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We Welcome Practical Progressive Ideals

The Recognized Exponent of Dairying in Canada

Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land .- Lord Chatham

VOL. XXXVI

TORONTO, ONT., FEBRUARY 1, 1917

No. 5

Experience of One Year With Artificial Incubation Our Hatches Were Good and the Chicks Healthy and Vigorous—Incubating Methods in Detail

WHEN we first came back to the farm it was cur intention to run a dairy and poultry farm. Now, with our first year on the soil almost completed, and a year's experience under our own peculiar conditions to judge by, we are thinking of developing a poultry and dairy farm. Our cows have done well; they are good ones, if we do say it ourselves. But our poultry have done the cows one better. Labor and investment considered, they are by far the more profitable of the two. The work is easier, and more pleasant. The hours are shorter. The same strict adherence to clock-like routine is not pecessary. "Elliscroft Farm," as we have chosen to call our little standing, will hereafter number poultry as the main source of income with dairy

cattle a good second. Our enthusiasm for the poultry end of our business is largely due to the wonderful efficiency of modern artificial incubating and brooding methods. With a good incubator of large capacity and good brooders it is now possible to make poultry a fairly extensive side line without becoming so lost in detail that the rest of the farm work must suffer. The incubator has come to stay. Its success is assured. Artificial brooders have not been perfected to the same degree, but, even then, we would not care to divide our attention over 20 hens with 300 chickens when our coal burning brooding stove would care for all of them with only a fraction of the work. It is with our experience in incubating and brooding that this

article principally deals. The first essential to success in chicken rearing, whether the natural or artificial method be followed, is fertile eggs with good, strong germs. I have seen the statement made, and on good authority, that 330,000,000 eggs were set in Canada in 1915, and from these only 14,000,000 chickens were hatched. What a pile of useless eggs! What a waste of time and energy! And the most of this energy wasted by farm women who look to poultry for their pocket money. Only a part of this loss can be attributed to inefficient incubating. More of it was due to weak germs or infertile eggs. We were guided in our selection of

who had already become well known in poultry circles, and so we avoided many of the mistakes of beginners. We were careful to seloct eggs from pens of year-old hens that had made good records in their pullet year, mated with cockerels. This is generally regarded as the most satisfactory mating. Particularly is it important that the females be heas and not pullets. Pullets, if of a good

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laying strain, will lay so heavily during their first winter as to exhaust their vitality. The eggs from hens, on the other hand, are larger, more vital and capable of giving birth to larger and stronger chickens. Particularly is this true of the egg breeds-Leghorns, Minorcas, and so forth. With Rocks, Wyandottes and similar breeds the difference in favor of year-old hens is not so great. As a rule, farm-reared breeding stock is preferable, as farm hens usually have free range, but we have secured eggs for hatching from both farmer poultrymen and specialized poultrymen, and had good results from both. The latter,



The Farmer's Friend

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Fone of your family was lying at death's
door would you go for a lawyer, dentist or
blackmithr or would you get the best
doctor you knew of to handle the case? And
elect he had experience and knew what he
was doing. You would have confidence in
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a market value. The wild birds and game birds are the farmers friends also, for the reason that they eat many insects that are injurious to crops and tion of eggs that will range from 80 to 90 per cent. hatchable.

Choice of an Incubator.

Our choice of an incubator fell on a 400 egg machine. This may seem like a large machine to purchase when one is not contemplating poultry keeping on an extensive scale. But why not, we argued, hatch all of our chickens in a couple of runs, instead of keeping a small machine going continuously for three or four months. Likewise, the system of brooding that we were contemplating necessitated chickens in large flocks. Another factor to be considered in deciding the capacity of incubator is the short duration of the hatching season if winter layers are the chief desideratum. Chicks hatched earlier than March will begin laying in the late summer, but there is a danger that they will moult their first fall and not lay again until spring. Cbicks hatched later than May 15th, on the other hand, will not begin laying until a couple of the months of highest prices are past, and profits will be reduced accordingly. With a large incubator : ll the chicks can be gotten out in the proper season.

Our preference is for the hot air, lamp-heated incubator. And we purchased one of the highest priced machine on the market. Machines that are cheap in price are liable to be cheaply constructed, the heating pipes are liable to leak lamp fumes into the egg chamber, the thermostat will not be as accurate as is desirable, and the heat distribution will not ensure an even temperature in all parts of the egg chamber. Cheap machines have done more than any other single factor to discourage artificial incubating. Buy a good machine or stay with the hens.

The incubator should be located in a room with good ventilation and an even temperature, not too hot or too cold. A well ventilated cellar is probably the best place on the farm, and it was in our cellar that our machine was installed. Be careful to have the machine sitting perfectly level. Try it with a spirit level. If one side is slightly higher than the other, that side will have

the higher temperature. It is desirable, though not absolutely necessary, to pipe the lamp fumes

out of the cellar. Getting Ready for a Start.

White diarrhoea is the great curse of the artificial system of chicken rearing, and white diarrhoea is due in large measure to failure to properly cleanse and disinfect the incubator. We have had no experience with the disease. Although our machine was

(Continued on page 8.)