

of drainage molasses. But this is quite a low average. Under good cultivation, with a fine, rich, friable soil, and every attention to the destruction of weeds, etc., it is quite possible to add a quarter more to the above figures, or 2,400 lbs. sugar and 55 gallons molasses.

It appears from experiments made, an average of five pounds of stem have been raised to the hill, which will give 270 gallons of dense syrup, or 3,000 pounds of sugar and 66 gallons of molasses. This experiment was made on ground that would yield 100 bushels of corn per acre; or if beets were grown and well cared for, they would yield about the same amount of sugar.

Every cultivator will readily understand that preparation of soil and attention to the crop makes a vast difference in the yield. In Europe, where the sugar beet is grown, the highest attainable amount of sugar raised per acre is 5000 pounds, but the average in France is only 1,071 pounds; whereas the average from sorgum ought to be 1,800 pounds, or very little below that amount.

In my hastily written article in the January number, it was recommended that the cane should be left to ripen in the field for some days after being cut. I find also this is a mistake, as deterioration begins within a few hours after the crop is cut, and the sooner the stalks can be worked up after the cane is removed from the ground the more readily will the juice crystalize.

One reason why sorgum is superior to the beet is, that it has a far wider climatic range of growth. It has often been noticed by strawberry growers that a drought takes place towards the end of June. This dry season is almost fatal to the beet crop—hot, dry weather rendering its juices thin and insipid, and almost entirely devoid of saccharine matter. On the contrary, hardly any amount of drought affects the sorgum plant, and it readily stands the summer heat as far south as Texas. Neither heat nor drought appear to weaken its juices in sugar-making material.

WHAT COULD HAVE BEEN DONE MORE TO MY VINEYARD?

BY A. HOOD, BARRIE, ONT.

In the December number is an article from the pen of Mr. J. Croil, of Aultsville, complaining that he gets worse results from his orchard, with the best of care and cultivation, than does his neighbor