

How I Control Brown Patch

Second of series of prize winning stories by expert greenkeepers. These are considered the most comprehensive articles on the subject ever published

JOHN PRESSLER

Allegheny Country Club, Sewickley, Penna.

BROWN-PATCH is caused by using too much fertilizer, too much topdressing, too much watering and if you won't correct this or rather these three things you will have brown-patch.

July and August are two bad months to topdress. I have grass tennis courts that have not been topdressed for twenty-five years and are just as good as any of my greens.

What is the use of using chemicals when you get brown-patch just the same. Chemicals will not stop brown-patch if you don't correct the first three reasons.

Visit some poor nine-hole golf course where they have no money to waste on topdressing, fertilizer, and watering and you will see that you never find brown-patch.

Here is something to think about.

Now how to keep your greens in first-class condition.

For twenty-five years I used 100 pounds bone meal to each green in March, that was all the fertilizer all year, no topdressing, and the only fault I found with this system was too much crabgrass.

In 1926 I started to use 6 pounds sulphate of ammonia to each green from the first of March to the last of October per week, no bone meal or topdressing with this system. My crabgrass, chick weed all disappeared.

My greens are in first-class condition, never take grass clippings of greens—that is why I don't topdress. Always topdress a new green the first year.

E. A. SWANLUND

Rochester Country Club, Rochester, Minn.

IN VIEW of the fact that there are posters and a reward out for Mr. Brown-Patch, we'll all have to go after him most energetically, using all the vim and vigor that is in us.

For the past three years I have worked on one method in combating this enemy and have succeeded to such an extent that he has not visited my premises, for which I am not the least indignant. This might have been luck but, nevertheless, my intentions are the same this season to ward off the hated pest, Mr. Brown-Patch, and I would like to see someone else try this.

From the first of April each year I topdress every three or four weeks with compost and sulphate ammonia. My first topdressing in the spring is rather heavy, using from one and one-half to three yards per green of compost and twenty to forty pounds of sulphate ammonia. After this I cut this amount in half and do likewise with all following topdressings. The above mixture is rubbed into the roots of the grass, after which the grass is

watered. There is no danger of burning if mixed and well-washed.

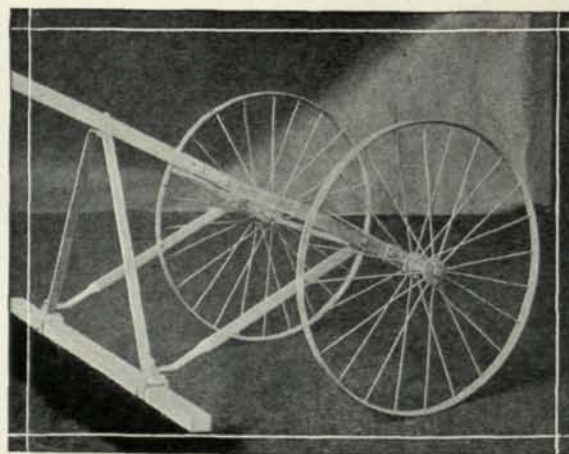
Our brown-patch season being from the middle of June until the first of September, I use sulphate of ammonia in liquid solution between each topdressing. For spraying, Charles Erickson's sprayer is used. This sprayer is very easily manipulated and a good job is the result. Spraying is done in the evening after the sun is down and two men can easily do nine greens in a few hours. As a result of this, the greens are in perfect condition and this gives them food on which to live and from which to resist all abuse and disease. I do not believe in using chemicals. The less used, the better, is my policy. Treat the greens as you would treat yourself, with plenty of good wholesome food and water.

CHAS. KESSELRING

Washington Country Club, Marietta, O.

IN FACT it won't take a long story to give my experience with brown-patch. I have been assistant greenkeeper at the club I am now at for three years, and

THE MacGREGOR COMPOST BRUSH



What A User Says:

MacGregor Compost Distributor Co.,
Wheaton, Illinois.

Gentlemen:

Two years ago I had the pleasure of visiting the Chicago Golf Club, Wheaton, Ill., and I was deeply impressed with the methods used in getting the soils for top-dressing worked into the turf, by the use of a compost brush.

Having used several devices for working the compost into the turf, which have not given me good results, I tried out the MacGregor brushes, and I feel, owing to the good results which I have received from them, I should acknowledge my appreciation to you for the service that the two brushes which we received from you have given.

Yours truly, (Signed) John Morley, Greenkeeper,
Youngstown Country Club, Youngstown, Ohio

Write for Literature—We Now Sell Direct

MacGREGOR COMPOST DISTRIBUTOR CO.
P. O. Box 717 WHEATON Illinois

"PAR BRAND" THE NEW WATER HOSE

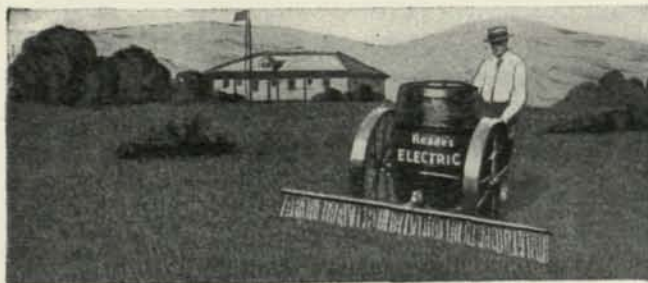
A Water Hose with Corrugated Smooth Cover—new corrugation so constructed that it will not rough up the Greens and still reduces kinking to a minimum.

This hose has a cover of extra thickness, two plies of cord and heavy tube. Plies will not separate. On 1-inch sizes and over, we use extra long shank couplings which prevent blowing out.

Immediate deliveries along with Reels and Sprinklers.

The
Philpott Rubber Co.

1381 West 3rd St. CLEVELAND, OHIO



"30 Quarts of Worms!"

"We applied the "ELECTRIC" Worm Eradicator on one green this morning and got 30 quarts of worms from an area of 8,000 square feet."—E. T. Starr, Manager Buck Hill Golf Club, Buck Hill Falls, Pa.

Prevents "Brown Patch"—Discourages Weeds

On over 500 Golf Courses, "ELECTRIC" Worm Eradicator is recognized as the safest and most effective method of preventing worm casts on putting greens. It also stimulates and fertilizes the greens, protecting them against "brown patch" and discouraging weed growth.

Order Now—We Ship On Approval

We ship "ELECTRIC" Worm Eradicator in 5, 10, 15 and 50-gallon containers. Each gallon makes 250 gallons of solution, enough to treat 3,000 sq. ft. Price, \$3 per gal., f. o. b. factory. Measure and glass jugs for handling included free.

With orders for 10 gallons or more, we supply the Sprinkling Cart, shown above, at cost price, \$35.00.

Reade Manufacturing Company

195 Hoboken Ave., Jersey City, N. J.

ELECTRIC WORM ERADICATOR

Say you saw the ad in The National Greenkeeper

our "pro" was greenkeeper, so therefore the greenkeeping work fell to me.

The second year we had what is called the large brown-patch, but not to any great extent. Five of my greens which are of the Washington bent were affected, but two applications of Pryex was all the treatment required to stop it, and then last year on four of our greens we had the dollar patch, and this I treated with Calogreen, and two applications was all we needed for that.

Since that time I have had no more trouble with either kind, therefore, I am not prepared to give much light on that subject. But I am making a thorough study of what my brother greenkeepers are writing on this subject, as I presume that at some future time possibly some near future I may be greenkeeper at some club that is not so fortunate as the club I am now with along that line.

LAWRENCE HUBER

Elks Country Club, Worthington, Ohio

I DON'T know in your question, (How I control brown-patch) whether you mean entirely or part of it. I have read where several greenkeepers claim not to have any trouble by using the different mercury compounds, but I have tried several of them and still have brown-patch in the large form.

My best method of control either in the large or small brown-patch is to topdress the greens affected as soon as you find any trace of the disease, with compost and fifteen to twenty pounds of sulphate of ammonia added to the top dressing and water as well. In a few days all traces disappear.

In severe cases where I have spots that are slow in recovering I go to the nursery and get plugs and cut out these spots and plug new sod in. I have different size hole cutters for this work.

One of the things that also helps to control brown-patch is early morning watering. I noticed this especially on greens that were watered by our night man in the morning hours. However, it is hard to have them all watered at the same time. Last season I used Calomel regularly in each topdressing once a month and I noticed we had less brown-patch than ever before, although we had some, but it was less severe.

I think this a very interesting question and I hope to read other greenkeepers' answers in the NATIONAL GREENKEEPER.

WM. McMILLAN

Harrison Hills Country Club, Attica, Ind.

MINE is a nine-hole course and my greens were infected with small brown-patch last year. I was unfortunate in not having on hand some of the recognized disinfectants for the control of this disease, but the following method I'm sure proved beneficial.

The dark ring around the patches showed the fungus very active. I first cut my greens close and catching the clippings and all the infected blades of grass I could. I then applied ammonia sulphate in its own powdered form not in topdressing at the rate of three pounds to one thousand feet and watered in and I was really convinced this checked the disease to a large extent. In the

meantime I sent for a supply of Calogreen, but it was two (2) days later before I applied this and I couldn't notice then where the disease had spread very much. I then applied Calogreen in solution at the rate of one-fifth pound to one thousand feet and the disease disappeared in a few days and the greens were back in a healthy state again.

Knowing the fungus is a disease affecting the blades of grass mostly, nevertheless I noticed a decided check after applying the sulphate of ammonia as a stimulant when the turf in that state was very beneficial.

The one application of Calogreen was sufficient to remedy a cure in my case as we had been having a dry spell at the time. After treating all my greens the same way I toppedressed and came out all right and healthy if this is of any interest.

JAMES A. SMITH

London Country Club, London, O.

FOR several years I have been greatly interested in the prevention of brown-patch rather than in its control after appearance.

I have watched carefully over a period of five years the development of more than five million square feet of good, finished bent and invariably found that when at least a five inch rootage existed due to good physical soil conditions, brown-patch had never affected the planting. Where there has been immunity, deep rootage had so nourished the turf that its healthy and rapid growth could not be seriously impaired by this fungi.

Practically all brown-patch I have examined has been found upon shallow rooted turf, in comparatively poor soil and the soil of such a texture that the easy passage of water and air to a depth of five inches was impossible.

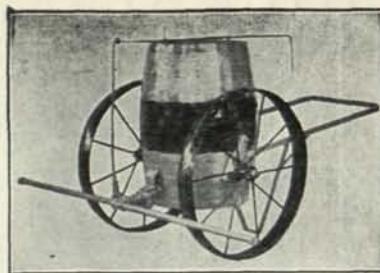
If this is true, the solution is one of better greens construction in the top five inches. We must remember that bent grass requires at all times abundant moisture to the depth of its rootage. All feedings used by turf must pass through this rootage as it takes up moisture, and its depth and the presence of proper bacteria surrounding it decide the character of the turf development. Artificial nourishment may stimulate momentarily its growth, but there is invariably a reaction effecting the bacterial life in the soil and a tendency to shallow rootage because of surface feedings.

Healthy and immune "Washington Strain" bent should have a rootage of from eight to ten inches and natural feedings from the soil bacteria sufficient to make the use of ammonium sulphate or other artificial feedings unnecessary. Their need as feedings is largely due to impaired aerobic bacteria which have been denied sufficient air and moisture. The greater the turf weakness, the more likely that brown-patch will get a foothold. This fungi does not thrive where healthy conditions of turf oppose it.

A tendency to turf coarseness from an excess of natural feedings can be corrected by the character of top dressings used.

Improperly nourished turf like improperly nourished children are liable to disease because of lowered vitality.

Grass Seeds GET OUR PRICES Fertilizers



CLEVELINE SPRINKLING CART

An improved sprinkling cart for applying fertilizers in solution and for the application of Semesan, Uspulun, etc. to the putting-green. It is a fifty gallon hard wood barrel mounted on four inch CONVEX tired wheels so that it can be turned on the green without injuring the finest turf. It is fitted with a brass valve that can be turned on and off by the operator from the rear. The boom has a spread of over six feet and is drilled with 103 one-eighth inch holes $\frac{3}{4}$ of an inch apart to assure an even penetrating flow. This cart will empty itself in about one minute. The construction of this cart is extremely rugged and should last many years.

CLEVELINE STEEL FLAG POLE

A light weight steel flag pole that will not warp, tapered at the end to fit any size cup. These poles come finished in a heavy lacquer, red tipped in black, and orange tipped in black. These are a very durable and attractive flag pole and are the greatest value on the market.



CLEVELINE FLAG SWIVEL

A bronze rust-proof wire swivel which may be attached to any wooden and to the Cleveline Steel Pole. This device will prevent the flag from wrapping around the pole. It can be easily attached by slipping the large loop over the pole and screwing the small loop to the top of the pole.

Write for our 32 page Illustrated Catalogue on Supplies and Equipment

GOLF COURSE SUPPLY COMPANY

3049-51 Carnegie Ave. - CLEVELAND, OHIO

A. E. FLACK

H. J. STREICH

Royer Compost Mixers



"A Model For Every Need"

What a Royer User Says:

Hawthorne Valley Golf Club
Bedford, Ohio

Mr. L. F. Mitten

Last Spring I bought one of your Model "M" Machines for our Hawthorne Valley Golf Club, and can recommend it most enthusiastically. It handles all kinds of soil and material very rapidly and in a really wonderful manner. No golf course can afford to be without one.

Very truly yours,
(Signed) Frank H. Pelton

*Save money for your Club
Make Better Compost*

L. F. MITTEN

820 Miners Bank Building
WILKES-BARRE, PA.