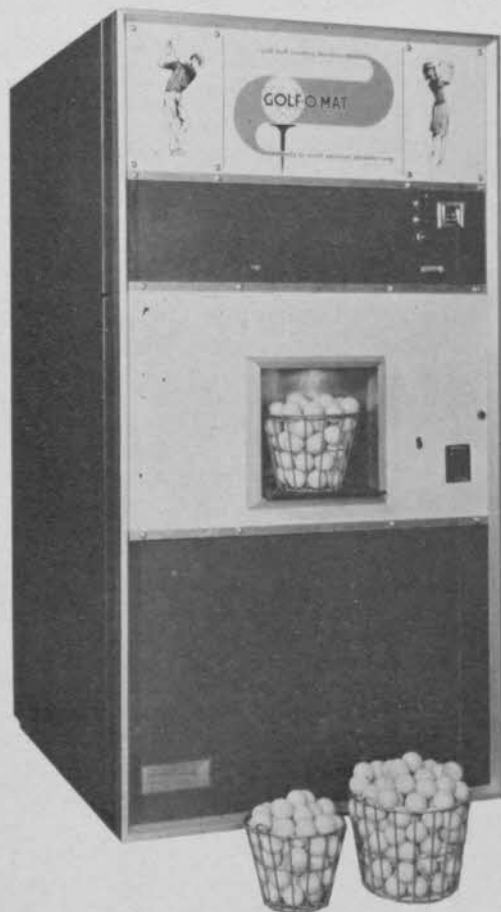


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You can offer one size or two different sizes.
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Shown here spreading Milorganite

Spreadability brings you green fairways, shining turf... that make a golfer feel he's on the world's best course! *Spreadability* is an even flow, an accurate spread pattern, and a broad cast. But *spreadability* goes further... into the extra thought in engineering design to bring you: less maintenance, longer life through fewer moving parts, all unenclosed; ease of feed control from tractor seat; capability to handle tough spreading jobs; fewer re-fills. All of this is *spreadability*. This is the Larson Broad-Caster.

The popular 410 (15 cu. ft. cap.); the NEW heavy-duty 420 (25 cu. ft. cap.). Both available with 3 h.p. gas engine drive.

NEW! 403 PIGGYBACK BROAD-CASTER

Three-point hook up
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Some features as
trailer models.
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Also Pressure Sprayers

NAME

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CITY STATE



Frank Emmet, who has directed Junior golf activity in Washington, D. C. area for 35 years, presents 1962 Schoolboy championship trophy to Ricky Meissner (1) who beat Joe Simpson (center) in the final at Columbia CC. Junior champions from all over U.S. will take part in first Tournament of Junior Champions at Kenwood CC in Bethesda, Md., Sept. 3. They will compete for the Emmet trophy. Persons interested in entering a Junior champion should get in touch with Joe Gambatese, 7119 Exfair rd., Bethesda 14.

in Whang Hollow section near Kent, N.Y. . . . White Manor CC in Philadelphia dist., has sold its course and will build new course and clubhouse for about \$1.2 million in the Radnor Hunt section . . . Bill and Dave Gordon designing course.

E. N. Jordan from Mountain Lake Club, Lake Wales, Fla., to manager of CC of Detroit . . . Reid D. Ferguson is manager of Parc Wood CC, Meun, Wis., now being built as a club and real estate development . . . Ewald C. Pohlman now general manager at Plandome CC (N. Y. Met dist.) . . . M. H. Bargteil signed as manager of Rockledge G&CC, Cocoa, Fla. . . . David Cleage now mgr. Normandie GC, St. Louis dist. . . . Congratulations to the women responsible for the program of the 32d Transmissippi Women's tournament which was held at Wichita CC . . . A job of real class befitting a fine organization and club . . . Grand tribute to Mike Murra, pro emeritus of Wichita CC, written by Marilyn Smith, was a feature of the program.

Construction of \$500,000 split-level clubhouse, pro shop and first two of eventual 30 guest cottages started at Tucson National GC . . . Clubhouse in Spanish Colonial tradition to be located on high ground and will give view of Santa Catalina mountains and overlook course which will be opened in mid-December . . . Frills include a Finnish Sauna or heat room . . . El Dorado Hills' 18-hole course



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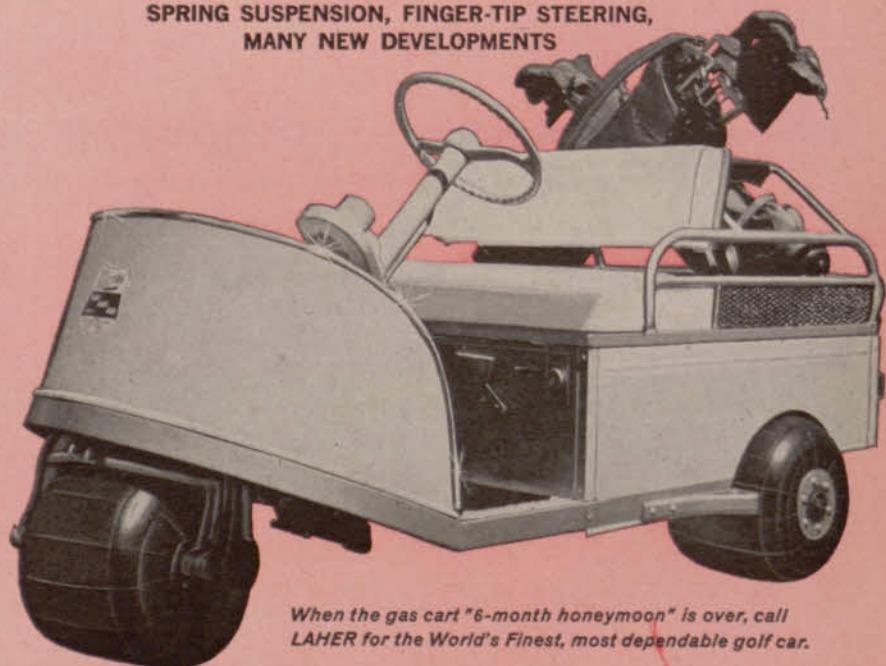
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the Money Maker

SUMMER OR WINTER • RAIN OR SHINE

- When the ground is too soft to walk on, ride the LAHER TURF-KARE KAR without damage to the turf.
- The LAHER TURF-KARE KAR is the only successful design in the field of 15"-tire cars in the golf car industry. That is why LAHER has manufactured more large 15"-tire cars than the combined golf car manufacturing industry.
- LAHER TURF-KARE KARS are a "must" on soft, wet, golf courses and a turf-saver on dry courses.
- NOTE: One famous country club cashed in \$100,000 in 12 months on 45 TURF-KARE KARS. The previous year, with other carts, a little over 1/2 that amount. Another club reports, "Our LAHER TURF-KARE KAR fleet has been operating 3 years on original batteries, and carts are as good as new." Another, in the Northwest, paid for entire fleet in one year on rental income.

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The EXCLUSIVE STRAIGHT LINE construction of the West Point Grasslan Aerifier® enables the cultivating Spoons to remove more soil from the high, hard spots because RIGID construction FORCES PENETRATION into the areas that specially need aerifying . . . while at the same time preventing over-penetration in adjacent soft spots. Soil is removed in a LEVELING ACTION that improves playability on the entire area.

In addition to STRAIGHT LINE construction, the Grasslan has these important features: DEPTH ADJUSTMENT . . . FLEXI-PRESS . . . WEIGHT RACK AS STANDARD EQUIPMENT . . . 25% MORE SPOONS . . . AND CULTIVATING ACTION.

No Wonder Grasslan Sales Are at a New High!

West Point Products Corporation, West Point, Pa.

abuilding east of Sacramento, to have a \$61,000 underground irrigation system that will be activated by 25 miles of wiring . . . A 4,200 yard course, El Dorado will be ready this fall with a full length 27 to come in the future.

Old Westbury (L.I.) CC, opened in June has its 27 greens planted to Penncross, according to Bill Sloan, supt. . . . Another newly completed L. I. course is Merrywood in Smithtown . . . Pete Mazur is the pro and Bill Dunn, the supt. . . . Even though he may now be worth more money than Frank Stranahan, Arnold Palmer maintains riches won't ever dull his competitive urge . . . This is as reported by Hy Goldberg of the N.Y. Daily News . . . As for charges that Palmer deliberately falls behind so that he can stage those dramatic finishes, Arnold says: "That's ridiculous. I'd like to win 'em all by a dozen strokes."

Fourth Fabe Didrikson Zaharias Memorial tournament for the American Cancer Society to be played Aug. 24-Sept. 2 at the Alameda (Calif.) GC and Stardust GC in San Diego . . . John Anderson, retired supt. of Essex County CC, West

Orange, N. J., died in Trenton in July at the age of 88 . . . A past pres. of the GCSA, he had been retired for about 10 years . . . He and his wife, Jeannie, had observed their 58th wedding anniversary about a week before he died . . . Mr. Anderson also is survived by three daughters.

The Pro-Am tournament for the benefit of the Chicago Children's Memorial Hospital, postponed because of rain in July, will be played at Onwentsia CC, Lake Forest, Ill., Aug. 13 . . . Amateurs pay \$500 to take part in it . . . First 9 of Royal Lahaina GC, Kaanapali, Maui, Hawaii, has been put in play and second 9 will be ready in December . . . Robert Trent Jones is the designer of the course that will stretch to 7,000 yards . . . Morgan Fottrell is the pro . . . County of Kauai has recently added 9 to its munny course, making it a full 18.

Ed Oliver Fund has reached \$11,000 and part of it is being used to send his daughter to school in Mass. . . . The fund is being administered through the Western Golf Assn., Golf, Ill. . . . U.S. Golf Writers Assn. team defeated the

British writers in Corcoran Cup matches at Turnberry, Scotland, in July by a 3 to 0 count . . . Women's Southern Golf Assn. has designated May 6-11, 1963, as dates of its 48th amateur . . . Tourney will be played at Riverdale CC in Little Rock, Ark. . . . Ken Hubble, formerly supt. at Quail Creek in Okla., is the new supt. of golf for the City of Phoenix, Ariz. . . . Lake Toxaway CC, under construction in N.C., has bought the Moltz mansion, a mountain showplace, and 34 acres of surrounding landscaped grounds.

Willowick in Santa Ana, Calif., which seems to be the home of the hole-in-one, reports five aces for the month of June, bringing the year's total to 14 . . . Last year, 22 single-strokers were scored there . . . Fifteen spots along the East coast, from N. H. to Fla., have been designated as "Distinguished Golfing Resorts" by the Robt. F. Warner Corp. of New York . . . Ridgewood CC in Waco, Tex., selects an "Employee of the Month" and gives him a \$25 bonus and an extra two-day vacation . . . Shareholders did much of the work in building the Meadowbrook GC, Hartley, Ia., which was put into play about a month ago . . . Everett Dunn of

Hartley designed the 9-hole layout and Bob Petrucka, pro at Falls City (Neb.) CC, supervised building of the greens.

Players are hoping the National Open will "modernize" in 1963 by going to four days instead of jamming in 36 holes on Saturday . . . Gary Player's two-foot putt that won the PGA was at the rate of more than \$700 an inch — \$13,000 from the PGA and a \$5,000 bonus from Jack Harkins of First Flight . . . That beats the price of real estate in the Kimberly diamond mines . . . The stands at Aronimink were packed with customers who got to see more golf from their bleacher seats around many greens than ever saw much of a major tournament in recent years.

Hospitable Aronimink did a nearly perfect job of putting on a PGA tournament . . . Mistakes were due to advice, not reluctance to go the full route in making the guests happy . . . The pairing sheets, sold daily for 25 cents, didn't carry a scorecard or a map of the course . . . After people pay to get into the PGA or the National Open they ought to get free pairing sheets so they can identify the players instead of being subjected to
(Continued on page 98)

THE BEST SELLING VERTICAL MOWER IS NOW BETTER THAN EVER

VC-3A



You select wisely when you place your order for a VC-3A—the *proven* vertical mower that is now more useful than ever because of (1) its better balance . . . (2) improved engine . . . (3) new clutch release spring . . . (4) new chain take up.

DESIGNED SPECIFICALLY to vertically mow grass and remove thatch, the VC-3A continues its leadership by ringing up *record breaking sales* in 1962.

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Fred Grau's Turf Questions & Answers



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Give you more fine turf per dollar . . . more nodes per bag . . . only a minimum of soil. You pay only for growth potential . . . save on freight . . . and get the very finest Bent Grass Stolons. Unconditionally guaranteed pure in strain for perfect texture and uniform color.

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Send us details on beautiful, hardy, vigorous greens, with

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 FREE FOLDER: "Construction and Planting of Putting Greens and Creeping Bent Sod or Stolons"

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STATE _____

SUPERINTENDENT _____

Soil Nutrients

Q: Our bluegrass fairways are badly infested with clover. We have never used any fertilizer, except some barnyard manure, due to limited operating funds. Next spring we hope to have enough money in our budget to provide commercial fertilizer. Would you recommend that we use activated sewage sludge, or something with a much higher nitrogen content, and at what rate should it be used?

All our fairways are watered. (Colorado)

A: Undoubtedly the barnyard manure which you used carried white clover seeds. The continuing clover indicates lack of nitrogen, which you have recognized. Before you decide on any commercial fertilizer you should have soil tests run for pH, Ca, P and K. Your agricultural experiment station at Fort Collins can give you advice on how to draw the soil sample and how to submit it.

A copy of the results will help us to advise your best procedure. Certainly there would be little sense in using a material that carries a significant content of a nutrient that already is in good supply in your soil. By the same token, the fertilizer which you select should provide those nutrients that are lacking in your soil.

Green Replacement

Q: We have a green that lies next to a good sized elm that hasn't yet been killed by Dutch elm disease. Roots have penetrated most of the green area of about 3,500 square feet. We have trenched several times and chopped off most of the roots but there are still some in the green which has not held up too well this summer.

I would like to re-seed the green just after Labor Day and either discard the old sod and re-work the seedbed, and plant stolons or seed with Penncross bent. To my knowledge, I have never seen any of it. I think the bent we have now is Colonial that was given to us in 1931. I have never liked it because it doesn't seem to stand up as well as some other bents.

I have a good spiker and an aerifier and am wondering whether you would suggest spiking several times and seeding with Penncross, or tearing up the old sod, re-working the seedbed and then seeding with Penncross. I use quite a lot of natural organic and boost with Ureaform for additional nitrogen.

Our play averages about 250 people per day, which doesn't help matters too much. The soil texture is a little on the heavy side, although I have aerified several times and filled in with a sandy compost. We did not have too much winterkill here last season. (Illinois)

**Upgrade Your
Turf with
AERO-THATCH**



Improve your turf . . . with the all new
Aero-Thatch

Newly designed!
*does **FIVE***
turf care jobs!

1. Relieves Thatch!
2. Aerates!
3. Cultivates!
4. Reduces Compaction!
5. Now it Spikes, too!

The new X-53 Aero-Thatch is an all new, redesigned machine! It combines the qualities that made the Aero-Thatch a must for fine turf grass care...with an extra plus: Power Spiking! Now you can use the Aero-Thatch for 5 turf care jobs!! At one time the Aero-Thatch cultivates, aerates, relieves thatch and reduces compaction...shift the clutch and your Aero-Thatch is turned into a spiker. Get all the facts today from your Turf Equipment dealer...or write to

AERO-THATCH RAHWAY, N. J.

A. With the kind of play you have, it seems that your green should be kept in play every day that it's possible to maintain it in playing condition. For this reason I would suggest this program: Grow a piece of nursery sod from Penn-cross seed. Then, when the sod is ready to move, strip the green, re-work the soil, add plenty of coarse sand and whatever else might be needed to put the soil in perfect condition

Turf Dates

Sept. 20-22—Equipment & Materials Educational Exposition, Brookside Park, Pasadena, Calif.

Nov. 16-18—Turfgrass Workshop, U. of California Conference Center, Lake Arrowhead.

for good drainage. Also remove whatever tree roots there are. Then prepare the surface and lay your new Penn-cross sod. In this way you will have the green out of play the minimum number of days.

If you have difficulty getting Penn-cross seed, you may wish to use a good stolon bent for developing your nursery sod for resodding the green. Washington bent is a good one. Another one, popular in your area, is Old Orchard.

Whichever one you choose I urge you to establish the nursery without delay so that you can do your sodding this fall when play slows down. Make sure that the texture of the soil under the nursery sod is exactly the same as the texture of the soil that you are preparing in the old green after you strip the sod.

CMAA Finances

According to the mid-year report of the CMAA, the association had income of slightly more than \$40,000 in the first six months of 1962. Member service and national office operation expenses amounted to nearly \$51,000. The net loss of \$10,739 is to be made up through national conference reimbursement. The CMAA's net worth as of June 30 was \$57,936.

RYANS O.K. No. 4 SEEDER & SPREADER 4 Cu. Ft.(300 lbs) Capacity-3 Ft. Spread



No Holes to Clog.
Quick Shut-off Lever & Adjustable Gauge.
Screw On Handle
Spreads Top Dressing, Nitro-Humus, Peat, Commercial Manure & Other Materials Successfully
Weights Only 69 Lbs.
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NEW
50 lb.
BAG
EASIER
TO
HANDLE

for
TOUGHER TURF
fertilize with
MILORGANITE

The NATURAL ORGANIC FERTILIZER

- LESS DISEASE
- FEWER NEMATODES
- REDUCES WILT

Long lasting Milorganite provides soil with everything necessary for strong, vigorous grass growth. It promotes a healthy root system that resists drought, insect pests and disease. Milorganite is easy to apply, too: It's dust free, free flowing, and does not cake or deteriorate in storage. Use Spring, Summer and Fall.

If you have a Turf Problem, consult
Turf Service Bureau

THE SEWERAGE COMMISSION
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MILORGANITE
The NATURAL ORGANIC FERTILIZER

Rainfall Pattern Unreliable

(Continued from page 34)

ture conditions throughout the growing season for top quality turfgrasses. Grass plants can use as much as 1000 lbs. of water to produce 1 lb. of dry matter. Proper irrigation — the right amount of water at the right time is one of the major keys to beautiful, healthy turf.

Have Worked Out Well

There are two basic types of sprinkler irrigation systems that have proved very satisfactory for courses:

1. Buried main lines with portable sprinkler laterals.
2. Buried main lines with buried sprinkler laterals.

As the name implies, the first type involves a buried main line running strategically through the course with special hydrant risers to which portable sprinkler lines can be attached. The sprinkler lines can have special couplings that make it possible to couple and uncouple the lines readily for moving to other locations as the watering cycle requires. This is the type of system used extensively in agriculture throughout the world.

It also is possible to use hoses with sprinklers attached. These can be moved from one location to another as required by the watering pattern. Both of these portable sprinkler line systems have the highest labor requirements of all the types.

Used Most Extensively

The other basic type of sprinkler system is used most extensively for all turf areas. This type embodies both buried main lines and lateral or branch lines to which the sprinklers are attached. This system, of course, is permanently buried. The sprinklers can be moved from one location to another around the course by means of quick-coupling shut-off valves. The valves are installed at each connection location for a sprinkler.

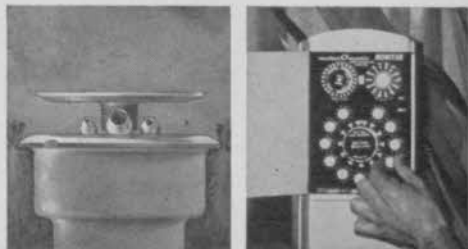
Perhaps the greatest breakthrough in turfgrass irrigation system design is the fully automatic system. This too is buried with large pop-up sprinklers attached to the various lateral or branch lines. The pop-up sprinklers are completely controlled either hydraulically or electrically from a control panel.

Locked Against Tampering

The control panels can be pre-set, so that sprinklers will operate on the proper timing sequence throughout the course



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PERFORMANCE LEADER
IN TURF IRRIGATION



Moist O' Matic's gear driven rotor pop-up turf sprinkler heads lead the field in durability, adaptability, performance and low costs. The entire gear Mechanism is isolated and sealed. Even water distribution is assured by three nozzles in the pop-up head. Up to 180' diameter water coverage means low cost for new installations or conversions. 1° part circle adjustments from 40° to 320° can be made while in operation without special tools. These exclusive advantages and the rugged, compact MONITOR controller have made Moist O' Matic the turf irrigating performance leader.

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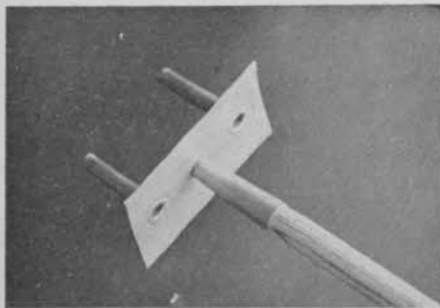
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● Rugged, reversible Pneu-Mat Runners, woven of rubber-impregnated fabric, outwear rubber, provide comfortable walking for spiked shoes with complete floor protection. Improve club house appearance. Competitive in first cost—lowest in long-life cost.

Standard Widths 20"—24"—30"
36"—42"—48"

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Here is the finest hand aerifier for spot treatment of golf greens, tees or other fine turfgrass areas that has ever been developed. Performs vital aerification that permits fertilizer, air and water to penetrate to grass root zone. Identical aerator tubes to those used on finest golf greens. Penetrates full 3" and removes plug of top soil. Polished hardwood 52" handle, lifetime stainless steel base plate, shank and self clearing aerator tubes. Weight 2 lbs. Every country club and golf course has the problem of spot treatment of small areas of fine turfgrass during the playing season — This is an absolute must for you — order several. Only \$6.95 each.

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on a pre-determined cycle to provide the correct timing and amount of water necessary for each condition of soil, topography, and grass plant requirement. Some areas might require water every day . . . others, only every other day. Thirty minutes here . . . two hours, ten minutes there. Whatever the requirements, the panel can be pre-set for a week at a time. They can be locked, too, to eliminate tampering. One landscape architect maintains that the panel should be welded shut after the controls have been set. Locking should be sufficient . . . that's just his way of emphasizing his point of no tampering.

It is obvious there are varying labor requirements, life expectancies, initial costs for the different types of systems. Consider all factors in your economic analysis . . . initial cost, installation, water, labor, upkeep, life-expectancy and replacement costs. The important thing to you, in your analysis, is the cost per hole per year for the life of the system.

The field of sprinkler irrigation system design is a highly technical one. Design factors of soil, plant-water requirements, labor, turf traffic, topography must be taken into account in designing the system. Make certain that you get a fully qualified designer who will provide a sprinkler system to meet conditions on your course.

Edison's Project Day

For the last 30 years, Edison CC in Rexford, N. Y., has had a "project day". Members form a group and pick a course project to be completed. It is chosen from a list prepared by the golf committee. The work is done in the morning and in the afternoon a tournament is held.