When Brown-Patch Appears
(Continued from page 21)

Uspulun or Semesan. However, it has a decided advantage over these preparations in its effectiveness in bringing up earthworms, in addition to lower cost. Its use, however, must be restricted to cooler weather or to courses where more than average care is exercised in applying chemicals to greens.

During the past season it was found at Arlington that calomel was valuable in controlling brown-patch and promised to become a valuable chemical for greens. It will be widely tested during the present summer and we shall soon know how generally it may be recommended for golf course use. No attempt will be made to give here the rates for applying these chemicals. The companies who sell them have followed closely the tests at the Arlington Turf Gardens and the recommendations made as a result of these tests are generally those given in the directions sent with these chemicals.

In general it may be stated that none of the mercury mixtures will prevent brown-patch for any definite period. The period of prevention following a treatment will vary from a couple of days to several weeks, depending on the severity of the disease, rainfall, temperature and probably many other conditions which are as yet not determined. These preparations may be applied in larger quantities than are usually recommended and will usually give longer protection for the larger amounts.

However, this increased protection does not increase in proportion to the increase in cost. Thus if one pound per 1000 sq. ft. will protect a green for 2 weeks it does not follow that 2 pounds will offer protection for twice that time; instead the additional protection is usually little more than a few days and therefore it is economical to use the lower rate of 1 pound.

On the other hand a smaller quantity than is usually advised will check the disease under most conditions and many greenkeepers will find that the cost of the treatments can be greatly reduced by using smaller quantities. If one reduces the amount of material too low the applications will have to be so frequent that savings in cost of material will be more than counterbalanced by the increased labor costs of repeated applications.

DON’T FORGET

to send in all information possible covering attacks of SNOW MOLD on your course.
Please mail complete reports to Association headquarters,
405 Caxton Building, Cleveland

Say you saw the ad in The National Greenkeeper
Meeting the Acid Test

Any day of the season, the tractor-drawn PENNSYLVANIA Super Fairway Quint saves time and money on the mowing job and improves both working and playing conditions.

But it is in the acid test of mid-summer—with its crowded links and frequent tournament play—that the Super Fairway so fully justifies its PENNSYLVANIA Quality construction by staying on the job and out of the repair shop.

Write for Golf Catalog, describing the Super Fairway, as well as the Improved 1927 Model Super Roller Greens Mower and the other PENNSYLVANIA Mowers for Golf Courses.

PENNSYLVANIA LAWN MOWER WORKS

TEN SUPER FAIRWAY FACTS

1. Through a unique lifting device, the operator alone can raise the two outboard units, and thus permit the Quint to pass through narrow spaces.
2. Will cut all the fairways on any average 18-hole course in less than two days.
3. Ingenious swivelled attachment permits each mower to follow exactly the contour of the ground it covers.
4. Frame supported on two separate ground wheels.
5. All bearings and gears in dirt-proof, oil-retaining housings.
7. Removing two bolts changes the Quint to a Trio.
8. Each mower may be raised separately. Automatic clutch idles or engages cutting cylinders as they are raised or lowered.
9. Mower units interchangeable—will fit in any position.

PENNSYLVANIA QUALITY LAWN MOWERS

The Improved 1927 Model Super Roller Greens Mower.
Month by Month With the Trees
(Continued from page 24)

floral or the vitality of the tree is so reduced that it becomes an easy prey to one or more of its other enemies.

Most Leaf Diseases Controlled by Spraying

Besides the diseases mentioned in the preceding paragraphs, there are many leaf spots and blotschés which although not ordinarily serious, do destroy the beauty of the trees and give the owners material concern. There are hundreds of fungi causing these various spots and blotsches and most of them have been so little studied that practically nothing is known of their lives and habits. One of the best known of these diseases is the leaf blotch of horse chestnuts which usually puts in its appearance about the middle of July. Large areas of the horse chestnut leaf turn brown and die and sometimes when the leaf is badly diseased, it falls off.

Fortunately many of the leaf diseases can be controlled by spraying with a sulphur or copper solution properly mixed and applied. The time of the spraying depends almost entirely on the life history of the fungus. After it has once gained entrance to the leaf, spraying will do no good. In order to control leaf diseases, it is necessary to get the spray on the leaves before the fungus has attacked. Then the moisture, which is necessary for the fungous spores to germinate, dissolves some of the spray material and when the spores do germinate they find themselves in a copper or sulphur solution which proves fatal.

The more one is informed of the troubles which beset trees the more one is amazed at the health and vigor possessed by most of our beautiful specimens. At the same time one realizes that in order to keep that health and beauty permanent, all possible assistance must be given to the trees in their struggles to overcome their enemies.

Plant Your Native Trees
(Continued from page 29)

flowers. This is a perennial and should be lifted every few years and the clumps divided. This should be done after it is through blooming.

Most all shrubs are grown from cuttings so with a little extra work a greenkeeper may have a shrub nursery along with his grass nursery, which will supply him with shrubs for any purpose on his golf course.

Do you buy Grass Seeds by Sample or Price?

Ask us to quote you on your Fall Seeding, with New Crop Samples.

Henry A. Dreer

Say you saw the ad in The National Greenkeeper
NEW ROYER COMPOST MACHINE

The New Type "K" Royer

Smaller, lighter, easily moved by one man to any part of the course.
Any golf club can well afford to have this new machine.
Capacity about two-thirds of the original Royer.
Will shred and mix sufficient compost for an eighteen-hole course economically and efficiently.
Operates like the original Royer, just a smaller model.

Let us tell you about it

L. F. MITTEN
820 Miners Bank Bldg. Wilkes-Barre, Penna.

One of the twenty-seven tee benches at Progress, built by club labor

sturdy type, and are made of oak grown on this property.

While this exploitation of casual labor may not in all cases be commendable, I have assuredly found it of infinite time and money saving value, but perhaps its greatest recommendation to me is that it has made my men share to the fullest with me my pride in my job—they feel they have all had a perfectly obvious and indispensable share in the creating of one of the most picturesque courses in Westchester County.

Staude Golf Course Tractor with steel dump body, capacity one cubic yard. Price only $495.00

Staude Golf Course Tractor easily pulls five 30" cutting units, rollers, hay mowers, trailers, etc. Price only $420.00

Staude Golf Course Maintenance Machine consisting of Tractor, underneath hitch, three 30" cutting units. Price only $695.00

Why pay more—when more than 1,000 Golf Clubs use the Staude—It must be good—Every user a booster—Machines fully guaranteed, nothing better at any price—Write today for our prices, etc.

E. G. STAUDE MAK-A-TRACTOR CO.
2630 University Ave.

Say you saw the ad in The National Greenkeeper
What Do Your Green Men Know?

(Continued from page 16)

are cut, he mows the approaches and trims around the greens and tees. Once a week he rolls his greens.

I might also add that we have two tractor men, a night water man and two extra men for odd jobs. Either of these extra men can care for greens, if necessary. One of the tractor men is the foreman and he also can change the cup when necessary. One of the green men and one of the extra men can run a tractor, if necessary, and one of the extra men can handle the night water job, if needed.

When it comes to topdressing the greens, every man gets on the job and it seldom takes more than a day and a half. The topdressing is screened and hauled to all the greens in one day. The next day we start spreading the topdressing. As soon as that is done on one green, the Sulphate of Ammonia is broadcast on top of the dressing. Then it is dragged in with a steel mat and watered. I believe this is a much quicker way and I have found it just as satisfactory as mixing the ammonia and then putting it on. This course is three years old and most of the original men are still here and they all pull together. I believe it pays to inform your men and help them in every possible way, for it will come back to you in the form of more and better work and everybody will be happy and contented.

BROWN-PATCH, the bane of all greenskeepers, and the stumbling block to many a par score, need no longer be accepted as a necessary evil.

NOW, you can cure Brown-Patch almost as quickly as it sets in. You can even prevent its appearance throughout the entire season.

THE SECRET is USPULUN NU-GREEN. Never before has there been an effective and reliable Brown-Patch remedy. It will positively cure this dreaded disease in from three to five days—or prevent its appearance in the most humid weather.

NO DANGER of burning the grass. No application of fertilizer needed after using USPULUN NU-GREEN. Leading golf clubs are enthusiastic over this new treatment.

YOU, TOO, will be amazed at the results—and proud of the appearance and perfect condition of your greens—if you treat them with USPULUN NU-GREEN.

At leading Golf Supply Houses or

THE BAYER COMPANY, INC.,
Agricultural Dept.,
117 Hudson St.,
NEW YORK CITY
luncheon at the clubhouse, Mr. Charles Jarman, greenkeeper at Brookside, acting as host.

The first feature of the program was a talk on Upulun “Nu-Green,” by a representative of the Grasselli Chemical Company, which was very interesting and covered several reports of its successful use on various estates in and surrounding Cleveland. A discussion of the high cost of mercurial products used in the prevention and cure of brown-patch followed, and it was explained that owing to the continued shortage of supply the price of raw mercury has steadily increased. Several of the mercury mines in California have been shut down for long periods during the past few years.

Demonstrations of the Jacobsen power putting green mower, and the Toro hand putting green mower next occupied the attention of the assembly, and the work of both was clean and efficient. It was as much a demonstration of open-minded, clear thinking, clean competition as it was an example of what each mower can do.

Retiring to the shade of a large elm, the members gathered for an open discussion of the habits of Poa annua, which was announced by Mr. Fred Burkhardt, Vice-president of the organization. It was the consensus of opinion that there is much to be learned about this grass, which by some greenkeepers is encouraged, and by others treated as one of the worst weeds encountered on a golf course. A suggestion on the part of Mr. Burkhardt was to the effect that by taking plugs out of healthy Poa annua turf just prior to its cessation of seeding, and setting them into other turf free from Poa annua, the habits of this grass can be studied with better results and more definite information gained during the so-called dormant period.

President John Morley was unable to be present on account of an important tournament at his club, and many expressions of regret were heard among his good friends of the Cleveland district.

All present were impressed with the beauty of Brookside Club course, situated as it is among the hills and dales of Canton, opportunities for a sporty lay-out were offered by Mother Nature with a free hand. The result is satisfying to the golfer, and from every tee beautiful views meet the eye. Clumps of large trees of many varieties, natural water hazards, and the undulating contour of the grounds all combine in giving the membership a course that is well worth playing over.

The date of the next meeting was set for the first Monday in August, and will be held at the Wooster Country Club, Wooster, Ohio, where Mr. M. M. Parsons is greenkeeper. The Wooster Experimental Station has extended an invitation to local greenkeepers to inspect the plots of turf in the State experimental gardens, therefore the coming meeting bids fair to be one of the most valuable of the season.
The 18th Green at Oakmont Country Club, where U.S.G.A. Open Championship was held this year
Grass Seed for this course supplied by the Stump & Walter Co. for many years

For the Most Enduring and Finest Turf Sow

BENT GRASSES

Sow Bent on Your Fairways and Lawns! The extreme fineness and beauty of turf produced from Bent Seed are well known and its superiority for use on the golf course is recognized, but owing to the high cost of this seed for a number of years its use was restricted to small areas, such as putting greens. Now that the cost is more in line with other grasses, it is practical to sow Bent on your Fairways and Lawns. Carefully distributed, 100 lbs. of Bent Seed used alone will sow an acre of land. If used in a mixture with other varieties, such as Blue Grass, Red Top and Fescue, we advise that 20 per cent of the mixture should be Bent Seed.

For Early Fall Sowing We Offer

Grass Seed of Known Quality

TESTED for PURITY and GERMINATION

South German Bent Seed. A natural mixture of Bent Grasses, formerly and still known as Creeping Bent. Long recognized as the leading turf producing Bent. Produces turf of exceedingly fine texture.

Fine Quality . . . . 10 lbs. $18.00, 100 lbs. $175.
Superfine Quality . . . 10 lbs. $22.50, 100 lbs. $200.

Cocoos Bent Seed. A strain of true stoloniferous (creeping) Bent, producing splendid turf of pleasing color and hard wearing quality.

10 lbs. $22.50, 100 lbs. $200.

Rhode Island Bent Seed. (Washington Grown) A pure strain of Rhode Island Bent Grass, of strong vitality, producing excellent turf, especially on moist land.

10 lbs. $15.00, 100 lbs. $125.

Prices, on larger quantities of the above, or other turf producing grasses, such as Kentucky Blue, Fancy Red Top, Sheep's Fescue, Rough Stalked Meadow, Bermuda Grass, Special Mixtures, etc., on request.

—All our seeds are of the highest quality, obtained direct from the most reliable sources of supply and are botanically true to name. All seeds are new and are cleaned and re-cleaned until they are brought up to the highest possible state of purity and germination, special care being given to the elimination of weed seeds.

POA BULBOSA—the new grass that is helping solve the problem of winter turf in the South and which when once established with Bermuda Grass will last indefinitely and the two make a permanent all-year-round turf.

Stump & Walter Co
Specialists in Golf Grass Seeds and Equipment
30 and 32 Barclay Street
New York City

Say you saw the ad in The National Greenkeeper
Vegetative Planting
(Continued from page 26)

Vegetative planting is the method of propagating grass turfs by stolons or runners. It is a method of obtaining a permanent sod of grass which is continuous and which is capable of withstanding extreme variations in the environmental conditions. It is a method of growing grass which is not only more certain than the method of seeding, but which also has the advantage of producing a turf of uniform texture and color, and which can be maintained in good condition for a much longer period of time than can be obtained by means of seeding. The advantage of the method of vegetative planting over the method of seeding is so obvious that it is surprising that it has not been more generally adopted. It is a method which can be carried out under the most adverse conditions, and yet it will produce a turf of high quality. No other strain has a more attractive color. None does the Washington, or to keep in such good condition the ability to grow under such adverse conditions as no other strain has. Good turf at certain seasons of the year or under favorable conditions for grass growing. None however, has good turf at certain seasons of the year or under favorable conditions for grass growing. When it comes to thriving under use and abuse, the Washington is in a class by itself. The use of the Washington strain has pushed the line of successful creeping bent growing far to the south and west of where it was thought possible a few years ago for any creeping bent to survive the heat of the summers. It has been tried in comparison with several other strains at the Missouri Botanical Gardens at St. Louis and by the Kansas Experiment Station at Manhattan, Kansas and in both instances it has proved its superiority over the others. It is doing splendidly at Knoxville, Tennessee, and there appears no valid reason why it should not do well anywhere in the cotton belt if given ordinary care during the summer.

The Metropolitan resembles the Washington in many ways. It is a little lighter in color and finer in texture. There is also more of a tendency to upright growth. On rich lands of the North Central States it makes a wonderful turf. It will not survive heat and drought as well as will the Washington but its fine close texture makes it a favorite where it can be grown.

The Pro and Con of Stolons and Seed

The question is often asked “What is the future of vegetative planting?” From all indications at the present time this method of planting turf is steadily growing in popularity in the middle west and south of the Ohio River. Most of the new courses in the north and east are using stolons for their greens but there seems to be a falling off in the number of courses that are changing their seeded greens to creeping bent by the vegetative method. While tried out thoroughly, vegetative planting has never become popular on the Pacific Coast. This is largely due to the fact that the eastern strains of bent which have been used for planting are not adapted to an all-the-year-round climate. And then too they have a creeping bent grass out there which comes from seed which makes better turf than any of the strains of creeping which are planted vegetatively. The demand for stolons for lawns is increasing rapidly. The ease and cheapness of upkeep of this kind of turf appeals to the pocket-book as its attractive appearance does to the eye. Vegetative planting of creeping bent appears to have become established as a permanent factor in the production of fine turf in this country.
JOHNSON'S SPRINKLING CART

阀操作从手柄

Price $35.00

SEED

JOHNSON'S DUMP CART

FERTILIZERS

Ammo Phos
Poultry Manure
Sulphate Ammonia
Milorganite
Urea

TORO EQUIPMENT

BUCKNER SPRINKLERS

BOSTON HOSE

SEMESAN

We have a stock of UREA

J. OLIVER JOHNSON Inc.
The world's largest Golf Course Equipment House

Morgan-Huron-Superior St.

CHICAGO

Pebble Beach

(Continued from page 5)

ing the sulphate of ammonia and corrosive sublimate and putting them together with good results, but changed from once a month to twice a month. The watering of our greens every morning leached the chemicals out in less than a month. We cut down on the sulphate of ammonia from 20 pounds on an average green to 10 pounds and the corrosive sublimate remains the same, just as strong as the green will stand it. I think that we will be able to use calomel and broadcast it in the winter, and will look forward to the time that we can control brown-patch, summer and winter.

Since 1875

TESTED Radway's SEEDS

We have on spot new crop
CHEWINGS FESCUE N. Z. 99%
BENT GRASS SO. GERMAN
BLUE GRASS — RED TOP — WHITE CLOVER

Ask for Sample Offers
I. L. RADWANER SEED CO., Inc.
11 WATER STREET
NEW YORK
Phone Bowling Green 3373
Seed Importers and Refiners

Changed to FAIRWAY after Exhaustive Comparisons!

"We are very much pleased with the 3,000 feet 1" Fairway recently purchased. On the strength of an actual test with seven or eight other brands of Hose we changed the piping of our entire water system so as to use 1" Fairway. In the test other Hose burst at 70 and 80 pounds water pressure and the pressure was run up to 100 pounds and better on Fairway and it showed no signs of weakening anywhere."

THE REPUBLIC RUBBER CO.
Youngstown, Ohio

Say you saw the ad in The National Greenkeeper

The R. H. TRACTOR

Designed by a Golf Course Mechanic

R. S. HORNER, Mfr.
GENEVA, OHIO
Manufacturer of R. H. Square Shoulder Tractor Wheel Spuds also Wide Tired Wheels, Radiators, Pulleys for Ford Trucks. Circulars and Prices on Request.

6 SPEEDS
Our Message to You

Some of you have seen Bent Nurseries, we wish you could all see ours.

More than five hundred greens will be planted with our Improved Washington Strain of Creeping Bent this fall.

Every bag of stolons furnished will be from absolutely clean nursery rows, free from clover and weeds and less than one year old. Not a drop of artificial watering or an ounce of fertilizer has been used on our nursery stock. You know what that means.

Talk and claims convince no one. Come and see our Nursery, see our equipment and let us tell you what we expect to do for the clubs who patronize us.

BENT GRASS COMPANY
HOOPESTON ILLINOIS

"When there is a better strain of Bent, we will grow it."

Classified Advertisements

Golf Club Officials who wish to secure greenkeepers, assistant greenkeepers and golf course mechanics, will save time and money by writing our Employment Bureau at 407 Caxton Building, Cleveland, Ohio.

Advertisements under this heading $1.00 per 20 words, 4 cents per additional word.
This column is operated in connection with the Employment Bureau of the National Association of Greenkeepers of America.

Classified Employment

GREENKEEPER with 25 years' experience wants good position. Box 152, this magazine.
GREENKEEPER desires position. Exceptional experience construction and maintenance. Ohio preferred. Box 153, this magazine.

NEW FIELD
Profitable side line for salesman. Rapid growth of golf and Bent Grass business, also commercial lawn grass seed has opened rich field for live wire salesman. Every club, private estate, hardware dealer interested. We have a position for a man with or without experience. Write stating qualifications and give reference. Box No. 157.

SUCCESSFUL greenkeeper now employed desires change to more progressive club. Understands every phase of golf construction, maintenance, soil, water and machinery, and have ability to handle help, also experience in landscape architecture and nursery. Age 47. Can go anywhere. Box No. 160.
EXPERIENCED greenkeeper will consider position for 1928. Club must desire modern efficiency and the best to interest me. Box No. 161.
POSITION wanted as greenkeeper. I am not looking for a snap but must be a real man's job where club wants highest type of results. Box No. 162.

NOTICE

Greenkeepers who desire to secure positions through the Association Employment Bureau should submit with their applications an account of their experience, proper references and approximate amount of salary requested.

The Classified Advertisement column of THE NATIONAL GREENKEEPER offers a suitable medium through which applicants for positions as greenkeepers, assistant greenkeepers or golf course mechanics may get in direct touch with opportunity.