

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.

THIS 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

JUST 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.

KNOWING 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

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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