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hot water and a team, two men will scald well 1,200 buckets at the trees in a day, and there is almost always a rest between "runs" as long as that each week. Our climate, too, requires that the sap be stored out-doors (see figs. 5, 1 & 2). The trough runs into the house just far enough to feed the sap into the heaters, but not to sour that in the store-trough by the heat of the fire. The store-trough, or troughs, should have close fitting covers, to protect them from rain, sun, and freezing by night. In Vermont, the cold is so great at

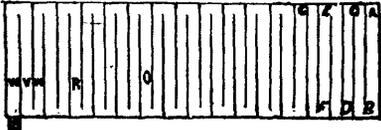


Fig. 3.

night that it is common to store the sap in the sugar-house.

I wish to give special emphasis to the fact that the most rapid and best work is secured by keeping the sap as shallow as is safe in the pan. A careful man can boil safely with the regulator set for an inch deep at the arch end of the pan. If the pan be perfectly level, this will make it about half an inch deep at the syrup end. Many suppose the sap must cover the crimps to prevent burning. But the heat of this metal, partly submerged in water, can never be above boiling point, and that is not burning point.

The full heat of the fire under and in the crimps is utilized too (even if they are not covered) by the sap at their bases. And, if the crimps are covered, the transverse current is broken up, and sap and syrup mix more or less the whole length of the pan unless prevented by the two gates. Such a use of the van uses the extra heating surfaces of the crimps

it is true, but it throws away all the other benefits of the evaporator. It is a thoroughly established law, too, of evaporation by heat from below, that the shallower the water (sap), the more rapid the evaporation.

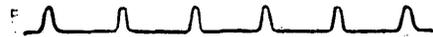


Fig. 4.

The flavor of syrup is best retained by canning, or jugging, hot, like fruit, and setting in a cool, dry part of the cellar. Jugs of syrup should never be set on a damp cellar bottom. The bottoms of jugs are seldom glazed outside, and the moisture sometimes moulds the syrups.

At the close of the season, every vessel should be washed, scalded, and wiped with scrupulous care, and the buckets stored bottom-side up ready at a moment's notice for next year's tapping.

W. J. CHAMBERLAIN, Summit County O.

### Sugaring Implements.

We willingly insert the following letter from W. A. Morrison, manufacturer of sugaring implements:

I see in your list of Prizes taken at the Dominion Exhibition by this province, that you have left me out entirely. I took 5 first prizes and one second, and was recommended for a bronze medal, but, instead, got a diploma, as the Medals were all gone. The Medal was recommended for the best collection of sugaring implements, and for the best display of maple sugar.

I took first prizes for the Bests Evaporator saps, Heaters, Buckets and Spouts. 2nd prize for stirred sugar.

The first Prize for best stirred sugar was for E. E. Spencer, which I had in my charge, I would like you to mention these in your next issue. I remain, &c. W. A. MORRISON, Freligsburg.

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