



# NEWS LETTER



“Disappointment should be taken  
as a stimulant”—*Anon.*



**MARCH**  
**1941**

## **WE'LL SEE YOU AT THE AMHERST SHOW**

A cordial invitation is extended to you to visit our Booth at the Annual Conference to be held March 14, 15, and 16, at the Massachusetts State College, Amherst.

Included in our display for your inspection will be the following:

**TORO PARKMASTER:** Lifting type tractor and mower outfit. Mowers may be lifted off ground for transporting. Outfit will be shown with 5' Sickle Bar for Rough.

**TORO PROFESSIONAL:** Sensational new 76" riding-type Power Mower. Extremely flexible and equipped with reverse gear for backing up. Snow plow available for winter work.

**TORO STARLAWN:** New popular priced line of 24", 27", and 30" power mowers. See the new **FLOATING AXLE** which insures an even cut. Just the mower for cutting tees.

**TORO PONY:** The lightweight power green mower which retains the advantages of hand mowing. Either Reel or Traction Drive.

**TORO HAND GREEN MOWER:** The old reliable. Still going strong after 16 years.

**TORO TROJAN AND SUPER:** 30" Fairway Mowers. Exactly the thing for smooth, high-speed fairway mowing. Come in 3, 5, or 7-gang outfits.

**TORO POWER ROLLER:** Half-ton, riding-type power roller. Has 30" rolling width. Equipped with Forward and Reverse Transmission.

**TORO BULLET:** A snappy Tractor which lives up to its name. Plenty of power, ample speed, and it does a grand job on a golf course.

**TORO HOMELAWN:** Smallest of our power mowers. Simple, easy to run, economical. Comes in two sizes (18" and 21"). One of our most popular machines.

**ALSO ON DISPLAY:** Buckner Sprinklers, NETCO Fertilizers, Milorganite and Milarsenite. Accessories, Supplies.

## **NEW ENGLAND TORO COMPANY**

**1121 Washington Street, West Newton, Mass.**

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This NEWSLETTER is published by the Greenkeepers Club of New England, and sent free to its members and their Green's Chairmen. Subscription price ten cents a copy, or a dollar a year.

GEORGE J. ROMMELL, JR., *Editor and Business Manager*  
54 Eddy Street, West Newton, Mass.

HENRY MITCHELL, *Assistant Editor*

March 1, 1941

Vol. 13, No. 2

*The ideas and opinions expressed in the subject matter of this NEWSLETTER are not necessarily those of the Editor or the members of the club as a whole.*



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## GREENKEEPERS' CLUB OFFICERS

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Brae Burn Country Club, West Newton, Mass.

### ORCHIDS

For nearly twelve years it has been my duty, and an honor for me to have edited your monthly paper, the NEWSLETTER. Now, circumstances make it impractical for me to continue this work. I should therefore at this time like to extend my sincere appreciation and thanks to all members, research men, advertisers and all others, who at any time during this editorship, aided me in this work. The help extended me since 1929 has been great. No one man could produce such a paper by himself, and whether any issue has been good or mediocre has depended to a large part on the outside help received.

May I at this time also ask that you all give the new Editor all the support at your command and thus enable the NEWSLETTER to go forward to bigger and better ways?

GUY C. WEST.

*Editor's Note.*—My sincere apologies to Mr. West and the Club for not printing this note in the January NEWSLETTER.

### COMPETITION

Competition has existed since the first living cell divided and became twins. First the struggle was for the best place in which to exist and then when the earth became crowded with living matter the struggle was one of life and death. When might makes right was the only law, man made weapons of stone and iron to protect himself. Eventually it was discovered that the pen is mightier than the sword and that intelligence and education were effective weapons. Somewhere along the line, perhaps even before wolves hunted in packs, it was learned that co-operation could make the weak strong and the strong stronger.

In our profession as in any other there is competition which must be met. There are many phases of competition and each of us is probably attacked from a slightly different angle. Our success will depend upon the wisdom we use in selecting and developing our own weapons and upon the skill with which we use them.

We compete with each other. We cannot organize against ourselves. We compete with assistant greenkeepers and men in closely related lines of work who might be considered eligible for our jobs by uninformed club officials. This type of competition can be met best by organization. Not the "wolf pack" or "sit down" type employed in some industries but rather the co-operative kind of organization such as we have in our greenkeeper's club. By organizing to help increase the collective knowledge of the club and by using that knowledge for mutual benefit, we make ourselves more valuable to our employers. We should take steps to make our club officials realize this added value rather than

let them discover for themselves the folly of hiring incompetent men.

Wages as well as prices are to a great extent controlled by supply and demand. In an attempt to control these factors, farmers, for instance, have resorted to the "plough under" policy, better known to some as the "kill a little pig" method of decreasing the supply of produce. Others believe the "plenty of room at the top" slogan and realize that it's the quality that counts. Others consider the possibilities of increasing the demand for agricultural products in industry through research. It has been stated by a noted turf expert that the field of turf maintenance could be increased tenfold. This could be done by increasing the interest of home owners, park and cemetery superintendents, etc., in fine turf. A committee of greenkeepers could be appointed to write articles about turf maintenance for newspapers and magazines. We believe such an undertaking would definitely stimulate interest in turf as well as add to the prestige of the club and its members.

Shall we resort to the "sit down" "plough under" "wolf pack" methods or shall we depend on education, co-operation and expansion?

LOU MOORE.

### REPORT ON THE EXPERIMENTAL GREEN AT PONKAPOAG FOR 1940

A summary of the rating cards for our experimental green for the year 1940 show the following results: Kernwood Velvet rated No. 1, Piper No. 2, Rantan No. 3. These three velvets rated very closely together and in fact could be considered of about equal value.

The creeping bents came along after the velvets in all cases. We had a total of 28 rating cards made out and submitted to the U. S. G. A. Ratings varied from a total of 47 to 414; the lowest number being the best solution.

It should be kept in mind that these ratings are based on the turf from a playing standpoint and appearance. Last season we had very little disease on the course and practically none on the experimental green. We did get little dollar spot on No. 19 section, which incidentally was picked as first choice among the creeping bent.

We would appreciate having all who are interested look at the green this coming year and fill out cards. I think as the green gets older it will be interesting to compare ratings from year to year.

One greenkeeper told me he expected we would eventually have a green mostly all velvet bent. One section of creeping bent next to the velvet has started to show signs of velvet invading the area.

SAMUEL S. MITCHELL.

**BETTER LAWN**

Every turf grower should add to his library a book recently published by the McGraw-Hill Book Company, Inc., 330 West 42nd Street, New York, "Better Lawns," by Howard B. Sprague. Dr. Sprague is well known to the turf growers of the country as the Agronomist at the New Jersey Agri. Experiment Station, where for several years he has been in charge of the turf research work, including the many turf plots. He is well known to the greenkeepers of the country also because he has spoken at many green-keeping meetings throughout the country and also has been the head of the Short Courses at Rutgers University for the past twelve years.

"Better Lawns" for \$2.00 is issued as one of the Whittlesey House Garden Series. It contains a vast fund of turf growing knowledge not only for the professional turf grower but also for the home owner who is merely trying to improve his own small lawn. It is written so that the layman can understand. Various chapters deal with the following: "Soil Conditions for Healthy Turf," "Soil Acidity and Liming to Correct It", "Practical Use of Fertilizers on Turf," "Soil Humus and the Use of Organic Materials for Soil Improvement," "Seed Germination and Growth of Turf Grasses," "Characteristics of Turf Grasses," "Planting New Lawns," "Regular Care of Turf on Lawns and Parks," "Special Turf Problems and Renovating Poor Turf," "Controlling Weeds in Lawns," "Controlling Diseases and Insect Enemies of Turf."

This will give you some idea of the completeness of the book; you should own it to appreciate its worth to you.

GUY C. WEST.

**WINTER SCHOOL AT WALTHAM**

At the February meeting of the Greenkeepers' Club of New England it was decided to have a school at Waltham, to be run three nights.

A committee was appointed to handle the matter. The three members are: Paul Wanberg, chairman, Weston G. C.; Theodore Murphy, Belmont C. C., and Alex Ohlson, Lexington G. C.

While there was nothing definite at the time of going to print, the following was tentative: the school will be held either in late March or early April and will run three nights, Monday and Friday of one week and Monday of the week following. The first two nights will be devoted to outside speakers, possibly Mr. Noer will be one and the third night to be a resumé of the first two nights with possibly some type of entertainment afterwards, such as movies and refreshments.

OLD SOD.

**COMMITTEES APPOINTED BY PRESIDENT FOR 1941**

**Entertainment:** N. J. Sperando, chairman, N. Bruno, Homer Darling, L. Stott, Ted Murphy.

**Golf:** Thomas Mottus, chairman.

**Welfare:** John Counsell, chairman, John Latvis, E. Phinney.

**Employment:** Arthur Anderson, chairman, W. McBride, C. Parker.

**Mass. Inter-Relations:** J. Oldfield, chairman, Ted Swanson, A. Barney.

**Rhode Island Inter-Relations:** R. Peckham, chairman, M. Greene, O. Chapman.

**Turf Research:** Frank Wilson, chairman, Paul Wanberg, R. A. Mitchell.

**Publicity:** Harold Mosher, chairman, Paul Hayden, Leslie Wildgust.

**Membership:** Sam Mitchell, chairman, Alex Ohlson, Charles Parker.

**Winter School:** Paul Wanberg, F. Murphy, Alex Ohlson.

**THE COW**

The cow is of the bovine ilk;  
One end is moo, the other, milk.

OGDEN NASH.

**ANNOUNCEMENT**

*New address of*

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CHESTER M. SAWTELLE  
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Telephone WOBurn 0268

## OUR AMERICAN FLAG

Since we most all have something to do with the Flag on our courses, I have taken the liberty of putting these rules in the NEWSLETTER.

These rules have been taken from a book called "The History of the Flag," and I hope will aid us in our patriotic endeavors, this coming summer.

### PROPER MANNER TO DISPLAY THE AMERICAN FLAG

1. The Flag should be displayed from sunrise to sunset only or between such source as designated by proper authority on national and state holidays, and on historic and special occasions. The Flag should always be hoisted briskly and lowered ceremoniously.
2. When carried in a procession with another flag or flags the place of the Flag of the United States is on the right, *i.e.*, the Flag's own right, or when there is a line of other flags the Flag of the United States may be in front of the center of that line.
3. When displayed with another flag, against a wall from crossed staffs, the Flag of the United States should be on the right, the Flag's own right, and its staff should be in front of the staff of the other flags.
4. When a number of flags are grouped and displayed from staffs the Flags of the United States should be in the center or at the highest point of the group.
5. When flags of states or cities or pennants of societies are flown on the same halyard with the Flag of the United States the Flag of the United States must always be at the peak. When flown from adjacent staffs the Flag of the United States should be hoisted first. No flag or pennant should be placed above or to the right of the Flag of the United States.
6. When the flags of two or more nations are to be displayed, they should be flown from separate staffs of the same height, and the flags should be of equal size. (International usage forbids the display of the flag of one nation above another in time of peace.)
7. When the flag is displayed from a staff projecting horizontally, or at an angle from the window sill, balcony, or front of a building, the union of the flag should go clear to the head of the staff, unless the flag is at half-staff.
8. When the Flag of the United States is displayed other than flown from a staff it should be displayed flat, whether indoors or out. When displayed either horizontally or vertically against a wall, the union should be uppermost, and at the Flag's right; that is, to the observer's left. When displayed in a window it should be displayed the same way; that is, with the union or blue field to the left of the observer in the street. When festoons or drapings of blue, white and red are desired, bunting should be used—but never the Flag.
9. When displayed over the middle of the street, as between buildings, the Flag of the United States should be suspended vertically with the union to the north in an east and west street, or to the east in a north and south street.
10. When used on a speaker's platform, the Flag should be displayed above and behind the speaker. It should never be used to cover the speaker's desk, nor drape over the front of the platform. If flown from a staff it should be on the speaker's right.
11. When used in unveiling a statue or monument the Flag should not be allowed to fall to the ground, but should be carried aloft to wave out, forming a distinctive feature during the remainder of the ceremony.
12. When flown at half-staff position, but before lowering for the day, it is raised again to the peak. On Memorial Day, May 30, the Flag is displayed at half-staff from sunrise until noon, and at full staff from noon until sunset, for the Nation lives and the Flag is the symbol of the living Nation.
13. When used to cover a casket the Flag should be placed so that the union is at the head and over the left shoulder. The Flag should not be lowered into the grave nor be allowed to touch the ground. The casket should be carried feet first.
14. When the Flag is displayed in a church it should be from a staff placed on the congregation's right as they face the clergyman, with the service flag, State flag, or other flag on the left wall. If in the chancel, the Flag of the United States should be placed on the clergyman's right as he faces the congregation.
15. When the Flag is in such a condition that it is no longer a fitting emblem for display, it should not be cast aside, or used in any way that might be disrespectful to the national colors, but should be destroyed as a whole, privately, preferably by burning or by some other method in harmony with the reverence and respect we owe to the emblem representing our country.

### TALKING ON PAPER

We have always believed, and we have demonstrated enough times so that our sincerity should not be questioned, that every member of the Greenkeepers Club ought to expect and want to contribute material for the NEWSLETTER.

To this end, over a period of years, we have talked with many members and we have never been able to dig up any reasons for not contributing material excepting laziness or a feeling of inferiority.

When we hear someone holding forth on greenkeeping problems or club activities to a few brother Greenkeepers or from the floor at a club meeting, who has never contributed an article to the NEWSLETTER, we are forced to believe that he is either in love with the sound of his own voice or lacks the courage of his convictions and therefore shuns committing himself in print. He is the lazy man. He has something to offer for we have heard him express himself at club meetings, but he will not write. The physical effort of writing a short article can hardly be called heavy. It must be that he is too lazy to check up on his facts and statements and so does not dare to have them appear in print.

The matter of an inferiority complex is an entirely different matter. Many and many a man who can and does talk well before a few people cannot express himself before a meeting. Many and many a man who can talk well on his feet gets the cold shivers when it comes to putting his thoughts on paper. Why? Because he forgets that all writing is, is "talking on paper."

The NEWSLETTER has never set itself up to be a publication for the advancement of story writing, correct grammar or beautiful prose. Who cares how the thought is set up. It is the thought alone that counts.

When we sit down with a clean sheet of paper before us and work ourselves into a cold sweat for fear that we will be murdering the English language then the thought goes out the window and we produce something that is just so many words on paper. The thought that we had hoped to put down for all to read has become lost in our struggle to produce a masterpiece of English composition. "Talk on paper," and you will get your thought across and more often than not will, without appreciating it, turn out an article that is soundly written.

We all know that we have thoughts and ideas on greenkeeping and Greenkeeper Club activities but we do not let go of them because we are afraid of this writing business. It is not writing. It is "talking on paper."

Too, there is the inferiority that is often expressed thusly: "I'd be glad to write an article just to help out but I don't know anything to write about." That excuse does not stand up for one minute. Everything about

Greenkeeping has not been written and from listening to conversations about club activities there is a whale of a lot that has never come out into the open.

The routine of maintenance may appear to be standardized, actually the variations are as many as there are golf courses. The why and how of our daily routine opens up a tremendous amount of NEWSLETTER material. Going on from routine to special maintenance features and the individual requirements of particular courses and we have a source for an endless amount of worthwhile, interesting articles.

We believe that some inferiority is due to other things than the fear of not being able to express ourselves on paper. Many of us have had experiences that are valuable but in that they resulted in failures we hesitate to put them on paper for fear that we will not be made to appear in the best light. This attitude is so foolish. The really great make more of their mistakes and failures than they do of their successes for it was from their mistakes and failures that they learned the lessons that have stayed with them and urged them on.

We have always felt that there is a place in the NEWSLETTER for a "Hints and Tips" column. The little individual ways of getting things done that not only make interesting reading but also are real helps to the other fellow. We have never criticised the Editor of the NEWSLETTER for the lack of such a column for it is a physical impossibility for him to gather the necessary material. It must be contributed.

For the "timid soul" there is no easier way to begin "talking on paper" than to write up a few of the little tricks from his bag of experience. A few words will tell the story for each one and we are quite sure that after seeing some of his ideas in print he will soon forget to be afraid to "talk on paper" and will jump in all over and come up with a full length article that will surprise his brother Greenkeepers and give the Editor a big help and a real thrill at finding a new contributor.

Really there is nothing to it. It is just "talking on paper." CHARLIE PARKER.

## USED GOLF BALLS WANTED

Highest prices paid

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are received

Known to the trade for 15 years

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### GOLF COURSE SKI TOWS

In the past few years skiing has become increasingly popular and more and more very fine ski runs are being built throughout New England each year. Most of these are supported by large hotel corporations where initial cost of project is of secondary concern.

Often thousands of dollars are spent cutting paths through the woods, improving ground contours, etc., and then another several thousand for a ski tow.

On almost any of our golf courses in New England skiing conditions are excellent, but since most of us are inherently lazy, we prefer even to have our sports offered us with the least amount of exertion. (As an example of this, one large manufacturer of ski tow rope is advocating a special "summer golfers' tow" to help us up the inclines.) For this reason, ski enthusiasts will drive miles and miles to be accommodated by a power tow while their own club could offer them far more convenient pleasure.

Unfortunately winter budgets of most golf courses cannot include the almost prohibitive cost of installation of a suitable tow to accommodate members, and to round out an all-year sports program some clubs are leasing their grounds to concerns who install outfits and keep the profits. These profits are usually an amazingly large amount which could well supply the clubs with much needed revenue.

Recognizing this fact, the Worthington Mower Company, in co-operation with Chrysler engineers, have developed a ski tow attachment which works in conjunction with your Worthington Golf Chief tractor. No alterations of any kind are needed other than removing four wheels, installing two drums, clamp on ski tow and install governor. This special load governor enables outfit to work without an operator and engine automatically speeds up to handle varying number of persons.

The following chart shows motor speeds set by load governor:

Transmission Gear	Engine Speed	Rope Speed
4th	1200 RPM	8 M.P.H.
	1800 RPM	12 M.P.H.
3d	1200 RPM	4.75 M.P.H.
	1800 RPM	7.1 M.P.H.
2d	1200 RPM	2.6 M.P.H.
	1800 RPM	3.9 M.P.H.
1st	1200 RPM	1.13 M.P.H.
	1800 RPM	1.87 M.P.H.

(Editor's Note. This article was written by C. M. Sawtelle at the request of Editor who is endeavoring to present items of interest whether written by our advertisers or from other sources.)

### LECTURE GIVEN AT FEBRUARY MEETING

Dr. R. E. Culbertson, Associate Agrostologist, the Soil Conservation Service, Upper Darby, Pennsylvania, addressed the Association on the subject, "The Role of Grasses and Legumes in the Soil Conservation Service Program." It is of special interest to note that the Soil Conservation Service is assembling, testing and producing grasses and legumes for soil and moisture conservation, while considering their utility value. At Big Flats, New York, there are more than 500 species and varieties under observation.

Dr. Culbertson stated that it was unusual to talk to a group who were anxious to maintain an effective cover, and that this was an effective way to conserve moisture and soil, as well as build up the organic matter. In the short life of this Country, plowing up the land and poor care have resulted in the loss, through erosion, of approximately 262,000,000 acres. It has been estimated that three billion tons of soil are annually washing out of our croplands and associated pastures. The cost of erosion to the United States amounts to about 840 million dollars a year. In terms of highway maintenance alone, it amounts to about 180 million dollars annually. On an average, we have lost about 5 inches of top soil.

Nature provides no way of getting back the soil once lost, but she does provide a chance to recover some of the moisture, as shown by the water cycle. In describing this cycle, water vapor, evaporation, transpiration, saturation, infiltration and precipitation were discussed. Water vapor blankets the earth and is really the source of the rain. As it rises it cools and soon condenses and falls back to earth to begin all over again. Evaporation depends upon temperature, the dryness, and the wind. It disposes of practically all the rain that falls during light showers, and may account for an annual loss of 20-30" or more on lakes. Little transpiration takes place under 42° F. Conifers use approximately 200# of water and deciduous trees 500# of water to produce one pound of dry matter, while a mature apple tree may transpire 15-20 tons of water a year. Grasses and legumes require about 15 inches of rainfall a year.

When fully saturated, all soils free of organic matter hold about 5" of water. About 1" will be retained in sandy soils, 2½" in silty soils and 3½" in clay soils. The more organic matter the more moisture the soil can hold.

Infiltration depends on slope, soil and duration of the rain. The rate ranges from 1-10" to 1" per hour. To conserve our rainfall, we must store water in the soil by increasing infiltration.

Soil and moisture may be conserved by (1) planting on the contour, (2) strip cropping,



(3) terracing, (4) reducing clean cultivation to a minimum and (5) providing continuous cover.

Colored slides were shown of approximately sixty grasses and legumes and their uses discussed. For use in stabilizing sand and dunes, American beach grass (*Ammophila breviligulata*), Sea Lyme (*Elymus arenarius*) and Beach Bean (*Strophostylis helvola*) are the most useful; for stabilizing road banks and gullies—zigzag clover (*Trifolium medium*), Crown vetch (*Coronilla varia*), Creeping red fescue (*Festuca rubra*), Tall oatgrass (*Arrhenatherum elatius*) and Birdsfoot trefoil (*Lotus corniculatus*) are outstanding; for wet soils, Meadow fescue (*Festuca elatior*), Reed canary (*Phalaris arundinacea*), Meadow fox-tail (*Alopecurus pratensis*), rough stalked meadow (*Poa trivialis*) and Redtop (*Agrostis alba*) are still the best, while for dry sites—Highland bent (*Agrostis tenuis*), Canada blue (*Poa compressa*), Smooth brome (*Bromus inermis*), Red fescue (*Festuca rubra*) and Sheep fescue (*Festuca ovina*) prove satisfactory.

Where rapidity of cover is a factor the ryegrasses continue to lead the field.

A discussion of soil and organic matter brought out the fact that plowing under green manure crops, like rye, year after year added little or no organic matter to the soil, and that it was necessary to get lignin into the soil to be of any value.

Very truly yours,

DR. R. E. CULBERTSON.

**PUZZLED?**

### LET WOODRUFF HELP YOU

Just as it is your job to keep the course in top playing condition — it is Woodruff's job to study grasses, and the growing conditions they face on New England soils. Put to work the experience gained on the Woodruff Proving Grounds. Write today.

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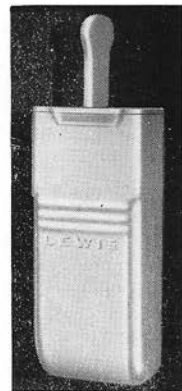
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We will allow you \$1.00 on each old washer you now have (regardless of make) on the purchase of this new washer — Write for details.



**BRECK'S**

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**SPORTS SHOW AT AMHERST**

Don't forget that this year the equipment companies will exhibit again.

Let's all go and renew old acquaintances and get some of the cobwebs that have been accumulating during the winter, out of our heads.

*Fifteenth Annual*

GOLF COURSE MAINTENANCE CONFERENCE  
AND GOLF COURSE MACHINERY

EXHIBITION AT  
**THE EIGHTH RECREATION  
CONFERENCE**

Massachusetts State College, Amherst, Mass.

March 14, 15, 16, 1941

*Program of the Golf Section*

The Theme of the Conference

"Business Management in Every Decision"

**FRIDAY, MARCH 14**

Second Floor, Memorial Hall Except where noted

**Morning Session 10.30 A.M.**

THE BUSINESS OF EDUCATION  
Graduation Exercises 1941 Winter School  
for Greenkeepers.

Two Short Papers, Prepared and presented  
by members of the 1941 class.

Charge to the Class, Mr. Jack White, Stock-  
bridge Golf Club, Stockbridge, Mass.

Presentation of Certificates. Mr. Roland Ver-  
beck, Director of Short Courses, Mass.  
State College.

**Afternoon Session 2.45 P.M.**

THE ENTIRE AFTERNOON PROGRAM SPON-  
SORED AND GIVEN UNDER THE DIRECTION  
OF THE GREENKEEPERS CLUB OF NEW  
ENGLAND.

Note: We are very glad to have this organiza-  
tion co-operating and taking an active  
part. We are also pleased with the active  
interest of such organizations as the G. S. A.  
of America N. J. G. C. S. A. P. G. A.—  
the Conn. Asso. of Golf Course Supts.  
N. E. N.Y. "Golfdom" and "Turf."

**Evening Session 8.30 P.M.**

THE BUSINESS MANAGEMENT OF FERTILIZ-  
ERS AND FERTILIZING

Prof. Ralph W. Donaldson, Extension  
Service, Mass. State College.

Prof. Lawrence S. Dickinson, Mass. State  
College.

Note: Watch for notices of regularly assigned  
exhibitions, demonstrations and entertain-  
ment in the Exhibition Hall throughout  
the entire program.

Special Friday 1.30 and 7.30; Saturday 9.00  
and 1.30.

**SATURDAY, MARCH 15****Morning Session 10.00 A.M.**

TURF MANAGEMENT POINTERS AS OBSERVED  
BY A COUNTY AGENT

Mr. Charles K. Hallowell, County Agent,  
Philadelphia, Pa.

THE BUSINESS MANAGEMENT OF WATERING  
Dr. O. J. Noer, Milwaukee Sewerage  
Commission.

**Afternoon Session 2.45 P.M.**

Address: President Hugh P. Baker, Mass.  
State College

THE CHAIRMAN'S INFLUENCE ON BUSINESS  
MANAGEMENT

Mr. Charles W. Arnold, Haverhill, Massa-  
chusetts.

IS THE FUTURE OF GOLF COURSE MANAGE-  
MENT CENTRALIZED CONTROL?

Major R. A. Jones, General Manager of  
the Baltusrol Golf Club, Springfield, New  
Jersey.

**Evening Session 6.15 P.M.***Draper Hall***SEVENTH ANNUAL "BANQUET"**

On a new Plan! Special cafeteria service  
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Followed by the big new feature in Room 20  
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**ROUND TABLE SMOKER**

THE BUSINESS MANAGEMENT OF FAIRWAY  
WEED CONTROL

Leaders: E. J. Casey, of Wykagyl, Herbert  
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Meadows.

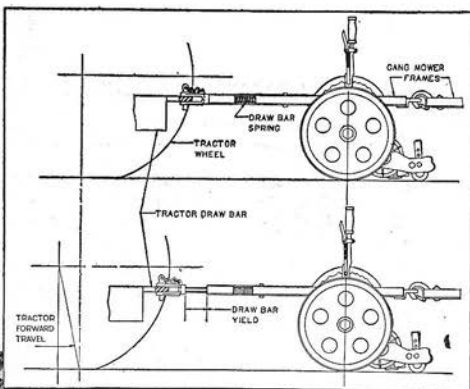
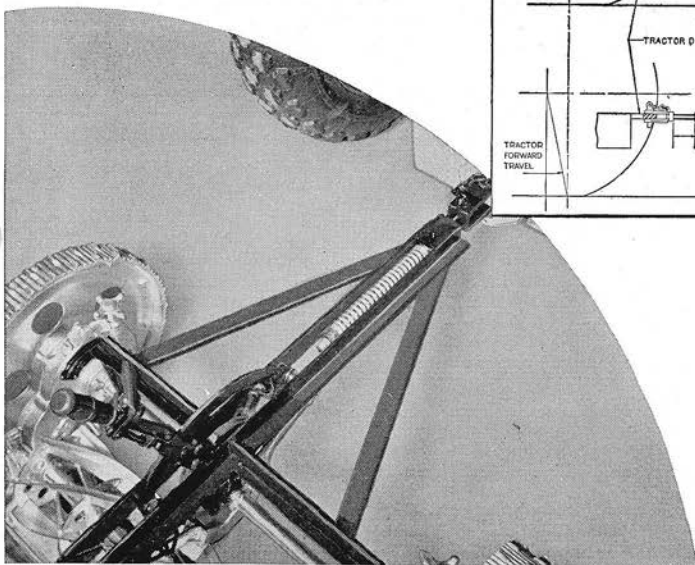
**SUNDAY, MARCH 16***Room 20 Stockbridge Hall***Annual Experts on Trial**

The well-known "chief justice" and "the  
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Note: The same great attraction as in  
other years. Where your own particular  
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Conference includes many other sections and  
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**The Exhibit of Golf Course Equipment  
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Gang Mower frame tractor hitch shows Spring Draw Bar which functions to your advantage as shown in diagram opposite.



When tractor and gang mower stop during course of operation, to start again requires moving a dead load with the added resistance of uncut grass. Diagram shows draw bar yield allowing tractor wheels to move forward, gaining momentum before taking up full load, thus preventing tractor wheel slippage and injury to turf.

## **NEW** Worthington patented Draw Bar Spring prevents turf injury by a smoother start with any tractor

The new Worthington Cutting Unit with its wider and harder blades, and Gang Mowers have been acclaimed, after last season's performance, as the best in quality and as giving the finest cut of any equipment in this field.

Now, for 1941, we have added the Spring Draw Bar feature which was formerly a part of the tractor itself. It is now built into the famous Worthington

Gang Mower frame so that its advantages in smoother starting, preventing turf injuries due to slippage, is available to all Worthington Gang Mower users regardless of make of tractor used.

New frame sections with this feature are available for replacement on any Worthington Gang Mower now in service.

*Write us, today, for full information.*

### **WORTHINGTON MOWER COMPANY**

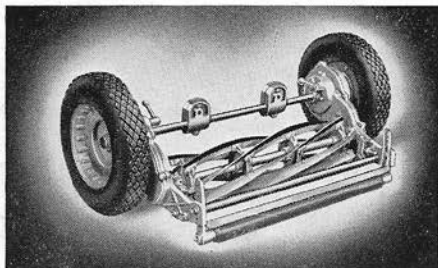
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# BIG MONEY WINNERS USE THE BEST EQUIPMENT



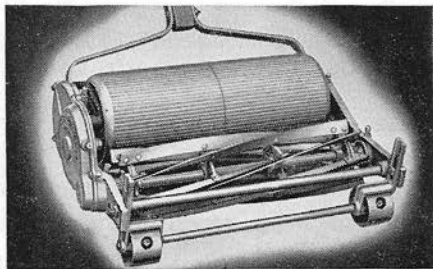
Successful golfers and successful golf clubs have one common characteristic—both use the best equipment available. Those clubs that attract the greatest number of playing members are the ones that maintain well kept fairways and true, fast, ribless greens *at all times*.

It's not just a coincidence that more and more of the country's outstanding courses are being equipped with Pennsylvania mowers. It's because Pennsylvanias have been *proved* the most efficient—the most economical. The units pictured below are but two from "The World's Most Complete Line of Lawn Mowers."



## Pennsylvania DeLuxe Fairway (35 or 30 Inch Sizes)

The 35-inch size effects a saving of 20% in time and labor over the conventional 30-inch size. Both sizes unbreakable malleable iron construction. 6 heavy crucible analysis steel blades. Timken roller bearings. Casting, with reversible raised edge lower blade attached, is removable without dismantling mower. Train of gears on *both* sides. Pneumatic tires optional.



## Pennsylvania Super-Roller Greensmower

High speed cylinder. 8 crucible analysis steel blades—oil hardened and tempered. Train of 3 cut gears, running in grease, in dust-tight case. Castor wheels mounted in hardened steel bushing, Alemite lubricated.

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