method will be discovered by which all this fo reign matter will be removed in the operation of es one hundred. skimming.

close attention, particularly when about ready to skim, and when the juice is concentrated to about the point desired. The more rapidly this operation is performed, the more perfect will be the crystalization. But, however necessary it may be, it is scarcely possible, with any apparatus that I have any knowledge of, to perform the whole labour of cutting, grinding, straining, skimming, and boiling, in the short space of one hour, as recommended by Professor Mapes, of New York. If this is ever done, it must be in very small quantities, or some very improved method must season. be adopted.

In boiling, as soon as the scum begins to rise, the fire must be regulated with care, that time may be had for removing the scum before it shall be boiled in. If the operation of boiling and skimming be well performed, about one gallon of thick heavy scum will be obtained from a batch of fifteen gallons. The syrup, when it becomes thick and nearly done, has a very beautiful appearance, in every respect equalling the best of maple syrup. To boil to the crystallizing point, —which is a very uncertain one,—requires considerable care and discrimination. The same tests that are used for maple syrup are equally applicable to corn-stalk; as for instance, when it will flake off, breaking short, from a dipper or stickor string out between the thumb and finger, from half an inch to an inch in length, is perhaps the safest test. Very great care is necessary here, that it be brought to the right point and no more; and also in managing the fire, as a little blaze, or too strong a heat, is most sure to scorch, and this is fatal to crystallization.

Crystallization.—Difficulty has been found here by all that have made experiments with corn-stalk sugar; but perhaps every one has obtained a sufficient quantity that was well grained, to satisfy him that the difficulty was somewhere in the process of manufacture.

From recent observation I am inclined to think that I have kept my sugar in too cool a place. Two small parcels, left partly by accident where they received the warmth of a fire, were found well grained. But there is another difficulty after it is well crystallized, to make the molasses separate, or drain, as it is called: although the crystal appears to be as fine as was ever formed, still the molasses will not separate by any common methods used for maple sugar. As yet, I have not been able to procure any better specimen than that exhibited at the State Fair.

Arrount from the acre.—Although the quantity of stalke was so much diminished by the drought, yet six hundred pounds were obtained; this, it should be understood, is weighed when taken from the fire and before graining has commenced. If it were well grained and the mobably not be more than five hundred, and moless-

In order more fully to determine the amount Boiling .- This operation requires care and that might be produced from an acre of good corn, I measured two square rods of the best corn I had; the stalks were then cut, and the weight was 150 pounds; after grinding, the juice weighed 69 pounds and measured nine gallons; from this I obtained twelve and a half pounds of sugar. By this it would appear, that had the whole acre been as good as the two rods submitted to the test, one thousand pounds would have been the produce. And it would seem that this must be a safe calculation, as the stalks on the two rods were not as large as would be grown in a good

> An equal amount by weight of large stalks of rank growth, and small ones that were grown thick, were ground separately; but as no material difference was found in the produce, my opinion is that the corn should be cultivated so thick that no ears will be produced.

EXPENSE.

For the rent of land.	83	00
" thirty loads of manure 1s. per load,	*3	75
" drawing thirty loads manure 10c, per	_	•••
load,	3	00
" plowing, harrowing and fitting ground,	2	34
" planting, plastering, cultivating and		
hoeing,	5	87
" seed-corn and plaster,		68
" spreading manure, -	0	88
The whole armance of raising 1 com		

The whole expense of raising 1 cornstalk S19 52

There is no part of the business that is so tedions as plucking the ears, stripping the leaves and cutting off the tasset. A part of this labour was performed for the fodder that might be obtained from it, but it was not sufficient to pay; as the labour of plucking the ears was performed for this consideration, I am unable to say what it would cost; but this much is certain, it is needless for the most part, as no ears of any amount need be raised, if the corn is sufficiently thick. From the best estimate that I can make of the expense of strippin, is wes and cutting the tassel, I think that a smart hand would perform the work on an acre in six days; therefore,

The amount brought forward,	\$19 52
To six days stripping leaves, &c.	4 50

This is the whole expense up to the cuting of the stalks, \$24 63

It is somewhat difficult to come at the expense I was at in manufacturing the acre of stalks into sugar, so much was done by way of experiment. But as one hundred pounds were made one day, I shall take that as my guide, and call it a day's lasses separated, the weight of sugar would pro- I work for two hands to make one hundred weight.