NEW CATALOGS

NACO Fertilizer

Of special interest to greentenders is the announcement of a large and nationally known fertilizer company, the Nitrate Agencies Co., 104 Pearl Street, New York City—that NACO “a golf course fertilizer” is now available for all golf courses throughout the United States.

Donald J. Ross, famous architect and builder of golf courses, has been working with the Nitrate Agencies company for a number of years in the development of the NACO formulas, and the consistently fine results secured by Mr. Ross at Pinehurst and other places where it has been used, led to his definite recommendation of NACO for best results in turf culture.

NACO is an all-organic fertilizer manufactured by the Nitrate Agencies company exactly according to the formulas developed and recommended by Donald J. Ross, and sold to the trade through golf supply houses or direct from the manufacturers.

In an attractive booklet now ready for mailing to all interested parties, the story of NACO is told in an interesting series of five letters reproduced in facsimile—two of the letters are written by Mr. Donald J. Ross while one of these letters is reproduced in the full page advertisement of the Nitrate Agencies company appearing in this issue of the NATIONAL GREENKEEPER.

Standard Equipment

A new folder in colors describing Standard golf course equipment has been issued by the Standard Mfg. Co., Cedar Falls, Iowa. This describes and illustrates their cast aluminum hole rim, which has some new features of interest to every greentender. This company also manufactures steel flag poles, aluminum tee markers and bag racks and a complete set of permanent aluminum golf course signs, which include entrance signs, arrow signs for tees giving the hole number, yardage, par, etc., fairway yardage markers, out of bounds, no parking, and numerous others used on the golf courses and which usually have to be made to order.

A copy of this little circular should be in the hands of every greentender and Green committee chairman and will be sent free of charge.

Thompson Sprinklers

Over thirty different models of hose sprinklers are made this year by the Thompson Mfg. Co., Los Angeles, California. It is the claim of this company that no one sprinkler will answer all purposes because each meets a different working condition. It is for this reason they manufacture so many models and no matter what the sprinkling problem may be they can satisfy it.

For golf courses and large lawn areas this company recommends the Master sprinkler which is the last word in simplicity, but yet is so rugged in construction that the company unqualifiedly guarantees it for three years. This sprinkler will cover an area of 108 feet or better on 45 pounds pressure and will also...
operate nicely on 20 pounds. It has no exposed machinery or gears and there is nothing to get out of order. The head can be slipped into a hip pocket.

For fairways, approaches and tees the company recommends the use of the Quick-Coupling Valve, which is set flush with the surface of the ground and is permanently attached to underground piping. This valve is housed in the Thompson Valve Sleeve—out of the way of mower and play. The Quick Coupler is attached to the Master Sprinkler which in turn is quickly connected to the valve when sprinkling is desired. A turn of the hand and the water is on. There is no need to go to the main controls and there is nothing to get out of order. This is said to be the most efficient and economical sprinkling system yet devised.

**Cooper Power Mower**

A brand new power putting green mower is the Cooper, manufactured by the Cooper Mfg. Company, Marshalltown, Iowa. This machine was first exhibited at the Greenkeepers' Show in Louisville and attracted wide attention.

Two or three features are noteworthy. First, it is equipped with a Briggs & Stratton four-cycle gasoline engine and everybody knows the reputation and quality of the Briggs & Stratton machine. Second, it is constructed of press steel and aluminum alloy which gives great strength with extreme lightness as compared with cast iron frames and bodies.

The Cooper mower is short coupled with finger tip control and reel drive assembly with independent clutch. It has an unusually large grass catcher and a brush attachment which aerates the soil, brushes off worm casts and keeps stolon greens from forming runners.

A new circular completely describing and illustrating the Cooper mower will be mailed to greenkeepers who send a post card to the company at the above address.

**Koppers Sulphate**

The use of Koppers sulphate of ammonia which is sold under the trade name of Koppers Velvet Lawn to the retail trade, is well described in an illustrated circular recently issued by this company. It tells the householders to broadcast two kitchen cupfuls for each two hundred and fifty square feet only when the grass is dry and then to water it down thoroughly.

The first application should be in the early spring as soon as the grass begins to start its growth, with another application about three weeks later, or two cupfuls of Koppers Velvet Lawn can be mixed in ten gallons of water and put on two hundred and fifty square feet with a hand sprinkling can. All this information is worth while for those who have no knowledge of the use of sulphate of ammonia. It can be had from your local dealer in 5, 10, 25 and 100 pound bags, these five pound bags being sufficient to cover twelve hundred square feet of lawn.

Complete information can be secured from the Koppers Products Co., Koppers Building, Pittsburgh, Pa.

**How to Use Milorganite**

The Milwaukee Sewerage Commission, Milwaukee, Wisconsin, has issued a pocket circular describing in complete detail the use of Milorganite on established fairways and putting greens and also in new course construction. It is also used extensively as a carrier for supplementary fertilizers or lead arsenate where it has been very successful.

Milorganite is too well known to require detailed description—as a fertilizer it contains all the rare chemical elements which recent investigations indicate play a part in plant growth. It appeals to the greenkeeper especially because it imparts a deep green color to the turf, promotes long growth and is least apt to burn or injure the turf. Its mechanical condition also makes it easy to handle without waste which is a big factor on windy courses.

This circular which is new will be sent to greenkeepers upon request.

**Turf Builder Mowers**

Everybody knows at once that the above title refers to the well-known Roseman fairway mower, which apply to the fairway the same principle as universally used on putting greens. In other words Roseman mowers cut and lightly roll the turf at the same time which presses the grass roots gently but yet firmly into the soil and eliminates cuppy lies and soft spots. The Roseman is the only tractor mower having these qualifications.

It is also to be noted that the Roseman Quint or Five Gang set has three mowers in the front and two in the rear which is the reverse of the usual arrangement. In short the Roseman is original in every particular and the makers are not afraid at any time to demonstrate that their theories are correct. In fact experience of many years is incorporated in this company's product.

The company furnishes a dual purpose lifting hitch which sets up the mowers for mowing rough or transporting over areas where cutting is not desired. It is very simple and effective. For sandy soils particularly the Roseman is said to have no equal.

**Price Versus Quality**

The Stumpp & Walter Company, 30-32 Barclay St., New York City, who for almost a generation have been specialists in golf grasses and equipment, distributed at Louisville an extremely interesting circular on grass seed under the above title. This company has gone into an editorial description of turf grasses and includes illustrations showing how to identify the various grasses by their leaf and root formations.

They also give a tabulation of all the grass seeds, where to use them, on what soils they are suit-
Ideal Golf Supplies

Few people connect the Ideal Power Lawn Mower Company, Lansing, Michigan with a complete line of golf supplies and equipment of every description which are carried in stock not only in their home warehouse at Lansing, Michigan, but in their factory branches in New York, Chicago, Detroit and Boston.

In order that the greenkeepers may acquaint themselves with the Ideal line of equipment the company has issued a catalog called Number 30, which will be sent upon request and which illustrates, describes and gives prices of practically everything used about a golf course. This catalog is a splendid book of reference telling the latest and most improved implements on the market collected by Ideal from a large range of reputable manufacturers.

This company specializes as everyone knows in mowing equipment, including hand mowers of all kinds, power mowers of various sizes, and gang mowers for use on fairways and large lawns.

One interesting item is the Bull Dog Golf course tractor combining the new Ford Model "A" Motor and Ford Type Worm Drive making it so the makers claim the simplest and most powerful—and sturdiest golf course tractor offered on the market. It weighs 1,850 pounds, costs $668.00, and will pull a five gang mowing unit eight miles an hour.

Of special interest to schools and colleges, parks and cemeteries is the Ideal Triplex mower, a close-coupled self-contained unit which will cover twenty-five acres in a day and handle easily and quickly around trees, walks, flower beds, shrubs, etc. It has three Ideal mowing units and the total width of cut is eighty-four inches. The cost of tractor, mowers, etc., complete ready to run is $1,200.00, which is very cheap considering the high quality of the outfit.

The data here is authentic and is not only extremely interesting but useful to greenkeepers and chairmen. A copy will be sent upon request.

Ideal Golf Supplies

The Hyper-Humus Company, Newton, N. J., distributed a very interesting circular at Louisville, telling where and how to use Hyper-Humus which is a pure organic material prepared for the purpose of building up the soil.

Hyper-Humus is used for composting with sand and top soil and gives remarkable results. It is also used largely for mixing with inorganic fertilizer and this is carefully charted in the circular which will be sent upon request.

Buckner Irrigation

It is marvelous the perfection which the Buckner Mfg. Company has attained in modern golf course irrigation. The combination of Buckner sprinklers and self-closing valves appears to be the simplest and most effective means of watering greens, tees and fairways, that has ever been devised.

Space will not permit a complete description but it is certainly worth a postage stamp to get the Buckner catalog illustrating and describing the Buckner simplified method and the equipment which is used. Address Buckner Mfg. Co., Fresno, California.

Convention Report

O. M. Scott & Sons Company, Marysville, Ohio, have prepared a report of the Annual Convention of the National Association of Greenkeepers of America, held at Louisville, February 4-7.

The company states that they will be very glad to send a copy of this report to anyone who requests it.

Night Mowing

The Worthington Mower Company, Stroudsburg, Pa., has issued a circular on "Night Mowing" giving illustrations of an outfit used at the Chicago Golf Club during the Walker Cup Matches last year. It is accomplished by the use of both front and rear searchlights and has been very successful.

This system of night mowing with Worthington's mowing equipment was first used by George Sergeant at the Scioto Country Club during the U. S. Open Championship in 1926.

Triumph and Victory

The Jacobsen Manufacturing Co., Golf Dept. 11, Racine, Wisconsin, manufactures of the famous Jacobsen power putting green mowers is justly proud of the record it has made in the golf field. People said "it can't be done" and every discouragement was thrown in their way but they persevered until their claim as leaders in the field is well substantiated.

Mr. O. T. Jacobsen, head of the company is a good mechanic and his father was before him and nothing less than bullheaded belief that he was right coupled with conscientious, painstaking care in design and manufacture has brought Jacobsen out on top.

It will interest greenkeepers to see a new circular recently published by this company, which will be sent for the asking. It describes and illustrates their splendid products in many phases of work.
Toro's Complete Line

As usual the handsome illustrated catalog of the Toro Mfg. Co., 3042-3160 Snelling Ave., Minneapolis, Minn., carries within its covers photographs and descriptions of its complete list of golf course equipment. The policy of this company is to keep abreast of the times and every year sees something new added to its already extensive line, based upon the experience of the previous season.

The Toro catalog this year displays the new power putting green mower with its light weight, 4-cycle motor and eight-blade cutting reel. It is built in one size only—19 1/4 inch cut—with full length rollers front and rear to prevent scalping on undulating ground. The material and workmanship is fully up to the Toro standard.

Another new item is the Toro Junior tractor with dump box body, which is equipped with a Ford 1930 Model "A" Heavy Duty engine and gives speeds ranging from four to twenty miles an hour. The wheel base is 98 inches and the total width is 78 inches.

The Toro Junior tractor is an excellent supplementary machine for eighteen hole courses and as an all-around general utility machine for nine hole courses, because it has such a wide range of usefulness. Field tests have proved that the new Toro tractor will climb a 30 per cent grade with a full body load.

The Toro catalog is really worth while and should be in the files of every greenkeeper and Green committee chairman. It will be sent free upon request.

Seeds of Success

Every year brings a new catalog from J. Oliver Johnson, Inc., Morgan-Huron-Superior Streets, Chicago, Ill., under the title, "Seeds of Success". This catalog not only deals with grass seed, but covers a complete line of golf course equipment of every description, as well as fertilizers, top dressings and disease killers.

Functions of the three plant food Elements

(Continued from page 16)

permanency of the turf. Further, a histological study of the cell structure of grass should be made under various fertilizer treatments. Do repeated applications of nitrogen weaken or strengthen the cell wall? This information is of value in determining the relation of fertilizer treatment to resistance to disease and attacks of brown patch. I thank you.

High Spots of the Convention—(From page 9)

the Annual Convention in token of the remarkable services they have rendered for them. Both Mr. Morley and Mr. Burkhardt were among the original organizers of the Greenkeepers Association at the first meeting held at the Sylvania Country Club, Toledo in September, 1926.

John Morley, president of the Association pronounced the Annual Banquet at Louisville the best ever held by the Association. George Davies, chairman of the Entertainment committee and his associates were highly praised for the efficient work they did not only at the Banquet, but throughout the entire week.

Harry Burkhardt, chairman of the Registration committee reported a considerable increase in attendance over last year's Convention in Buffalo. He sprung an innovation this year by issuing three sets of badges—one for members of the Association, one for Exhibitors and one for Guests.

"Bill" Farnham, sports writer of the Herald Post, Louisville after noon newspaper who handled the newspaper publicity for the Greenkeepers' Golf Show and Convention has been appointed Publicity representative of the National Association of Greenkeepers of America. The appointment was made by President Morley.

George Davies, the Louisville live wire, sprung a unique surprise on the greenkeepers with his reproduction of a one-shot hole in one of the booths of the Golf Show. It was completely turfed from tee to green with grass which he grew in a greenhouse, had a creek with water in it running across the fairways between the tee and the green, and was dotted with trees and miniature figures to give it a realistic appearance. This unique achievement was one of the high spots of the week.

A Live Wire

By Robert E. Power

THIS is the first picture we have ever seen of "Lew" M. Evans sitting down. Just how the photographer kept him quiet long enough to get this photo is indeed a mystery. For "Lew", let it be known, is a live wire and about the busiest boy in the "Big League" of greenkeepers.

Some months back wise old John Morley made him National Organizer of the National Association of Greenkeepers of America. He had John Quail buy him some postage stamps and a couple of new pairs of shoes. Since that time Lew has been burning up the trails leading to the lairs of languid greenkeepers.

So here's fair warning, one and all. If Lew Evans gets on your trail you better join up because you will never get a minute's rest until you do. And you will be glad of it some day and will thank Lew for making you do it. Your club will thank you too because golf officials generally are fast becoming convinced that the National Association of Greenkeepers of America is doing more good for golf in a constructive way than any other agency in the world.