

COMPARE maintenance costs!



and you'll buy ROSEMAN GANG MOWERS - - - -
Every Time

Why Roseman

High mowing costs, wasted man hours and excessive repair bills are not found in gang mowers of Roseman design and quality.

Save on Repairs

Exclusive non-breakable malleable side frames and bed knife shoes. Tough chrome-nickel alloy steel heavy duty reels with riveted blades—not welded—to avoid hard spots and breakage. Timken adjustable bearings. Vanadium steel bed knives. All assure faithful service for many years with almost non-existent repair bills.

Save on Labor

Exclusive ability of Roseman hollow-roller-drive gang mowers to overhang traps and shrubbery beds and cut close to fences and structures eliminates the need for much hand trimming. Hundreds of man hours can be saved or devoted to other tasks.

Save on Time

Roseman mowers are rear drive mowers. They mow faster, more uniformly without kicking up the rear. Faster mowing with considerable savings in time and man hours are the result. To say nothing of smoother cut fairways.

Save on Equipment

Roseman mowers, with combination rough and fairway hitch can be used to mow areas quickly and at less cost. No need for the smaller club to buy an additional gang of rough mowers. Just flip the mowers into high cutting position. Also useful where grass on rain flooded fairways "gets away."

Compare 'em all

You are invited to compare the Roseman mower with any other mower. Be sure and compare Roseman quality, design features, low upkeep costs, and performance. We believe that you, too, will join the swing to Roseman mowers.

MAKE YOUR NEXT GANG ROSEMAN
WRITE FOR DETAILS TODAY



ROSEMAN MOWER CORPORATION

2608 RIDGE ROAD

UNIVERSITY 4-1842

EVANSTON, ILLINOIS, U. S. A.



MISTER Featherweight
LIGHTWEIGHT ALL ALUMINUM RAKE



**sand trap rakes
golfers will use!**

They're so light and easy to use with one hand that only a confirmed course-wrecker can resist the challenge to smooth out the trap! Of rugged all-aluminum construction (with splinter-free aluminum handle) 'Mister' Featherweight rakes last twice as long as the ordinary kind. "Accidental" loss is less, too, because they're designed for sand traps — not gardens.

**USED — AND APPROVED —
BY LEADING GOLF COURSES**

SATISFACTION GUARANTEED
Materials and workmanship warranted.

Order through your jobber or from
MR. FEATHERWEIGHT CO.
1759 Victory Blvd., Glendale 4, Calif

DISTRIBUTORS WANTED

Territories open for distributors now calling on golf course trade. Write or wire today.

secy. and John Hilborn, treas. . . . More than 850 golfers played new Trenton, N. J. muniy course the first week it went into operation.

University of Maryland's 18-hole course designed by George Cobb, Chapel Hills, N. C., getting big play . . . Maryland's golf director, Frank Cronin, is conducting a one semester course, 3 hours a week, for beginners and plans advanced course . . . Duke and U of N. C. are other schools in Atlantic Coast conference with their own courses . . . Bob Hamrich will be Champaign (Ill.) CC pro succeeding Charley Jones who is retiring after many years at the club.

Frank Clark now pro at Woodcrest CC, Had-donfield, N. J. . . . Ken Venturi and Jackie Burke to Japan for exhibitions . . . International pro matches at Tokyo last year and victory of Japanese team made Nippon hot for golf . . . During week of Sept. 20-28, British pros ran an event at their clubs to raise money for British Golf Foundation's program of golf instruction in schools.

A man and wife at Waynesboro, Pa., have offered the city \$15,000 for getting course built on borough property, the loan to be at 6½ per cent interest and to be written off on death of the couple . . . Atlanta, Ga., transfers \$125,000 intended for course and park for Negroes to zoo improvements . . . Jimmy Thompson succeeds the late John Randall as pro at Columbia Hills CC, Cleveland, O. . . . Thompson was Randall's asst.

STOP BALL MARKS ON GREENS



ACTUAL SIZE

with this handy
TOOL

No need for Green Chairmen or Golf Course Superintendents to continually shoulder the blame for greens having those ugly ball marks.

Provide your golfers with this inexpensive tool and have 200 to 400 men and women help maintain those beautiful and expensive greens.

Our many repeat orders prove that this little tool has a definite place on all golf courses. This tool can be used as a shoe horn—to clean dirt from spikes and upper soles of shoes; also clean scoring from club heads.

Prices: for nickel plated, plain or imprinted as shown—
F.O.B. Des Moines, Ia.:

1000 — \$65 500 — \$35 250 — \$20

Ten percent of order in small individual envelopes with printed directions.
Extra envelopes one cent each.

Ten dollars for imprinting name of firm or club. Limit of 26 letters and spaces for upper; 29 for lower line. Imprinting on one side only.

WOODSIDE GOLF & PARK SUPPLY CO.

Des Moines 13, Iowa

AQUA-GRO REPORT for 1958

Facts and Conclusions

Fundamentals:

The use of the non-ionic wetting agent Aqua-Gro is a new concept in water management and not just another additive to present turf practices. The turf field is still dominantly limited both in practice and theory by the use of the age-old ingredient — "plain water." To those superintendents who are using Aqua-Gro, we wish to stress that the change from "plain water" to "wetter water" is so fundamental that all prior beliefs and practices must be re-evaluated.

- 1) USDA* tests show lower soil moisture tension profoundly increases water and nutrient uptake.
- 2) By substantially lowering soil moisture tension Aqua-Gro greatly increases the availability of both water and nutrients.
- 3) Aqua-Gro by lowering the surface tension of water gives quick, uniform distribution of water and deep penetration resulting in substantial savings of time and money.

Burning:

For the very first time all of your greens got a proper drink of water when Aqua-Gro was used. We come to this conclusion after a thorough investigation of the few isolated cases of discoloration or burning reported after the use of Aqua-Gro. Normally, your application rates of fungicides, herbicides, and fertilizers don't vary over the turf surface, but the leaching out of the soil and the utilization of these products in the soil is dependent upon that old standby "plain water." Without exception the following facts became apparent:

- 1) Damage resulted in areas with a history of difficult watering; areas of weaker turf.
- 2) These areas had a high accumulation of chemicals, particularly nitrogen. Plain water was not doing a job. Water distribution in the soil was neither uniform nor deep, and the nutrients were "building up" and were not being made available to the grass.
- 3) After using Aqua-Gro these areas had for the first time uniformly distributed water. Thus, lower soil moisture tension coupled with the high chemical content produced a "burn" or discoloration. Therefore we recommend the use of Aqua-Gro. Your soil will be kept in a healthier, cleansed condition, and a more consistent utilization of soil chemicals will result.

- 4) No burning has ever been reported from the use of Aqua-Gro directly. We recently investigated a classic example of a "burn" reported from a California course. New sod and plugs were placed in a difficult-to-water green. Afterward Aqua-Gro was applied. "Burn" was observed in the old turf, high in accumulated chemicals, but not in the new sod and plugs which grew vigorously, having no chemical accumulation.

Watering:

Many superintendents continue to water by the same schedules used before treatment with Aqua-Gro. To take full advantage of Aqua-Gro and prevent overly soft greens, it is necessary to adjust your watering program to handle "wetter water." Since Aqua-Gro permits a much faster penetration and wetting of the soil it is necessary to reduce the time of watering required to give the desired depth of wetting. Secondly, since Aqua-Gro gives a uniform distribution of freer moving moisture in the soil, experience has shown that less frequent waterings are necessary. Accurately kept records on golf courses show (1) One half the normal watering is ample (12 minutes instead of 25, 15 instead of 35, and 20 instead of 45). (2) Your savings in water and labor will be substantial. (3) the turf will be in better condition than ever before.

Recommendations:

Start every season by treating with Aqua-Gro. Prepare your soil with "wetter water" to give the ultimate in control and utilization of water and soil chemicals. Couple this with a well-rounded fertilizer program, designed to meet the needs of your soil and grasses. Place confidence in the continued use of Aqua-Gro to give you a more consistent utilization of soil nutrients and eliminate the harmful accumulation of chemicals in the soil. We caution against the use of large amounts of fertilizers and other chemicals when using Aqua-Gro. All these nutrients are fed to the plants through water. "Wetter water" in Aqua-Gro treated soil increases the effectiveness of your fertilizer and spray programs, and therefore lesser quantities may be used. Deep, uniform distribution of freely available moisture will make possible an infrequent watering schedule. This sound watering and maintenance program has built better turf and resolved many past problems of superintendents.

Robert A. Moore, V. P.

Aquatrols Corporation of America
730 Lancaster Avenue
Bryn Mawr, Pa.

* "Agriculture Research", May, 1958.

**"MY COMPACTED
GREENS
CORRECTED WITH
Terra-Lite®
VERMICULITE"**

**FORMER RUN-OFF
HAS STOPPED. TURF
IS SPRINGY, BALL
RETENTION GOOD.**

...says Dave Mastroleo, Supt.,
Addison Golf Club
Addison, Ill., 3-year
Terra-Lite user.



Most soil is not perfect for turf, but Terra-Lite conditions any soil to perfection, permanently. Terra-Lite loosens and aerifies clay soil, gives body and water retention to sandy soil. The millions of air-and-water holding cells in Terra-Lite hold and feed water and nutrients to roots, promote a dense root system and thick grass—no run-off in wet seasons, no "bald spots" and starved roots in dry weather.

LASTING BENEFIT

Terra-Lite is inorganic, permanent as the earth itself. When you install Terra-Lite you get the improvements you want, and you get them for good!

**MAIL COUPON FOR FREE DATA FILE ON
GOLF COURSE AND TURF CONDITIONING**

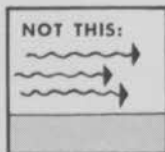
TERRA-LITE DIV. Zonolite Company Dept. G-108
135 S. La Salle St., Chicago 3, Ill.

Send me your **FREE** Golf Course Data File.

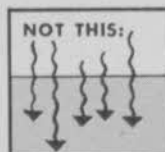
Name

Address

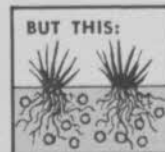
City.....Zone.....State.....



Water runs off stiff, clayey soil, leaves roots dry



Water runs through sandy soil, roots are thirsty



Terra-Lite holds, feeds water underground. Promotes deep, dense roots and thick, springy turf

Riverton (N. J.) CC building \$300,000 clubhouse and pool . . . Philadelphia GCSA and Men's Golf Assn. of Philadelphia, at their annual joint dinner, awarded a university scholarship to a caddie.

O. L. (Dick) Jacks, owner of Edwood Glen course, Lafayette, Ind., remodeled holes on his first 9 and adds second 9 to be in play next spring . . . That gives Lafayette four 18-hole (2 at Purdue U) and one 9-hole course in a city of 40,000 . . . Davenport, Ia., figuring on 18-hole course at Emeis Park to plans of C. D. Wagstaff . . . Cedar Rapids, Ia., to have new many course . . . Chapel Hill GC, McHenry, Ill., incorporated.

Palo Alto Hills G&CC, plans course and residential development near Palo Alto, Calif. . . . Lemore (Calif.) City Clerk George Robertson looking for someone who will put course into good condition and operate it for the city.

Begin construction of 18-hole course seven miles west of Corona, Calif., tentatively known as Green River course . . . It's world's only course in three counties . . . Milford, Del., group organized to build 9-hole course to plans of Eddie Ault . . . The Camargo Club, Cincinnati, O., reduces operating costs for second consecutive year through operating efficiencies in maintaining members' estate adjacent to course . . . This program, described by Camargo supt., Taylor Boyd at USGA Green Section meeting in Chicago last January, is bound to continue growing and become big factor in

NEW YARDAGE MARKER



• BLACK
NUMBERS



• YELLOW
BACKGROUND

• ALUMINUM
FRAME

One side gives fairway yardage (150, 200, 250 or 300), other side reads "Replace Turf." Frame 4½" x 9" fitted with two ground stakes. Prompt delivery.

STANDARD MANUFACTURING CO.

Box G58, Cedar Falls, Iowa

for a **DEPENDABLE,
PERMANENT, LOW-COST
WATER SYSTEM...**



USE
Cres LINE
PLASTIC PIPE

Guaranteed
right in writing!

FREE engineering help!

Even unskilled workers can install low-cost Cresline Plastic Pipe quickly and easily because it is light in weight, long in length, and simple to join.

Both Cresline Flexible Pipe and Cresline-KL semi-rigid and rigid Plastic Pipe are made of virgin materials, tested and proved right in our own laboratories. Sure to give

you permanent, trouble-free service because every inch is *guaranteed right in writing.*

Our Golf Course Technical Planning Dept. will be glad to help you plan your watering system, at no cost to you. For more data on Cresline golf course watering systems or for free engineering suggestions, send the coupon below today.

MEMBER NATIONAL GOLF FOUNDATION

PIONEER MEMBER OF



**CRESCENT
PLASTICS, Inc.**

955 DIAMOND AVENUE
EVANSVILLE, INDIANA

MAIL THIS COUPON TODAY

GOLF COURSE TECHNICAL PLANNING DEPT. G-8
CRESCENT PLASTICS, INC.
EVANSVILLE, INDIANA

- Please make engineering suggestions and figure costs on attached plan.
 Send more data on Cresline Pipe.

NAME

TITLE

ADDRESS

CITY STATE.....



**Grass Gets Greener
All The Time When Its**

Ormund Bermuda

Recognized by the U. S. Golf Association as one of the better grasses for golf courses, Ormund Bermuda will help eliminate grass problem for greens superintendents. For turf, to assure pleasure for your golfers, plant your course with Ormund Bermuda.

A nationally known greens superintendent who rebuilt the fabulous Palm Beach Country Club with Ormund Bermuda says "It has everything you want in grass for either a golf course or a lawn." Ormund Bermuda resists weed invasion . . . resists injury and wear . . . resists disease and insects . . . has vigor . . . stays green . . . grows fast.

It just GROWS and GROWS

Wilson's suggest that you order your grass now to prepare your sod fields for spring planting. Use the grass you plant now to sprig your golf course this spring. Ormund Bermuda is now used generally throughout the South and has been successfully tested as far north as Pennsylvania.

**One Bushel plants 500 feet
Cost: \$5.50 per Bushel, fob Jupiter, Fla**

Your inquiries are invited: Write
WILSON SUPPLY CO.
DEPT. 2, BOX 6026
WEST PALM BEACH, FLORIDA

**LIMITED SUPPLY
ORDER NOW!!**

grounds and course operations, especially at golf and residential projects.

Harold Glissmann, veteran operator of Omaha semi-private courses, building 18-hole semi-private to be opened in May, 1960 . . . John Graves, formerly in charge of landscape maintenance at Augusta (Ga.) National GC, now is the club's golf course supt. . . . Paul Farrington, for eight years pro at Blytheville (Ark.) CC, completely remodeling club's greens and planting 328 . . . Farrington also replaced the 9 sand greens of Kennett (Mo.) CC with greens of 328 and is doing similar job for Malden (Mo.) CC . . . Eugene Still, Blytheville pres., and Virgil Powell, Malden pres, share Farrington's conviction that 328 has proved itself to be the right answer in giving smaller clubs in the area first class grass greens.

Rueben Hines and Rueben, jr., golf turf nurserymen and course builders, Brooksville, Md., building 9-hole course for Oak Hill CC, Richmond, Va. . . . Club expects to add another 9 later . . . Robert Bruce Harris, golf architect, thinks it won't be long before there are women on Green committees . . . We don't know of any women now on these committees, do you? . . . There were many women country club officials and directors in the '90s and in the first 10 years of this century, but very few now.

Most publicity a caddie day at a club gets is that given by Fall River (Mass.) Herald-News to the Fall River CC . . . Sports Editor Frank McGrath, gives great cooperation to the

SEE US at the SHOW—Booth 61

Featuring . . .

CLORO-SPRAY

**The Complete Liquid Grass
Food and Soil Conditioner**

DEW-DOWN

**A Non-Ionic Organic Wetting Agent for Use
Wherever Penetration is Desired Such as
Golf Greens - Tees - Fairways**

ALL-TERGE

**For cleaning golf balls.
Gets 'em cleaner.**

NEW! NO-DRIP LUBE R. P.

All purpose lubricant and rust preventative

NEW! L-M GAS LUBE

For use in 2 cycle lawn mower motors

Products of the SANSON Line
CLORO-SPRAY Corporation

2215-25 N. American St., Phila. 33, Pa.



5,000 SQ. FT. Green is aerated and ready for play in less than 2 hours

Keeping greens in perfect putting condition without interrupting play – that's a problem for either a magician or the RYAN GREENSAIRE.

Hundreds of golf course superintendents prefer the GREENSAIRE because it does a complete job of aerifying greens, tees and approaches and leaves them in perfect playing condition right after aerating.

With an 18" swath and a speed of 40 ft. per min. the GREENSAIRE completely aerifies a 5,000 ft. green in just 2 hours!

SELF-SHARPENING hollow tines punch 30,000 clean-cut perforations in every 1,000 square feet of turf; holes are evenly spaced on 2" centers to permit uniform distribution of plant food and water. Special timing mechanism and patented hold-down fingers prevent tearing of turf around holes. Plugs are extracted and deposited on the surface for easy removal. Plugs can be valuable compost, or pulverized on the green with a vertical mower, they can be re-used as top dressing. Perforations up to 3½" deep let water and

fertilizer reach the root zone faster. Greens require less watering; deep penetration promotes healthy root growth and uniform soil texture. The small, life-giving perforations are easily filled with top dressing . . . will completely heal over in less than a week.

(Now manufactured and sold by the makers of RYAN Sod Cutters, the GREENSAIRE was formerly known as the "Greens Air Special" and manufactured by the Greens Aerification Co., of Hopkins, Minn.)

• Write today for descriptive literature and the name of your nearest Ryan Dealer! National Sales and Service.



**LANDSCAPING
EQUIPMENT
COMPANY**

871 EDGERTON STREET • ST. PAUL 1, MINNESOTA

Plan now to
Attend the
30th NATIONAL
TURFGRASS CONFERENCE
AND SHOW

CHICAGO, ILL.

Sherman Hotel

January 25-30, 1959

The only NATIONAL Educational Conference presenting the latest information on golf course turf RESEARCH — MANAGEMENT — USE

PLUS

The largest national exhibition of equipment, materials and supplies for all phases of the turfgrass industry.

SUPERINTENDENTS-
GREEN CHAIRMEN-
CLUB OFFICIALS-
FEE COURSE OPERATORS-
MUNICIPAL COURSE
MANAGERS-

Sponsored by the

GOLF COURSE SUPERINTENDENTS
ASSOCIATION OF AMERICA

The men who maintain fine golf courses.

P.O. Box 106 St. Charles, Ill.

Write for details on available
Show space.



WISCONSIN WINDFALL . . . To help defray the expense of the 1959 GCSA national convention, which will be held in Chicago in January, the Wisconsin GCSA recently gave the host group, the Midwest Association, a check for \$250. Ed Stewart, (center), Midwest pres. and supt. at River Forest CC, Elmhurst, Ill., accepts the money from Frank Musbach (r), supt. at Blue Mound G & CC, Milwaukee, while Bob Williams, national GCSA pres., smilingly calculates what that \$250 will supply.

kids and club pres., Jim Waldron, pro-supt. Marty Higgins, Asst. pro Manny Souza, Mgr. Monty Guarino and lockerroom supt., Arthur Valley . . . In Lorain, O., 3000 recently signed a petition for a public course.

You can, and should, credit Dick Daley mgr. of Army-Navy CC, Arlington, Va., for his leading role in getting relief for country clubs in recently enacted tax legislation . . . Dick knew the clubs' case, where X was in Washington, and kept on the ball.

John Whitaker, Hammond (Ind.) Times sports editor and a 7-handicap golfer, put on 22nd Hammond Times-Calumet amateur golf championship as the most successful of these affairs which the paper has established as the sectional championship of southern suburban Chicago and northern Indiana . . . There were 316 entries and 47 qualified at the five qualifying courses.

National Golf Foundation had its field staff at Chicago, Sept. 5-6, for consultations and discussions with developers of country clubs, tax experts, golf architects, marketing and physical education experts . . . Rex McMorris, Foundation executive vp, headlined public golf session of 40th National Recreation Congress at Atlantic City, Sept. 23 . . . Foundation is co-sponsoring with Southwestern Recreation Assn. course planning and operating workshop at San Carlos Hotel, Pensacola, Fla., Oct. 30 and 31.

Billy Sixty, veteran golf and bowling writer of Milwaukee Journal, did an entertaining and exciting piece on Joe Paletti, Ozaukee CC pro's winning of Wisconsin PGA Seniors' title and a trip to Dumedin . . . Joe makes the fifth state champion at Ozaukee this year . . . The club had the Wisconsin women's, men's senior amateur, state amateur and American Legion championships.

Philip H. Goldsmith, 61, chm. of the board, MacGregor Sports Products, Inc., died Sept. 18 in Munich, Germany, of a heart attack . . . He

AContinued on page 90)

You Can Save Time and Labor With a *Lawn Beauty*® Power Spreader

No More Pushing — Engine Power Does It.

Now, one man can top dress and brush 18 greens in one day. This new Lawn Beauty power spreader equipped with adjustable brush attachment combines the two operations, saving both time and money. With each top dressing, you actually save well over \$100 in labor costs. Greens can be played on immediately.



Easy to operate.

Flexible control with gear transmission and differential.

Patented — other patents pending and applied for.

Takes Care Of ALL Your Spreading Requirements

- SEEDING
- FERTILIZING
- LIMING
- TOP DRESSING

Spread 200 lbs. of chemical or organic fertilizer, grass seed, lime or insecticide without refilling. Exclusive regulator control assures each will be spread accurately, uniformly, in just the right quantity.

One demonstration will convince you.

(See Your Distributor)

For full information,
mail this coupon today!



Schneider Metal Manufacturing Company
1814 South 55th Avenue
Chicago 50, Illinois

Please rush me full information on the Lawn Beauty
Model 336 Power Spreader.

Name

Address

City State.....

You're Way Ahead



Faster on the Greens

A half-hour is all it takes to aerify a green with a G-L or Junior G-L Aerifier* equipped with SUPER REEL. Power-on-the-reel drives the Aerifier at a brisk, time-saving pace.

SO MANY MORE ADVANTAGES FOR YOU

MORE HOLES PER SQUARE FOOT with SUPER REEL — 60% more on the G-L, 75% more on the Junior. Result: four-way aerifying in one operation.

SMALLER HOLES with the new 1/4" Aerifier Spoon that does the job the way you want it done.

MAXIMUM CULTIVATING ACTION with SUPER REEL that's equipped with the patented Aerifier Spoons which loosen the soil *beneath the turf*.

*Reg. U. S. Pat. Off.

EASY DEPTH ADJUSTMENT allows you to select the hole depth that you want for your greens according to conditions at the time of aerification.

QUICKER HEALING due to the spoon spacing on the SUPER REEL which is built for fast resumption of play. Result: happier golfers on your course.

MORE VERSATILITY with SUPER REEL because it can aerify the all-important collars and approaches as well as the greens.

You Can Count On WEST POINT . . .