

This is an especially favorable locality for applying the cyanamid treatment. The permanent water table is little if any more than two feet below the surface so that nematodes cannot go very deep into the ground, and the system of subirrigation, with which the truck farms are provided, enables the grower to thoroly saturate the soil at any time he may wish.

The material was used at the rate of a ton per acre. Half of it was plowed under and the other half was then spread over the plowed land and thoroly disked in. The material was applied with a fertilizer spreader, thus insuring a very uniform distribution. The land was thoroly irrigated immediately after the disking was completed. Celery and lettuce were planted on these plots about a month later.

GOOD RESULTS SECURED

The experiments were highly successful. On two of the treated seed beds the nematodes were entirely exterminated. During the previous year these beds had been so severely infested that the owners had decided to abandon them. A careful search made at the time the celery and lettuce were being transplanted, failed to reveal any knots and the plants all looked healthy. Untreated seed beds only a few rods away were seriously infested with nematodes.

On a third treated seed bed, there were a few infested spots. These could be detected readily by the stunted yellow plants they bore. All were on higher parts of the bed, suggesting that perhaps these parts were not wet thoroly after the application of the cyanamid.

A fourth seed bed was treated but not according to directions. Instead of plowing half of the cyanamid under it was all put on after the ground was plowed and then disked in. The results corresponded to those previously mentioned when cowpeas were used. The roots near the surface were free from knots but some that extended to a depth of five inches or more showed some knots.

CONCLUSION

The results of these representative experiments, in connection with others which gave similar results, the details of which are not given here, justify the following conclusion. Cyanamid applied at rates of from one to three tons per acre, according to the nature and the depth to which the soil is infested, and thoroly mixed with the soil, reduces the number of nematodes present to an extent sufficient to make it possible to grow with