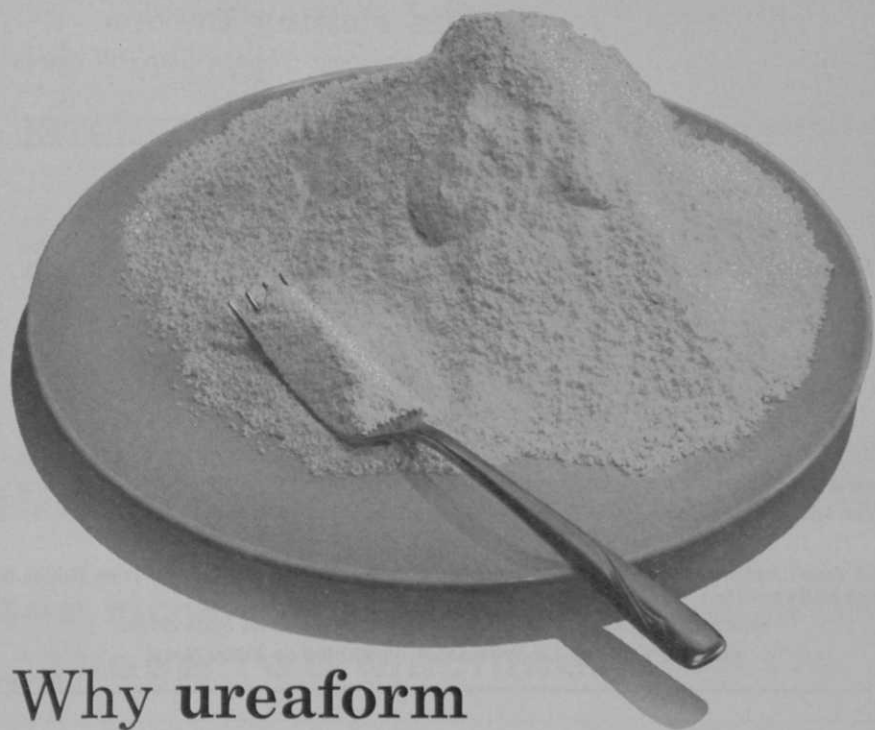
Sky ponds, as Hazen calls them, are also bad with respect to breeding and stocking fish. The fluctuating water level causes all the trouble.

Weed Control Influenced Fertility

After five years of testing both colonial and creeping type bents, Ralph Engle of Rutgers University, finds they haven't deteriorated even at the $\frac{1}{2}$ in. cut. The creepers are best with Penncross leading the list.

Rutgers also reports nitrogen levels influence presence of dandelions. At the 2-lb. actual nitrogen level there were 55 dandelions per plot, whereas 4 lbs. of nitrogen per 1,000 sq. ft. reduced the count to 20.

Ralph stressed the importance of soil reaction in relation to growth. At pH 5.5, the check plots yielded 41 grams per



Why ureaform is nitrogen at its very best!

IT'S SIMPLY THIS: turf and ornamentals get a square meal of nitrogen every day. No feast or famine feeding with Ureaform. Instead s-l-o-w, steady, day-by-day "controlled release" of nitrogen nourishment the *entire* growing season. *From just one application!*

No wonder more and more nurseries, parks and golf clubs prefer "Borden's 38" Ureaform nitrogen for straight application or in their mixed fertilizers.

That's not all. "Borden's 38" is high analysis—a full 38% nitrogen. It's 100% safe, too—can be applied any time of year, even in hottest weather, without burning. It needs no watering in. It won't leach away. Or wash away. It's clean, pure-white—and odorless. It encourages balanced plant growth. Economical? It fits in any budget be-

cause of the time and labor it saves! Ureaform is nitrogen at its very best. No other form can match it.

Ask for "Borden's 38" by the bag for direct application—or make sure Ureaform is the nitrogen source in any brand mixed fertilizer you select. Either way, it's the most modern nitrogen you can use. It opens up a whole new and better approach to the care and feeding of turf and ornamentals. Further information on the *proved* economy of Ureaform is yours for the asking. Write The Borden Chemical Company, 350 Madison Ave., New York 17, New York.



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and its King's and Queen's Courses in the foothills of the Highlands. The Royal and Ancient Golf Club, St. Andrews, the home of golf, is only 50 miles away. Served by frequent express train services from London.

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The international airport at Prestwick is adjacent to Turnberry Hotel and only 70 miles away by road from Gleneagles Hotel. As well as their superb golf courses both hotels have fine tennis courts, indoor swimming pools, shopping centres and private cinemas.

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and its Ailsa and Arran Courses situated in the heart of the Burns country, and overlooking the sea. Near Culzean Castle.

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unit area. Addition of fertilizer brought about an increase to 60 grams, but fertilizer plus enough lime to bring the reaction to neutral (pH 7.0) increased the yield to 74 grams.

Chlordane shows considerable promise as a pre-emergence control of crabgrass with dry applications on either attaclay or vermiculite superior to a liquid treatment. The 80-lb. rate of technical Chlordane per acre gives the best control, according to Engel.

Seedling Probably Weakened

Paul Sartoretto, W. A. Cleary Corp., also enlightened us on the matter of weed control. "Pre-emergence arsenicals and Chlordane don't kill the seed but weaken the seedling," he says. This fact could explain some reports that lead arsenate failed to stop poa annua. Paul feels the fall seedlings that emerge, following the use of arsenicals, are "weak sisters" and should expire with the first period of hot weather the following summer.

Two to four applications of DSMA at 10 lbs. per acre should control dallisgrass. The addition of 1 lb. of 2,4-D also is advocated by several experiment stations. This leaves goose or silver crab our most

pressing problem. It has been controlled with a mixture of PMA and 2,4D or DSMA and 2,4D. However, these mixtures can damage bent and should be handled with extreme caution. Sartoretto mentioned that pre-emergence Chlordane at 80 lbs. technical per acre looks promising on this pest in Oklahoma.

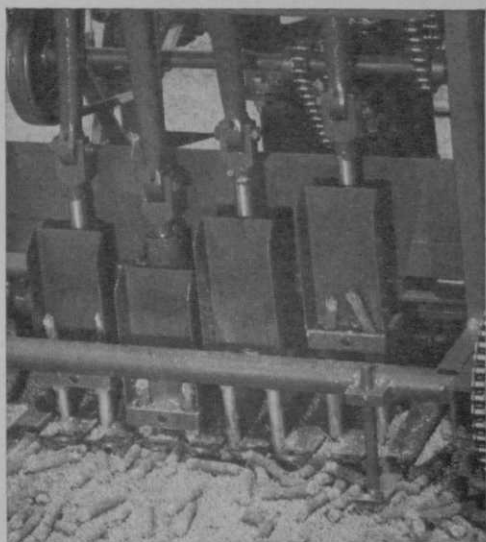
Prevention Most Important

Bob Miller, DuPont's roving pathologist believes the successful supt's approach to disease should be one of prevention rather than cure. In fact, Bob feels the word "cure" is a misnomer. "One either arrests or prevents with fungicides since disease organisms are ever present in soil, air, and water," he explains. The biggest part of prevention is good cultural practices. Growing healthy grass assures the success of any fungicidal program. Fungicides are excellent for disease, but fail miserably in correcting poor drainage, water logged soils, and physiological imbalance of nutrition, according to Miller.

A record 73 qualifying competitions, in two series, will be held to determine the field for the 59th USGA Open, to be played June 11-13 at Winged Foot.



CUT NURSERY SOD



AERATE GREENS

See How Much Golf Course Work These Two Machines Can Do

Want to be a hero to the members of your Club, especially your Greens Chairman?

Here are two Ryan products that will help you make this dream come true.

Every golfer likes to play on greens that "hold" chip shots and have just the right texture for true line putting.

The Ryan Greensaire with its patented principle of operation does a complete aerating job the first time over; uniformly spaced, clean cut perforations reduce matting and graining to a minimum—Greens are playable immediately, heal faster and require less water for luxuriant turf growth.

Golfers also like tees and fairways that are a pleasure to drive from.

The Ryan JR. Sod Cutter removes old worn out turf, loosens up to 3" of compacted topsoil and cuts fresh sod from your nursery for resodding, almost between foursomes.

To add that "well-groomed" look, use the Ryan JR. to edge sandtraps, flower beds, etc.

Ask your dealer to demonstrate the many reasons why it pays to invest in quality built Ryan products.



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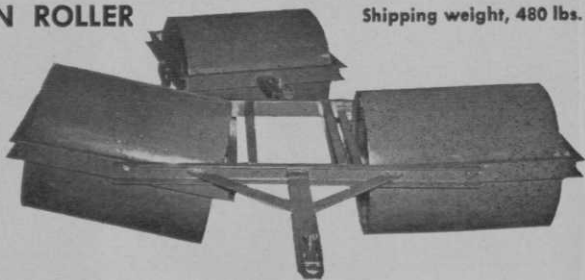
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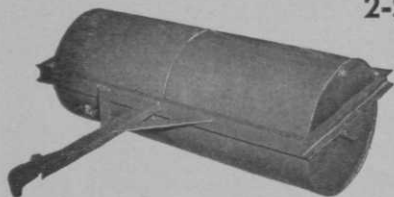
3-SECTION ROLLER

Shipping weight, 480 lbs.

An 80 inch roller with full oscillation for all sections. Water ballast 12-gauge welded steel rollers with rounded edges. Sand and dirt resistant alemite equipped hardwood bearings. Filled weight 600 lbs. per section. Frame of heavy welded steel construction complete with ball type hitch and mud scrapers. Painted rust resistant dark green.



2-SECTION ROLLER



A compact easily stored five foot water ballast roller of simple rugged construction. Welded and tested 12 gauge steel rolls with rounded edges. Grease fitting equipped, replaceable hardwood bearings. Welded steel frame complete with ball type hitch and mud scrapers. Filled weight 1200 lbs. Painted rust resistant green. Shipping weight 325 lbs.

Also, we have five-section rollers

For fast, clean-plug aerifying — **THE NIGHT CRAWLER** — now available — plugging $\frac{1}{2}$ " holes spaced 2 inches by 3 inches apart.

Write for nearest dealer's name or write us direct

BERRIEN TOOL & DIE CO. Eau Claire, Michigan

Describes Methods of Making Large Scale Bermudagrass Planting

By **WADE STITH***

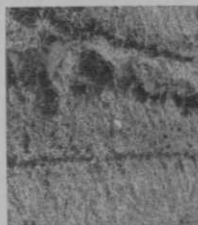
Sales Mgr., Lynde & Rowsey Nurseries,
Muskogee, Okla.

More and more clubs are turning to specialized Bermuda grasses which, ultimately, will tend to hold down maintenance costs. Since it is necessary, botanically speaking, in reproduction of these grasses for planting to be done vegetatively, rather than by seed, methods of this reproduction have aroused a great deal of interest. There are three ways in which turf grasses may be planted vegetatively: by plugging, sodding and row sprigging.

Here's an explanation of the methods:

Plugging is expensive because material and labor cost in handling it is expensive. Coverage is slow and by the time the plugs establish turf, weeds and undesirable grass have crept in in large quantities. On the other hand, plugging offers some advantages, such as when weather

is adverse and irrigation facilities restricted. Plugs get along quite well without a great deal of initial care. If plugging is contemplated it should be kept in mind that some strains, planted in this fashion, develop undesirable crowns. The crowns



Improper sprigging equipment will cause deep corrugation (left) in large scale planting. Turf looks like this (right) where proper machine is used.

will be scalped when mowed and very unsightly turf will result. Only thorough aerifying will bring it back.

Spot sodding offers the quickest way to establishing permanent turf. Risk of losing the planting is less with this method than with plugging or sprigging. Sodding is desirable for specialized applications, such as for terracing, rebuilding tees

(Please turn to Page 82)

FIRST CHOICE

FOR TURF MAINTENANCE



With the Worthington Model "F" Tractor and "Wing-Lift" hydraulic control you can now mow in areas previously cut with a power mower. "Wing-Lift" offers a choice of either three, four or five cutting units at the touch of your hand.



The Model "G" Tractor is truly a unit that can go everywhere and mow everywhere. Geared specifically for mowing, the Model "G" has power to spare. It can pull 9-gang units in areas inaccessible to other tractors.

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Now here's a tractor that combines all the advantages of the famous Worthington Model "G" Tractor with the utility and carrying capacity of a light truck—the "Utility" Dump Body Tractor.

Try this unique new unit on your own grounds and see how it can pull gang mowers, carry dirt, sand, fertilizer or tools, making it an all purpose tractor for turf use. Notice how easy it is to lift equipment in and out of the body that is *only 23½ inches from the ground!* Here's a tractor that's just made to take the back ache out of large area grass maintenance.

It's easy to arrange for a "NO OBLIGATION" demonstration and job test Worthington on your own grounds. Your authorized Worthington Dealer will help you select the right equipment to answer your turf maintenance problems. Just use the coupon below to arrange an on-the-job test or request complete literature.

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Gentlemen:

- ☐ Please send complete literature
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To build fine turf with these superintendents use



Walter P. Harkey, Superintendent of the Charlotte C. C., Charlotte, N. C., who uses Du Pont "Uramite" as the basis for his nitrogen fertilization program.

"... helped give coverage of greens in 6 weeks ... free labor for other important work"

*reports Walter P. Harkey, Superintendent,
Charlotte Country Club,
Charlotte, N. C.*

"We planted 328 Bermuda grass around June 1 on all greens," says Mr. Harkey. "Du Pont 'Uramite' was applied about two weeks later at about 20 lbs. per 1,000 sq. ft. We opened the first nine holes six weeks later. I credit the slow, uniform supply of nitrogen from 'Uramite' with helping to get coverage of my greens in this short time. 'Uramite' also helped free some of my labor for other important work that had to be done at this time. I've been well satisfied with the results we've had this season from 'Uramite'."



•Portion of the Charlotte Country Club, where Walter P. Harkey, Superintendent, keeps putting greens in consistently good playing condition with high-quality nitrogen from Du Pont "Uramite".