

I would pick up stolons and replace and top-dress in. It eventually stopped raining and I have never planted greens which grew so well and developed so fast.

This has been a bad year on new greens as well as old, but a perfect year for weeds. I turned the greens in for play August 15. They were filled in beautifully. I weeded these greens once only and at the present time there are no weeds of any kind.

After the stolons had stayed put for a week or ten days and had started to turn green the chairman of the Green committee called me and said he had never seen anything so remarkable. He had expected to spend \$125.00 on each green again for new stolons.

### Corrosive for Worms

By JOSEPH FOEGER, *Greenkeeper*

*Ozaukee Country Club, Thiensville, Wisconsin*

**I**N ANSWER to your letter of October 1, I wish to tell you of my experiences of the past season. We had some brown patch and used Nu-Green to treat some but was not very successful; so used Semesan instead with very good results. I think too much sulphate of ammonia is often the cause of brown patch. It makes the grass grow too quickly and so is too soft to withstand the brown patch.

We had no crab grass and hardly any chick-

weed this year. Our greens were covered with same just a few years ago. Have been using arsenate of lead for the last two years. I am not using it as strong as recommended, only about ten pounds to the average green using a power sprayer. This also takes care of the worm situation.

Am enclosing a picture that I took three years ago when I used some corrosive sublimate to treat the worms. You can see at a glance how thick they were. Before using arsenate the worm casts were so thick you could not walk on the greens without stepping on some.

We built six new tees, two bunkers, rebuilt five bunkers, all of this being done with the regular crew of fourteen men. Also had a lot of extra work getting things in shape for the Western Open Tournament which was held August 21 to 24 with the greatest success.

### Snow Mold at Winnipeg

By A. W. CREED

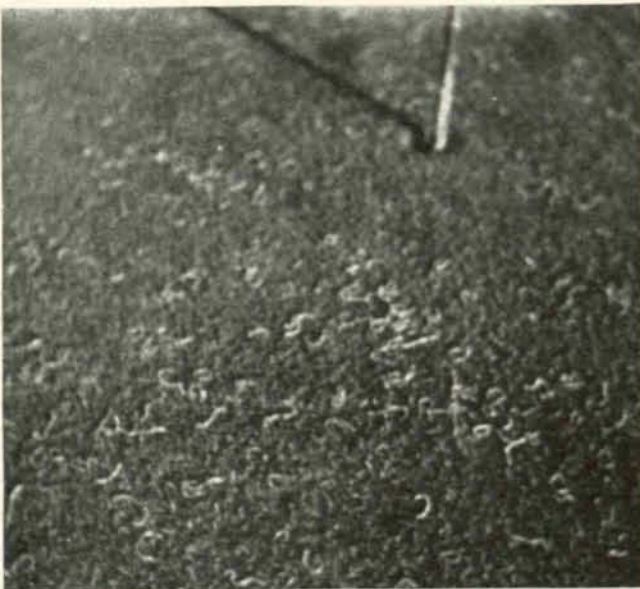
*St. Charles Country Club, Winnipeg, Manitoba*

**B**EING a Charter member of the N. G. A. of America, I want to congratulate the capable body of officers for the business-like and efficient manner in which the Association is being carried on and I am sure the results obtained so far in such a short space of time are a credit to their organizing ability.

Am now situated quite a distance from my fellow greenkeepers whom I knew personally when in Detroit, being assistant to the well-known greenkeeper Mr. H. E. Shave of Oakland Hills Country Club, leaving there to take up the position as head greenkeeper here in Winnipeg.

Conditions here are much more severe in the Spring than in the East, many of our *Poa Annua* greens being entirely destitute of grass until the temperature hovers around the sixty mark and that means about the middle of May. Our Bent greens stand the Winter fairly well. We are gradually turning all our *Poa Annua* greens into Bent.

I have constructed and planted four greens to Bent last year, and one this year. Last year I got forty bags of stolons from one of our well



WORMS ON THE OZAUKEE GREENS

*This photo was taken after corrosive sublimate had been used*



known greenkeepers of Detroit, who I see, advertises in our Magazine and it sure has made us a dandy green, there being very little grain to it. Our other Bents having to be raked both ways in the growing season three times and mowed close from which they soon recover; also have our No. 4 in Cocoos or Seaside Bent, which I consider has given us the least trouble of any of our greens and the best service, there being no grain, the color good and the putting perfectly true, even in the driest season of which this year has been a record.

Our course is nearly surrounded by the Assiniboine river and comprises 247 acres, beautifully wooded with fine elms and with a polo field on the same property. We water our greens from 6 to 9 in the morning thus helping them through the day's play, which is always heavy, having around 900 members.

The green constructed this year was our 14th, the old green being quite flat and cut out of the prairie. We built this up with about 600 loads of earth (Gumbo) with 4 inches of compost on the surface, graded and bunkered it, put on Washington Bent sod from our nursery of which we have two acres, and from start of building green to playing the same was twenty-three days. I can assure you the members were highly delighted.

Last year our club bought 57 acres of well wooded land adjoining our present course and we are at the present time constructing a new 9-hole course, the architect being Dr. McKenzie, Drainage Engineer Mr. Wendell Miller with Mr. Ben Zink and Mr. J. Fleming as associates to carry out their plans.

On our 18-hole course we employ 14 men with one assistant during the season, also two tractors, 1½ ton truck, one team and incidentally we swear by the Toro mowers both for greens and fairways.

My greatest worry is snow-mold in the Spring when the snow melts, leaving a coat of slime over the greens in patches. I have washed these off, brushed them with steel brooms, but this slime or fungus still kills the green wherever it has been. I am trying out Mercury C. S. this fall to try and overcome this. If any of our fellow greenkeepers have

a remedy for this shall be glad to hear from them. Should any of you land up here in the winter-time a warm welcome awaits.

In conclusion, our club is officered by men of experience in club affairs. Our president Mr. C. Joyce, who is also our Chairman of green committee, and our Hon. Secretary Mr. C. W. Jackson are very enthusiastic in giving assistance whenever required. I also have the hearty co-operation of all our officers and members and our aim is to make St. Charles Country Club golf course the finest in Western Canada.

Hope to meet you in Louisville.

### Maine Reports

By SAM BARBAROSSA, *Greenkeeper*  
Portland, Maine

THIS summer I had very little trouble with brown patch, but I used Semesan on the greens. Starting on the first of July I applied it every two weeks until the middle of August.

I had some weeds on my greens this year but not more than usual. I think the weeds come from the topdressing I put on four or five times during the year.

In the beginning of the spring I had some trouble with worms but I used Carter worm killer once in the spring and once in the fall and that killed the worms. I put one hundred pounds to a thousand square feet.

### Lots of Work at Moundsville

By CHARLES S. KESSELRING, *Greenkeeper*  
Moundsville Country Club, Moundsville, West Va.

I HAVE been negligent in writing my experiences to your valuable paper, but the fact is I have been so busy. I moved to Moundsville, March 16, 1929 and took up my work at the Moundsville Country Club, March 18.

First, the machinery had to be all overhauled and was in very bad condition, and the course was badly run down. It is a nine-hole course but I only had two men to keep the work going up until the first of August when one man was laid off and I only have had one since that time. The busy season has slacked up since that time and I think I



can give you a little description of my work.

As for brown patch I had very little of that. I used plenty of topdressing which is all I did for it and that took care of it. I said topdress because I just used top soil and not compost with manure. In fact that is all I have used for compost all season, but have used it often. I have topdressed five times this season and my greens have had a splendid green color all summer and I have been short of water.

The soil here is sandy and as for weeds—or rather fall grass I have had my share and more. The bunkers around the greens were not kept trimmed last season and that let the seed spread on the greens. Due to all this course condition and shortage of help I have worked early and late and my course isn't in a number one condition yet, but have only been able to keep it in fair playing condition.

I haven't been troubled with worm casts. When I came here the Green committee stated they were troubled with them last season and with my first composting I used four pounds arsenate of lead to each one thousand square feet then, and one pound to each one thousand square feet with each topdressing after that one. I have had some ants to contend with but couldn't get time to fight them, but hope to get ahead of them another season.

**Nu-Green—1½ lbs. to 50 Gallons Water**

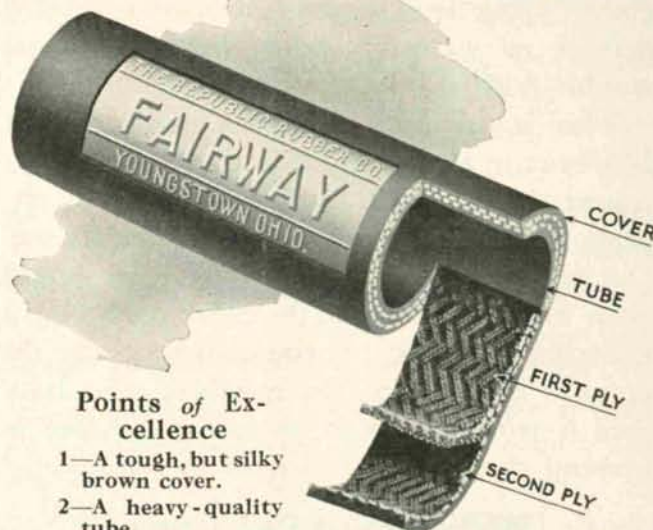
*By WM. MAYNE, Greenkeeper*

*North Western Golf Course, Morton Grove, Ill.*

**O**UR course forms part of the Forest Preserve of Cook county, and the greens are placed with a natural setting with trees near the greens, therefore not getting too much sunlight. The result is that during the humid weather of July and August it is a perfect breeding ground for brown patch fungus.

Our Numbers 1, 2, 4, 8, 9, 11, 12, 15, 16 and 18 greens were attacked all on the same day. I stopped all other work and got the spray going, giving the whole eighteen greens a good drenching with Nu-Green at the rate of one and one-half pounds to fifty gallons of water. The following day the affected greens were given a light topdressing with sulphate of ammonia added at the rate of ten pounds to the

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yard of compost and within one week all trace of brown patch had disappeared.

Every two weeks I continued to spray the greens using two pounds Nu-Green to fifty gallons of water, I never had any more trouble with it.

This is my first experience in the use of Milorganite as a fertilizer and if for no other reason than the rich dark green color it imparts to the grass I am a booster for its use. Our greens and approaches which were treated with Milorganite make the other parts of the fairways look sick. I would like to have the opinion of some of the members who have used it with regards to its ammonia value in keeping clover and chickweed in check.

### Heavy Mowers Pack Greens

By FRANK W. ERMER, Greenkeeper  
Ridgewood Country Club, Cleveland

**J**UST a few lines to let you know how we fared with Brown Patch and things in general at Ridgewood Country Club, Cleveland, Ohio, this past season.

Our course is one of 18 holes. All the greens are Metropolitan bent as near as I can

judge them myself and from what the majority of the turf experts have to say. The course is open to the public from about March 15 to December 1.

I have had no Brown Patch this season or the past three seasons, which I give Corrosive Sublimate credit for. This I apply in small quantities once a week and also get out early enough to whip the cobwebs and dew off the greens before the sun gets at them. By using this chemical regularly I have not been troubled with any worm casts.

Our greens must be mowed early every day so as not to interfere with the play and get off as quickly as possible, so to do this we tried a couple of mowers that were very much heavier than the ones we formerly used. I soon saw that during the wet growing season that the turf was getting thinner and the soil more packed on account of the steady rolling and packing day after day. I decided to go back to the old light mowers and as I did this the greens sure showed plenty of signs of sponginess and a much thicker growth of turf.

The greens that showed the most signs of thinning and baking were the greens that had the least amount of tile in them and no matter how much water I gave them they would still have that hard crust. These greens do not need rolling day after day as they have had most of this season because we have had as high as 600 players go over the course in one day, so I think with this amount of players the greens get plenty of rolling from their feet.

Outside of the greens packing as they never did before everything went along lovely, so it goes to show you the first hundred years are always the hardest.

### Forking for Brown Patch

By W. A. BOSTIC, Greenkeeper

Biltmore Forest Country Club, Asheville, N. C.

**N**OT as much brown patch showed up this year as usual, but we had some large brown patch or Drum Head. For this forking was tried, and was very successful. We took spading forks and punctured the infected spots. Before the holes closed the spots were dressed with leaf mold, using one-fourth to one-third sand, rubbing in as much of the

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mixture as possible, then watering same. As a rule, good results were shown within three days.

Not much Dollar Patch showed up until September. For this, Calo-Clor was used with good results. We did not have as much crabgrass in the greens as there was last summer, but the fairways were almost all crab grass during the summer. Now blue grass is showing up fine. Crab grass was taken out of the greens by hand.

Vermol Worm Remover is used when worms are troublesome.

A green is being rebuilt now and we expect to plant it in Metropolitan next week.

### No Brown Patch at Winnetka

By JOHN M. COUTRE, *Greenkeeper*  
*Indian Hills Country Club, Winnetka, Ill.*

**T**HIS was the most successful season I have had in the control of brown patch.

In all our nineteen greens there has not been a single spot of brown patch. I have tried various ways of controlling the disease and my only and most successful method is to soak my greens good once a week, preferably at night, and on the following day I give the greens a shot of Semesan. I was not bothered with any other diseases at all.

My greens were very clean this season. I did not have any crab grass or chickweed. I had a little clover in several greens but controlled it with very little trouble. After several applications of sulphate of ammonia the clover has disappeared greatly.

I was not troubled with worms at all this season. I believe the cleanliness of our greens was due greatly to our applications of arsenate of lead. When we reconstruct a green we apply arsenate of lead under the sod.

I have reconstructed our sixteenth green which contains approximately eight thousand square feet. I have raised the green from ground level to a height of six feet in the back and one foot in the front. For fill I used all the clay I had on hand; on top of this I put pit sand, and the last eighteen inches I used the best black soil I could get. After the sod was lifted we moved it from the nursery to the green and laid it in seven and one-half

hours. I think that was very fast time. The green was finished Wednesday and was used for play on Saturday. In all the green was out of play for only eighteen days.

### Thanks to Mr. Leach

By ARTHUR STEPHEN, *Greenkeeper*  
*Erie Downs, Ontario, Canada*

**J**UST some of my experiences since I went to this club eighteen months ago. When I went there I had everything in my greens except what was supposed to be in them. I had patches of chickweed about four feet square and all the crab grass I think there was in this part of the country, weeds and worms by the bushels, under drainage troubles, and all the rest.

This year they are much improved; no brown patch and very little crab grass. Just a few weeds (nothing to speak about), and no worms. This is the fifth of October and I have a beautiful color in my greens thanks to charcoal.

And for all the rest of my troubles that I had a year ago such as worms, crab grass,

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clover and weeds I have to thank Mr. Leach and I did so at the meeting of the United States Green Section at Arlington Turf Gardens at Washington on the 19th of August for that great chemical substance he helped the greenkeepers with (better known as arsenate of lead.) I used one-half ton of it this year and I have sent my order for one ton for next year for my greens only. And I want to tell you this—the Poa Annua on my Number 18 was just as healthy as ever but it sure does set the chickweed and crab grass back and worms will give you no trouble.

Well on our trip to Washington the best greens I saw, including the turf gardens, was a course laid out by Emil Loeffler and that course was the Wildwood Country club at Pittsburgh. It has greens seeded to Cocos bent. I was very glad to see that Emil Loeffler was appointed our new treasurer for he is a fine treasurer when you call on him at his course.

#### **No Topdressing After August**

*By JOSEPH BALL, Greenkeeper*

*Chartiers Heights Country Club, Crafton, Pa.*

**K**NOWING my inability as a writer I hope you will excuse my crude way of explaining myself as you have already covered every field in problems of greenkeeping. I see those articles from men who have been through the schools of hard knocks. I myself have not been in greenkeeping very long but I am an oldtimer in the field of agriculture and fertilizing and when very young I studied soils and their uses to mankind which came in very useful to me in my greenkeeping.

I hope my brother greenkeepers don't for one moment think I am giving them advice on greenkeeping. Oh! no. What I say here is only plain talk and full of criticism. Very few members who play on a course think how hard a greenkeeper is trying to improve the course under great difficulty of weather conditions. Here on Chartier Heights we are scarcely ever without wind so we have to mix our seed with soil and broadcast by hand. My men are quite experts at that now and I get good results.

This has been a very dry season, almost

the whole summer, at Chartier Heights and water up here none too plentiful. We did not have any brown patch, weeds very few. Those we had were kept down by a boy at thirty cents per hour. He also looks after ball washers and towels and many other small jobs.

Crab grass a little. My greens came out last winter without any sign of winter kill. They are cut every day and still in good condition. I am now getting ready to slide them into winter with their usual fertilizing of bone meal which works slow but is sure to stand with you.

I don't believe in topdressing after August, except newly seeded greens. Let Nature help you a little here. To topdress after August is only causing you a lot of trouble in the spring. It would take too long for me to explain the reason in this article as I only want to talk on what we are doing at Chartiers Heights Country club.

This summer we built a new green to supplant Number 11. This was a very difficult green to build as we encountered rock in the

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second ploughing and entailed a fill of ten feet on the lower side. And to supplant this we swung a trap sixteen feet wide on the outside to catch a ball that might drift over the green at that particular side. We sowed the green with Cocoos bent August 10, cut the same September 2nd and today it is a thing of beauty. We also tore up Number 14 green, graded and seeded with Cocoos bent. Tore up Number 9 green and reseeded with Cocoos bent.

This fall we are discing all fairways, seeding, liming and manuring the same. These are only a few of the things we accomplished this season. They have proved a marvelous improvement on the course.

The District linksmen who play over the course have recommended it in glowing terms of praise and come for more golf. We are situated on the second highest point in Allegheny County and a real beauty spot and a beautiful clubhouse to house the visitors when they come to play golf.

## Put-in-Bay in Fine Shape

By ALEX F. MILLER, Greenkeeper  
Put-in-Bay Golf Club, Put-in-Bay, O.



ALEX F. MILLER

I HAVE had no brown patch and am happy to say I never have had any. Whether this is good luck or good management I don't know. I have my own opinion about what causes brown patch and others have their opinions, so I don't care to express mine as I may be wrong.

I had no more weeds than I expected. Had some crab grass on three of the greens and some chickweed.

I have some worms but not enough to bother with. Would

use corrosive sublimate if I want to get them out of the green.

## Planting Stolons in Alberta

By TOM K. MCCLENAHAN, Greenkeeper  
Mayfair Golf and Country Club, Edmonton,  
Alberta, Canada

WE BUILT one new green this season and planted it with Washington bent. It was planted August 9, and one week later we cut it with 16-inch roller green mowers. Learning from mistakes made the previous year, we had a perfect putting surface right from the start. After grading was finished we hauled in enough screened compost to put four inches over the entire green, then the stolons were laid carefully and rolled; three men using steel mats covered the rolled stolons. Soil was put on the mats and squared over them with a board; in this way all the stolons were covered with the same amount of soil. The previous year we covered too deep or not deep enough.

Watering the newly planted stolons also gave us lots of trouble. If one man did the job he would drag the hose over the green and

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pull out quite a lot of stolons. After a lot of hard thinking I decided to run a temporary water line all around the green. There were six stand pipes with the hose on this water line. Then by moving from stand pipe to stand pipe this green could be watered without the hose ever touching the green. I may add that we were repaid for any extra work by the way this green came out, three weeks after planting we had a perfect green.

Up to last year our greens were hard hit both with winter kill and snow mold. During the 1928 season we cut down on sulphate of ammonia and stopped watering the first week in September and all our greens came through the winter in dandy shape.

Did you ever notice in the late fall when there is heavy frost if the rim of a green is dried out the frost doesn't touch it. But if the grass is green and freezes and you put your foot on it it turns black and usually dies; yet you can walk over the dried out edge without leaving a mark. That's why I like the green to dry out before the snow comes.

In return for the many useful hints I have

received from the magazine I hope some of this will be of use to someone. I wish you could see the greenkeeper's position here in Western Canada. I have been here nine years and a different chairman every year. Each chairman promises everything in the way of new equipment but the following spring you have to start all over again with a new chairman and the old equipment.

Now I want some advice. Our fourth green is shaded, drainage is not too good. On one side (shady side), every year about one month after we stop watering small damp spots appear. On these spots which are usually about one-inch in diameter the grass rots right down to the roots and in the spring the green is covered with small bare spots. Could you please advise?

With very best wishes to yourself and the association.

#### Arsenate Drives Away Skunks

By SANDERS BEDFORD, Greenkeeper  
Massena Country Club, Massena, N. Y.

WE ARE a new club up here at Massena, N. Y. as this is only our fourth season so you all well know what one is up against at a new club. Even so, we have had a very good season considering the amount of dry weather.

Our water hole, which is a small bay on the St. Lawrence river, was surrounded by water this year due to the exceptionally high water so we had to anchor two large scows across for the players to get to the green. This also compelled us to raise the roadway from the green to the next tee.

We had very little brown patch, I think this was because we had a goodly supply of Nu-Green on hand. We were not troubled with grubs this year either. I took care of those fellows last fall and this spring with lots of arsenate of lead.

Two years ago the grubs got in the back of our Number 6 green and to make matters worse the skunks made a raid on it too. I put arsenate of lead on and washed it in, I think I got the skunks as well as the grubs as they have never been around again.

I did not have as many weeds this year as last. Thanks to sulphate of ammonia and



arsenate of lead my weeds and chickweed will soon be a thing of the past.

I have had no trouble with worms this season. I am afraid I must put this down to arsenate of lead and sulphate of ammonia again. One day last fall I was experimenting on the front of Number 7 green for weeds. This green I had extended out some ten or fifteen feet and the weeds were pretty thick, so I put on sulphate of ammonia stronger than strong and the worms would come to the top of the green and burst. Try it somebody.

We have done a little constructing work this fall, built two twenty by thirty-foot tees and two smaller ones for the ladies. We also built a large bank around the back of Number 4 green with mounds on the top. Our intentions are to mow to the top of bank with the greens mower. I also built a large practice putting green this spring and it certainly is beautiful now.

We have a large quantity of well rotted manure we are putting on some of our fairways this fall. We are using Milorganite and charcoal with our topdressing this fall and please don't forget that arsenate of lead.

I am in luck for the 1930 Greenkeepers' Convention for our members have given a substantial sum of money so as I will be able to attend it. Good luck to the National Association of Greenkeepers and long live the "NATIONAL GREENKEEPER"; it's a great tonic every month.

### Electric Eradicator Gives Results

By FRED W. SHERWOOD, *Greenkeeper*

*The Birmingham Golf Club, Birmingham, Mich.*

I AM pleased to relate that up to the present I have not seen the slightest sign of brown patch on our mixed grass greens or on our bent greens at Birmingham. Considering the dry weather our greens have been in excellent condition all season.

We certainly had some crab grass but as fast as it grew had men to weed it out, generally treating the green with sulphate of ammonia after each weeding.

Worms were very scarce, no doubt being very deep in the ground owing to the continued dry weather. I use Electric worm

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killer with very gratifying results.

We are doing quite a lot of constructing and changing the lay-out of the course. When finished it will be of championship calibre. Eleven new greens are being built, new traps, fairways and tees as well, this together with the drainage system and the laying of water pipes, felling trees and leveling mounds, filling up of holes and all that goes with it even to constructing a golf course, keeps us busy. When completed will give you fuller details in every way. The club is also building a new clubhouse costing \$130,000.

I am always willing to add my little contribution to the "NATIONAL GREENKEEPER" and if the boys get any pleasure out of it, I am happy.

### All's Well at Southington

By DICK DECKERT, *Greenkeeper*

*Southington Country Club, Southington, Conn.*

ANOTHER season is gone, but I have had a good year even with the dry spell against me. All the members of the Southington Country club and visitors were well satisfied with my course, especially my

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greens. It seems they were better than other years.

Here are the answers to the questions that you asked: Brown patch did not bother me this year only on my Number 2 green. On that I had it twice at two different times. I used Semesan. I have had no other diseases.

For weeds I have not had as many as some years, but have quite some clover, and chickweed. I am now taking out clover and chickweed and putting in new turf from the nursery.

I have not had any trouble with worms this season. For this I give credit to arsenate of lead. I have used it for the past three seasons.

The only new work I am doing this fall is putting a few more traps near some of the greens, and am also fixing over some of the tees.

### Members Pleased With New Greens

By R. C. CHAPLIN, *Greenkeeper*  
*Acacia Country Club, LaGrange, Illinois*

**Y**ES, we had some small and large brown patch and also some huge brown. The only treatment I used was to fork the places affected with a common four-tined fork and then treat with Nu-Green or Semesan according to instructions. This so-called huge brown patch seems to be too much sand and doesn't hold the moisture. By adding some leaf mold or humus of some sort I haven't had much trouble.

In regard to weeds we always have plenty of them. I have had lots of crab grass this year but not much chickweed. I don't think the chickweed was due to drought because about the only place we have chickweed is on some of our greens but the crab grass I think is due to the drought.

Worms didn't bother us much this year except this fall they were quite bad on some of the greens and the only thing we did was to brush them off with a mechanical brush. We were intending to use mowrah meal but it got too late.

We have rebuilt two greens completely and have a fine job this far. We used all of our own stolons and I must say they were very fine. They are the Washington strain creeping bent. These two greens are nearly three

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times the size they were, making nearly nine thousand square feet each. I have also reconstructed two tees which I dare say are nearly three times their former size. These new tees and greens have made a great hit with our members. Everyone seems to be well satisfied.

We are also having good luck with our fairways; they are in fine shape considering the dry fall we have had. It has been so dry it was impossible to seed so we are intending to seed in the spring and fertilize at same time.

### Calomel and Water

By D. C. BUNKER, *Pro-greenkeeper*  
*Galesburg Public Course, Galesburg, Ill.*

**Y**OUR questionnaire I had to answer because you can't read my letter after I get through.

1. Did I have brown patch?

I generally can tell when it is coming two or three days ahead and call out my old fashioned fire department and put it out before it gets started. I use barrels for mixing calomel and water using sprinkler pots with which to apply it and a hand nozzle to wash it in with. I find it is faster than anything I can afford to get. One man changes barrels and mixes up the solution in barrels; two men put it on with sprinklers and four men follow up and wet greens down. I can do all eighteen greens in four hours and I have 55,000 square feet of green surface to go over, so my greens are not so small either.

2. Weeds.

I hire two special boys during June, July, and August to dig out all crab grass. It only gets a chance to look up and they get it—they cover all greens nearly every day. Dan-