

## Market Place and Buyers' Guide---

### Nitrophoska

Synthetic Nitrogen Products Corp.

### Peat Moss

Atkins & Durbrow, Inc.  
Richard Gertstell

### Perforator

Philadelphia Toro Company

### Poa Annua

J. M. McCullough's Sons Co.

### Power Mowers

Cooper Mfg. Company  
Toro Manufacturing Company  
Worthington Mower Company  
International Harvester Co. of America.  
Jacobsen Mfg. Company  
Ideal Power Lawn Mower Company

### Putting Cup Illuminators

Chilton Crocker Company

### Putting Green Mowers

Toro Mfg. Company  
Pennsylvania Lawn Mower Works  
Worthington Mower Company  
Cooper Mfg. Company  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.  
The F. & N. Lawn Mower Co.  
Jacobsen Mfg. Company

### Power Mower Blades

The Budd Mfg. Company

### Power Putting Green Mowers

Jacobsen Mfg. Company  
Worthington Mower Company  
Ideal Power Lawn Mower Company

### Rakes

Pennsylvania Lawn Mower Works

### Rhode Island Bent Seed

A. N. Peckham

### Rollers

Stumpp & Walter Company  
Toro Mfg. Company  
Worthington Mower Company  
Philadelphia Toro Company

### Rough Mowers

Toro Manufacturing Company  
Pennsylvania Lawn Mower Works  
Worthington Mower Company  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.  
Jacobsen Mfg. Company  
Philadelphia Toro Company  
International Harvester Company

### Seed

Henry A. Dreer  
O. M. Scott & Sons Co.  
J. Oliver Johnson, Inc.  
Stumpp & Walter Co.  
A. N. Peckham  
Peter Henderson & Co.  
J. M. McCullough's Sons Co.  
Illinois Grass Co.  
Arthur D. Peterson  
J. G. Peppard Seed Company  
Lawn Equipment Corp.  
Philadelphia Seed Co.  
Henry A. Dreer  
T. W. Wood & Sons  
Seaside Bent Company  
Lyman Carrier

### Seaside Bent

Seaside Bent Company

### Signs

Standard Mfg. Company

### Sod Cutters

J. Oliver Johnson, Inc.  
Pacific Greenkeepers' Appliance Co.

### Sprayers

Hardie Mfg. Company  
Friend Mfg. Company

### Sprinklers

L. R. Nelson Mfg. Company  
Buckner Mfg. Company  
Thompson Mfg. Co.  
Economy Irrigation Company  
Pelican Works  
Campbell Irrigation Company

### Spuds

Diamond-Calk Horseshoe Company

### Stolons

O. M. Scott & Sons Co.  
Hubbard Nurseries  
Hiram F. Godwin  
Lyman Carrier

### Sulphate of Ammonia

Synthetic Nitrogen Products Corp.  
Koppers Products Company

### Tee Markers

Standard Mfg. Company

### Tee Mowers

Toro Manufacturing Company  
Pennsylvania Lawn Mower Works  
Worthington Mower Co.  
Ideal Power Lawn Mower Co.  
Jacobsen Mfg. Company

### Tee Stands

Worthington Mower Co.

### Tillage Implements

International Harvester Co. of America

### Top Dressing

Hyper-Humus Company  
The Ohio Humus Company  
Atkins and Durbrow, Inc.  
Richard Gertstell

### Top Soil Dresser

Beardsley & Piper Company

### Tractors

E. G. Staude Mak-A-Tractor Co.  
Toro Manufacturing Company

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Write for Catalog

**ARTHUR D. PETERSON**

420 Lexington Avenue

NEW YORK CITY, N. Y.

Worthington Mower Co.  
International Harvester Co. of America  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.  
R. S. Horner  
National Mower Company

### Tractor Wheels and Spuds

R. S. Horner

### Turf Fertilizers

Armour Fertilizer Works

### Urea

Synthetic Nitrogen Products Corp.

### Water Pipe

McWane Cast Iron Pipe Co.

### Worm Eradicators

Peter Henderson & Co.  
C. B. Dolge Company

## Toro's New Seven-Unit Mowing Outfit

By M. C. JOHNSON, Manager

Cleveland Toro Company

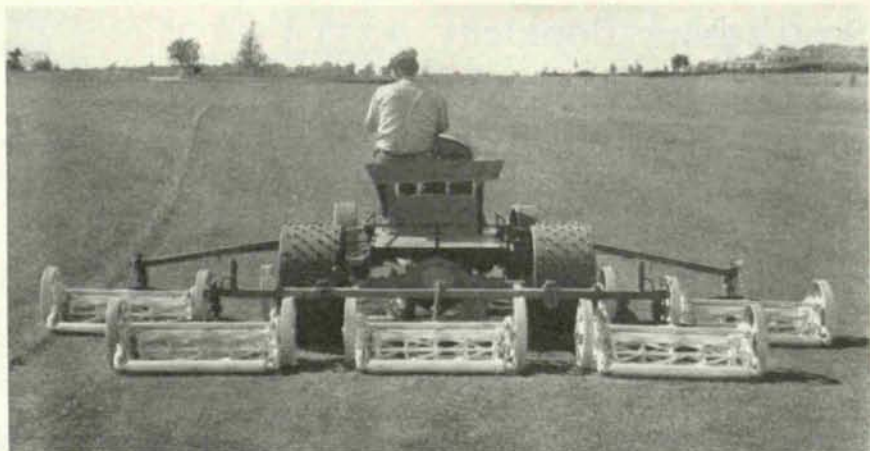
In regard to the new Toro Seven-Unit pull type mowing outfit. I am glad to give the readers of the NATIONAL GREENKEEPER some particular information about it.

What we have accomplished here is in reality a light weight, yet highly powerful mowing outfit that will handle fairway mowing in approximately half the time required by the old types. The tractor is our regular Toro Master Seven, weighing but 1650 pounds, yet with a heavy bevel gear enclosed rear axle with a sufficient power to handle seven mowers in high gear over 20% grades. In second it will handle grades from 25 to 30%,

and in low it will go just about over anything.

The main advantage of this new arrangement is that the mowers can be disconnected from the tractor in ten minutes' time, and the tractor can be used for general utility purposes. This is important because with this new outfit it is only necessary to use it every other day for mowing purposes. In other words, it is not necessary to tie up one tractor to handle the mowing job.

Being of short wheel base (only 103 inches maximum from the front wheels of the tractor to the rear mower), a high degree of flexibility is obtained and as



NEW SEVEN-GANG TORO MOWING UNIT



the two outside mowers are practically opposite the driver, he is enabled to watch his cutting swath easily and maintain a clean cut at all times. It is not necessary for him to be constantly turning his head.

The arrangement of the two front mowers is such that the grass is cut before the drive wheels mat it down, which is a very important feature.

Now in transporting, the photograph will give you a very clear picture of just how the mowers are arranged when being thrown out of gear and taken from one part of the course to another. The side arms on the two outside mowers, Nos. 6 and 7, are lifted out of the front sleeve on the chassis and placed in the sleeve on the rear frame.

The locking pins for the two outside mowers on the rear frame are then released, the tractor is started, and the mowers swung around into a position, as shown in the photograph. When they reach this position, the driver takes the two front brace rods holding Nos. 6 and 7 mowers and drops them into position, holding the mowers in one set position for transporting.

The mowers are our new model Trojan mowers and are much superior to the old Super mowers. They have shorter wheel base and the drawbars are carried in a ball and socket arrangement, permitting free pivoting at all times. A very ingenious feature is the method of pulling the mower from the bottom of the side plate at a point just a few inches above ground, which means that the constant pull keeps the rear end on the ground.

To secure good traction at all times, a tension spring is placed on the front of the drawbar, which keeps the drive wheels on the ground.

## Scott's New Booklet

There has been a great demand for the new booklet entitled, "The Putting Green," published recently by O. M. Scott & Sons Company, Marysville, Ohio.

It is filled with a fund of information with reference to grasses for greens, together with their construction and the preparation of the soil bed.

The company stresses the importance of seeding their greens or planting with stolons in the fall of the year, and they give details of the methods to be used in both cases.

The Scott booklet includes a long and interesting chapter on maintenance of greens, in which they discuss the question of fertilizing and upkeep with all its attendance problems. There are also chapters on turf diseases and control, and insect and animal pests.

A copy will be sent to any greenkeeper or Green committee chairman upon request.

## Golf News

### SAPULPA, OKLA.

The Sapulpa Country Club is planning improvements on its nine-hole course, and has purchased new land to make this an 18-hole course. Mr. Bill Gries is secretary and manager.

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### FARMINDALE, N. Y.

The Lenox Hill Country Club has decided to exercise its option on ground in State Park for addition golf course, etc.

\* \* \*

### CHURCH'S FERRY, N. DAK.

Ferry View Golf Links is name chosen by judges for the new golf course here. Work on this course has been going on for some time and it is expected considerable play can be had before cold weather.

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### WASHINGTON, D. C.

Establishment of new combination air field and golf course between Loughboro Road, Little Falls Road, Cathedral Avenue and Weaver Terrace Conduit Road is being planned by the Air Legion, Inc.

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### SAN ANTONIO, TEXAS.

The Riverside Golf course will be opened during the current week, according to Mr. Murray Brooks, Manager.

\* \* \*

### ALMA, MICH.

D. L. Johnson was elected President of the Pine River Country Club last Saturday. Considerable work is being planned for Fall improvements.

\* \* \*

### MT. PLEASANT, IOWA.

R. F. O'Dea, an experienced golf course man, has been appointed custodian of the Golf and Country Club here. Work is to begin this month on improvements.

\* \* \*

### ELLIS, KANS.

It is reported that construction of the Ellis Golf Course is practically completed.

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### LAKE GENEVA, WIS.

Members of the Pell Lake Golf Club have decided to improve the greens and general condition of the Highlands Golf Course, putting in a water system, etc.

## N. A. G. A. Directors Meet in Boston

The executive committee of the National Association of Greenkeepers of America, will hold its fall meeting in Boston, November 16, 17. Headquarters will be at the Hotel Statler. There will be a joint meeting of the Board and the New England Greenkeepers' Association and many golf courses in the New England district will be visited.

### PASADENA, CALIF.

Work on the new 18-hole golf course, located at Brookside Park, will be speeded up right away, according to statement by Seward Simons, executive director of the Council of Social Agencies.

Statement of the Ownership, Management, Circulation, etc., required by the Act of Congress of August 24, 1912, of THE NATIONAL GREENKEEPER, published monthly at Cleveland, Ohio, for October, 1931.

State of Ohio, County of Cuyahoga, ss.

Before me, a Notary Public, in and for the State and county aforesaid, personally appeared Robt. E. Power, who, having been duly sworn according to law, deposes and says that he is the Editor of the National Greenkeeper and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, (and if a daily paper the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor and business managers, are:

Publisher, The National Greenkeeper, Inc., Cleveland, Ohio; Editor, Managing Editor and Business Manager, Robt. E. Power, Cleveland, Ohio.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

The National Greenkeeper, Inc., Cleveland, Ohio. Robt. E. Power, 10601 Lake Ave., Cleveland, Ohio; Frank H. Clark, 2848 Drummond Rd., Shaker Hts., Ohio; H. L. Richey, 3263 E. Fairfax Rd., Cleveland, Ohio; Frank H. Pelton, 19110 S. Woodland Rd., Shaker Hts., Ohio; F. E. Percy, 3159 South Moreland Blvd., Shaker Hts., Ohio; C. F. Lowe, Aurora, Ohio; Frank M. Power, 10601 Lake Ave., Cleveland, Ohio; M. J. Fox, 15002 Superior Rd., Cleveland Heights, Ohio.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

ROBERT E. POWER, Editor.

Sworn to and subscribed before me this 20th day of October, 1931.

A. F. Reymers.

My commission expires Nov. 5, 1931.