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er dister by mate ne Wil-Unless nd bilinated, and that will be one of the reasons why we claim, I was merely trying to show how unfair this people on the farm, advocates a very efficient method EUNICE WATTS. King's Co., N. S.

COMMENT BY PROF. H. L. HUTT.

The four causes assigned for nubbins or imperfectlyformed fruit on strawberries are the ones usually recognized. Another cause which might be assigned is an inherent weakness in the pistils in the center of the flower of some varieties of strawberries, so that they are not capable of being fertilized, even from their own or foreign pollen. This is usually seen in fruits having dried or blackened tips, from the fact that the pistils on the end of the receptacle have not fertilized, and the pulp surrounding them does not develop.

This article is carefully prepared and thoroughly practical. The only statement to which I would take exception is that contained in the last paragraph, in which the writer says, "imperfect flowers produce imerfect fruit." This does not always follow. Imperact flowers may produce perfect fruit if thoroughly pollenized with pollen from some bi-sexual variety. The last statement, too, is hardly correct, in that it is not absolutely necessary that the perfect and imperfect varieties should be in alternate rows, although, of course, this is better. A row of a good, strong pollenizing variety, that is, one bearing plenty of pollen, may furnish pollen enough for three or four rows of a pistillate kind, provided there are plenty of bees or insects to distribute the pollen. Another point in this connection, which the writer has not mentioned, is that there is a considerable difference in the blooming period of different varieties. Early pistillate varieties require early-blooming bi-sexual varieties to insure fertilization of the early blossoms. A lack of this sometimes results in the early flowers on pistillate varieties failing to set fruit until a bi-sexual variety comes in flower to provide the pollen necessary. We have made careful notes and dates of bloom of over four hundred varieties tested at the Ontario Agricultural College, and find that this is a matter to which straw berry-growers should give careful attention

MAKING A HOTBED

Please give through your columns full directions for making a small hotbed. Lanark Co., Ont.

Ans.—Select the warmest, most sheltered place available; mark out the bed, and dig it out to the depth of four feet. Then build a framework of 1 x 10-inch boards about the pit, one board being placed at the front end, and two at the back, to give the necessary slope towards the south. To prepare the material for filling the bed, take fresh horse manure, fork it over, water it if very dry, let stand a few days, then fork over again to allow a second fermentation. Place in the bed and tramp down well, until a depth of about 3 feet has been secured. Put on the sash bank up all around the sides with manure, and leave to ferment; then put on the soil, which should be light and rich. Manure from old hotbeds mixed with about two-thirds loam is ex cellent. About six inches of soil will be required. The heat at first will be violent, but when it has cooled down to ninety degrees, the seed may be planted. Afterwards, but ordinary care in watering, and ventilating, by raising the sashes somewhat during the warmest part of the day, will be For a covering at night, or on exceptionally cold days, place a light mattress filled with straw, or even old carpet or sacking, covered with boards, over the sash

It may be necessary to remark that, while many of her views. ventilating the bed, care should be taken to prevent cold drafts of air from rushing over the young plants. The essentials in caring for hothed are uniform heat, plenty of air, no cold drafts, and a proper amount of moisture.

THE FARM BULLETIN.

PROF. DAY COMES BACK.

Editor "The Farmer's Advocate":

In "The Farmer's Advocate" of February 27th there appears a letter from Mr. T. C. Johnston, in reference to my letter of January 23rd, which was written in reply to his of December 26th.

In his last letter, Mr. Johnston asked why I say that he and "J. G." apparently have no use for experimental work. In reply to this question, I quote from his letter of December 26th as follows: "Those farm hoy say he lived the whole year to go to camp, feeding trials are all very well, but it is not what we are after. It is the farmers that produce the hogs of this country, and not experimental farms, and it is how eaply can the farmer produce them." If I drew a wrong inference from this statement, I am ready to apologize; but I do not think that even Mr. Johnston will blame me very much for misunderstanding his

Mr. Johnston says that the maximum or the minimorn of grain in a farmer's barn has nothing to do Provincial Government have done much for the farmer. with the amount of food required to make a pound of Pork. Certainly it has not. The paragraph in my or "hayseed," but as our most progressive citizen, to letter, however, was called forth by a statement in his letter of December 26th, where, referring to myself, he ficial to the welfare of his country. says: "He must have been looking into the storehouse bins instead of the farmers' granaries, for they are not Indian clubs." a full as he claims." As I had never made any such

statement is.

I am glad to hear that Mr. Johnston is anxious to get at the truth, and that he is experimenting on his own account, but I am sorry he does not give the public his results. The figures I offered are the best I have, and I would welcome additional facts regarding able. this important industry. In his first letter, however, he offered no figures, but seemed to be especially concerned in heaping ridicule upon my results and sugges-The fact that advice similar to my own has been offered by all our leading agricultural papers, editorially and otherwise, without protest from Mr. Johnston $^{\prime\prime}$ J. G., $^{\prime\prime}$ led me to infer that there must be some personal reason behind the attack made upon my modest suggestions. Had I been able to find in Mr. Johnston's first letter any evidence of a disposition to discuss the question upon its merits, he would have had nothing to complain of in my method of meeting his arguments; but when a man deals out hard knocks. he should be prepared to take a few in return.

No one regrets the present occurrence more than I do, as it is no pleasure to me to engage in a controversy of this nature, but I do not see how I could have pursued any other course than the one I have taken, and maintained my self respect. G. E. DAY.

AUTOMOBILES A PUBLIC NUISANCE.

Editor "The Farmer's Advocate":

I have been a reader of "The Farmer's Advocate" for a number of years, and enjoy looking over its pages. I find the market reports valuable. I have been especially interested in the complaints against the automobile. I agree with one of your correspondents that it is a blessing we have a winter so that we can drive on our roads with our faithful animal, the horse, and be contented that we will not meet one of them. It is useless to try to cover the horse's eyes, as I have seen stated, for the horse is just as much scared at the nasty smell as at seeing the object. There are, of course, a few horses that will pass an automobile very nicely, but the most of them will "cut up," and have no respect for the ditch, with on outcome of perhaps someone killed or badly hurt.

This style of occupying our country roads makes it very inconvenient for us farmers. It seems as if our country roads were made by us, for the pleasure and convenience of the city people with their automobiles. cannot see how it is that in the summer-time, when the farmer is so busy, his wife or children cannot have one day in the week to drive out to town or village to do their shopping, and be clear of the automobile, so that the farmer himself could work with ease regarding their safety.

I also think that automobiles should carry the number in front as well as behind, for it is impossible to catch the number behind for dust.

I hope my plea is now too week to the farmer; it should be Saturday.

READER. I hope my plea is not too much for one day a Huron Co., Ont.

FAVORS MILITARY DRILL

Editor "The Farmer's Advocate"

I have read, with a great deal of interest, an article in your issue of February 27th, by Eunice "Military Drill and Tuberculosis." Watts, on though I differ with the writer of the article in many points, she, nevertheless, gives good advice in many ways, and I believe, were she more conversant with military drill and calisthenics, as taught in some of the more progressive of our schools, she would change

How is military drill to affect our boys?" It will make them better citizens in every way. It makes them sharper in their movements, ready to obey

their parents or teachers instantaneously, improves their physique, and by strengthening their bodies, also strengthens their minds, enabling them to resist evil and do good. Will it affect the girls of our country?" Yes. A good course in extension motions is an efficient method of building up their bodies, and thereby

even practice with the despised punching balls, and you will have a healthy lot of girls, fit in every way to be the mothers of the next generation. Again the writer says: "If our boys enter the militia, will it not make them discontented with the

resisting tuberculosis. Let them be taught fencing, and

quiet life of the old homestead?" To this I say, decidedly: "No!" annual drill as an outing, and come home more contented than they went away. I have heard many a and I know by my own experience that I come home each year strengthened; in fact, built up for the rest of the year, and fit to resist the germs of tuberculosis. A military-drilled farmer would be a ludicrous

If all military-drilled farmers are ludicrous objects, I am afraid Ontario must be a ridiculous Province, for it is full of them. Eunice Watts is behind the times Farming is a profession in Ontario. Our, O. A. C. and the He, in Ontario, is not looked on as a "mossback," the front in every movement which he believes bene-

The old ax would be an efficient substitute for

Here the writer, whose aim is to keep the young

to send them to the city. There is no surer way to do this than by condemning them to a life of unremitting drudgery, to deny them possible advantages-as in the present instance-where a very good substitute for the much-envied gymnasiums of the city, is attain-

"Would it not be wise to teach our school children to combat the deadly disease, consumption?"

To this I say, "Yes." And one of the ways to

accomplish this is to teach the child military drill. By so doing, you are teaching him, not only to combat consumption, but also a foe that is far from being imaginary.

"But ye say, 'It will mar our comfort;' ye say, 'It will minish our trade.'

Do ye wait for the spattered shrapnel, ere ye learn how a gun is laid?"

A MILITARY-DRILLED FARMER.

COMBINATION SALE AT GUELPH.

The Provincial sale of pure-bred cattle, held under the auspices of the Provincial Live-stock Associations, at Guelph, on March 4th, was fairly well attended, considering the state of the roads in the country, and though no high prices were realized, the buyers met good bargains; some of the animals being of very good

Following is the sale list: Tiddlewinks, 1902; S. B. Snyder, Berlin Wanderer's Chief, 1906; Z. D. Kay, Hawkesville.. 95 Red Rover, 1906; O. Rappsit, Morriston 45 Old Meldrum, 1906, William McDermott, Living Royal Hero, 1907; J. C. Blackstock, Campbellville. 50 Royal Senator; J. A. Watt, Salem 90 Fergus Duke, 1907; Baker Bros., Guelph 50 Woodfield Prince; A. W. Gardner, Treadburg....... 100 Chief Matchless, 1906; J. Hatlin, Guelph...... 40 King Matchless; Milton Smith, Alma 40 Earl Buckingham; William Kappy, Spencer 55 Bonnie Hero; J. H. Lackner, Hawkesville 80 Prince Charley; Moses Shultz, Wellesley 50 Belmont Marquis; A. Mader, Breslau 55 Hero Boy; Ed. Doughty, Eramosa Lavender's Choice; George Prior, Aberfoyle 40 Wanderer's Lad; W. T. Lawrence, Westover 50 Scottish Chief; John Clare, Guelph 40 Supremacy; R. Jamieson, Valens 95 Roan Lad; Patrick McGarr, Marden 60 Victor Reliance; William Beaton, Freelton 80 Elmbrooke Lad: John Young, Brighton 75 Duke of Ratho: George Zettle, New Germany 45 Scottie; J. M. Young, Harriston Gilden Signet; John Dermis, Walton...... 60

THE RIGHT KIND OF AN IMMIGRANT.

Editor "The Farmer's Advocate":

I have been reading the discussions re immigrants that have appeared in your paper, and, although an immigrant of five months' standing, I feel that I ought to have something to say in the matter. who calls for a Canadian or none has evidently had somebody of the worthless sort, and naturally thinks everyone is like them. I know some Canadians that I would back any of the worst Englishmen against, and "John Bull" would come out best man. The man who had the carpenter must have had one of the smart sort. I guess the majority of English are willing to learn, if they have somebody who will teach them, although perhaps lots of them are no good at all. Those who come from the city think they have learned their work, and it is all plain sailing. I myself come from the country, and when I came I thought I knew something, but I am willing to admit that I know scarcely anything. It is the different way of doing things, I suppose. Wishing the immigrants every success, and the same to "The Farmer's Advocate." SIXTEEN-YEAR-OLD IMMIGRANT.

Muskoka, Ont.

LET MAPLE PRODUCERS ORGANIZE.

Editor "The Farmer's Advocate":

I consider your paper one of the best means for the best farmers of this country to become united. I would like to see the pure maple-syrup manufacturers united to increase the industry, as I believe the quality could be improved; a better way found to handle the goods; a better way to put it on the market, and, also, a better way to open up the market. The market is a wide one, and a very small amount was widely distributed last season. I shipped some to points in Ontario, in Manitoba, in Saskatchewan, in Wisconsin (U. S.), and also to Ireland; so, you can see how broad the trade is, if it were only larger in quantity; and, I believe the way to increase it is for the farmers of Ontario who manufacture syrup to unite and have

a meeting each year, or twice a year, if necessary. Now, I would like to know what some other manufacturers think along this line; and, as it is too late to take many steps before this season starts, we could take some before another season begins.

Frontenac Co., Ont. H. A. BUCK.