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Fifty-seven illustrations show types of dairy breeds, noted dairy animals, apparatus for treating milk fever, examples of good farms, stalls, King System of Ventilation, Trocar used for blood.

A CHAPTER ON DISEASES OF CATTLE—TUBERCULOSIS, CONTAGIOUS ABORTION, ETC.

Prof. Eckles, of this book, is a noted dairy authority. He has the practical experience together with scientific training. For over 15 years he has had charge of a herd of from 30 to 50 cows, many of these are prize winners.

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Every man with dairy cows can profit from this book. It will be fine for your boys.

Price, \$1.75 postpaid.

FARM AND DAIRY

Book Dept. Toronto, Ont.

POULTRY YARD

Remedies for Disease and Lice

Mrs. John Rosebush, Brant Co., Ont.

Fifth, dampness, improper ventilation, improper feeding, and the introduction of infected birds into the flock, are some of the most common causes of disease in poultry. Prevention is better than cure, and if we eliminate all of these causes of disease we will not need to worry about diseased poultry.

Everything about a poultry house should be kept clean. The quarters should be thoroughly whitewashed at least once a year. The addition of four ounces of carbolic acid to each gallon of whitewash will increase its disinfective properties.

When disease has become firmly established in a flock, or if a single bird is badly affected we believe the free use of the hatchet is usually the most practical method of ending the trouble. Do not try to spend \$2.00 bird, where the trouble is slight, however, cures may often be effected with little trouble.

There are two classes of external parasites on fowls, lice and mites, and these are just as troublesome as disease, when strongly established in the flock. We have found the following an excellent method of ridding the poultry house of these vermin.

Shut the hens outside, close all doors and windows, and burn sulphur in an iron vessel. Then dust the fowls themselves with insect powder or tobacco dust once a week.

Egg Laying Tests in Oregon

Interesting tests for egg laying have been conducted at the Oregon Agricultural College by John H. Mack, a special poultry student.

In these tests single-comb White Leghorns were used. The first hen, a cockerel being given a run of but 10 by 10 feet, in which space was the house, so that they were in close confinement. The house was a six by three and a half foot brooder coop arranged for their use. Half was used for roosting quarters and half for a scratching shed.

This scratching shed was kept well bedded with straw about eight inches deep, and a large part of the whole grain given the fowls was fed here, though some were fed in the yard to induce the fowls to scratch outside when the weather permitted.

The front of the house consisted of two doors, which were either wide open or partly so even in the coldest winter weather. No ill effects were noticed, and the good record of general vitality of the flock showed that they were benefited by the more nearly natural conditions, although the cold sometimes seemed extreme for them.

As the soil was rather heavy, several inches of sawdust were spread on the ground, so that the chickens did not track in cold, wet mud, and had a good scratching place, which dried rapidly after a rain.

A dry mash was fed them in hoppers and whole grain, oats in the morning and wheat in the afternoon, stored in the litter. The fowls ate only about one-third as much oats as wheat but as there were oats and barley in the mash they probably made up deficiencies there. The mash, which was fed dry and kept constantly before them, consisted of two parts of bran to one of ground corn and one of ground oats and barley. Other hoppers to which they had access all the time held beef scrap, charcoal, grit and ground shell. A good supply of kale was kept before them to pick at, and good, fresh water was always within easy reach.

The following record of the amount and cost of the feed from November to May is interesting in the light of the production records: 158 lbs. of wheat, \$2.22; 661.2 lbs. of oats, 88c; 13 lbs. of bran, 15c; 71.2 lbs. of ground oats and barley, 101.2c; 9 lbs. of beef scrap, 321.4c; 8 lbs. of charcoal, 41.2c; 51.2 lbs. of grit, 51.2c; 53.4 lbs. of shell, 53.4c; 53.4 lbs. of ground corn, 83.4c; total cost, \$832.14.

Pullet No. 1 laid 113 eggs, valued at \$2.35; pullet No. 2 laid 112 eggs, valued at \$2.75; pullet No. 3 laid 101 eggs, valued at \$2.94; pullet No. 4 laid 113 eggs, valued at \$2.94; and pullet No. 5 laid 99 eggs, valued at \$2.23.

Thus it is seen that the total expenditure for the five pullets and the income from the eggs was \$12.66, leaving a profit, if the work in caring for the chickens is not counted, of \$8.74.

APICULTURE

Pointers on Hiving

Miss Ethel Robson, Middlesex Co., Ont.

If the apiary can be located where a view can be had from the house it helps matters much, as the watchful eye can then be kept on the bees without interfering with domestic duties, and in case a swarm does issue with a clipped queen it is an easy matter to hive it; all that is necessary is to remove the old hive to a new stand and place a hive of empty combs in the old stand; the swarm being queenless, will return and hive itself; the old queen will usually be found in front of the old stand, if not, in the cage and the bees will be caught and released. If the swarm returns to the old stand, it is allowed to run in with them.

A card of brood-paused in the hive will do much to make them hived. If no increase is desired, it is a good opportunity to start some nuclei for the bearing of young queens, two or three cards of brood with the adhering bees will be sufficient for one; the queen cells may be permitted to hatch, or if a better strain of bees is desired, the cells destroyed and a ripe cell given from an approved queen.

Ontario Bee Keepers Meet

"I don't if there is any industry in this country that is capable of such development as the honey industry," said Mr. C. C. James, Deputy Minister of Agriculture for Ontario, at the Annual Convention of the Ontario Bee-keepers' Association held in Toronto, Nov. 15th to 17th. This remark of Mr. James' was the keynote of many interesting and instructive addresses given at the convention.

By the time the convention closed but be impressed with the great possibilities of this branch of the industry of agriculture.

Cooperation was the subject of several of the addresses before the association. Mr. Robt. Thompson, St. Catharines; Geo. Keen, Brantford, Ont.; Hon. Sec., Cooperative Union of Canada; and several other speakers who took part in the discussions urged the extension and development of cooperative enterprise between the bee-keepers and with the consumers of their products.

A much appreciated speaker at the convention was Dr. E. F. Phillips, of the Washington Department of Agriculture, who spoke of the habits of the honey bee and its diseases.

"County Associations and their Work" was the subject of one of the interesting addresses given by Mr. Morley Pettit, Provincial Apiarist. The problems relating to foul brood, naturally received much attention, F.

E. Millen, Jas. Armstrong and W. Scott telling of their experiences with European foul brood in various Ontario sections, while Mr. Chas. Stewart, of Johnstown, N.Y., told of his experiences as apiary inspector in that State.

The election of district directors resulted as follows: District No. 1, W. C. Brown, Chard; No. 2, A. H. Laughlin, Cumberland; No. 3, B. Holmes, Athens; No. 4, R. Lowe, Key Valley; No. 5, James Storer, Lindsay; No. 6, J. Byer, Mount Joy; No. 7, J. F. Seiler, Orangeville; No. 8, A. H. Bowen, Niagara Falls; No. 9, A. Laing, Simcoe; No. 10, J. Haberer, Zurich; No. 11, E. Robson, Ilderton; No. 12, D. Nolan, Newton Robinson.

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We are now starting to pack poultry for the WESTERN CANADA Christmas Markets

As soon as YOUR birds are ready we will buy them. Feed is dear this year and there will be nothing gained by holding. Write TO-DAY for our WEEKLY POULTRY LETTER if you live West of Toronto and have poultry to sell. We supply crates and guarantee Prices F.O.B. Your Nearest Station.

We pay a special price for MILK-FED, CRATE-FATTENED CHICKENS

"Canada's Leading Poultry House"

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Fowl

A Pair of Pure Breeds will be given you free in return for four New Subscriptions to Fowl Year. Tell us which variety you would like.

FARM AND DAIRY, Peterboro, Ont.

Where Ontario Provincial WINTER FAIR

WILL BE HELD AT

GELPH

Dec. 11 to 15, 1914

Exhibits consist of the leading kinds of

HORSES

BEEF and DAIRY CATTLE

SHEEP, SWINE, SEEDS

and POULTRY

\$16,000 in PRIZES

Live Stock entries close Nov. 25th. Poultry entries close Nov. 27. \$15,000 has been spent this year on additional accommodations. Single Fare, Free for exhibitors on the railway. Free return for exhibits shipped by freight. For Prize List and entry forms apply to the Secretary.

JOHN BRIGHT, President

MYRTLE TATTON, Secretary

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