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An Experience of One Year with Artificial Incubation

(Continued from Page 8.)

nearly half. The muchine is then reopened and the tray replaced.

Cooling the Eggs.

Our cellar was not furnace heated and was fairly cool. Hence for the first week the cooling with the regulation of twelve hours was deemed eufficient. From the eighth to the eighteenth day the agr trays were left on the table until they felt cool to the lips. The time railed with the temperature and the grays were left on the table until they felt cool to the lips. The time railed with the temperature and the gray the gray to the seg trays were left on the table until they felt cool to the lips. The time railed with the temperature and the gray the gray that the gray the gray that the gray the gray the gray that the gray that the gray the gray that the gray that the gray that the gray the gray that the gra height that the trays could be drawn out directly on to it. After the eighteenth day, the machine is closed up and the eggs left alone until the

Moisture Control

hatch is complete.

Moisture Control.

Moisture is an ecential factor in successful incubation. Our incubator has sand trays under the egg trays. The sand, from first to last, is kept asturated with water. When water is added to the trays, have it the same temperature as the egg chamber, 102 or 103 degrees, or it will cool the whole chamber. To insure a still greater supply of moisture, we sprinked the cement floor once daily. Even then I doubt if the air in the machine was a hund as the air is under the hen. There are some machines, I believe, which do not call for lay moisture in the machine. any moisture in the machine. I should be inclined to set trays of water in these, for artificial incubation is suc-cessful just in proportion as natural cessar just in proportion as natural conditions are imitated. Just before the hatch commences, the sand trays are removed, the brooder trays set in, and the machine closed as quickly as

and the machine closed as quickly as possible.

Testing the Eggs.

The eggs chould be candied twice during the incubating period. White-shelled eggs are much easier to candle than brown, and these may be candled on the fifth day. Brown-shelled eggs cannot be dietinguished until the eighth day. All doubtful eggs, and there will be many in the case of beginners like ourselves, should he left in the incubator for the second test, which course on the fifteenth day.

This fertile eggs show a live germ which, with the tiny threads radiating out from it, resembles a spider. Intervile eggs are clear when candled, before the control of t

W can quite understand the exp W can quite understand the expectancy, perhaps anxiety, with which the beginner will wakt for the first peep from inside the incubator; especially when the temperature has been dangerously high at any time during the three-weeks period. It is desirable that the chick, once out of the shell, lie quietly in his place for a time. This is will not do if it can see light in any direction. We covered the glass front at will not do if it can see light in any direction. We covered the glass front with a heavy blanket while the chick-tens were batching. The lump flame, too, was kept very low at this time. When the "peeps" indicated that a goodly number of chickens were out, we opened the ventilating shide about

nearly half. The muchine is then re-one-third. When all the chickens opened and the tray replaced. Were out, we opened the door slightly.

Cooling the Eggs. The regulation of ventilation is easy that the chickens. The minute we noticed a chick with two mouth open, panting for air, we gave more ventilation. If too much air is given the chicks will rechick will rechick will rechick will rechick will rechick will rechick with the case of our second hatch, the door may need to be opened so wide that the chickens can come out. Stuff the opening with excelsion. This will keep the chicks in and allow of perfect ventilation. We kept both our batches of chicks in and allow or periect ventilia-tion. We kept both our batches of chickens in the incubator for 48 hours after the hatch was complete. Then they were removed to the brooders they were removed to the brooders and fed. But a detailed account of our experience with brooding and feeding must wait for another time,

feeding must want for another time, as this account is already too lengthy. And now for our success. Our first run was with 350 eggs of the O.A.C. bred-to-lay strain of Barred Plymouth Rocks secured from a very successful form poultrywoman of Dundas Co., Ont.—Mrs. R. Rainey, of Morewood. In due time we took off 265 fine heal-In due time we took off 255 fine heal-thy chickens—a hateh of 75 per cent. Our next run consisted of 385 Leg-horn eggs from the farm of Lewis N Clark, at bort Hope, Ont. We hatched 395 chickens, only one of which was 395 chickens, only one of which was absoluted to the constant of the con-batch of over 80 med and healthy—a hatch of over 80 med and healthy—a health of over 80 med and healthy—a well pleased with our results in both cases, as our hatches averaged much higher than the results secured from higher than the results secured from the same breeds on any of our experi-mental farms or agricultural colleges. Our success we attribute to following carefully the methods that we have attempted to give in detail in this

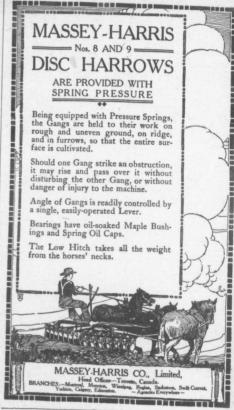
The pronoun "we" has been used advisedly. Poultry as an extensive side line on the farm is most easily possible when the farmer has the hearty support and cooperation of his wife. Mrs. Ellis had almost exclusive charge of the incubator during its first run, and during the busy days of the spring, when general farm work was pressing, was the mainstay of our poultry business.

The 1916 Harvest Returns

HE yields of cereal crops in Can-ada for 1916, as compared with those of 1915, show large de-eases. They are as follows: Crops. Bushels 1916.

Wheat 426,746,600 220,367,000 Oats 523,684,400 Barley 60,699,100 351,174,000 41,318,00 2,896,400 Offsetting the low yields and grades is the increase in the average prices of grain received by farmers in 1916, which work out as follows: Fall wheat, \$1.53 against 91 cents in 1915; wheat, \$1.53 against \$1 cents in 1915; spring wheat, \$1.29 against \$2; oats, \$5 cents against \$4; barley, \$2 against \$4; rye, \$1.11 against \$9; faxseed, \$2.05 against \$1.50; peas, \$2.22 against \$1.66; beans, \$5.40 against \$3.50; buckwheat, \$1.07 against \$7; and corn for husking, \$1.07 against \$7; and corn for husking, \$1.07 against \$7; and corn for cops of Canada in 1916 is now estimated by

The total value of the field crops of Canada in 1916 is now estimated by the Census and Statistics Branch at \$880,854,000, the revised estimate of 1915. 297,500, the revised estimate of 1915. 172,400 compared with \$411,789,000 in 172,500 compared with \$411,789,000 in 1916 in 182,789,000. The total of 3805,084,000 for 1916 is higher than in any perview over with the exception any previous year with the exception of 1915.



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