

Through The Past Summer's Drought

greenkeepers of America describing ways and means of
drought conditions. Fairway watering is coming.

members from distant parts of the state and also other states and all have said it was one of the best conditioned courses in the state and elsewhere. And this has been an exceptionally dry season and we get no water to our fairways.

I am a Charter member of the National Association of Greenkeepers of America and invited all members to visit our course both for inspection and a helpful exchange of ideas and the solving of problems peculiar to every greenkeeper. I hope every greenkeeper has fared as well this season as we have.

CLOYD REICHELDERFER, *Greenkeeper*,
The Shawnee Country Club, Lima, Ohio.

An Emergency Watering System

THIS year has been one of the most disastrous in greenkeeping since I have been in the game, which is twenty years more or less. Even to those clubs with water systems it was a hard problem to keep up with the terrific drought.

It hit us hard because we had no water system until August. My fairways were not of the best although we seeded spring and fall and manured every fall for four years. Very little results were seen until spring because we had no water to take care of them in the blazing hot months of July and August. They baked out hard and dry and all young grass, or at least sixty per cent of it was burned out; thus we always had thin fairways no

matter how we fertilized and seeded. It is my opinion that every one of us will be a back number without water.

It is not necessary to hold back because you can't afford to spend thirty or forty thousand dollars. Take the very difficult position we were placed in this summer—our fairways were fast drying out and impossible to play. With the ground hard and the grass gone Nature took command and sought to heal the sores in the form of dirty weeds.

Our chairman said we must do something to overcome this terrible condition and he told me to measure up all the fairways and give him an estimate of pipes and fittings. In less than two weeks I had sprayers going on the fairways.

Now I can hook up eight sprayers to every fairway and we did it all with my usual crew and without extra men. I can say it has done wonders as all my fairways are back and we are cutting them every day.

We have seeded all fairways and topdressed with good soil, using over eight hundred tons screened with a Rotary gasoline screener and much of the seed is up now.

The two greens built in the fall of 1929 and seeded with Cocoas bent were opened on Decoration Day and have been cut every day since. They are beautiful and have never needed weeding.

Finally, I don't mean to infer that my water system is in any way as good as the \$20,000 outfits,



SULPHATE A GREEN IN TWENTY MINUTES
Joseph Ball uses this outfit at Chartiers Heights C. C., Pittsburgh, Pa.



ROTARY SCREEN USED AT CHARTIERS HEIGHTS
Notice how fine the soil is. This was used for topdressing fairways

but to those clubs less fortunate in finance than the larger ones it has been successful as an emergency measure.

JOSEPH BALL, *Greenkeeper*,
Chartiers Heights Country Club,
Crafton (Pittsburgh), Pa.

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Shave Installs Water System

I EXPECT the season of 1930 will stay in our memories a long time as being the driest and hottest we have ever experienced. Around the Detroit district it was very bad, as our summer of 1929 was very dry but not so hot. I'll gamble that I have not had seven days rain all in all from June 15, 1929, to September 11, 1930.

We lost lots of grass on our fairways last year and this year a great deal more. We drilled a well last year that gives us three hundred and fifty gallons per minute for as long as we like to pump it. We were very fortunate to have it as we sure needed lots of water this year.

Our greens and tees have been in as good condition as they have ever been but it sure took lots of water and very judicious and close attention to fer-

tilizing, just give them enough to keep them slowly coming.

In July our fairways were crisp, hardly a blade of green grass on them. We decided to do some watering and see how our members would like the change. Our main and branch lines to greens and tees were located so nicely that we only bought three thousand feet of pipe and now we can and do water all our fairways.

We use twelve sprinklers with two hundred feet of hose to each one. Each sprinkler covers six thousand square feet and we leave them one and one-half hours in each place. It's certainly a treat to see green fairways again, as our members say after playing courses without water on fairways: "It's like a bit of heaven." This is on the South course; now I am going to put in four thousand feet of pipe on the north course and water the fairways which, especially on the hills, are nearly all dead. I am discing them both ways, fertilizing and seeding, chain harrowing and rolling, and will water beginning Monday, the 22nd, unless we get some rain.

I believe that fairway watering is very good providing that it is done in such a way as to be something like a good rain, that is they should not be watered continuously as it does not rain every day and night. I believe a good soaking once a week is fine and you won't get very much clover in them. I have seen fairways that have been watered every night and sometimes every day and goodness what a nice crop of clover and you could hardly find any grass. It's just as important to water fairways properly as it is greens and tees.

HERBERT SHAVE, *Greenkeeper*,
Oakland Hills Country Club, Birmingham, Mich.

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Lakewood Had Plenty Of Water

I HAVE had wonderful success with the Lakewood course this past summer, although we sure had six weeks of hot and very dry weather. Even so we managed to keep the course in first-class playing condition and I didn't do one thing with my greens except to watch the watering of them.

All my watering was done at night during June, July and August. During these three months I didn't use any topdressing but I did use sulphate of ammonia, applying one application each month. It seems to me some of our greenkeepers use too much topdressing during the summer months when the

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