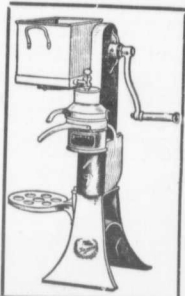


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# Standard

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# STANDARD

## Hand Separator Oil

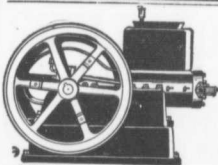
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Standard Hand Separator Oil feeds freely into the closest bearings and gives the best possible lubrication.

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**IT IS EASY TO BUY** the wonderful Gilson "Goes Like Sixty" Gasoline Engine on the above plan, engine made. A positive guarantee given with every engine, easiest to operate of any satisfactory, hold subject to our shipping directions, and we will return every cent of your first payment. Can anything be better? Made in Canada—no duty. The Gilson engine. Ask your banker about our reliability: founded 1850. Tell us just what work you have for an engine to do and we will name you price and terms on the proper horse power. All sizes. Send for free catalogue. Big money for Agents—write for our proposition.

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## HORTICULTURE

### Mulching Trees not Advisable

L. K. Shaw, Welland, Ont.

In last week's issue of Farm and Dairy I noticed an article by Dr. Samuel Armstrong, in which he advocates a system of orchard culture that I thought was dead and forgotten long ago. In case any Farm and Dairy readers may be inclined to follow out the suggestions outlined by Mr. Armstrong, let me point out some of the weaknesses of the mulching system of orchard culture.

Mr. Armstrong speaks of putting large areas of poor land into orchards. By poor land I presume that he means land that has become badly infested by weeds and will hardly yield a profit under ordinary farm crops. Perhaps too, it has been depleted in fertility to such an extent that it is no longer profitable. Such land unless given the best of care



### Larger, Stronger Plants result from Frequent Transplanting

Our illustrations show the beneficial effect of transplanting young tomato plants. All of these plants are from the same seedling but those to the left received an extra transplanting. This extra handling increases the number of such as celery, cauliflower and cabbage.

will produce poor orchard as well as poor crops and will be just as unprofitable under the one as the other. We should remember when thinking of setting an orchard on land poor in fertility that a crop of apples will take as much from the soil as a crop of wheat yielding 25 to 30 bushels to the acre. Mr. Armstrong does not tell us where the fertility to produce such a crop is to come from as according to his plan no fertilizer is to be added to the soil.

### TWO OBJECTIONS TO WEEDS.

Mr. Armstrong also speaks of allowing the weeds to grow, cutting them before they seed and dragging the debris up around the trees. This plan is open to two objections. The weeds would start to grow the first thing in the spring and use soil moisture when it is most needed by the trees. Under a proper system of orchard culture, cultivation would be practiced at that season of the year to preserve the moisture and the cover crop or weeds would be allowed to grow later on when we wish to ripen up the wood and hence curtail the moisture supply for the trees. I believe also that drawing the weeds up to the trees would make a fine harbor for mice and the first thing we know we would have a girdled orchard.

The orchard is the most profitable crop that we grow on our farm and I believe that we can afford to give it the best cultivation. We would not like to see such a careless system of orchard management as Mr. Armstrong advocates practiced.

I received my pure bred Yorkshire sow for securing six new subscribers to Farm and Dairy, from Mr. Hubert Dr. Gagnanque Jet, Ont., and am highly pleased with it. Every one that has seen it says it is a dandy, so I think I am well repaid for my work, as I found it quite easy to get these new subscribers. Mr. Jno. Ednie, Northumberland Co., Ont.

## Concentrated Lime-Sulphur Made at Home

Continued from page 5.

Mr. Clark showed us the sieve through which he had strained all his lime-sulphur. This sieve was a very fine one, and there was very little "grounds" in it. Everything had passed through the sieve, and there was practically nothing whatever left behind as is usually the case with the average man who makes or attempts to make concentrated lime-sulphur solution.

### HAVE PROPORTIONS RIGHT.

The main point emphasized by Mr. Clark was to be careful to get just the right quantity of water with the lime so as to incorporate the sulphur properly. Start the fire after all is ready, the solution having been thinned to 50 gallons; then there will be no sludge whatever in the lime used as is in clean lumps. The pan as shown in the illustration has a capacity of 50 gallons when the liquid measures 8 1/2 inches deep. The pan may be raised from the walls of the



arch, which are constructed of cement, and a large tap or faucet at the end of one side enables the solution to be drawn off without difficulty.

"It is always well," concluded Mr. Clark, "to draw the solution into a get cold and put it into barrels. My arch was put up only two days before the fire was used in it. The walls are in the ground eight inches, and it required two sacks of cement to construct it."

It takes about one hour after the fire is started to bring the solution to a boil. Then no more wood is needed, the heat and coals keeping the solution boiling for an hour. It must be timed accurately. After one hour open up the front of the furnace, throw in water and put the fire out and add water enough to the solution in the pan to make the volume. — C. C. N.

Hand weeding is necessary in the caisson patch. The young plants are easily choked by weeds.

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## How to

E. C. Calhoun

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