

Topsman of Woodruffe, son of Topsy Belle, 1st prize Ayrshire heifer under 36 months, Ottawa Dairy Test, 1903. Owned by J. G. Clarke, Ottawa.

Correspondence

Maintaining the Fertility of Orchards

Editor THE FARMING WORLD:

In view of the favorable reputation which Canadian apples hold in Great Britain and the European continent, and the large and rapidly growing trade which is carried on in fruit of all kinds, but especially in apples, we, as fruit growers, should do everything in our power to increase the quantity and add to the quality, in face of the increased competition from other countries.

countries.
The depending of our orchards?"
will be asked by all who heard Mr.
Caston, president of the Ontario Fruit
Growers' Association, make the state-ment that a large number of the orchards, especially in the older sections
of Ontario, were starving for lack of
plant food, and that in many casee
the deterioration of certain varieties plant food, and that in many cases the deterioration of certain varieties was principally due to lack of food. A statement of this kind, coming from such an influential fruit grower should cause us to pause and reflect on how we can economically provide this plant food for the trees. This is all regions of the plant of the plant food for the trees. This is all regions as far must good only it is not a complete manure for orchards.

not a complete manure for orchards having an insufficient amount of potnot a complete manure for orchards, having an insufficient amount of potabl, and under our present system of the potable and the present system of the potable and the present system of the potable and the present system of the present system

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Tobacco being a money crop, and also requiring large quantities of manure, it is a common practice to apply the entire amount of manure made on a farm to a few acres of tobacco, which practice in a series of years will surely run down the farm.

The same argument holds good in Ontario as in Wisconsin, where they say, or at least the thinking farmers do, that if tobacco will not pay for say, or at least the finiting farmers do, that if tobecco will not pay for its fertilizer, better go out of the business. So, before we, in Ontario run down our farms, we had better decide that if fruit will not pay to buy fertilizer for, we had better dig up our trees by the roots and plant something

The next question would be, "What shall we use?" Those who are situated near towns can buy stable manture, but for the majority of farmers this is impracticable. Even in favor-able cases it is doubtful if for large fruit it will pay for the reasons given

In some cases as with small fruits, no some cases as with small fruits, poor land, or where a proper system has not been followed, it may be desirable for a time to use stable manures, but the successful farmer must get his nitrogen cheaper than paying 12 to 16 cents per pound for it, and he can obtain it for nothing by means of a leguminous cover crop. Of all of a leguminous cover crop. Of all the different crops advocated, I believe the different crops advocated, I believe Lucerne clover to be the best, as it will make a better growth in the dry weather, which we usually have in the fall, and also a better root growth than the common red clover, which is favorably known for this purpose. Lucerne is subject to being winter-killed, but this makes little difference where it is sown to be allowed nucleon.

contained the state of the stat that no rain should come until picking time. This system might not produce such a fine cover crop, but it will produce more apples. Leguminous cover crops will provide for all the nitrogen necessary, but something else is required, or we will ruin our fruit crop through unbalanced feeding. I firmly believe that the popularity of cover crops, together with the use of stable manure, has had much to do with the

cry that Canadian apples are not keeping as well as they did in former years. We all know that an excessive property of the pr the potash and phosphoric acid which are also needed.

are also needed.

Experiment stations recommend a fertilizer containing 2 per cent. of nitrogen, 9 per cent. of potash, and 2 per cent. of phosphoric acid, but if a proper system of cover crops is followed, I think we can leave out the nitrogen and use potash and phosphoric acid in above proportions. In codes to obtain these mercial "comparations of the content of order to obtain these materials, "common sense" would teach us to use our own waste matters, that is, bone meal and wood ashes, which at present we ship across to the United States to improve the quality of their fruit.

In bone meal the steamed will be found more economical than the raw, being less in price and having a high-er percentage of phosphoric acid, though lower in nitrogen, which is no detriment in a properly managed orchard.

Chard. For the potash we should use the ashes produced at the farm and in addition thereto the commercial potash salts, particularly suiphate and muriate of potash, which are very high grade, containing 50 per cent. of pure potash, while ashes contain only 5 per cent, on an average. Weight for weight, the potash salts mentioned are worth five times the value of ashes, and as a commercial article, the former are usually a more economical source of potash than the ashes.

G. Fego. Massi,

G. FRED. MARSH, Grey Co., Out.

Improving the Sulky Two-Furrow Plow

Editor THE FARMING WORLD:

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The time has come for farmers to economize labor by using three and four-horse teams as much as possible, allowing one man, in a good many particulars, to do two men's work. The sulky plows now have rolling colters which are very much lighter in draft than straight colters. The objection has been that it using jointers on the two-furrow plows with straight colters, the draft was too great for three horses. But since this difficulty has been overcome by a simple device to attach the rolling colter, and pointer or skimmer to all simple device to attach the rolling col-ter and pointer or skimmer to all sulky plows. Where known, they are in demand, as most all farmers will admit that if the draft can be so ar-ranged that three horses can handle a two-furrow plow with jointers at-tached, the work is so performed as to make a better mould than without the jointer, and at the same time pre-venting the growth of grass between seed bed.

We are happy to inform the far-mers throughout the country that it has been accomplished by Mr. Del-bert Woolley of this country, who has taken out a patent for the same.

FARMER, Norfolk Co., Ont.

"How do you stand?" asks the Italian when he meets a friend.
The Polish greeting: "How do you have yourself."