

The case was deemed so important that the letter was forwarded to Professor Wesley Mills, asking his opinion and advice in the interests of the farming community. With his usual kindness, Dr. Mills returned the following reply:—

"PHYSIOLOGICAL LABORATORY,
MCGILL UNIVERSITY.

Montreal, 13th February, 1892.

"Manager Poultry Department,

"Experimental Farm, Ottawa.

"DEAR SIR,—I have your favor of 11th February, enclosing Mr. Dickhout's letter. From the clear and intelligent account this gentleman gives, I have little doubt that the fowls are suffering from fatty degeneration of the liver, owing to overfeeding and lack of exercise, exaggerated possibly by inadequate ventilation from the 'limited quarters.' Whether there be also cystic disease from parasites or tubercule, it is impossible for me to say without seeing one of the livers.

The remedies are obvious—feeding on oats with vegetable food, scattering with chaff among straw on the floor and enlarging the quarters.

"Truly yours,

"WESLEY MILLS, M. D."

INCUBATOR TRIAL.

On the 13th May 96 eggs were put into an incubator purchased some years ago from A. W. Bessey, of St. Catharines, the manufacturer. The eggs were from the mixed hens which had been running outside for some time and were likely to be fertilized. Careful note was taken of the temperature of the incubator at 7 a.m., 12 noon, 4 p.m. and 8 p.m. The proper temperature to keep was 103. The greatest variations of temperature were on the 17th of May, when the thermometer in the egg chamber rose to 105 for a short time in the morning, and on the 16th May, when 97 was registered in the morning. The desired figure of 103

with these exceptions, was kept with remarkable regularity, but the result was very unsatisfactory. Four chickens only hatched. Examination of the remaining eggs showed five well developed chicks dead in the shell; 39 ditto imperfectly developed; 17 just started, and 23 eggs with no sign of development, probably not fertilized. It should be stated that the incubator was constructed with two tanks, one on the upper and the other on the lower part of the egg chamber, with the eggs placed on a tray between the tanks. This principle of hatching eggs has received unstinted condemnation. All incubators are now constructed with one upper tank, the eggs being placed underneath subject to the "top heat." The contention is that the eggs are hatched by the top heat of the hen. The numerous enquiries by letter as to the most improved method of incubation indicate increasing interest in the subject. It is beyond question that artificial incubation is more generally and successfully prosecuted at present than it ever was before in this country, and its advantages can hardly be overestimated.

EGGS KEPT IN DIFFERENT TEMPERATURES AND IN DIFFERENT SUBSTANCES.

The experiments with eggs kept at different temperatures and packed in different substances, in order to ascertain how long they would keep without spoiling was continued from date of last test, 24th February, 1891 and numbered "Examination 26."

Examination No. 27.—On 14th of March, 1891, examined an egg laid first week in August, 1890 and kept in drawer of table in office of main poultry building, placed there the same week it was laid. Contents quite sweet and free from mustiness.

(To be Continued.)

PUBLISHERS' NOTES

U. S. OFFICE.

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Mr. J. H. Cayford, Box 1,168, Montreal is our Agent and Correspondent for the Province of Quebec. Any correspondence relating to subscriptions or advertising may be addressed to him.

"The Dog in Health and Disease," by Prof. Wesley Mills, Montreal, \$2.25, free by mail from GAZETTE Office.

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The Canadian Poultry Review

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TORONTO, ONTARIO, CANADA.

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TERMS:—\$1.00 per year, payable in advance.