

side by side and should not be separated from one another or the rest of the field. One plot, No. 1, plow in well-rotted stable manure at the rate of sixteen large loads per acre — one load for every ten rods. Plot No. 2, which is to be the middle plot, has no manure of any kind upon it. When the cane on plot No. 3, is three or four inches high, apply plaster to the hills or rows to the amount of one hundred and sixty pounds per acre, or ten pounds for every ten rods. The cane is to be planted and cultivated in the same manner as the rest of the field. If possible, weigh the cane of each plot separately when ready for the mill. Boil the juice to a syrup weighing eleven and a half pounds per gallon, and determine accurately the yield of each plot. Save a sample of syrup from each plot for comparison.

Report to the department upon the following points:

1. Amount of ground in each plot.
2. Character of soil—clay, loam, sand, etc.
3. Is soil naturally rich or poor?
4. Number of years the field has been in cultivation.
5. Crops grown on field previous year.
6. Whether or not the field was manured the previous year.
7. Method of planting cane—in drills or hills.
8. Time of planting.
9. Time of ripening.
10. When manufactured.
11. Yield of syrup from each plot.
12. Character of syrup from each plot as to color, clearness, and flavor.

In addition to the above, give any facts of interest in connection with the experiment, making the report as full as possible.

All reports should be sent in by the first of December, and the samples of syrup from each plot should be preserved until some method is devised for collecting and comparing them.

CONCLUSION.

In concluding this most hastily written circular, I take occasion to urge upon those interested, to send in any facts they may possess that will help us along in the work. All letters of inquiry will receive attention. I shall send these circulars to every cane grower whose name I now have on my list, but this is *very* incomplete, and I ask those who may receive it to send in the names of neighbors who are interested and help to scatter it over the state. All facts worthy of public attention during the growing and manufacturing season will be announced in the *WISCONSIN FARMER*, published at Fond du Lac.

MADISON, WIS., April 12, 1881.