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golf has made its most
efficient use of water with

BUCKNER watering equipment

Behind Buckner's complete line of sprinklers, valves and watering equipment accessories is an outstanding record of research, engineering, production and performance. For more than 30 years Buckner factory and field engineers have been developing and improving precision equipment to increase the efficient use of water in promoting and protecting the health of golf turf. The unequalled number of Buckner users throughout the golf field

confirms the value of Buckner's long experience in meeting golf's watering needs. From the smallest unit to the completely equipped system you'll find Buckner models to meet every requirement. Plan your watering program with a Buckner catalog to guide you — and you'll get the last word in modern watering equipment especially for golf. A Buckner representative will gladly discuss your watering plans with you.

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CUT YOUR FLAG REPLACEMENT COSTS



with
**EXTRA-
STRENGTH**



**BULLDOG
FLAGS**

Bulldog flags are made to give you long, economical wear, save you money on flag replacements. These are the extra-strength flags that are U. S. government standard for flag quality. And they're as beautiful as they are long wearing—with brilliant true colors guaranteed fast to sun and rain.

There are Bulldog flags for every club use. Ask your local dealer or write direct for information.

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FLAG CO., INC.
DEPT. G
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U. S. FLAGS ★ CLUBHOUSE BURGEEES
GOLF MARKERS ★ COURSE DIRECTION FLAGS

which keeps Canadian pros completely informed on association and member activities. . . . Latest CPGA Year Book tells a Canadian golf club ante-dated the first US golf club by 14 years. . . . One error we noted in the CPGA records was listing of "Joe" rather than George Fazio as 1946 Canadian Open winner.

Interesting article by Donald Harradine on upkeep of Switzerland's 6 18-hole and 9 9-hole courses, in Vol. 7, No. 24 of British Journal of the Board of Greenkeeping Research. . . . Switzerland's highest course is Arosa, 9000 ft. above sea level. . . . Two members of Scientific Advisory committee of British Board of Greenkeeping Research were on New Year Honor List. . . . Dr. Ogg received a knighthood and Major Horton-Fawkes, the OBE.

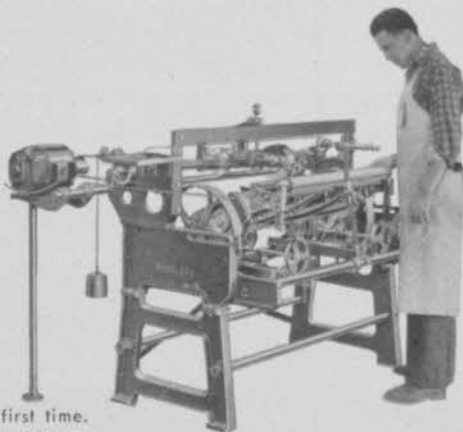
A point that hasn't been brought out enough in golf playing equipment selling by pros, is covered in the Wilson Sporting Goods Co. "Memo." . . . Golf equipment selling price increase since 1942 has been far less than increase in costs of food, wearing apparel and home furnishings. . . . Improved manufacturing methods have kept golf club and ball cost increase lower than that of any other extensively used sports goods. . . . We haven't seen much by club officials and managers showing how club membership charges also have been behind general increase in prices.

Here's A **MOWER SHARPENER** —That Gives A Keen Cutting Edge Every Time

The Peerless Sharpener has a fast-cutting grinding wheel . . . puts a keen cutting edge on any mower blade—and does it right the first time.

Peerless-sharpened mowers keep greens, fairways and lawns looking sharp, well-groomed. A "once-over" is all that's needed. Grass is cut in half the time with less power when mower blades are ground evenly and smoothly—the Peerless way.

Peerless Sharpeners are rugged and precision-made. They're built for long, trouble-free service and backed by a company well known for its long skill in designing grinding tools of many kinds. Write today for complete information.



**The PEERLESS
Sharpener**
THE POPULAR CHOICE
SINCE 1916

The FATE-ROOT-HEATH COMPANY DEPT. D-1
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Here's your answer to

DOLLAR SPOT

CRAG

Turf Fungicide—

proved effective on more than 500 golf greens

CRAG

Turf Fungicide—

safe for grass, even at double the suggested dosage

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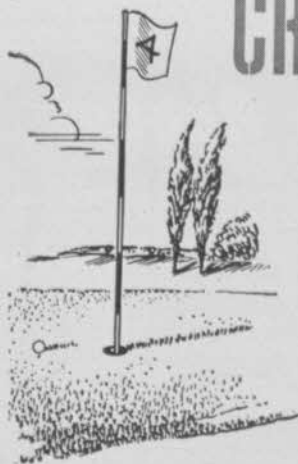
Turf Fungicide—

easy to apply as a spray or as a dust—even by inexperienced labor—without risk of skin irritation or grass discoloration

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Turf Fungicide—

non-corrosive to metal equipment



CRAG Turf Fungicide (Experimental Fungicide 531) is the modern, scientific treatment for dollar spot. It also aids in the prevention of damping off of seeds, snow mold, pink patch, green scum (algae) and large brown patch. For an average green of 5,000 sq. ft. the cost is only a little more than one dollar per application.

Start your greens back to health—Call your dealer for CRAG Turf Fungicide. Or write to:



CARBIDE AND CARBON CHEMICALS CORPORATION
Unit of Union Carbide and Carbon Corporation



30 East 42nd Street, New York 17, N. Y.

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DAVIS Grass Seed



for Spring Seeding

The severe months of winter have left their destructive marks on your greens and fairways. With Spring rapidly approaching, the time for planning turf rejuvenation is at hand.

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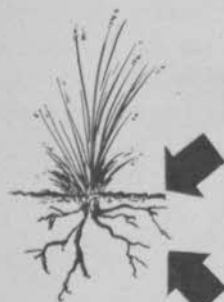
Detroit District GA and Pacific Northwest GA have affiliated with Western GA in extending Western's national caddie program and Evans Scholars' Foundation plan. . . . Detroit District scholarships to honor James D. Standish, jr., as "man most responsible for betterment of golf in Detroit area."

Bill Waite memorial invitation, a partner's best ball annual event which brings top amateurs to Shawnee-on Delaware, Pa., will be played this year Sept. 9-11. . . . Ellie Vines tells Nelson Cullenward of San Francisco Call-Bulletin that tournament golf is tougher than football, basketball, baseball or tennis. . . . Eric Ball, Oak Park (Ill.) CC pro, visited his parents in England. . . . His father, Harry, is pro at Lancaster (Eng.) CC.

Ollie Painter, veteran golf writer, batting out a fine golf column for Hollywood (Calif.) Citizen-News. . . . Another elder of the congregation, D. Scott Chisholm, was around the Greenkeepers convention at Los Angeles, looking better than he has for years. . . . Scotty's operation for cataracts was a complete success.

Metropolitan GA (New York city dist.) in annual report for 1948 showed 139 member clubs, 2923 handicap cards issued and 1140 entries in its tournaments. . . . MGA annual Turf tournament at 68 clubs raised \$5142.60 for MGA Green section expenses. . . . Lot of northern clubs had driving nets in clubhouse for winter use of members. . . . Chet

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DOLGE SS WEED-KILLER

Goes to the root of your weed problem. Use in economical solution where no vegetation whatever is desired. Sterilizes the soil so windblown seeds cannot normally sprout in it. Penetrates to the roots — and KILLS! This modern chemical weeding saves money and hours of backbreaking labor.

E.W.T. SELECTIVE WEED-KILLER (2-4-D)

Works down thoroughly to the roots of brush, dandelions, plantains, poison ivy, ragweed, sumac and other plant pests, but will not kill most turf grasses. Best used for maintaining beauty of lawns and fairways.

Write for literature explaining these tested DOLGE products fully and giving specific directions for their use.

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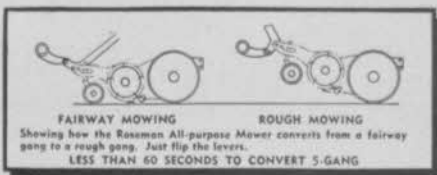
MOW FAIRWAYS
ROUGHS — BUNKERS
TRAP EDGES
WITH EASE AND AT
LESS COST



Roseman Hollow Roller drive Combination rough and fairway mowers will mow your entire course at less cost.



Roughs and roadside mowing of clubhouse drives speeded up with ROSEMAN Gang Mowers. Appearances improved, costs reduced. ROSEMAN Roller-action develops thick low-growing turf, overcomes wash-outs and gullying.



Roseman Hollow Roller-drive combination rough and fairway mowers will prove of definite benefit to your course.

The light rolling action of Roseman Hollow Roller Mowers improves fairway playing surfaces with each mowing.

Have you ever "improved" a lie by gently pressing around the ball with your foot? That same gentle "improving" action is applied to your entire course each time you mow with Roseman Hollow Roller Mowers.

Tufts of grass and other irregularities are gently leveled.

Surface runners and nodes of Centipede, St. Augustine, Bermuda, Bent and other grasses are kept in close contact with the soil where they have the opportunity to promote a thicker, denser turf growth.

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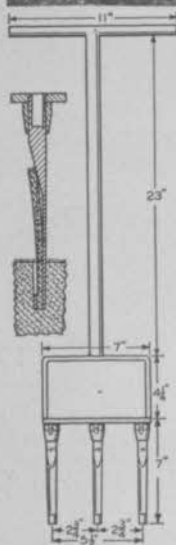
The perfect tining tool. You may now add your soil conditioners without compacting the greens; unbelievable speed at low cost.

Promotes root development, internal drainage, soil improvement and aeration.

For Your Nearest Dealer
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501 S. W. 44th St.
Oklahoma City, Okla.

Improve old greens without
rebuilding.



Coleman and Walter Keller now have Paul Mangrum with them at Sunset Fields driving range in LA.

Condolences to Joe Novak, PGA pres., whose mother died Feb. 18 at Butte, Mont., at the age of 73 at the home of a daughter.

Jack Level, Elmhurst, LI, NY, discontinuing his Golf Book Service. . . . Jack has a lot of old and new golf books he's clearing out. . . . Eddie Duino fixing up program as chmn., PGA educational committee which he hopes can be coordinated on a national basis for business development of pros and assistants. . . . At Hawaiian Open was a sign ruling "All contestants must wear shoes." . . . Dewey Longworth heads Northern California PGA committee for coordinating junior tournaments and arranging schedules of tournaments for kid at various clubs.

Prentice-Hall, Inc., NY, to publish book by Gene Sarazen on tournaments and personalities of his 40 years in golf. . . . Masters tournament at Augusta, Ga., April 7-10, has 93 on invitation list. James Bolton from Seaview GC, signed as gkpr., Brookside CC, Canton, O. . . . British Open increases prize money from approximately \$4000 to \$6000. . . . First prize to be \$1200 instead of \$600. . . . New book, Turf by I. G. Lewis, published by Faber and Faber, Ltd., London, Eng. at 12 s. 6 d.

Marshall Farnham, supt., Philadelphia CC, named to USGA Editorial board on forth-

*Woodruff has the answer to
your problem*

Generations of turf superintendents have turned to Woodruff for the answer to any puzzling lawn or turf problems. They know Woodruff has the answer, and has the seed. We'd like to be of service to you.

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**GOLF
BALL**

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NEW and IMPROVED FOR 1949

1. REINFORCED BOXES.
2. IMPROVED DISC PROCESS FOR LONGER WEAR.
3. IMPROVED LIDS.
4. RUBBER CUSHION TO ELIMINATE RATTLES.

Savings mean profits. With the Picker-Upper you get savings that you would not have thought possible . . . savings in time, labor, worry and ball investment that will immediately and substantially increase your operating profits.

Cleaning a swath 9 ft. wide at a speed of 8 miles an hour the Picker-Upper gathers up golf balls with effortless efficiency . . . it gets 'em all and deposits them in a hopper ready for speedy replacement at the tees.

The Picker-Upper quickly pays for itself for its savings begin the moment it goes into operation. It brings quick relief to high labor costs and worries . . . to back-fence theft . . . to needlessly high ball investment and deterioration.

The finest rubber tees made are now available.

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**STANDS UP BEST UNDER
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Year after year Scotts Seed and Golf-Park fertilizer makes better turf for more enjoyable golf. Write for prices and ask about the new Scotts Weed & Feed product for healthy weed-free turf.
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coming golf turf book, replacing A. L. Brandon who retired as executive sec-treas. of National Greenkeeping Supts. Assn. because of poor health. . . . Dick Shoemaker goes from Alcoma CC (Pittsburgh dist.) as pro of Beechmont CC, Cleveland, O., where Dick succeeds late Alex Ogilvie. . . . Smethport (Pa.) CC clubhouse burned last Dec. being replaced. . . . New clubhouse serving 300 members in heart of Pennsylvania high quality petroleum field, designed by James McElhatten, to be completed in June this year.

Babe Didrikson Zaharias Columbia Pictures' Sportsreel picture now being shown around the country and getting O.K. from golfing and non-golfing viewers. . . . Hector Thomson, winner of 1931 British Boys' and 1936 British Amateur championships, now a British PGA member. . . . First "half way station" for drinks on a golf course was established at tenth tee of St. Andrews Old Course about 1890 by David (Auld Daw) Anderson. . . . He sold only milk and ginger beer.

Edmundo Salas doing a grand job in editing and publishing *El Golfista Mexicano*, official publication of the Asociacion Mexicana de Profesionales de Golf. . . . The Mexican pros dedicated February number of their interesting illustrated magazine to the republic's president, Miguel Aleman. . . . Pres. Aleman is an enthusiastic golfer who goes

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**Protect Greens,
 Shrubbery, Trees . . .
 SPRAY the
 IRON AGE WAY**



GREENS keepers praise the low-cost protection they get from Farquhar Iron Age Sprayers on golf greens, shrubbery, bushes, trees. Especially designed to spray areas inaccessible to large wheel and truck-mounted sprayers, these handy machines are ideal for economical general-utility work around any size golf course.

Shown here is an Iron Age Sprayer, equipped with a 4-gallons-per-minute pump, protecting golf greens. The famous Iron Age Pump delivers the constant high pressures needed for thorough penetration. This unit can also be used for weed control, whitewashing buildings, disinfectant work or fire protection.

Farquhar builds Iron Age Sprayers in various types, sizes and pump pressures to meet all requirements.

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showing how it will pay you to *Spray the Iron Age Way*. Write: A. B. Farquhar Co., Farm Equipment Division, 3427 Duke St., York, Pa.

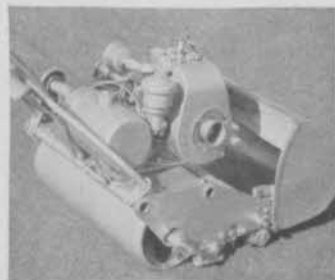


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 SPRAYERS • DUSTERS • POTATO DIGGERS • WEEDERS
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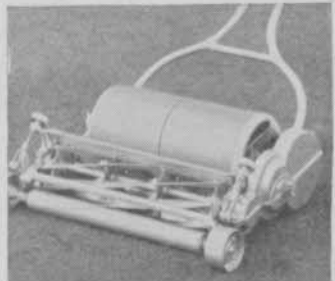
YORK, PA.



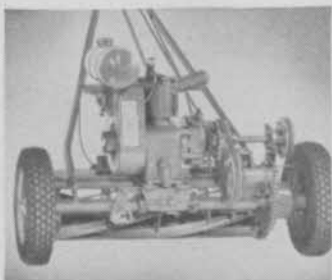
TORO MASTER TRACTOR with underslung gangs which mow ahead of rear wheels for smooth, ridgeless cut. One of Toro's great line of turf maintenance tractors available in various sizes and models with dependable Toro Spartan Gang Mowers in underslung or trailing type frames.



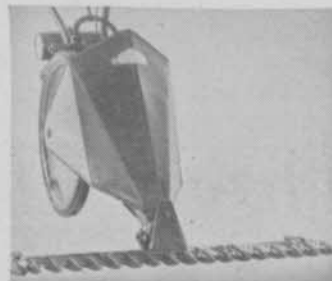
TORO POWER GREENSMOWER. Weight balanced over reel. 8 blades mean absolutely no corrugation. 4-cycle engine. Uses comb, brush and original Toro transport wheels. A precision-built beauty!



TORO HAND GREENSMOWER. Back again! Precision construction, specialized design for cutting creeping bent, Bermuda or any other grass absolutely true without the slightest corrugation.



TORO STARLAWN heavy-duty power mower with floating axle, high-low cut angle adjustment. 24", 27" and 30" widths (sulky fits 30" mower). Independent reel and traction controls.



TORO ZIPPER sickle bar mower... for cutting weeds, tall grass. Self propelled traction drive. 36" cutting bar. 1½ h.p. engine. Cuts close on banks, by buildings, under fences and bushes.

TORO engineers mowers for every golf course job

Got special mowing problems on your course? Then take a look at this complete new Toro line for '49 . . . specifically engineered for fast, money-saving, dependable operation on every kind of golf course mowing chore . . . and precision made by Toro with more than 25 years' experience in "tailoring" mowers to the job on the nation's championship courses.

You'll find the right Toro here, or in Toro's comprehensive catalog of golf course tractors, mowers and accessories. See your nearest Toro distributor for demonstration.



TORO PROFESSIONAL. Cuts up to 25 acres per day with 76" swath. Convertible to 30" swath. "Out in-front" reel for close cutting. Forward and reverse transmission. Toro 4½ h.p. engine.



SIGN OF SERVICE . . . and Toro nation-wide service facilities give you fast help and parts delivery. For more facts, write: Toro Manufacturing Corporation, Dept. G-3, Minneapolis 6, Minn.

ATTENTION GREENKEEPERS!

At last—a 100% soluble liquid fertilizer that will help you keep those greens and fairways in better shape, with less work, the year around.

Yes sir, "Na-Churs" Liquid Fertilizer is based on a recommended formula as developed by The Ohio State University, and it contains the proper nutrients necessary for producing and maintaining greener, thicker, healthier turf.

"Na-Churs" is easy to apply; saves time, money and labor, and can be applied with your present equipment. Leading golf courses, the country over, are using this proven liquid fertilizer. Write Dept. E today for full information and introductory offer.

**"NA-CHURS" PLANT FOOD
COMPANY Marion, Ohio**

around in the mid-80s when his duties give him a chance to play. . . . He and his cabinet are booming golf in Mexico. . . . Mexican Open, won by 22-year-old Texan, Tony Holguin, pro at Guadalajara, showed field which included Demaret, Mangrum, Snead and other established American stars, that Mexico has highly promising native talent. . . . The veteran Al Espinosa didn't do at all bad playing in his first competition in many years. . . . Holguin got \$2000 first prize money with 201 for the 54 hole event at Mexico City. . . . Al got \$50 for tenth place.

Norman Von Nida says it cost him the equivalent of \$8000 expenses for his short season of British competition last year. . . . Meadowlark CC, Great Falls, Mont., spending \$250,000 in course and clubhouse improvements, including new pro shop for Ralph Meyers. . . . Art Craig begins his 23rd year as mgr., Alderwood CC, Portland, Ore. . . . Alderwood has had 63 aces made on it in the club's 25 years.

Carnoustie Golf club now in its 107th year. . . . The club has been the nursery of 208 professionals who have won about every national title except the British Open. . . . Esquire magazine's April issue contains an interesting 12 page guide to "good golfing." It includes Leaves from the Pro's Notebook, and the Five Cardinal Sins as instruction material, an illustrated piece on Pine Valley,

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Specify *Illahaee*

The FESCUE that lives compatibly with other grasses.
Does not isolate—Deep rooting—Disease resistant—Ideal for shade.

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