The Kind of Performance That Puts a Smile on the Face of the Caretaker

The caretaker smiles with satisfaction as he realizes how easy it is to do fast, clean work with the John Deere Model "LI" Tractor.

And you can bet the greens committee and the club treasurer are smiling too, knowing what a big slice the new John Deere is taking out of the course maintenance costs.

Just listen to what various clubs are saying about this simple, sturdy, lightweight, and economical tractor that's built for all-around golf course service:

Wildwood Golf Club, Natick, Mass.: "We believe the John Deere is better adapted to golf course work than any tractor built. It cuts our fairways at 6 miles per hour, drawing a triplex mower up our 30 per cent grades with no effort. The 2-cylinder engine uses exactly half the gasoline we used last season for the same work. In 8 hours' clipping, it consumes about 3 gallons of gas. In nearly a year's work, we have not spent one cent for repairs. It's one of the best investments our club ever made."

Madison Country Club, Madison, Ind.: "This tractor does all of our work without any trouble and if our fairways need cutting twice each week it saves us a day's time."

La Mesa Country Club, La Mesa, Calif.: "The John Deere has saved us a lot of money. Never burns over \( \frac{1}{2} \) gallon of fuel per hour. Going on third year and no upkeep expense whatever.

The low price of this modern, quality-built tractor will surprise you. It is simple—easy to understand—drives like an automobile, with foot clutch and standard gear shift. Adjustable rear wheel spacing, narrow, compact design, short turning, light weight, belt pulley, and rubber tires. Write to John Deere, Moline, Ill., for Literature, and name of nearest dealer. Ask about the John Deere Grass Seed Drill—a sturdy, low-cost unit for seeding fairways.

JOHN DEERE Model "LI" TRACTOR
The sure way to keep your mowing costs at a minimum in 1940 and at the same time maintain the finest possible fairways and greens, is to start the season with the right equipment. Look over your mowers carefully. If they are old and worn, frequent repairs will waste time and money during the year, and they cannot be expected to do satisfactory work. If you decide to invest in new mowers, choose them with great care, not alone for their ability to do a good job this year but with an eye on their proved record of dependable performance for many years. We believe that the two famous Pennsylvanias described below will stand out in any careful comparison as the most efficient and economical mowers you can buy.

Pennsylvania Super-Roller Greensmower
Ball bearing, high speed 8-blade cylinder provides a smooth, ribless cut that insures a perfect putting surface. Blades are of the finest crucible analysis steel—oil hardened and tempered. Train of 3 cut gears, running in grease in dust-tight case, assures an easy-pushing, fast-cutting mower. Castor wheels are mounted in hardened steel bushing with alemite lubrication. Extra castor wheel for cutting sharply undulating greens. The light weight aluminum rollers, 7 inches in diameter, are interchangeable right or left.

Pennsylvania DeLuxe Fairway
Available in both 30 inch and 36 inch sizes. Unbreakable malleable iron construction. 6 heavy crucible analysis steel blades provide a smooth cut. Timken roller bearings on cylinder are adjustable, to take up wear. The raised edge lower blade is reversible. Train of machine-cut hardened gears on both sides, protected by dust-proof, grease-retaining cases. Steel roller with hardened steel bearings. Pneumatic tires optional. 30-Inch Model K Fairway is made of cast iron and offered at a lower price.

PENNSYLVANIA LAWN MOWER WORKS
PRIMOS, DELAWARE COUNTY, PENNSYLVANIA

Send for Our Latest Catalog!
THATCHING OF CREEPING BENT

Densely turfed greens are advantageous for play and maintenance. But heavily matted grass is bad from both angles. When properly cut, thick grass provides a true putting surface. It enables players to hold a pitched ball without the necessity for overwatering—a vicious practice responsible for much turf damage. By minimizing surface evaporation in hot weather, dense turf prevents formation of hard surfaces.

On hot days, this skin-like crust forms on thinly turfed greens before midday, even though watered the night before. Instead of more water as demanded by players, denser turf is the answer. That thick grass simplifies clover and weed control is an accepted fact.

Thickly matted greens foot-mark badly and are prone to scuff around the cup. Accurate putting becomes impossible, especially towards the close of a heavy day's play. The long stringy stems present in matted greens cause the ball to hop and deflect it from the cup.

Matted grass is a distinct maintenance menace. Top-dressing fails to make contact with soil below. The surface to a variable depth consists of alternate layers of soil and buried stems and leaves. Such greens become "hide-bound", because the surface is impervious to water. In dry years soil becomes bone dry and in wet seasons the matted surface water-logs quickly. Fermentation of buried stems and leaves generates heat and loss of grass ensues.

Surplus grass is best removed in early spring before growth starts and prior to the first top-dressing. Alternate cross-raking with a thin-bladed sharp rake (or De Monte rake) followed by close cutting is the proper procedure. Later on in hot weather severe raking is too drastic and dangerous.

Tell us about your Turf Problems. Write to:
Turf Service Bureau
THE SEWERAGE COMMISSION
Milwaukee Wisconsin

MILORGANITE for BETTER TURF

Samuel Pepys Goes to the Show
By William D. Richardson

Bill Richardson, veteran golf writer and Associate Editor of Golfdom, presents plaque to Col. John Morley, 73-year-old president emeritus of the GSA, at the greenkeepers annual banquet. Col. Morley, greenkeeper at the Youngstown (Ohio) CC, was founder of the association and was its first president.

Tuesday, Feb. 6.—Off to the New Yorker where I met Charley (Good Time) Burns of the Good Park GCae in Akron, Ohio, best public relations counsel we ever met anywhere. With him to view the exhibits, more than thirty of them, all interesting—a fine tribute to the work done by that young Adonis, Don Boyd of the Portage CC, Akron. What is this? Akron week in New York?... Talked with Ed Cale of Canoe Brook, in Summit, N. J., who has arranged for the speaking talent which reads like who's who in turf wisdom. Read two interesting posters, the work of Battling Burns. One showed that all the golf holes on America's courses were placed in a line they would provide an 8,000 mile highway capable of accommodating sixteen cars abreast—a highway stretching from New York to Boston, thence westward to Seattle, then down to Los Angeles and finally back to Philadelphia and New York. Gives you some idea of the magnitude of golf...

Here's some more of Charley's handiwork: American golf course superintendents maintain a turf area of 510,740 acres—800 square miles—while on the 5,300 courses 800,000 caddies are em-
TO KEEP YOUR GREENS IN TOP-NOTCH CONDITION

Use the Improved IDEAL GREENS-MOWER with Steel Brush Attachment

The Ideal Steel Brush attachment is the efficient and economical solution to matted grass and uneven putting surfaces, particularly with creeping bent or Bermuda greens. A special brush, with steel bristles, that attaches to the mower just in front of the front roller, fits snugly underneath the grass catcher. It can be set for light or heavy brushing.

The Ideal Power Greensmower has been selected by many of America's finest clubs. This year's improved mower is lighter in weight, with a new, higher speed engine, developing full 1 h.p. New improvements assure cleaner and better cutting, too. The malleable side frames provide greater strength.

Reel blades and bottom knives are more durable, retain cutting edges longer and require less adjustment by the operator. The steel is harder and tougher, assuring better service, because of a new treating formula, developed after years of engineering and experimental work.

Write for a complete catalog. And get the facts about the fairway mower economies made possible by the 3, 5, 7 or 9 gang Ideal "Bulldog" gang mower. There is no obligation.

IDEAL POWER LAWN MOWER CO.
446 Kalamazoo Street, Lansing, Michigan

New York Branch:
12 HARRISON STREET
New Rochelle, N. Y.

Canadian Distributors:
AIKENHEAD HARDWARE, Ltd.
11 Temperance St., Toronto, Ont.
Worthington 1940 Improved Cutting Units
give you smoother operation, longer life and greater economy

"The Spring's the Thing" that saves you wear and tear and fuel costs

For 26 years, as mowing conditions and the requirements of our customers have changed, Worthington has incorporated advances in design and improvements in materials as they have been developed. Today, the 1940 Worthington Cutting Unit is the most advanced machine in its field.

There is one important feature of Worthington Gang Mower frames we have retained through the years — a feature exclusive with Worthington — and so we say, "The Spring's the Thing." It holds the roller down to the ground with sufficient pressure to eliminate all uneven or scalloped cutting, particularly when mowing at the high speeds of present practice. Ordinarily, without the spring, other gang units are found to bob or jump along the ground, leaving ridges or "scallops" in the grass. While adding nothing to the draft, the spring exerts a downward pressure at all times sufficient to
insure a smooth and even cut. Other mowers depend on the dead-weight of the frame to hold the cutting unit firmly against the ground. This extra weight increases the draft, which consumes more fuel, adding to the operating cost. The extra weight usually produces a greater shock — thus the spring cuts down on wear and tear.

Investigate the new and improved Worthington Cutting Units for 1940 before you place your Spring order.

The New Worthington 1940 Sickle Bar mows economically any degree of bunker or trap angle, eliminating hours of hand scythe work.

Bunker mowing with the new 1940 Worthington Sickle Bar is no longer a problem. Perfected to meet the severer demands of highway maintenance engineers for continuous roadside work with steep up- and down-grade borders, it offers the golf course superintendent the finest, toughest and most adaptable cutting bar ever made.

Here are some of the highlights:

1. Worthington 1940 sickle bar has a range of cut 90° above —50° below horizontal. Bar can be altered at factory to cut 90° below horizontal for unusual service.

2. Automatic safety slip clutch prevents breakage of knives or guards or the driving mechanism, should the knife become clogged as shown.

3. The safety swing-back feature is entirely automatic when an immovable obstruction is encountered. Tractor is backed away from obstruction and cutter bar automatically returns to normal position.

Get the full details and complete specifications of this new and advanced sickle bar before you buy this Spring. As every golf course superintendent knows, good "scythe men" are hard to find nowadays. With this new tractor and sickle bar you can mow inside and outside faces of sand traps and bunkers, as the Worthington will cut at any angle and has every automatic feature for this kind of work in addition to the long rough mowing.

WORTHINGTON MOWER COMPANY

Main Office: Stroudsburg, Pa. • Sales Agencies: All Principal Cities
BUDGET and SAVE with

PERFECTION SPRINKLERS

AND

ONE • MAN PROPORTIONERS

For 1940 Perfections will be still better (much better in several ways) than ever before—so good, in fact, that you can just about write your own guarantee.

With further increased simplicity of adjustment and improved design of working parts, coupled with several other important changes in construction, these new Perfections will be found outstanding in performance and long, continuous service.

Perfections are noted for the utmost in large, even coverage and simplicity and there will be no increase in prices.

Ask your dealer or write direct.

And! Don't Forget the Popular,

FULLY GUARANTEED,
ONE • MAN PROPORTIONER.

The Latest Contribution to Labor Saving Devices for treating Greens and Fine Lawns for Brown Patch, Worms, Grubs, etc. Also for Distributing Soluble Fertilizers, Weed Killers, etc.

Greenkeepers and Dealers everywhere are unanimous in their praise for this new device.

With the exception of the brass nozzle, it is made entirely of Chemical Resisting Rubber and, with reasonable care, it will last several seasons.

It will actually save, in time alone, several times its cost in one single season.

It will pay you to Budget for Perfection Products in 1940.

Manufactured and fully guaranteed by

PERFECTION SPRINKLER CO.
PLYMOUTH, MICH., U. S. A.

Pepys Goes to the Show

(Continued from Page 2)

ployed as well as 75,000 individuals engaged in the operation and maintenance of courses that represent an investment of $724,000,000 in land, buildings, equipment and furnishings. . . . BIG BUSINESS! . . . Yet they call it the Scottish game! . . . 2,162,000 golfers now (figures by courtesy of Golfing and Gofldom which calls 'em golfers only if they play ten rounds a year) . . . They figure 10,000,000 by 1960! Estimated that 69,000,000 rounds were played in 1939, representing a walking distance of 238,000,000 miles. . . . Whew! . . .

Joe Burbeck, superintendent of the famous Bethpage Park on Long Island, that sumptuous layout that Bob Moses has built for the public linkers, opens the show by tracing the game's development. . . . Wander back to the exhibition area thronged with people, most of them prospective buyers. . . . U. S. Department of Agriculture has a most entertaining exhibit showing the little man who WAS there treating turf with arsenate of lead to control the Japanese beetle. . . . Also quarantine stations. . . . All in miniature. . . . Those things always fascinate me, just as they must have fascinated O. J. Noer, of Milwaukee, Wis., (our birthplace) and Harold McManus, supervisor of New York's city courses. . . .

Turf G-men on Job

They tell me the old beetle (Japanese) which came to America as a stowaway in a consignment of iris a decade and a half ago does $7,000,000 to $8,000,000 damage in the course of a year. . . . But crime doesn't pay, for the turf G-men have got 'em on the run, what with mickey-fins in the way of lead arsenate and the newly-discovered micro-organism, a species of nematodes, small round worms that attack the beetle grubs and adults with the same effect as when the Finns attack the Russians. . . .

Met W. J. Tanner, manager of the Westfield GC in Lorain. His course has watered fairways, as is to be expected since he is also fire chief and head of the constabulary force. . . . Responding to an alarm once, he discovered it was in a clothes pressing establishment wherein reposed one of his suits. . . . "No hoses, men, until I rush in and save my suit!" he ordered. . . . His suit saved, on went the water. . . . Fireman, save my (che-e-ild) suit!

Wednesday, Feb. 7. . . . Up at an unearthly hour and back to the New Yorker for the first educational conference at which such "big shots" as Dr. E. E. Evaul of Penn State, Dr. John Monteith, Jr., of the USGA Green Sec.
SERVICE...

- Take advantage now of the Skinner System Planning and Engineering Service... it's available to any Club considering Golf Course Watering. Skinner System equipment, coupled with over 25 years of irrigation engineering, is the right combination to assure economy in first cost, efficiency in performance and permanent satisfaction. Write for free Golf Manual and tell us your irrigation problem.

The Skinner Irrigation Co.
415 Canal St. Troy, Ohio

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**Buy Fungol**

**TO KEEP BROWN PATCH EXPENSE DOWN**

THE SUPER FUNGICIDE AND VERNICIDE FOR HEALTHIER TURF THIS YEAR

Fungol is an improved combination of chemicals for prevention and control of Large and Small Brown Patch.

Our Research Department has again added more chemical value to this already popular product... and at the same time reduced the application cost.

You can now have Fungol at a big saving over the cost of other fungicides. Don't grope in the dark about this price business. Send today for a free testing sample of Fungol and our low cost application schedule.

Learn also about the extra chemicals in Fungol for controlling Earthworms, Sod Webworms, Cutworms and Grubs at no added cost. Get the lowdown on all these savings by writing today.

McCLAIN BROTHERS COMPANY, CANTON, OHIO
FOR SMOOTH FAST GREENS...THE PONY

FOR SMOOTH, ACCURATE CUTTING—THE PONY IS GETTING A BIG PLAY!

For fifteen years we built thousands of Toro Hand Greensmowers and never woke up to the fact that you wanted us to put a motor on it until a few months ago.

So finally when we got wise to what was wanted and man-oh-man we've gone to town.

For 1940 we're equipping it with a stronger and better motor and you can have it with a complete traction drive if you want it—or just to drive the reel—it does a swell job either way and the price is right.

TORO MANUFACTURING CORPORATION
MINNEAPOLIS, MINNESOTA
Established 1914

...DOES A BEAUTIFUL JOB ON BENT OR BERMUDA...
FOR HIGH SPEED MOWING—THE DUPLEX

THE DUPLEX WILL SOLVE THE LABOR PROBLEM FOR YOU—

When able men like Carl Tregillus, Harold Clemens, Peter Stewart, Clarence Strouse, Frank Dinelli, Fred Ingwerson, and others tell you they want a certain type of a machine, you’ve got to pay attention to what they say.

So we’ve put the Duplex back in the line and fitted it out with a new quick starting engine. It works like a top.

If the labor problem is bothering you the Duplex is the answer. It cuts eighteen greens in six hours and no fooling about it.

And there are no streaks—no ridges and no damage to the finest greens. We’re ready for business—Let’s go!

TORO MANUFACTURING CORPORATION
MINNEAPOLIS, MINNESOTA
Established 1914

CUTS EIGHTEEN GREENS IN SIX HOURS—SAVES LABOR
Golfers everywhere are itching to get out and play a round or two as soon as possible.

Help to keep up this early season enthusiasm by installing Lewis Washers at every tee. A clean ball means fewer lost balls — faster play — longer drives — and all around enjoyment of the game.

LEWIS WASHERS

MULTI-BALL ROTO
Wash golf balls as fast as you can feed them into this new washer! No ears — simplified splash-proof construction. Just turn the crank and out they pop — sparkling white.

Multi-Ball Roto
each $15.00

PADDLE-TYPE
The well-known inexpensive single ball washer that is seen throughout the world. The patented slot does the trick, insuring a clean ball.

Paddle-Type
1 to 10, each $6.00
11 to 20, each $5.50

Check your Lewis Equipment — recondition it if necessary with Lewis repair parts. Then add to it so that your course, too, will be up to the "Lewis Equipped" standard.

G. B. LEWIS COMPANY
Dept. 63 - Watertown, Wis.

Pepys Goes to the Show

(Continued from Page 6)

tion, and Mark L. Putnam of the Western Electric Co., were the principal speakers. Other participants: T. T. Taylor, Westchester CC, Leo J. Feser, Woodhill, CC, Robert Pollack, Llanerch CC, Eberhard Steiniger, Pine Valley (America's No. 1 course), Kingdon Troensegaard, Old Oaks Club, and Gerald Dearie, Edgewater GC, etc.

"Angels" Have Flown

"Doc" Monteith, who is perhaps the world's greatest authority on turf, pleads for golfers to pay more attention to their nine and eighteen holes than they now do to the "nineteenth" and calls attention to the change the new economic order has brought on. The "angels" —those men of means who used to come to the rescue at the faintest call for help — have practically vanished from the earth, he pointed out, and the exigencies of the times demand a more thorough knowledge of greenkeeping and finance.

Most impressed by the unusual keenness of the greenkeepers, many of them young, all of them alert, indicating a new order of things. Saw many pros in attendance — "Stew" Boyle of Oakland, Jack Mackie of Inwood, Frank Turnesa of Briarcliff, George Heron of Meadow Brook, Jack Patroen of Ekwanok, Bob Thomson of Greenwich, and many others. Met some interesting characters in the greenkeeping field, one being W. F. (Bill) Riley of Crestmont who, at the age of 65, still cuts fancy capers on the ice a la Sonja Henic.

U.S.G.A. Gives $313,312

Joe Dey, executive secretary of the USGA, has sent over a fine exhibit from the Golf Museum and calls attention to the fact that the national body has contributed $313,312.21 of its income over the past thirteen years to the Green Section. Top year was 1931 when the sum of $45,230.14 was spent on the section. Last year 97.6% of receipt from dues, or $23,452.85, was utilized for the purpose.

Met one of the oldest greenkeepers at the meeting — John Pressley of Allegheny in swanky Sewickley Heights, near Pittsburgh, home club of such high income bracket families as the Mellons, Fricks, Joneses, Laughlins and the Byerse. Born in 1868, John has served the club continuously since 1897. He's also the ranking law enforcement officer in the township and woe be unto those who break the laws out there, not even excluding the above mentioned barons of finance. Robert Trent Jones, one of the country's outstanding golf course