For the delicate precision job of mowing golf greens—the hand-operated PENNSYLVANIA greens mowers

Back of every machine in the complete line of PENNSYLVANIA Quality Mowers for Golf Courses is 53 years' experience in the building of the highest grade lawn mowers.

Write for further details and complete GOLF CATALOG showing PENNSYLVANIA fairway mowers, the PENNSYLVANIA Tractor, Tee Mowers and mowers for general trimming.

PENNSYLVANIA LAWN MOWER WORKS
NOW FOR 1931
BILLINGS INTRODUCES THE MICROMETER ACCURACY OF PRECISION TOOLS IN GOLF CLUBS

MATCHED AND REGISTERED SETS STEEL SHAFTED
COINED IRONS POWERPACT WOODS

DON'T BUY YOUR GOLF CLUBS FOR 1931 UNTIL YOU SEE BILLINGS COINED IRONS headed true to the pin and POWERPACT WOODS packed with power for distance ONLY MICROMETER ACCURACY COULD PRODUCE SUCH PERFECT CLUBS

Golfers of America will be asking about "COINED" IRONS and "POWERPACT" WOODS when the BILLINGS National Campaign starts early in 1931

FILL OUT AND MAIL THIS CARD AT ONCE

Billings & Spencer Co.,
53 Warren St., N.Y.
Gentlemen:
Please send me your 1931 Catalogue
Send a "Billings man" to see me

NAME
ADDRESS
CITY
STATE

The BILLINGS & SPENCER COMPANY . . HARTFORD CONN.
NEW YORK OFFICES and SALESROOM . . 53 WARREN ST. . . NEW YORK CITY
SHUFFLEBOARD
Roberts copyright.

—the sea game that's now
sensationally ashore!

A big-time money-maker at
miniature golf courses—
An added attraction of lively
popularity at private clubs—

Shuffleboard played on
the Roberts copyrighted
courts brings out the utmost interest, skill and
chance features of the famous shipboard game.

At commercial installations Roberts Shuffleboard
courts are averaging 16% profit on the investment
DAILY! At private clubs Roberts Shuffleboard
courts, indoors and outdoors, are always in heavy
demand.

Roberts patented unbreakable laminated
shuffleboard shovels and
discs reduce maintenance
expense to the minimum.

Installation costs of
Roberts copyright shuffleboard courts are moderate.

Write for complete de-
tails today.

Edward G. Roberts
816 Lyman Ave.,
OAK PARK, ILL.
Tel., Village 5878

Let GOLFDOM advertisers help you. They are golf field experts.
ONLY
TONCAN IRON
DRAIN PIPE has
the Corrosion Resistance—
Long Life—of Iron plus
Copper and Molybdenum

The outstanding ability of TONCAN IRON to withstand rusting and corrosion is due entirely to TONCAN'S patented process of manufacture.

The first step is the removal of practically all the corrosion-promoting impurities in the iron. Then, to this highly refined iron in molten state is added copper and molybdenum, in scientifically determined amounts.

These elements, combined with the refined iron, produce a true alloy possessing a degree of resistance to rust and corrosion unequalled by any other commercial iron from which drain pipe is made.

To insure freedom from drain pipe maintenance and annoying interruptions on your course, specify TONCAN perforated Drain Pipe.

TONCAN CULVERT
MANUFACTURERS' ASSOCIATION
MASSILLON, OHIO
Plants located in all parts of the United States and Canada

The advertisers pay for your GOLFDOM; deal with them.
Quantity (with) or (against) Quality?

The severe summer drought in many sections has placed a great strain on course budgets. Fall seeding will probably be heavy, calling for larger expenditures than usual. Under such conditions the price lure generally has a habit of beckoning more temptingly than usual and quantity is in danger of going to bat against quality—instead of teaming up.

Saving at the spigot to waste at the bunghole is a doubtful economic gesture. Good seed of known quality is always less expensive in any quantity—small or great.

Over 1100 clubs have found Scott's Seed so consistently high in quality and uniform in results that it takes more than a sharp pencil to obliterate its true economy or tempt to speculation with less than Scott's.

On that basis we would appreciate a request to quote you on your fall requirements.

O. M. SCOTT & SONS CO.
Marysville, Ohio
Golf Course and Lawn Seed

NACO "A GOLF COURSE FERTILIZER"

RESULTS PROVE ITS VALUE

GREENS that had regular feedings of NACO properly applied, remained in excellent playing condition throughout the summer months. The Potash in this complete, all organic golf course fertilizer produces a stand of grass that does not wilt under drought and the heat of the summer sun.

FAIRWAYS that were top-dressed with NACO in the early Spring showed remarkable improvement during the summer and proved for many greenskeepers the wisdom of "More Feed and Less Seed". The Fall application of NACO will last until next Spring for snow and winter rains cannot leach its organic Nitrogen from the soil.

NEW COURSES on which NACO was used in seeding and planting, developed in a few months a thick turf with a strong well developed root structure and a fine stand of wear-resisting grass.

NACO will make your fertilizer dollars pay dividends in improved turf. If unable to secure NACO from your Golf Supply House write direct to the manufacturers.

NITRATE AGENCIES COMPANY
104 PEARL STREET - - NEW YORK CITY

The advertisers pay for your GOLFDOM; deal with them.
What others say about
Armour's SPECIAL <<
Turf Fertilizer <<

1. "We have used Armour's Special Turf Fertilizer on our golf course for the past seven years with excellent results and expect to continue to use same."

2. "The grass is hardy and firmer, will stand more use and abuse . . . also, noticed a very great lack of brown patch this year."

3. "Our fairways came through the extremely hot weather and drought in much better shape than neighboring courses which did not use your Special Turf Fertilizer."

4. "By developing the grasses that we have, we find that we have practically eliminated the necessity of re-seeding each year."

5. "My record of results shows your Special Turf Fertilizer a good margin of advantage over anything else we have used."

6. "We find we can depend on this mixture as the source of our entire plant food requirements for turf."

7. "We strongly advocate a complete mixture and find your Special Turf Fertilizer more satisfactory than anything we have yet tried."

8. "This has been a hard season on grass, and for this reason I will say Armour's Special Turf Fertilizer is a fertilizer of great merit, quick and lasting in action, and thoroughly satisfactory in every way."

9. "There is only one answer to this increase in the thrift of the grass and that is the liberal application in the spring and lighter applications during the summer and fall of your Special Turf Fertilizer."

10. "For the past six years we have used Armour's Special Turf Fertilizer on our fairways and greens and have developed what we believe the finest type of weed-free turf in the Chicago area."

Names given on request

Armour Fertilizer Works
General Offices
111 West Jackson Blvd.
CHICAGO, ILL.

When you mention GOLFDOM the advertiser knows you mean business.
Hundreds of Greenskeepers Have Discovered a Secret

When you hear golfers discussing with enthusiasm the condition of a certain course, the chances are that the greenskeeper and greens committee have discovered the secret of Premier Poultry Manure.

The remarkable results of this time-tested grass food are due not to chance or circumstance but to the properties with which NATURE has endowed PREMIER POULTRY MANURE

-A natural grass food and stimulant.
-A balanced manure containing 6% Ammonia, 2.50% Phosphoric Acid and 1 to 2% Potash.
It contains no live weed seeds. Being organic, it aids humus and aids bacterial action. It can be applied with a minimum of labor and expense. Being more soluble than other manures, it is more available. Being finely pulverized, it is quickly absorbed into the soil.

PREMIER POULTRY MANURE CO.
327 S. La Salle Street Chicago, Ill.

DEALERS
Joseph Breck & Sons Corp'n, Boston, Mass.
George A. Davis, Inc., Chicago, Ill.
Grenshaw-McMichael Seed Co., Tampa, Florida.
E. L. Winn, Inc., Elizabeth, New Jersey.

True Organic Fertilizer

Best for Fall Use

For many years manure has been the standard fairway fertilizer—because it supplies the right kind of plant food for turf in the right proportions.

And, it has many advantages for Fall use. Being truly organic, it undergoes transformation in the soil—the nitrogen being converted into nitrates through bacterial action. However, the low temperatures of winter inhibit bacterial activity and thus avoid leaching loss of nitrates by preventing their formation.

A NEW COW MANURE

Free of weed seeds and debris

So much for the value of manure. It seems to be quite generally preferred—when available. Now we remove all the objections. Cow manure, the richest, most complete, Natural fertilizer is available in fine granulated form...mixed with peat moss, the best humus forming, soil improver known.

DRICONURE—this new product—is not just peat moss and manure trash mixed. It is a specially processed kind of manure-peat moss bedding, consistently uniform in quality and contents...maintaining an even 2-1-2 count, and dehydrated to strengthen five times.

Gets Down to the Roots and Stays There

DRICONURE, unlike fresh manure, gets right down to the grass roots and builds up your soil. Fall and Spring rains will pound it down and mix it into the soil. It is prepared for this purpose. May we suggest that you try it and compare results with any other fertilizer on the market. It may not produce the rank, quick growth some of the more highly concentrated chemical fertilizers produce, but it will continue to nourish long after they would have been used up or leached away. Try it on a section and judge for yourself.

Complete information and prices on request.

ATKINS & DURBROW, INC.
Burling Slip, nr. Front St., New York, N. Y.
Long life in looks as well as service . . .

Page-Alcoa ALUMINUM Fence—the latest triumph of the Page laboratories—brings to fencing the endurance and corrosion-resisting properties that have made Alcoa ALUMINUM ideal for exterior building decorations, spandrels, shingles, cable airplanes and other outdoor uses and indispensable in the industries.

Experts at 64 Page Service Plants—one near you—will explain the advantages of Page-Alcoa ALUMINUM Fence. Without obligation they will estimate costs, make layouts, advise the type of fence most suitable. Write us for full information. Page Fence Association, 520 North Michigan Avenue, Dept. A65, Chicago, Illinois.
A Marble Granite Surface for Miniature Golf

A FAIRWAY surface of a material that drains instantly, is smooth, solid and a natural green color is ideal for the miniature golf course. This is found in Cardiff Green Special Size 00 Granite. Cardiff Green 00 Granite is a natural green marble specially sized for Miniature Golf Course Service. Its color is permanent.

Spraying with water quickly washes off any mud or dirt tracked on it. It is ready for play immediately after a rain because it drains instantly. It packs well and does not easily roughen up.

For beauty, permanence, greater utility of the course and low maintenance, use Cardiff Green Granite Size 00 for your fairway work.

The Cardiff Green Marble Company

Quarry Office
Cardiff
Maryland

Sales Office
350 Madison Ave.
New York

Sportier Greens --- Smooth-turfed Fairways on your course with the aid of TURF FOR GOLF COURSES

By C. V. PIPER and R. A. OAKLEY

“The standby for golf course maintenance”

It tells—

What soil mixtures to use
What grasses to select
How to apply fertilizers
How to seed, sod, and turf
How to identify kinds of turf
How to plant and maintain
How to control weeds and pests

76 illus.; 279 pages; 6x9 inches; cloth; $2.50 postpaid

You may need its information tomorrow. Mail this coupon now.

GOLFDOM, CHICAGO, ILL.

Gentlemen: Please send me, prepaid postage, one copy of TURF FOR GOLF COURSES. Check for $2.50 is attached.

Name ..................................................
Address ..............................................
Town .............................................. State ....................

Let GOLFDOM advertisers help you. They are golf field experts.
This McCormick-Deering Outfit
Saves Money Spreading Fertilizer

McCormick-Deering Fairway Tractor and Manure Spreader in Action

The maintenance of good turf requires thorough fertilization of the fairways. Especially is this true after a dry summer when the grass burns up. Equipment that will spread fertilizer in the most economical and efficient way, with the least labor, is needed for the job.

The McCormick-Deering Fairway Tractor and Manure Spreader make an ideal combination. The Fairway Tractor provides tireless power to pull the spreader over the course at an even, constant pace. And this is only one of the many jobs this golf-course tractor will do throughout the year.

The McCormick-Deering Manure Spreader handles manure or other fertilizers so much more efficiently than hand methods that there is no comparison. It shreds manure and spreads it over the ground evenly, at a fast rate of speed. An attachment is available for spreading commercial fertilizers and top dressing without waste.

It will pay you to investigate the McCormick-Deering Fairway Tractor and the Spreader before your course is fertilized. Ask the nearest of 115 Company-owned branches in the United States and Canada, or one of the 50 distributors. There are also thousands of McCormick-Deering dealers. Write us for information.

International Harvester Company
Have You a Drainage Worry?

Scene of the 1929 National Amateur Championship matches . . . Pebble Beach course, Monterey County, Calif., is protected by Armco drainage, including this 36-inch stream enclosure of Armco Corrugated Iron Pipe under the 18th green.

Perhaps

DRAINAGE HEADQUARTERS

Knows the Solution

Do you put up with standing water, soggy areas, washouts after rains? Drainage Headquarters at Middle-town, with 24 years experience in correcting drainage troubles, undoubtedly has encountered your identical problem.

Results of the studies and investigations of the nation-wide organization of Armco engineers, involving the application of corrugated iron pipe to drainage problems of all kinds, large and small stream enclosures and large diameter pipe for bridges, are contained in many volumes of "Headquarters" facts. For subdrainage, Armco Perforated Iron Pipe is the logical product. Armco Corrugated Iron Pipe has an unequalled record of 24 years service in the ground to date. It is more economical.

Submit your drainage "worry" to nearby Armco engineers. No obligation. Write for their address. Also, ask for valuable data on golf course drainage—free.

ARMCO CULVERT MFG. ASSOCIATION

Middle-town, Ohio

OUTSTANDING ACHIEVEMENTS IN THE PRODUCTION OF FINE TURF

BUCKEYE BRAND SEASIDE BENT SEED

(Genuine Coos County Strain.

NEW BRUNSWICK CREEPING BENT SEED

VELVET BENT SEED

PRINCE EDWARD ISLAND BENT SEED

All Government Inspected, Sealed and Certified

Our booklet, "The Fine Bent Grasses," free on request

THE J. M. McCULLOUGH'S SONS CO.

316 Walnut Street Cincinnati, O.

B. R. LEACH

RIVERTON, N. J.

Consulting Turf Specialist

(Originator of the lead arsenate treatment of turf)

for GOLF COURSES and PRIVATE ESTATES

Study, diagnosis and conditioning recommendations. Special attention given to grub, earthworm and weed control.

Write for details of time available and terms.

You save time and money by answering GOLFDOM ads.